Verified RealEstate™

RE REGULATORY RECORD

RERA Document

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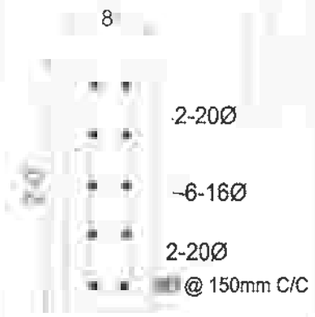
Verified RealEstate™
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India

hello@verified.realestate
+91 9996 12 9996
verified.realestate

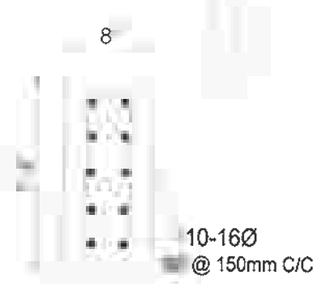
DIGITALLY VERIFIED RECORD



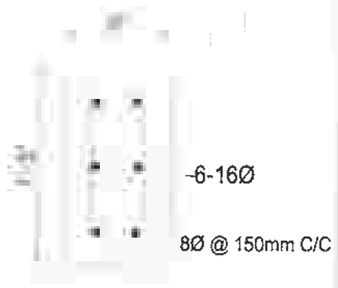
Column C1-1nos



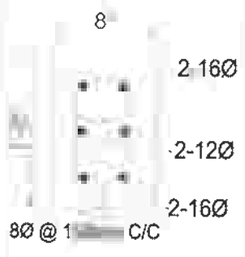
Column C2-2nos



Column C3-3nos



Column C4-12nos

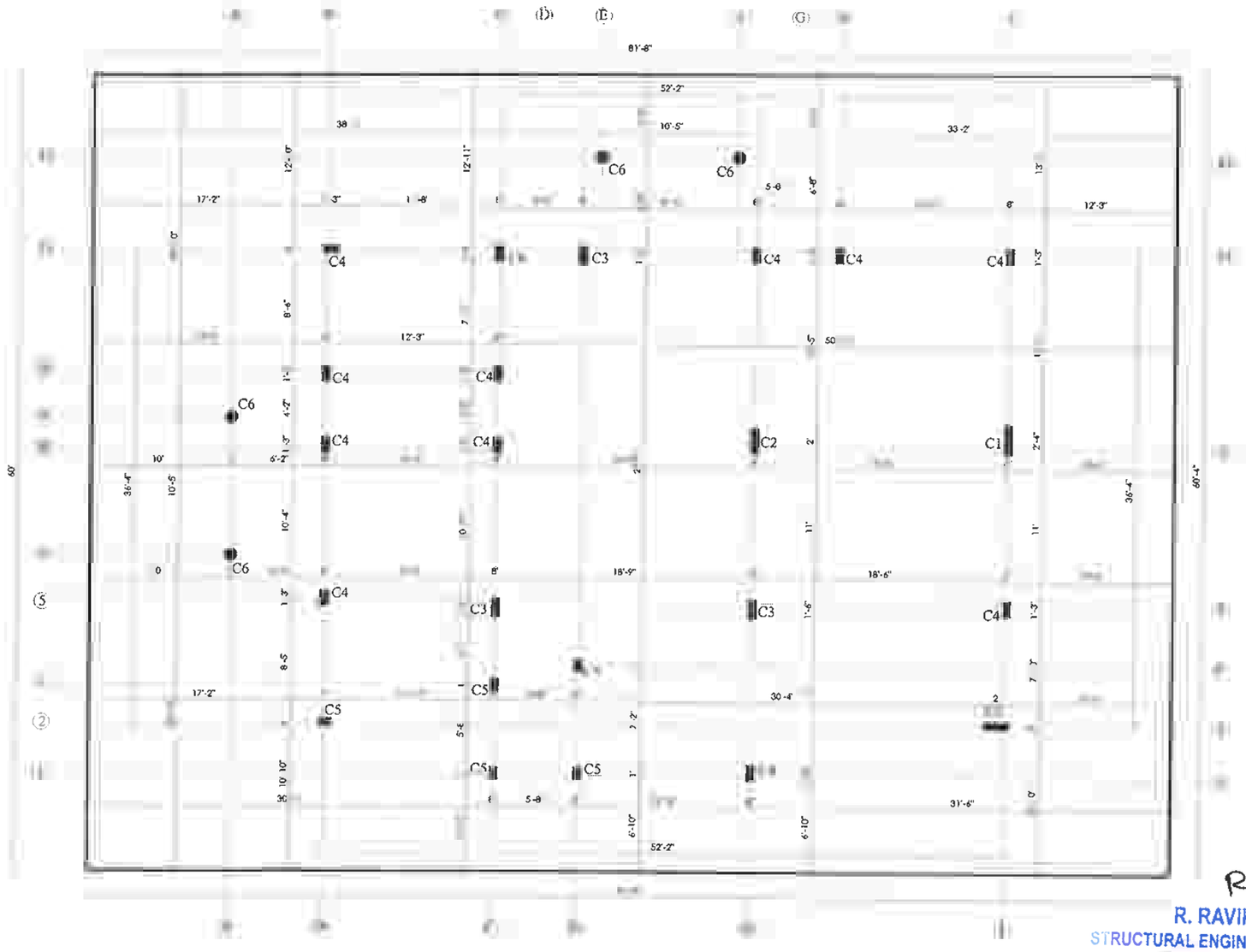


Column C5-5nos



Column C6-4nos





Site Boundary Line is taken from Architectural Drawing

COLUMN DETAILED DRAWING

ALL DIMENSIONS ARE IN FEET & INCHES.
ALL DIMENSIONS TO BE CHKD. AT SITE.
DO NOT SCALE THE DRAWING

NOTE:

IN THE EVENT OF ANY DISCREPANCIES OR DIFFERENCES BETWEEN ARCHITECT DRAWINGS/ INTERIORS DRAWING WITH THE SITE CONDITIONS, IMMEDIATE REFERENCE IS TO BE MADE TO THE ARCHITECT OR INTERIORS DESIGNER PRIOR TO THE EXECUTION OF WORK AT THE SITE.

S.No	DATE	REVISION NUMBER	COMMENTS
1	04.11.2025		As per scheme R0.
2.	11.12.2025		As per Revision dwg (10.12.25).

ARCHITECTURAL DESIGNERS:

DEEJOS ENGINEERS AND CONTRACTORS PVT Ltd
A Unit of DEEJOS GROUP
No:1, 2nd floor, G.L.C. Road,
Chrompet, Chennai-600 044,

Mobile: +91-7200860084
Email: projects@deejos.com

CLIENT:

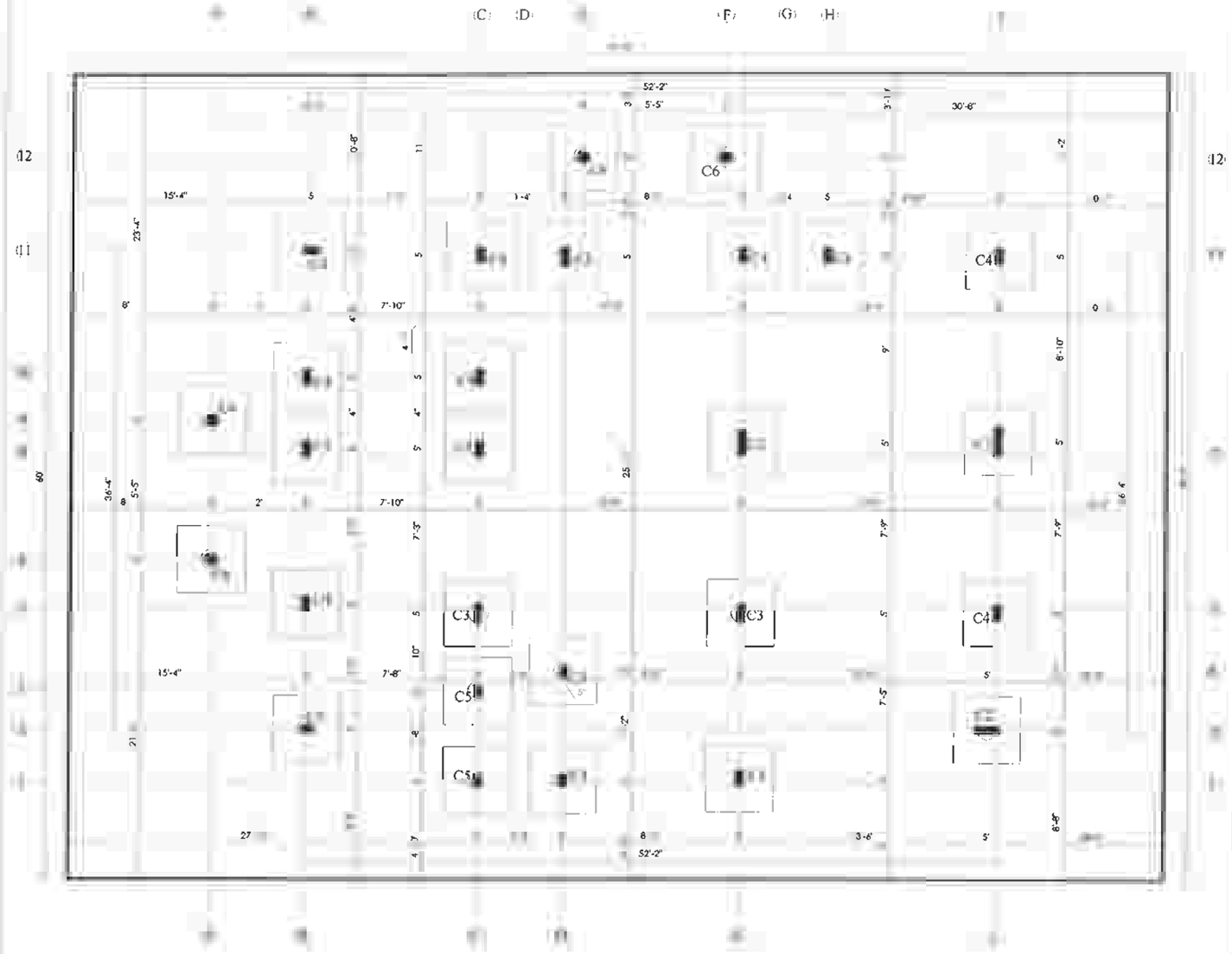
Villa-3, Adityaram Palace City
@ECR, Chennai

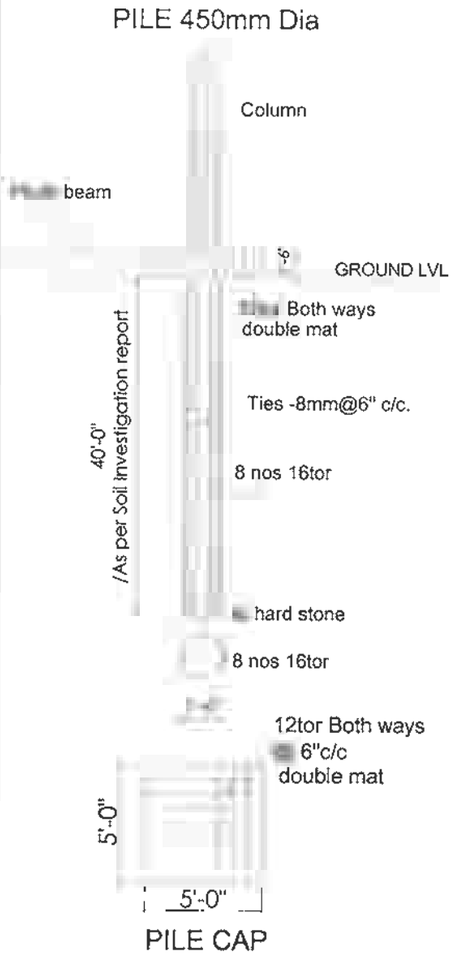
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
Reg. No - SE/GR-1/19/12/231 (CMDA)

G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED	11.12.2025	SHEET SIZE A3

DRAWING TITLE :
STRUCTURAL DRAWING 01

DRAWING NUMBER: ST-01







ALL DIMENSIONS ARE IN FEET & INCHES.
ALL DIMENSIONS TO BE CHKD. AT SITE.
DO NOT SCALE THE DRAWING

NOTE:

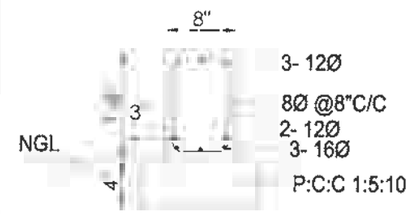
IN THE EVENT OF ANY DISCREPANCIES OR DIFFERENCES BETWEEN ARCHITECT DRAWINGS/ INTERIORS DRAWING WITH THE SITE CONDITIONS, IMMEDIATE REFERENCE IS TO BE MADE TO THE ARCHITECT OR INTERIORS DESIGNER PRIOR TO THE EXECUTION OF WORK AT THE SITE.

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No:1, 2nd floor, C.L.C. Road,
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Mobile: +91-7200860084
Email: projects@deejos.com



CLIENT:

PLINTH BEAM tyaram Palace City
@ECR, Chennai

Note:
Dia of Pile :450mm | No of Pile :27nos | Pile Concrete :

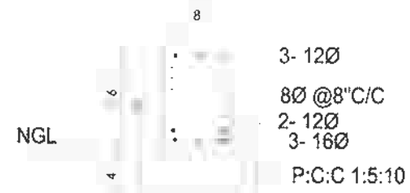
STRUCTURAL
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

PILE & PILE CAP DETAILED DRAWING

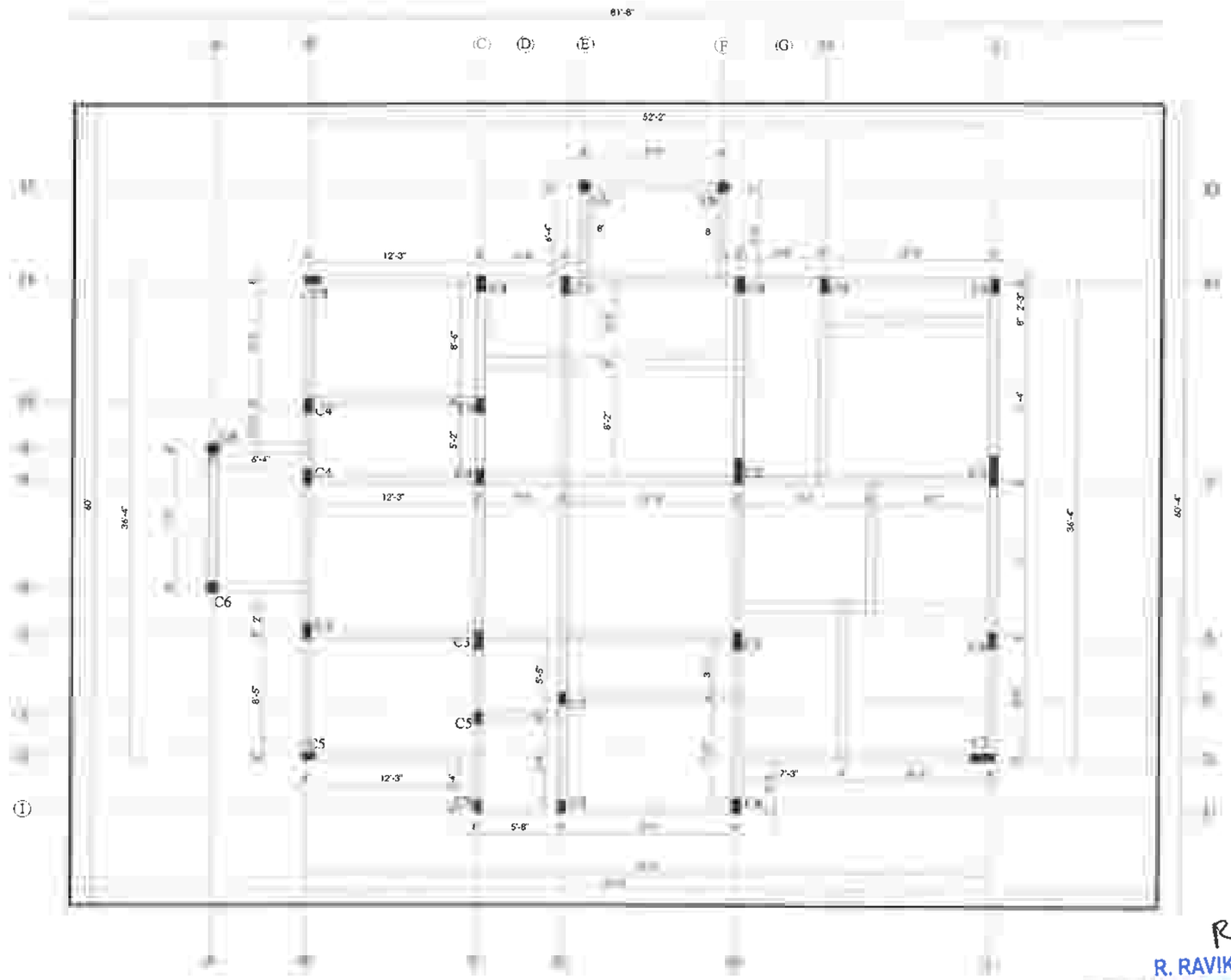
G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED:	11.12.2025	SHEET SIZE A3

DRAWING TITLE :
STRUCTURAL DRAWING 02

DRAWING NUMBER: ST-02



PLINTH BEAM



R. RAVIKUMAR
GRADE - 1 (SE)
M.E (Structural
Reg. No - SE/GR-1/19/12/231 (CMDA)

PLINTH BEAM DETAILED DRAWING



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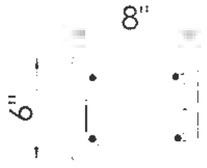
CLIENT:

Villa-3, Adityaram Palace City
@ECR, Chennai

G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED	11.12.2025	SHEET SIZE A3

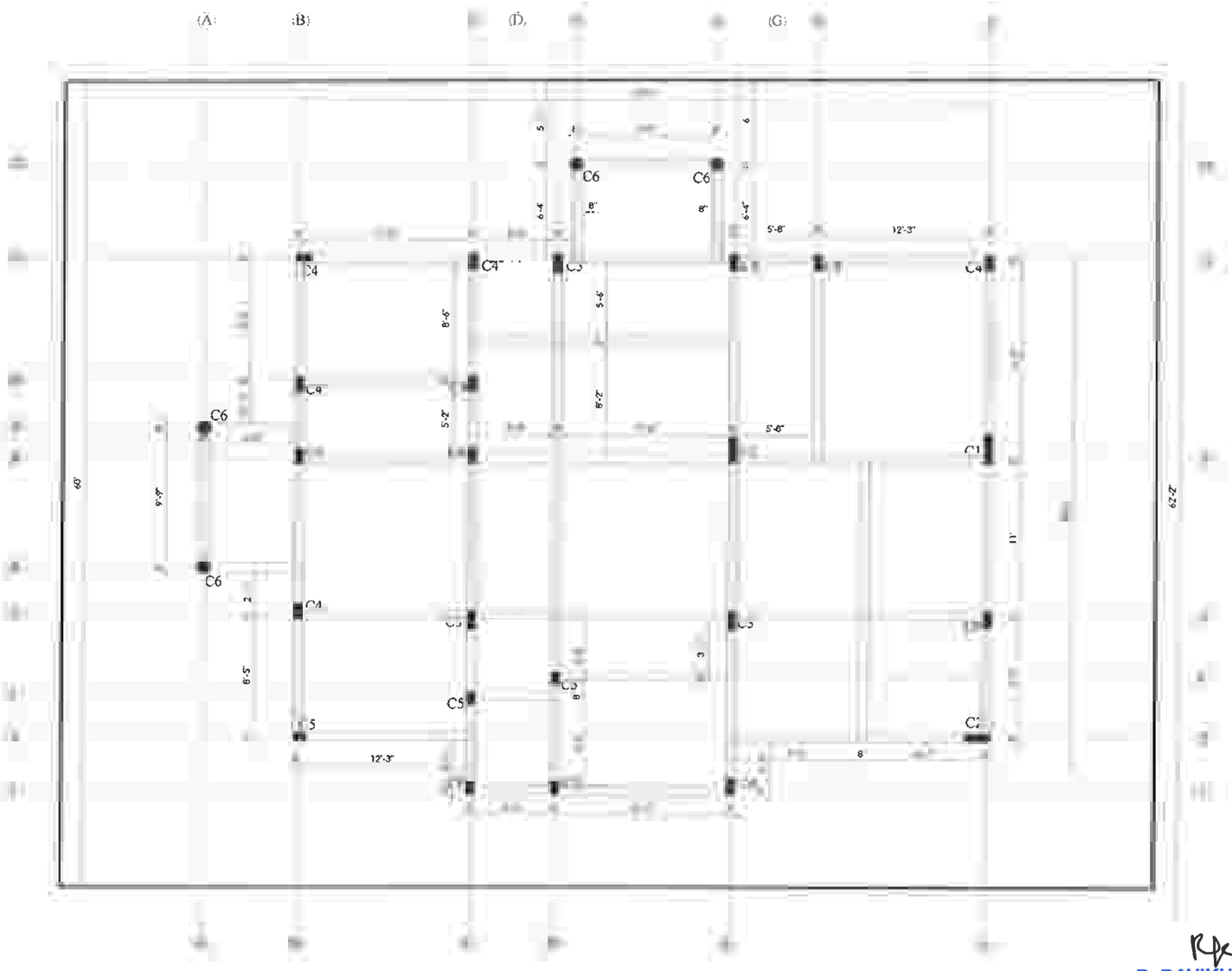
DRAWING TITLE
STRUCTURAL DRAWING 03

DRAWING NUMBER: ST-03



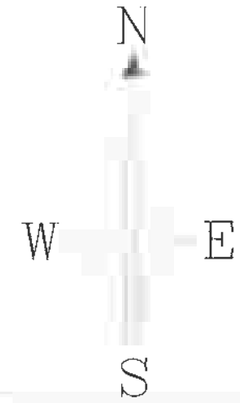
2- 10#
8#-8"C/C
2- 10#

TIE BEAM



R. RAVIKUMAR
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

TIE BEAM DETAILED DRAWING



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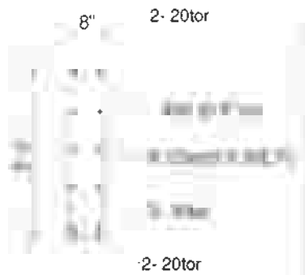
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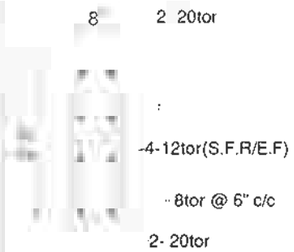
G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED:	11.12.2025	SHEET SIZE A3

DRAWING TITLE :
STRUCTURAL DRAWING 04

DRAWING NUMBER: ST-04



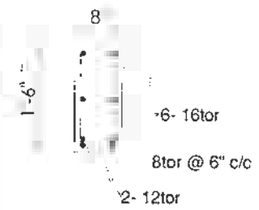
Tie Beam Detail (TB7)



Tie Beam Detail (TB6)



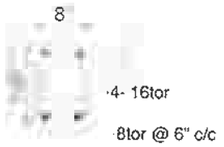
Tie Beam Detail (TB5)



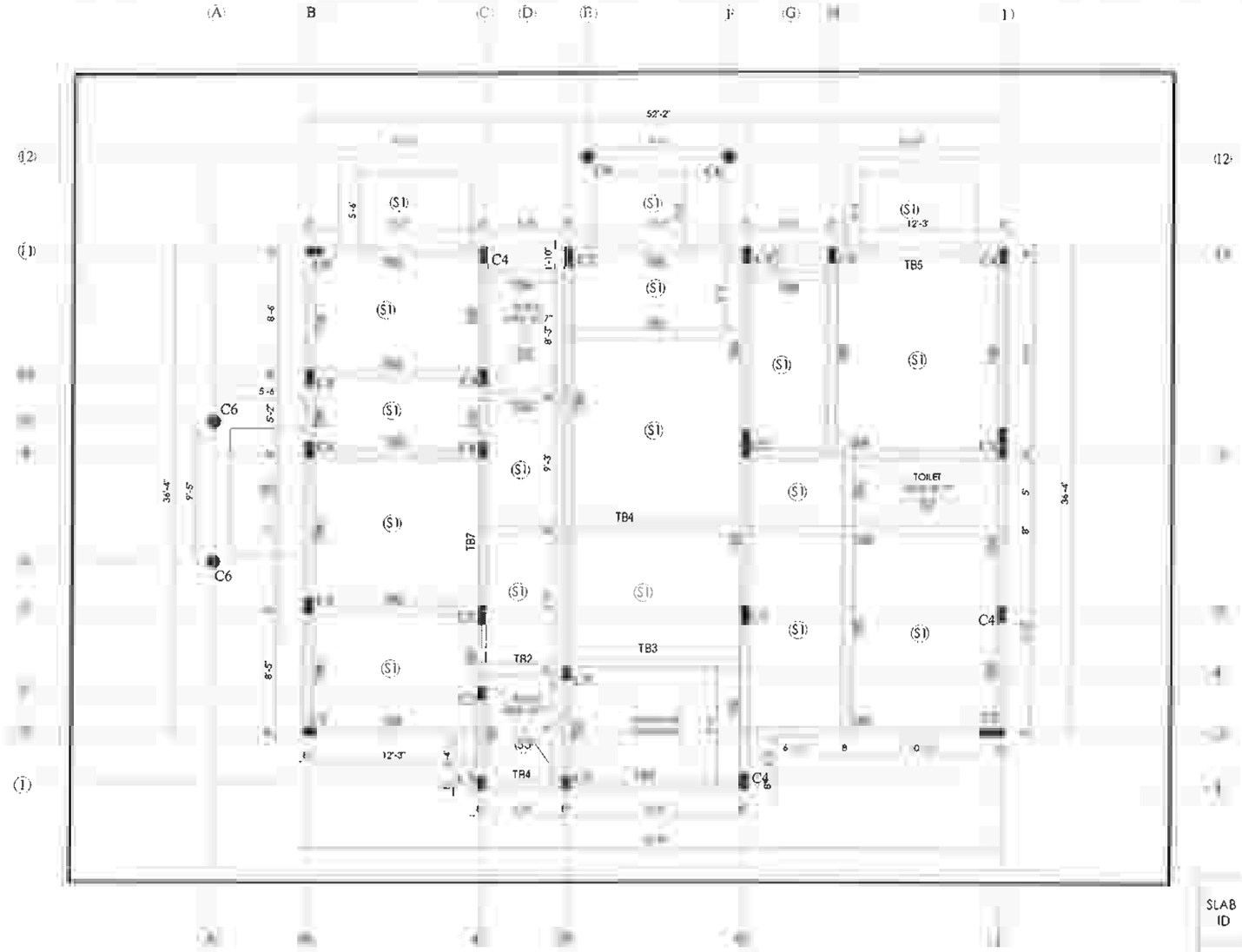
Tie Beam Detail (TB4)



Tie Beam Detail (TB3)



Tie Beam Detail (TB2)



SLAB ID	SLAB THICKNESS	REINFORCEMENT		TYPE OF SLAB
		Short Span	Long Span	
S1	5	10@6"c/c	8@6"c/c	One way slab / Two way slab
S3 Sunken	5	Top 8@6"c/c	Bottom 8@6"c/c	Sunken slab

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

GROUND FLOOR ROOF SLAB AND BEAM DETAILED DRAWING

N
W E
S

ALL DIMENSIONS ARE IN FEET & INCHES.
ALL DIMENSIONS TO BE CHKD. AT SITE.
DO NOT SCALE THE DRAWING

NOTE:
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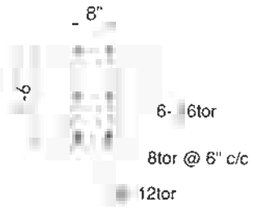
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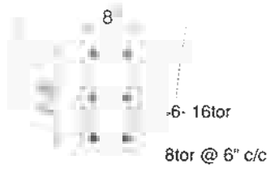
G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED:	11.12.2025	SHEET SIZE A3

DRAWING TITLE
STRUCTURAL DRAWING 05

DRAWING NUMBER: ST-05



Tie Beam Detail (TB4)

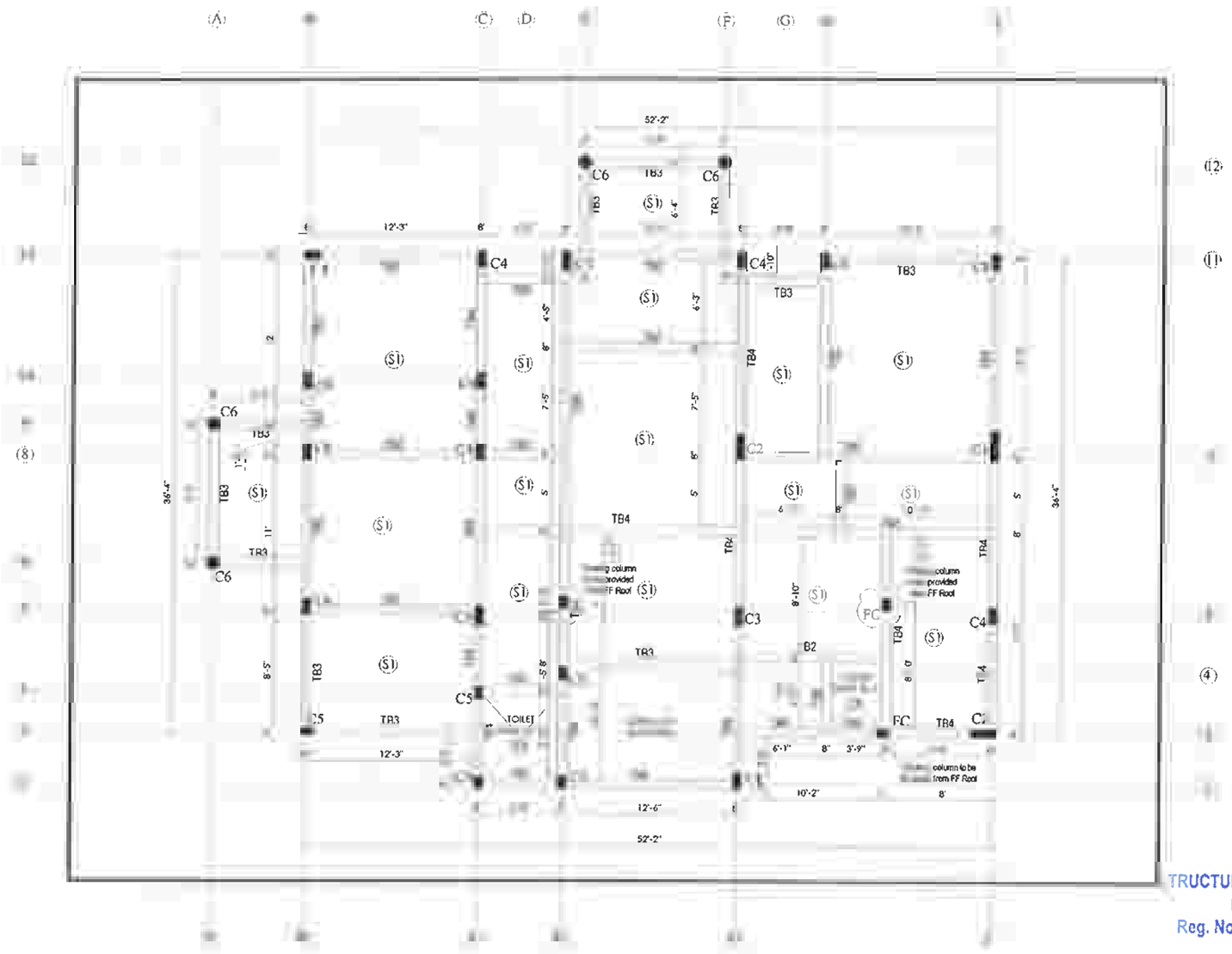


Tie Beam Detail (TB3)

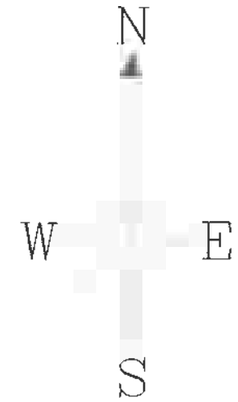


Tie Beam Detail (TB2)

SLAB ID	SLAB THICKNESS	REINFORCEMENT		TYPE OF SLAB
		Short Span	Long Span	
S1	5	10@6"c/c	8@6"c/c	One way slab Two way slab
S3 Sunken	5	Top 8@8"c/c	Bottom 8@6"c/c	Sunken slab



R. RAVIKUMAR
TRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



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CLIENT:

Villa-3, Adityaram Palace City
@ECR, Chennai

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CHECKED BY:		
APPROVED BY:	E N C	
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DRAWING TITLE
STRUCTURAL DRAWING 06

DRAWING NUMBER: ST-06

FIRST FLOOR ROOF SLAB AND BEAM DETAILED DRAWING

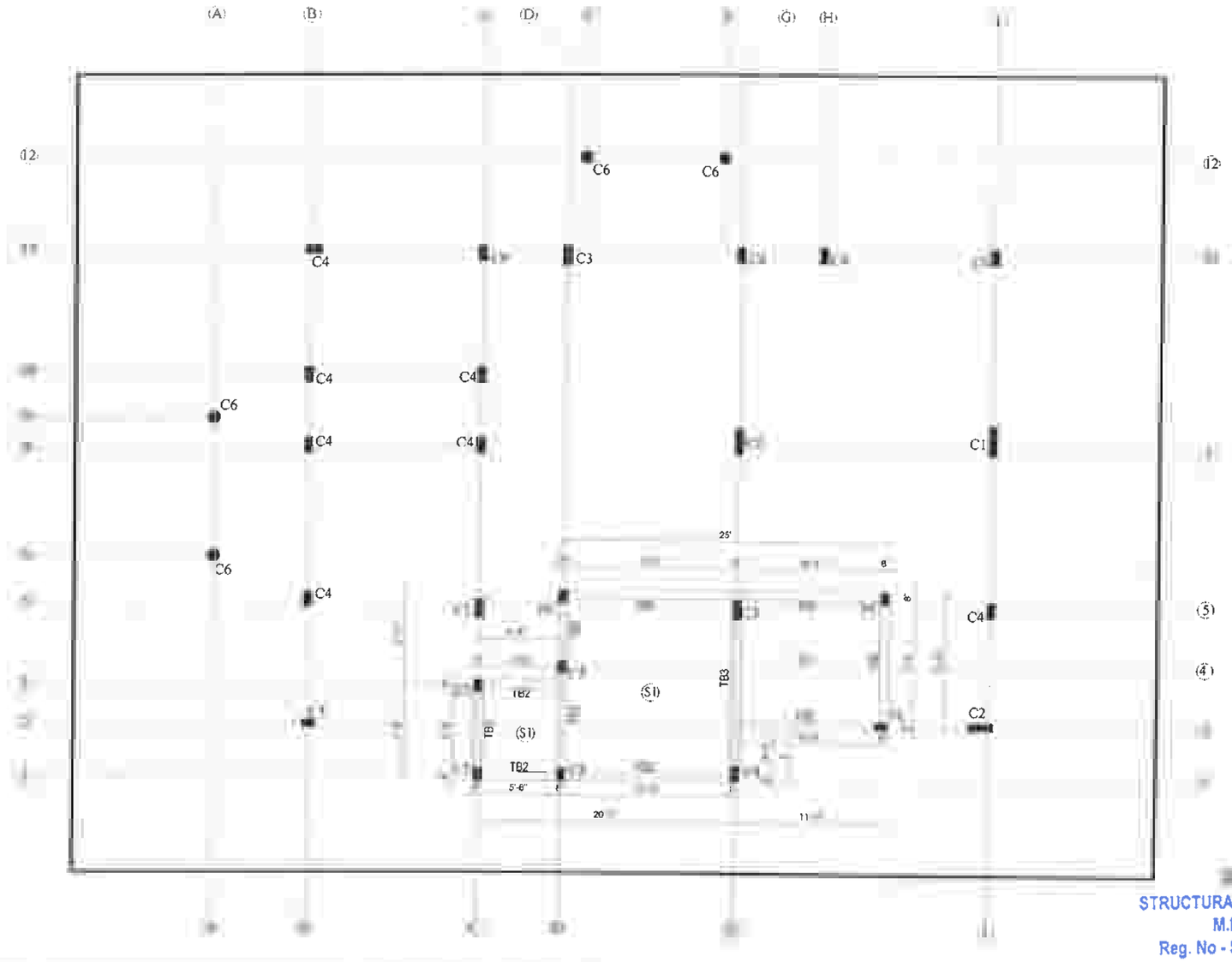


Tie Beam Detail (TB3)



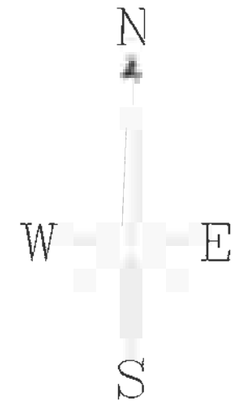
Tie Beam Detail (TB2)

SLAB ID	SLAB THICKNESS	REINFORCEMENT		TYPE OF SLAB
		Short Span	Long Span	
S1	5"	10@6"c/c	8@6"c/c	One way / Two way slab
S3 Sunken	5"	Top 8@6"c/c	Bottom 8@6"c/c	Sunken slab



STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

TERRACE FLOOR ROOF SLAB AND BEAM DETAILED DRAWING



ALL DIMENSIONS ARE IN FEET & INCHES.
ALL DIMENSIONS TO BE CHKD. AT SITE.
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NOTE:
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Mobile: +91-7200860084
Email: projects@deejos.com

CLIENT:

Villa-3, Adityaram Palace City
@ECR, Chennai

G F C		
DRAWN BY:	Er. JK Bharani Rajan	
CHECKED BY:		
APPROVED BY:	E N C	
DATE ISSUED:	11.12.2025	SHEET SIZE A3

DRAWING TITLE :
STRUCTURAL DRAWING 07

DRAWING NUMBER: ST-07

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TECHNICAL NOTES

ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHER WISE SPECIFIED

ONLY WRITTEN DIMENSION TO BE FOLLOWED.

ANY DISCREPANCIES NOTICED IN THE DRG SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.

EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND

ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS = 1½"
B. PILE = 2"
C. PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F. ROOF BEAM = 1"
G. ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

1 LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

TS FOR REINFORCEMENT

) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

UG SUMP
SIZE :1.65X2.52X1.5m
CAPACITY:6KL
Inclusive of 1' free board

BOUNDARY LINE

C1(300 DIA) 7,A
C2(200x450) 2,C
C2(200x450) 2,K
C2(200x450) 3,D
C2(200x450) 3,L
C2(200x450) 9,B
C2(200x450) 9,C
C3(200x600) 9,E
C4(200x300) 6,J
C4(200x300) 8,M
C4(200x300) 9,L
C4(200x300) 9,M

LEGENDS:
- C - COLUMN

COLUMN MARKING LAYOUT

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 4)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

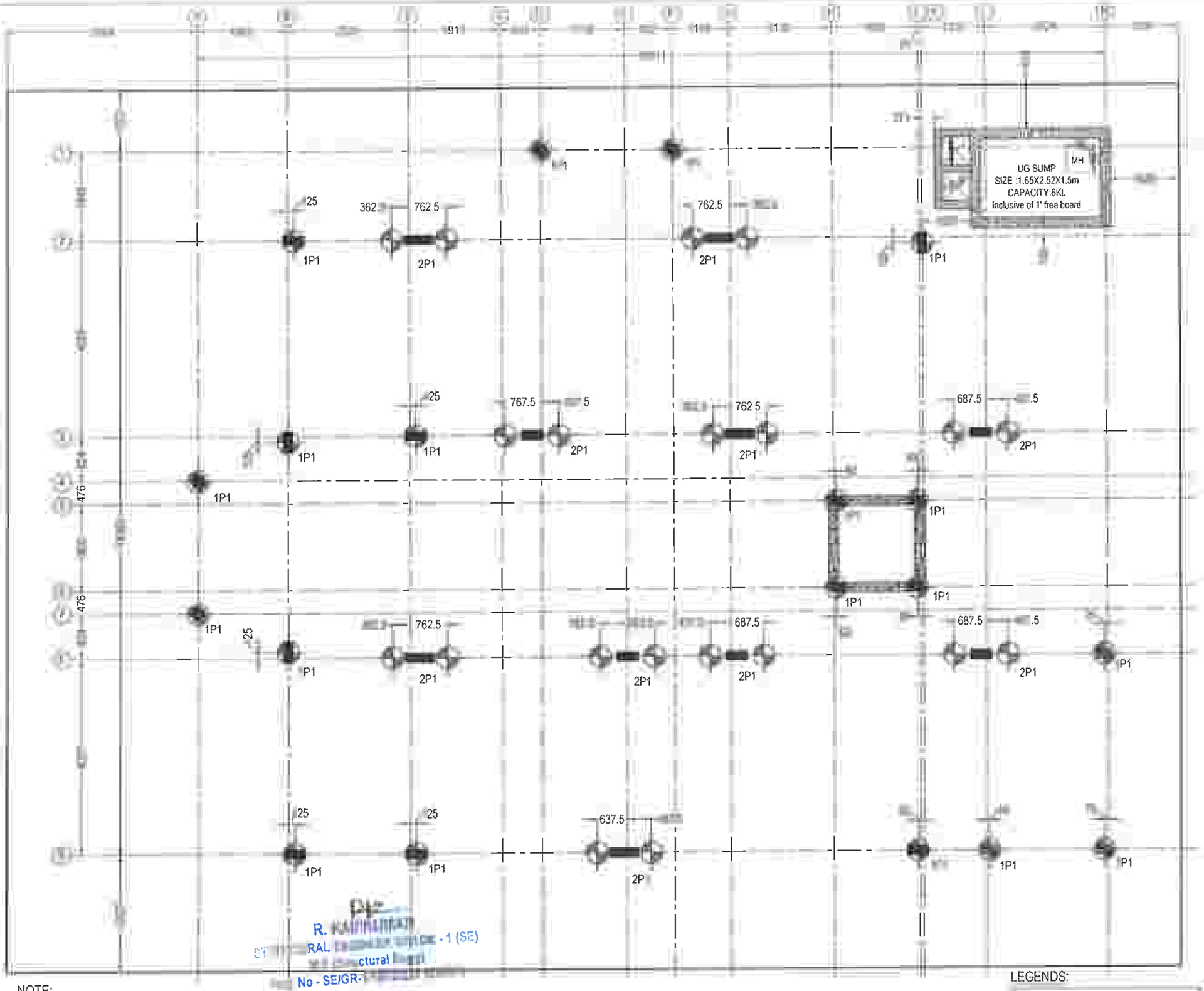
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-02	01

Engg)
2/231 (CMDA)



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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

'Fe' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

- A. COLUMNS = 1½"
- B. PILE = 2"
- C. PILE CAP = 2"
- D. TIE BEAM = 1"
- E. PLINTH BEAM = 1"
- F. ROOF BEAM = 1"
- G. ROOF SLAB = ¾"

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1 LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

2 THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR [illegible] BARS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 4)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1486, 200 FEET ROAD, SACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-02	02

R. KARTHIKEYAN
[illegible] - 1 (SE)
[illegible]ctural Engg
No - SE/GR-[illegible]

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UG SUMP
SIZE :1.65X2.52X1.5m
CAPACITY:6KL
Inclusive of 1' free board

MH

BB1 - 100 X 300
C/S DETAILS

T16(C)
50C/C
C.C
T12(C)

PILE CAP & TIE [illegible] MARKING LAYOUT

PC - PILE CAP
BB1 - BRACKET BEAM
TB - TIE BEAM

CLIENT

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

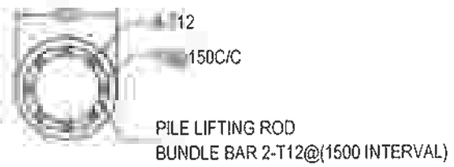
PILE CAP & TIE BEAM(TB) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-02	03

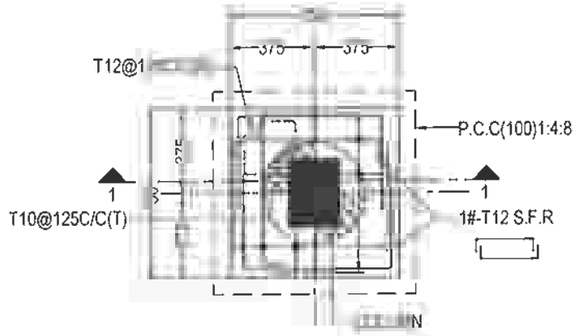
COLUMN REINFORCEMENT SCHEDULE:

TERRACE FLOOR ROOF LEVEL TO FOOTING				
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
⊙ - T16 ⊕ - T12				
	3-T16 + 3-T12	8-T16	10-T16	4-T16 + 2-T12
COLUMN MARKED	C1	C2	C3	C4

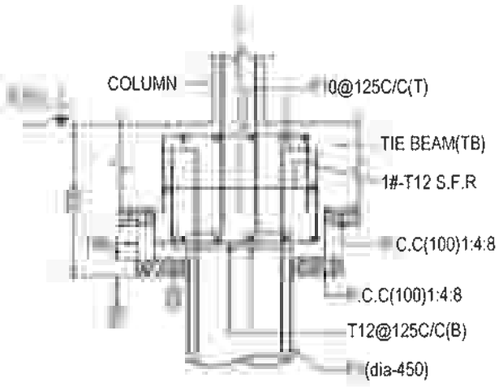
NAME OF COLUMN	NUMBERS OF COLUMN
C1	04
C2	13
C3	05
C4	07
TOTAL:	29



PILE (P1) - PLAN



PC1 - PLAN



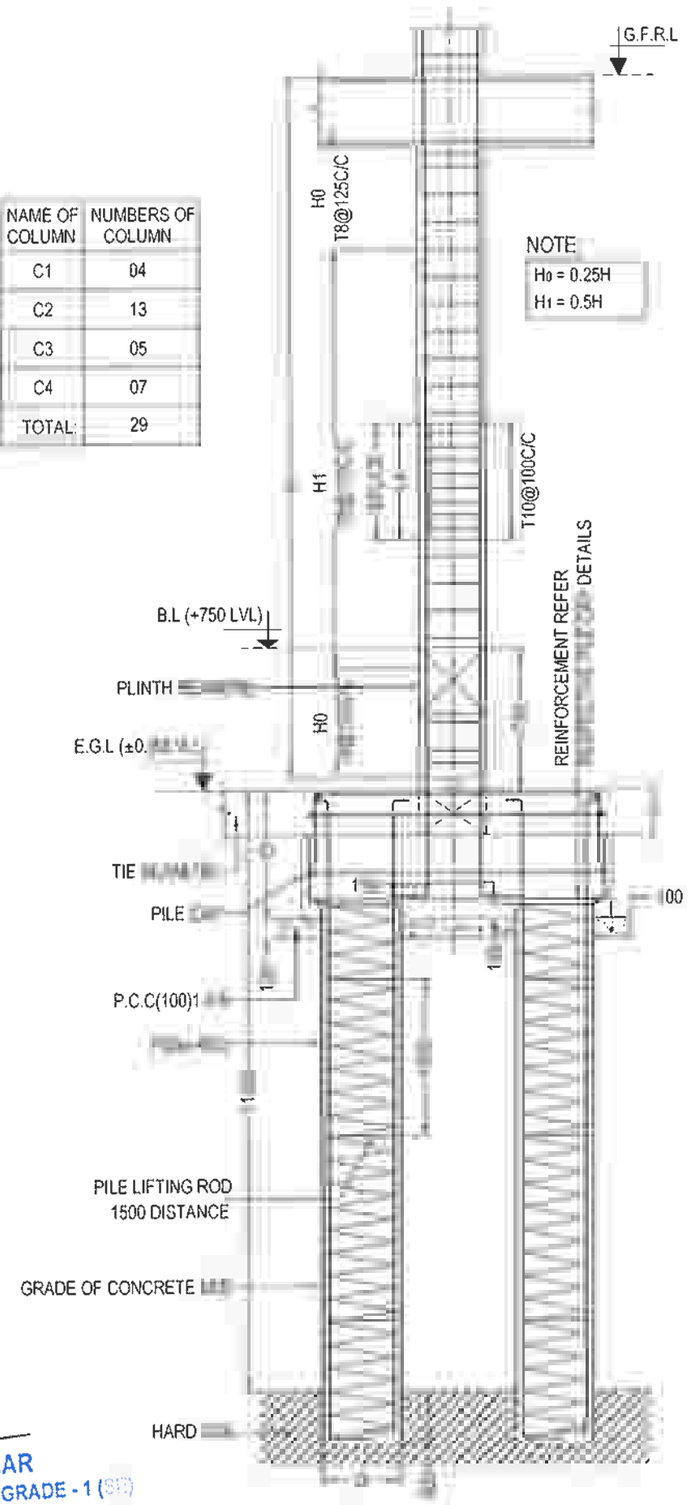
SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL COLUMN & PILE CONFINING DETAILS

NOTE
H_0 = 0.25H
H_1 = 0.5H

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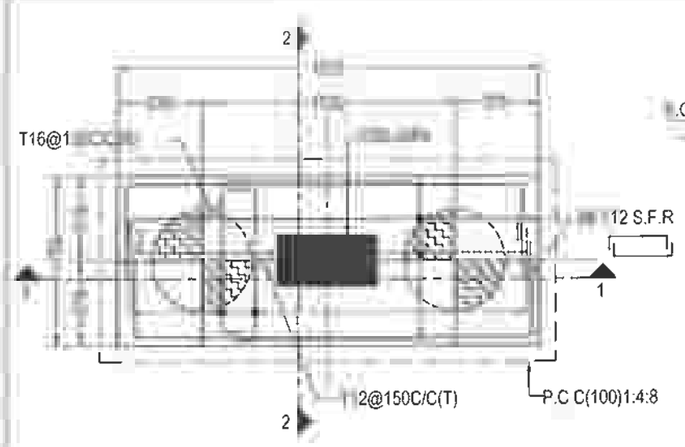
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

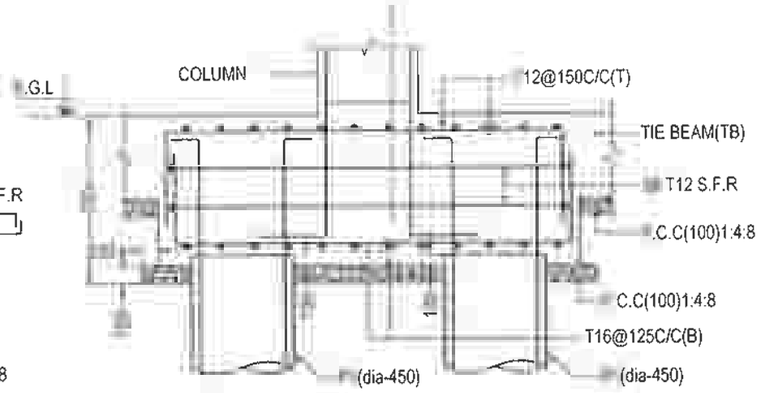
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

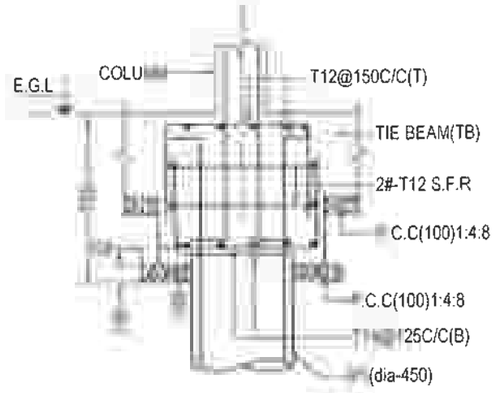
REV	DATE	PROJECT NO	SHEET NO
R1	5/11	ST-2025-09-02	04



PC2 - PLAN



SECTION - 1 - 1

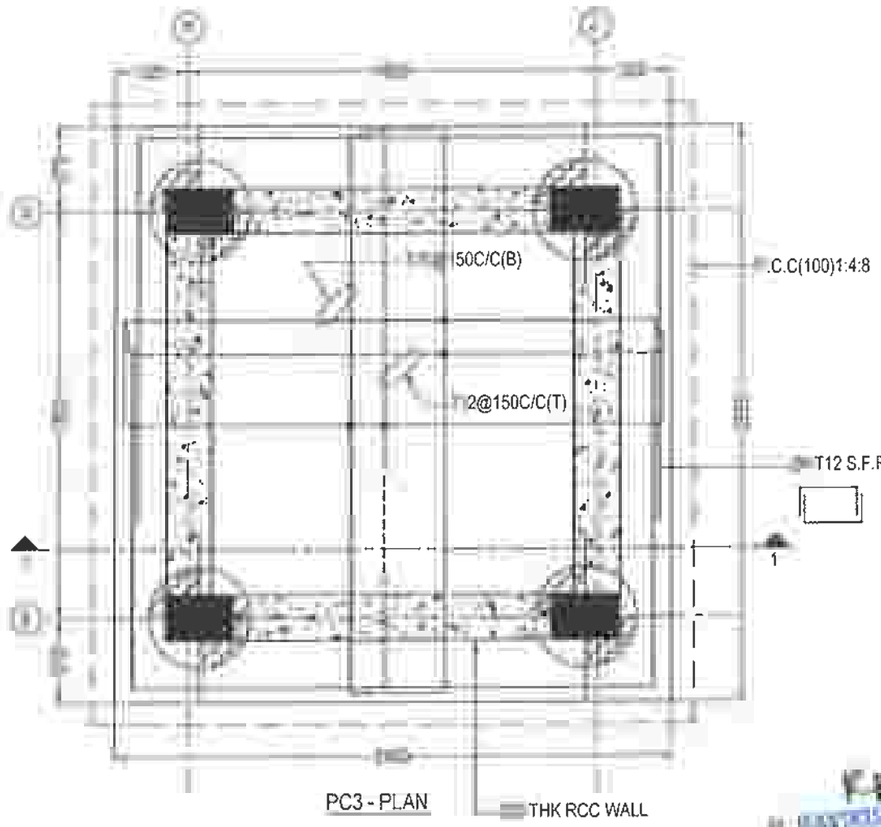


SECTION - 2 - 2

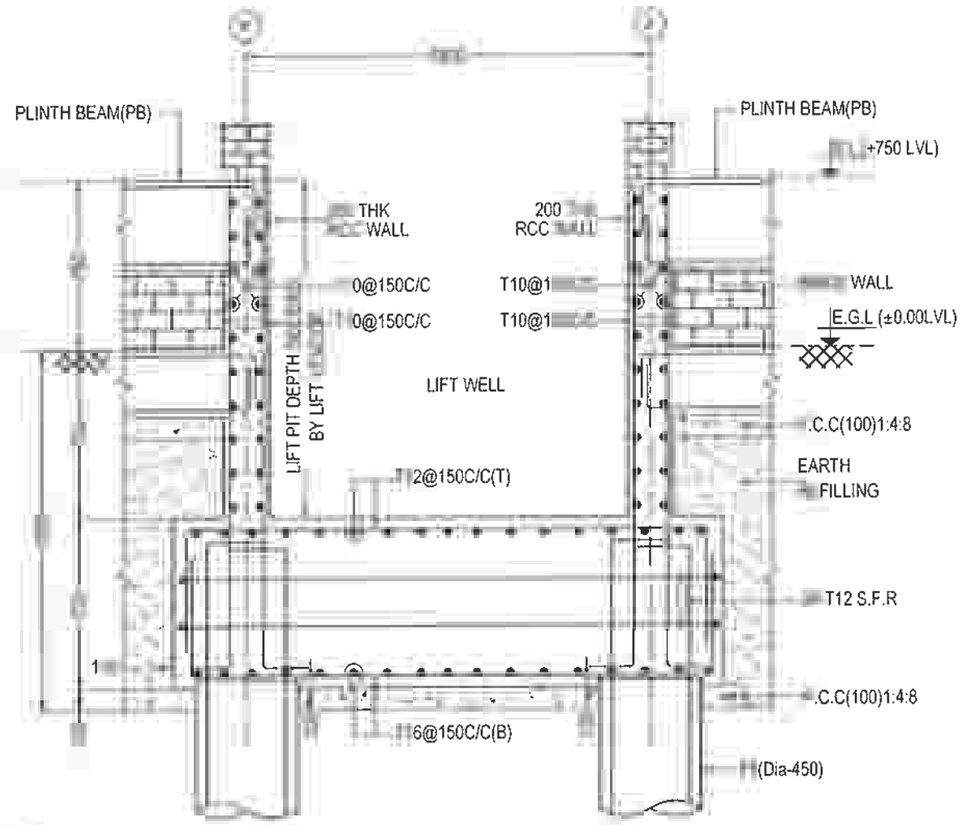
** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS

B.L - BASEMENT LEVEL
E.G.L - EXISTING GROUND LEVEL



PC3 - PLAN



SECTION - 1 - 1

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
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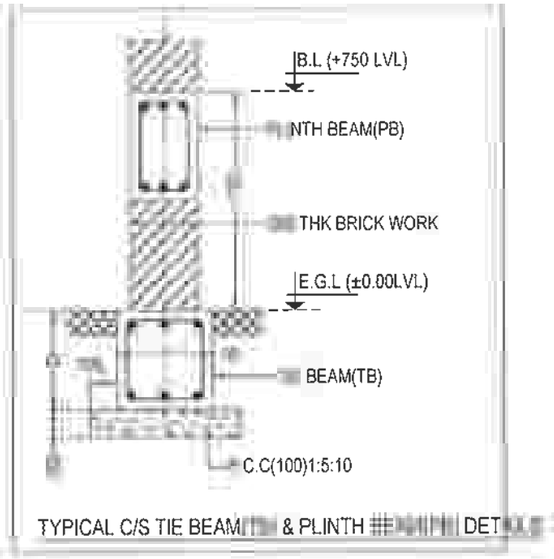
DRAWING NAME

PILE CAP SECTION DETAILS

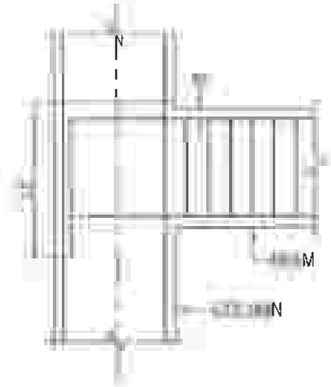
REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-02	05

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	3-T16(C), 150C/C, C.C, 6-T16(C)	T16(C), 50C/C, .C.C, T16(C)	T16(C), 150C/C, C.C, 16(C)
(200 X 300) TB2	2(C), 50C/C, .C.C, 2-T12(C)	T12(C), 50C/C, .C.C, T12(C)	T12(C), 50C/C, .C.C, 2(C)



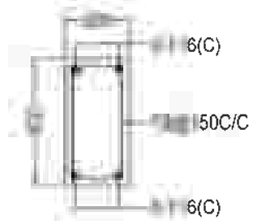
TYPICAL C/S TIE BEAM & PLINTH DETAILS



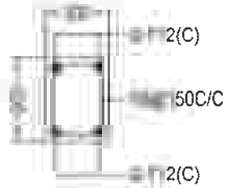
TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

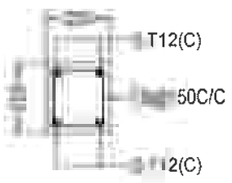
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



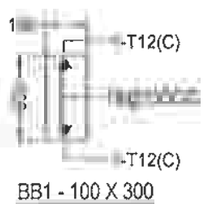
PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS

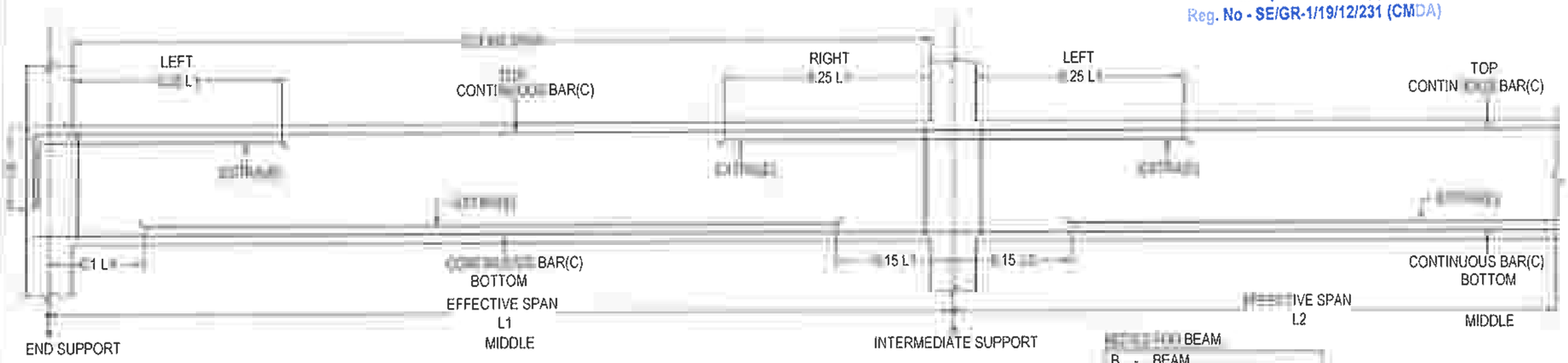


PB3 - 200 X 250
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

BEAM
B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

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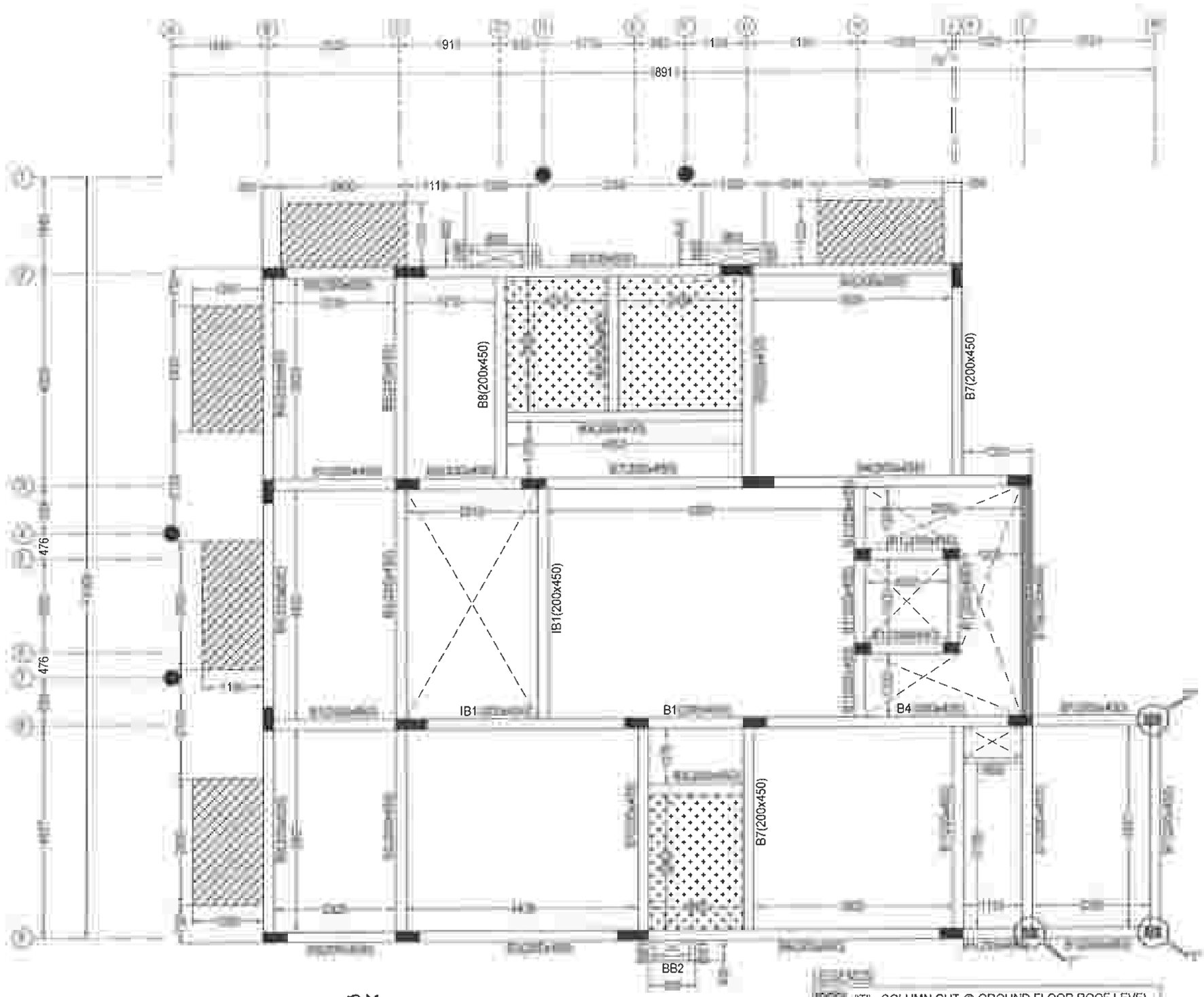
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CT.: +
chenalc com
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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	1	ST-2025-09-02	06



R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

GROUND FLOOR ROOF BEAM LAYOUT

- "T" - COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- OPENING
- TOILET SUNKEN , BB - BRACKET BEAM
- STB - STRINGER BEAM
- 100mm SLAB SUNKEN

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THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP FOR REINFORCEMENT BARS

AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 4)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, CHENNAI - 600 11
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsulta

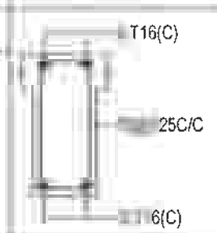
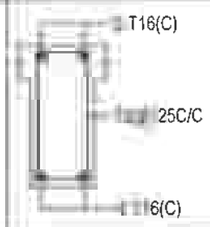
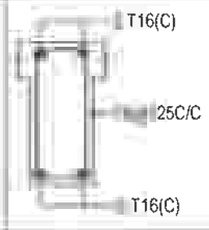
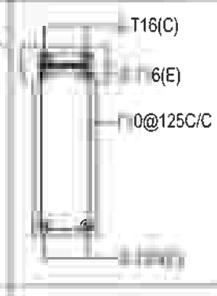
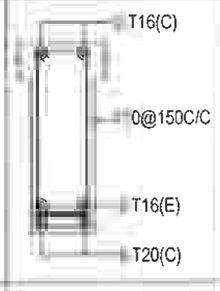
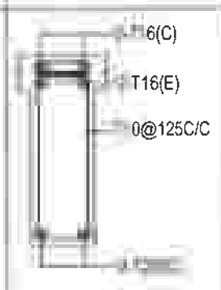
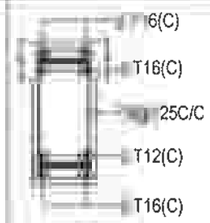
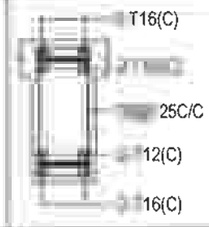
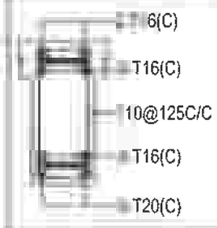
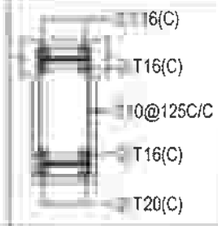
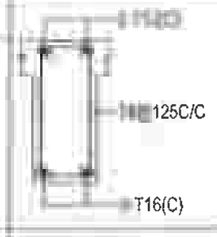
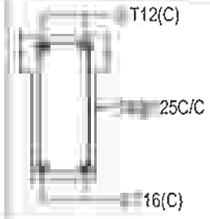
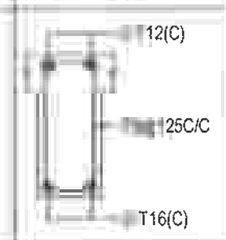
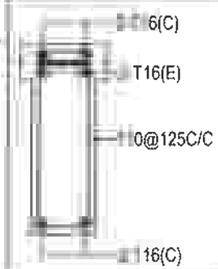
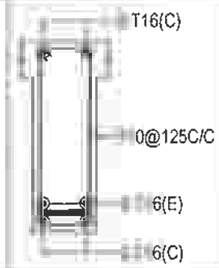
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

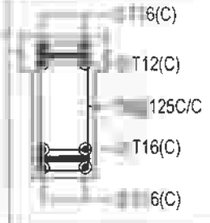
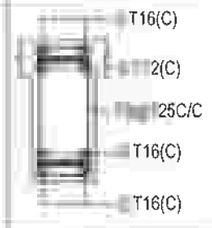
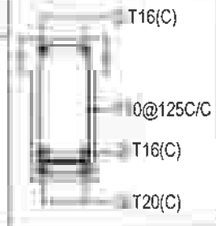
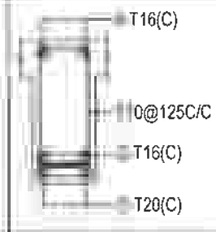
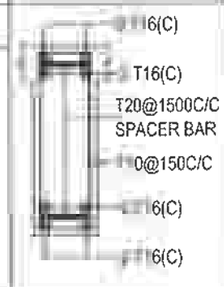
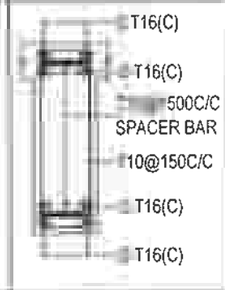
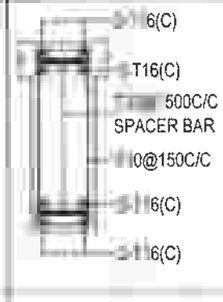
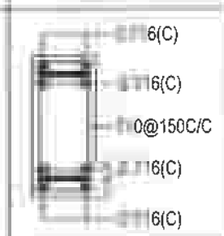
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	ST-2025-09-02		07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

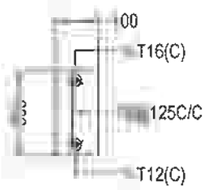
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 600) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

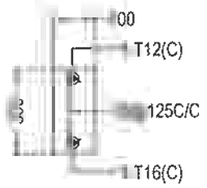
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 450) B8				
(200 X 600) B9				
(200 X 450) IB1				

LEGENDS:

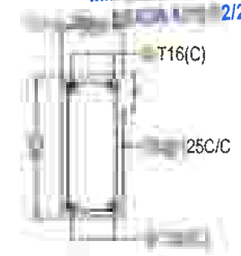
- C - CONTINUOUS BAR
- E - EXTRA BAR
- S.F.R - SIDE FACE REINFORCEMENT
- E.F - EACH FACE



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



STB - 200 X 450
C/S DETAILS

P.V. [illegible]
STRUCTURAL ENGINEER GRADE - 1
M.E [illegible] Engg)
[illegible] 2/231 (CMDA)

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

- A COLUMNS = 1½"
- B PILE = 2"
- C PILE CAP = 2"
- D. TIE BEAM = 1"
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SAFE STRUCTURAL CONSULTANCY

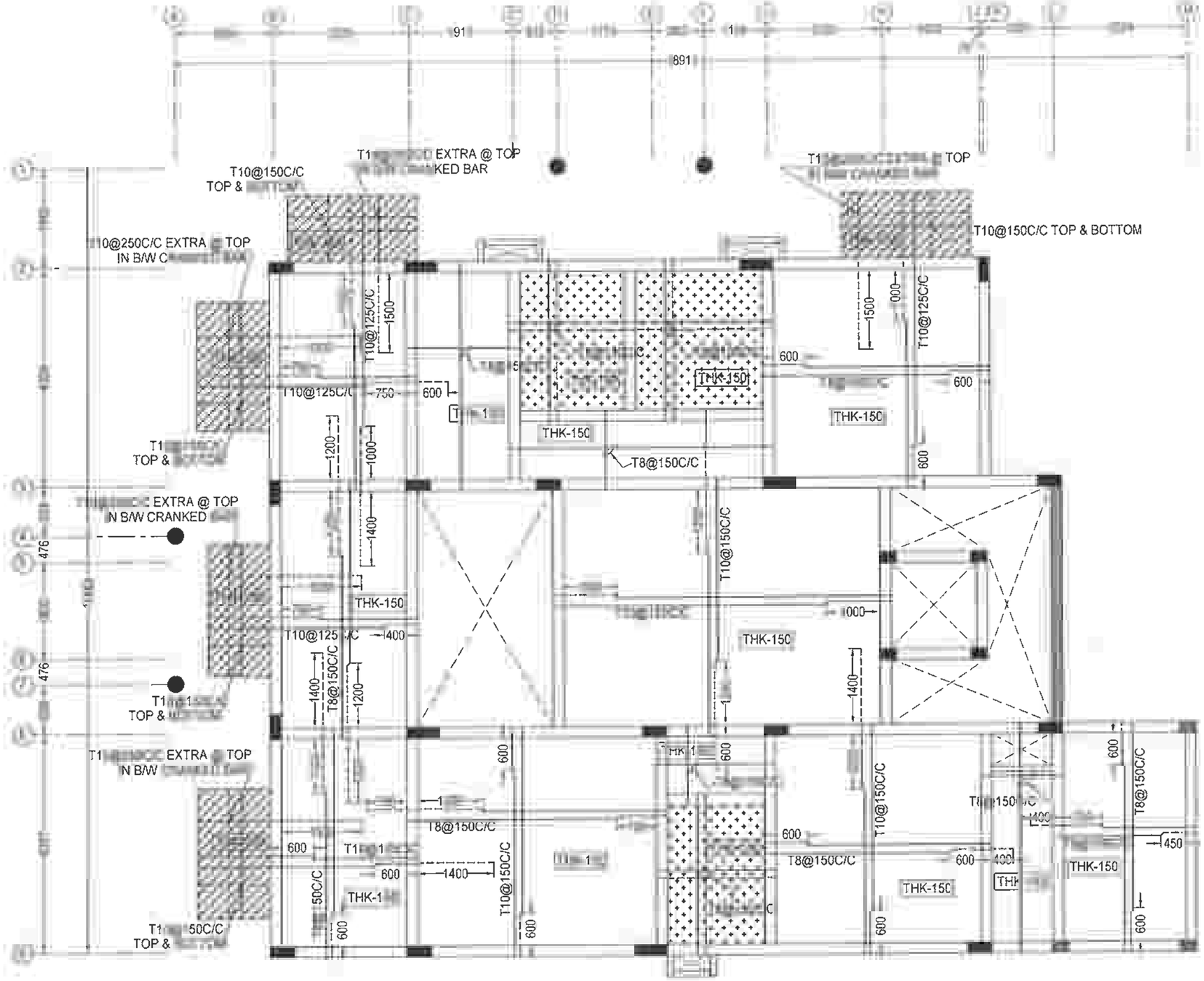
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	1/2[illegible]	ST-2025-09-02	08



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

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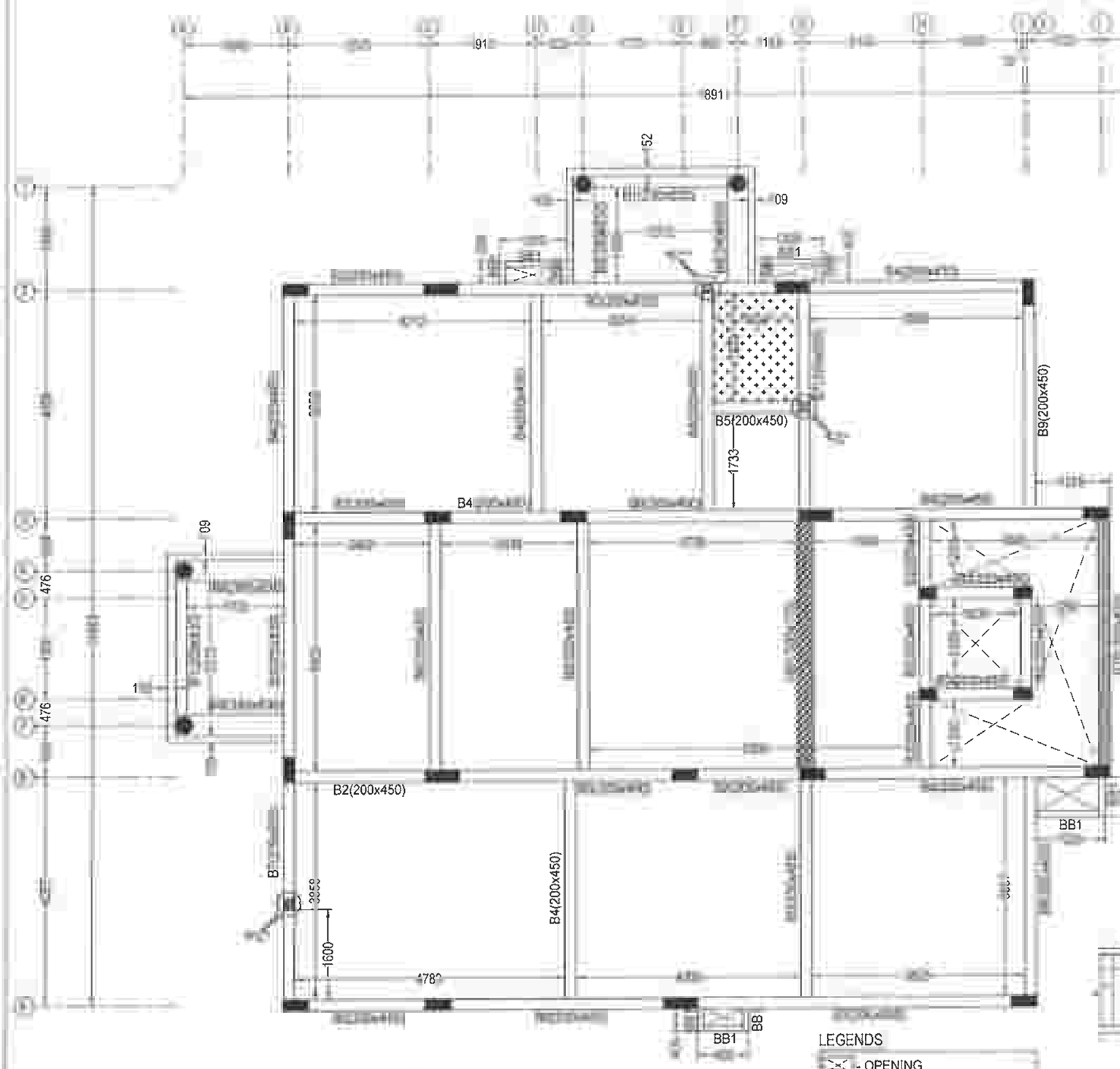
SAFE STRUCTURAL CONSULTANCY
NEW NO D NO 2/1465, 200 FEET ROAD,
EACHAN NNA NAGAR, KOVILAMBAKKAM,
CHENNAI 7.
Safe
Structural Consultancy
safeconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
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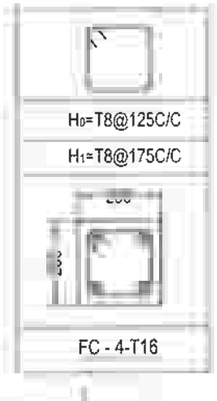


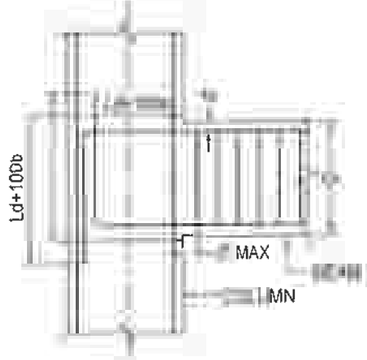
TERRACE BEAM LAYOUT

LEGENDS

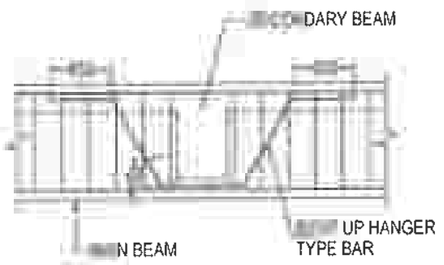
- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- TOILET SUNKEN
- FC - FLOATING COLUMN

BB - BRACKET BEAM





TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-02	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 830) B1	T16(C), T16(C), 1500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, 6(C)	T16(C), 16(C), T20@1500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 10@150C/C, T16(C), T20(C)	6(C), T16(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, 6(C)	
(200 X 450) B2	T16(C), 25C/C, T16(C)	16(C), 25C/C, 6(C)	T16(C), 125C/C, T16(C)	
(200 X 830) B3	T16(C), T20(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@125C/C, T20(C), T16(C)	T16(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 10@125C/C, T20(C), T16(C)	16(C), T20(C), 1500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@125C/C, 16(C)	
(200 X 450) B4	T16(C), 125C/C, T16(C), T16(C)	16(C), 25C/C, T16(C), T16(C)	T16(C), 125C/C, T16(C), T16(C)	
(200 X 450) B5	T12(C), 50C/C, 16(C)	T12(C), 50C/C, T16(C)	150C/C, T16(C)	

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6	16(C), 6(C), 0@125C/C, T16(C)	16(C), 6(C), 0@125C/C, T16(C)	T16(C), 16(C), 0@125C/C, T20(C), T16(C)	
(200 X 600) B7	T16(C), T16(C), 0@125C/C, 16(C), 6(C)	6(C), T16(C), 0@125C/C, 16(C), T16(C)	16(C), 0@125C/C, T16(C), T16(C)	
(380 X 830) B8	16(C), 6(C), T20@1500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 10@150C/C, T16(C), T16(C)	6(C), T16(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, 16(C), 16(C)	16(C), 6(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, T16(C), T16(C)	
(200 X 450) B9	T16(C), 2(C), 25C/C, T16(C), T16(C)	T16(C), T12(C), 125C/C, T16(C), T16(C)	16(C), T12(C), 125C/C, 6(C), 6(C)	

175 THK SLAB — 2(C), 150C/C, 6(C)

HB1 - 300 X 175
C/S DETAILS

00, T16(C), 50C/C, T12(C)

BB1 - 100 X 300
C/S DETAILS

00, T12(C), 150C/C, 6(C)

BB2 - 100 X 300
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No SE/GR-1/19/12/231 (CMDA)

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

A. COLUMNS = 1½"
B. PILE = 2"
C. PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F. ROOF BEAM = 1"
G. ROOF SLAB = ¾"

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LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR NT BARS

0 AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 4)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1	1	ST-2025-09-02	11

DRG. IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS DRG ARE FOR THIS PROJECT ONLY

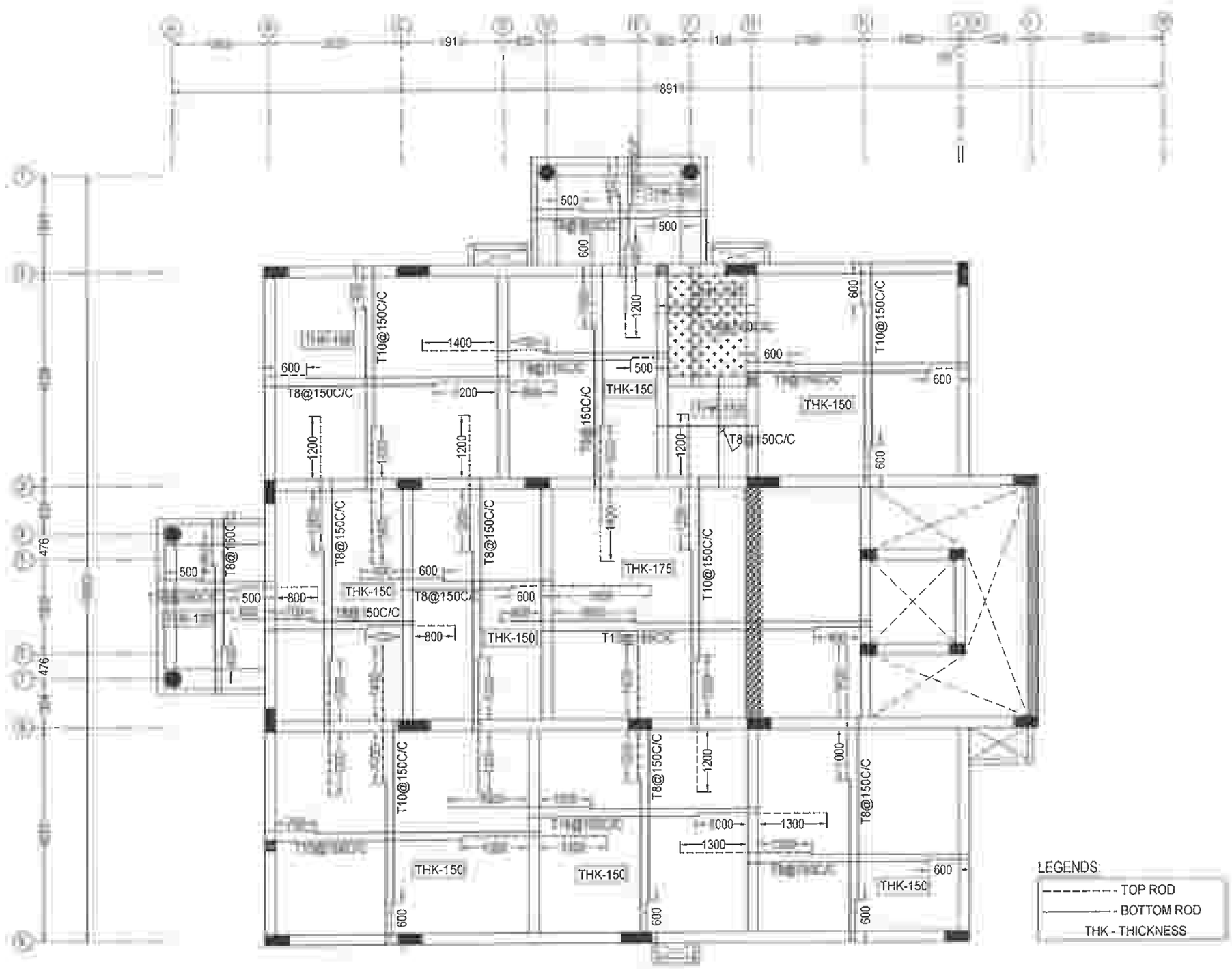
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LAP JOINTS [illegible] NFORCEMENT BARS

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LEGENDS:

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

TERRACE SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/[illegible]

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 4)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

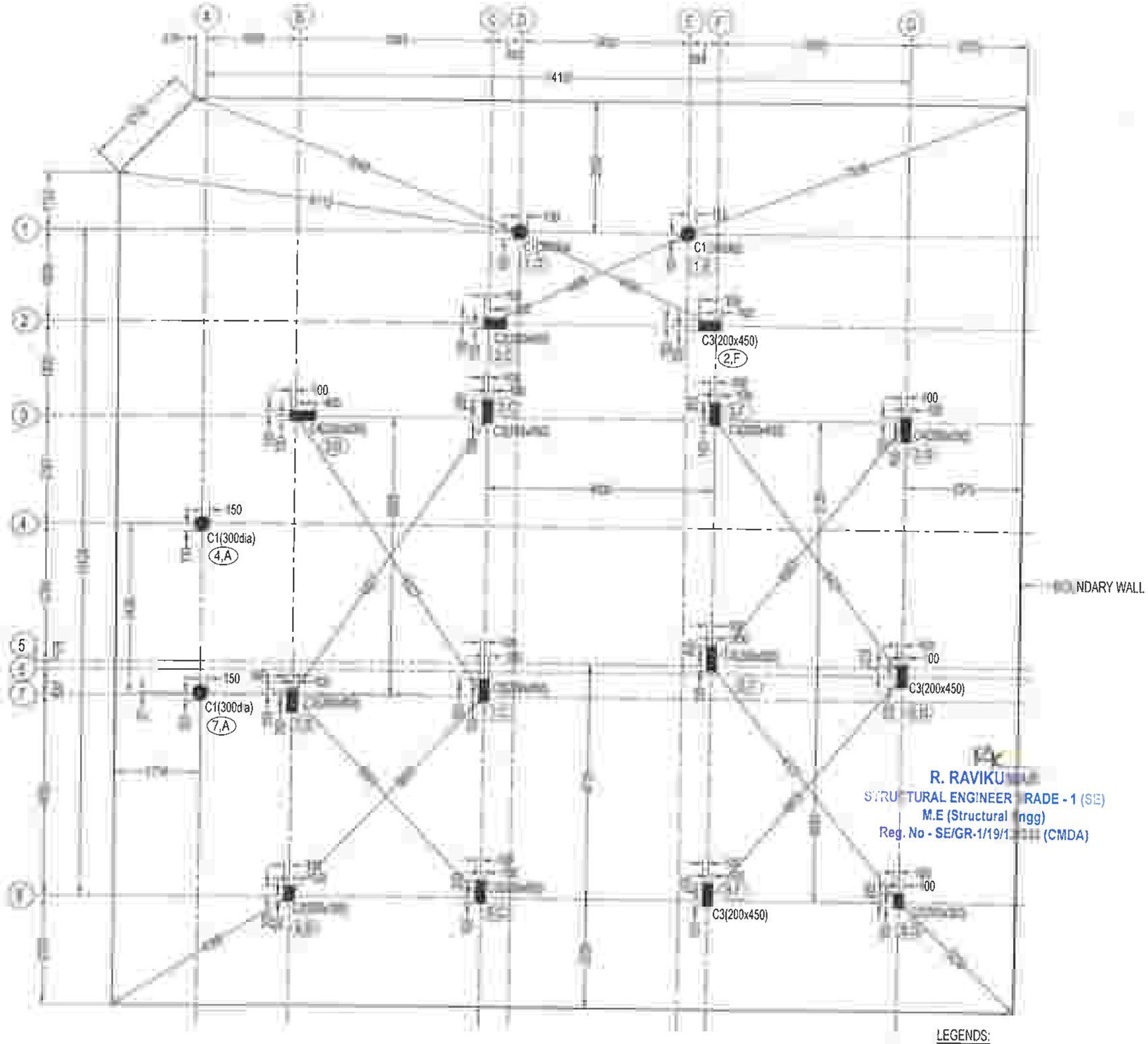
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-02	12



COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

R. RAVIKU
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/1 (CMDA)

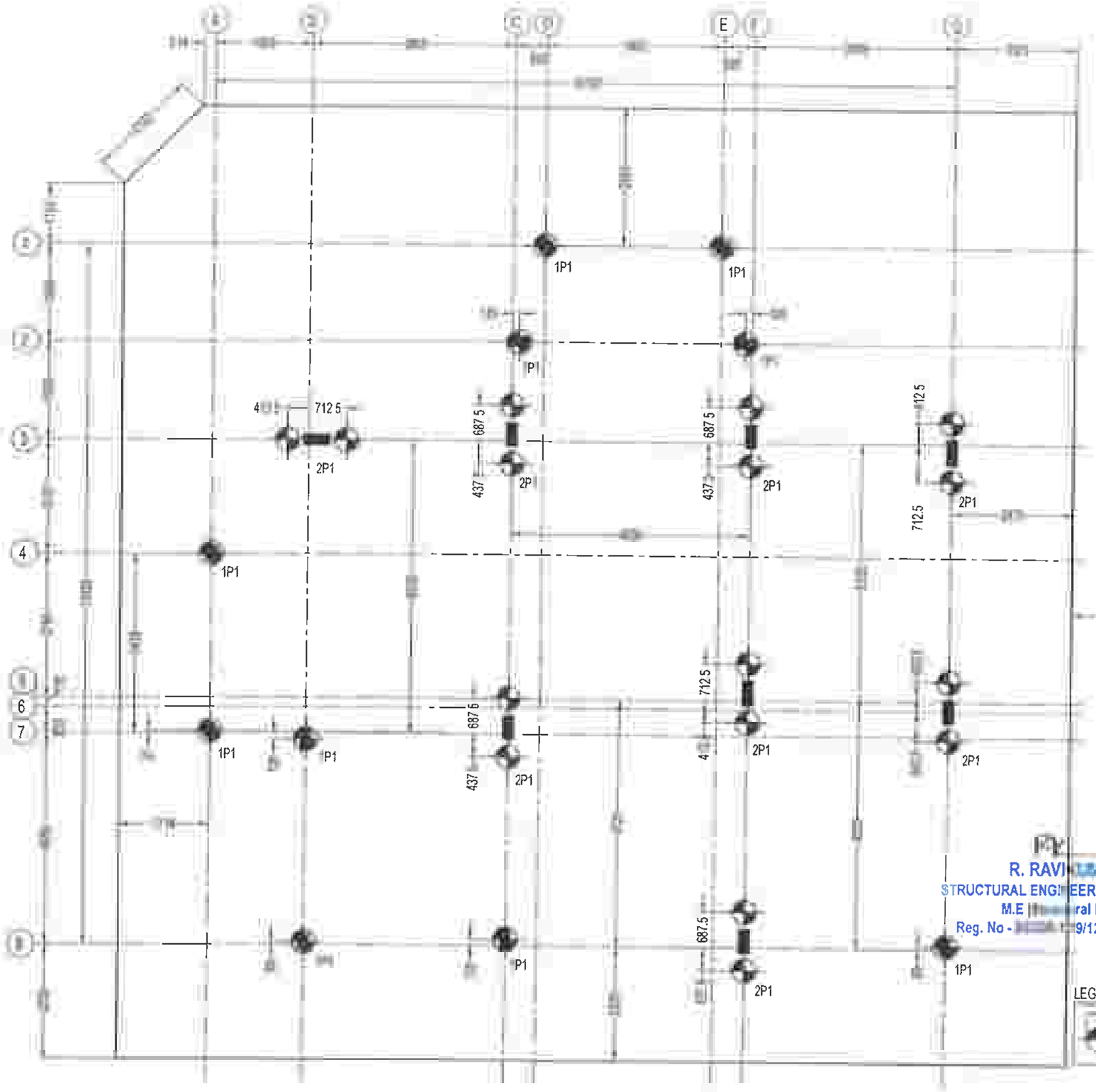
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Safe
Structural Consultancy
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CHENNA 7.
7
com
ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	ROJECT NO	HEET.N
R0		ST-2025-06-02	01



PILE(P) MARKING LAYOUT

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CLIENT

PROJECT

ADITYARAM PALACE CITY, (VILLA 15)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1465, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, 600 [illegible]17.
+91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

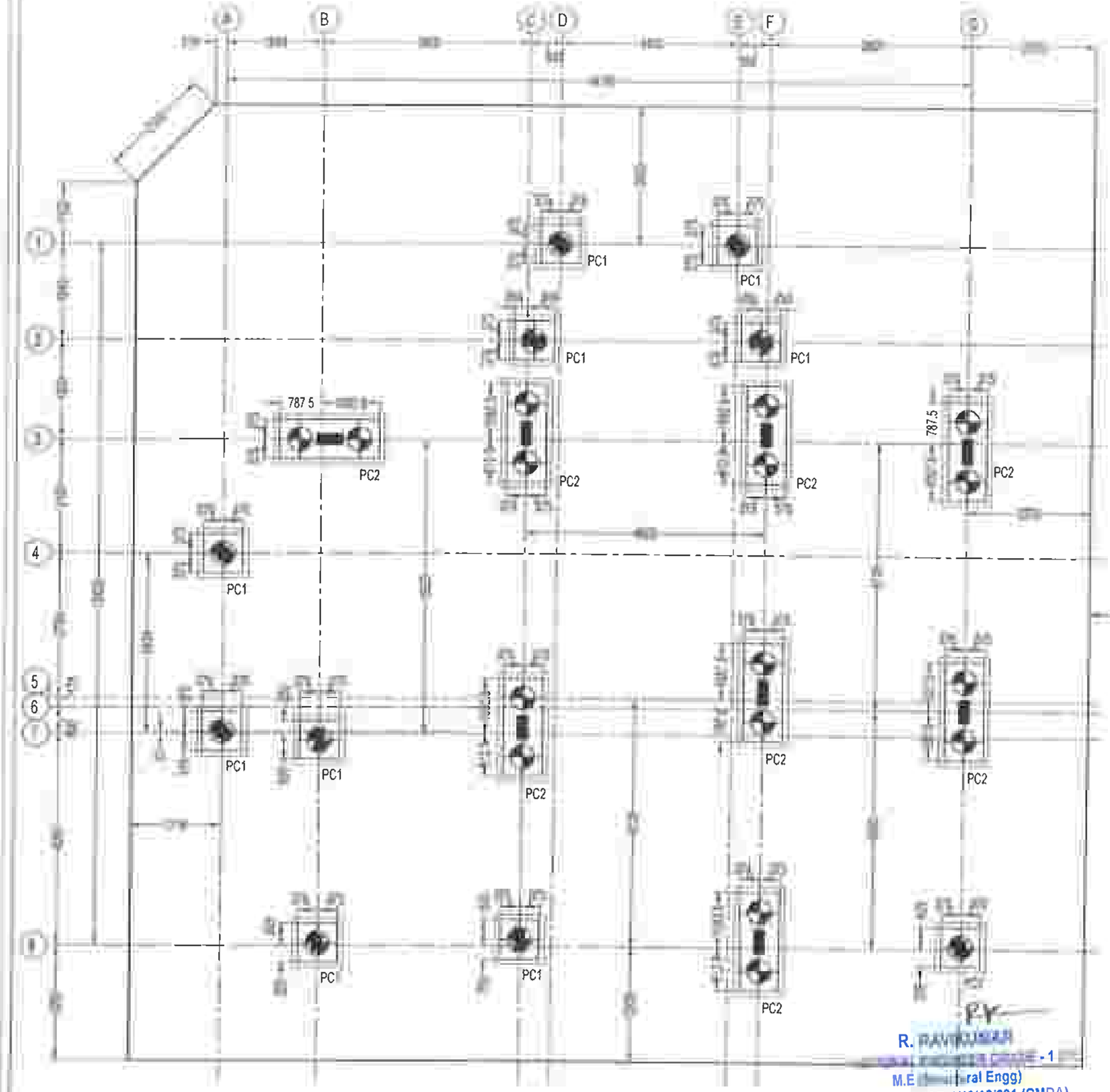
R. RAVI [illegible]
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E [illegible]ral Engg)
Reg. No - [illegible]9/12/231 (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2025-06-02		02



PILE CAP(PC) MARKING LAYOUT

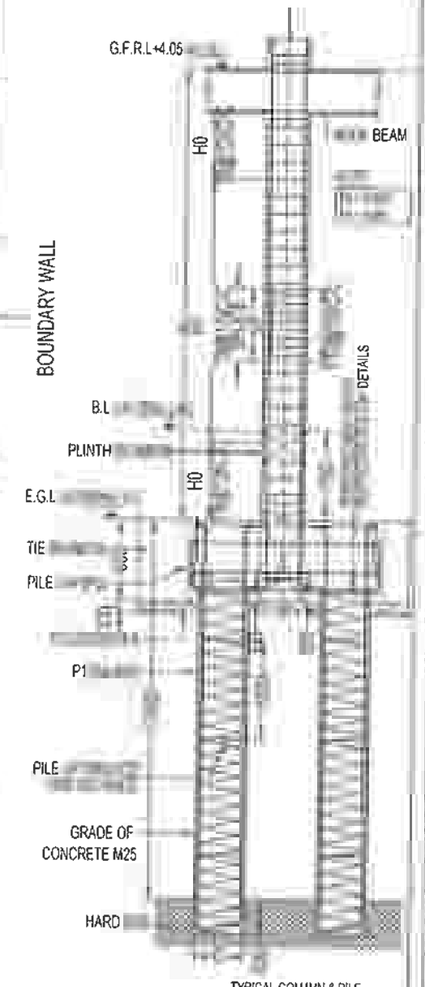
LEGENDS:

PC - PILE CAP

B.L - BASEMENT LEVEL

G.F.R.L - GROUND FLOOR ROOF LEVEL

E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

LEGENDS

PC - PILE CAP

R. RAVIKUMAR
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

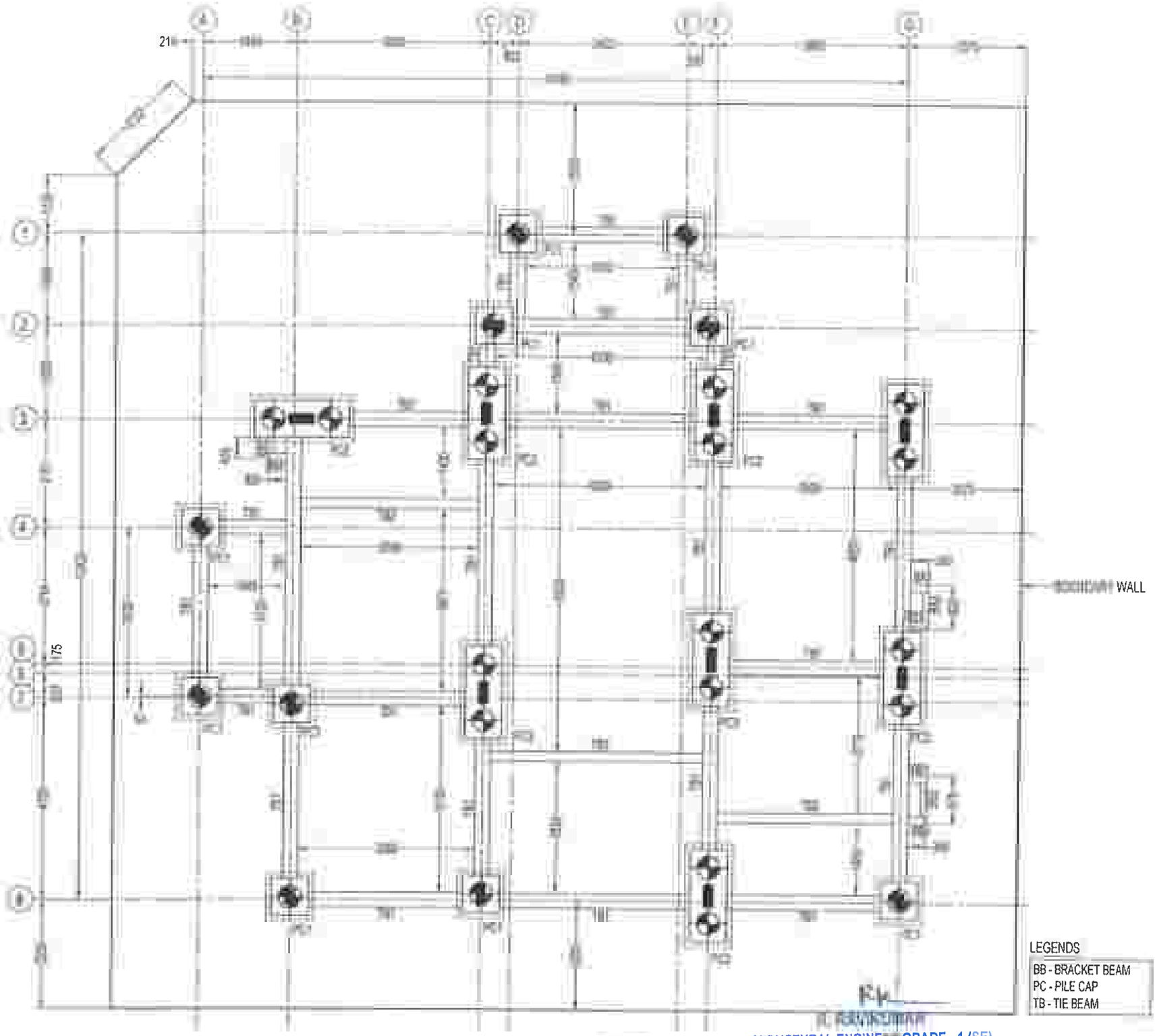
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CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	ST-2025-06-02		03



PILE CAP(PC) & TIE [illegible] LAYOUT

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PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] D NO 2/1466, 200 FEET ROAD,
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CHENNA[illegible]7.
[illegible]7
[illegible].com
Safe Structural Consultancy [illegible]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

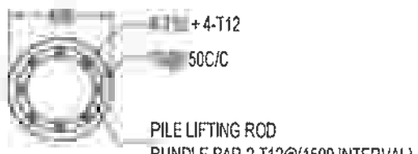
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV.	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2025-06-02	04

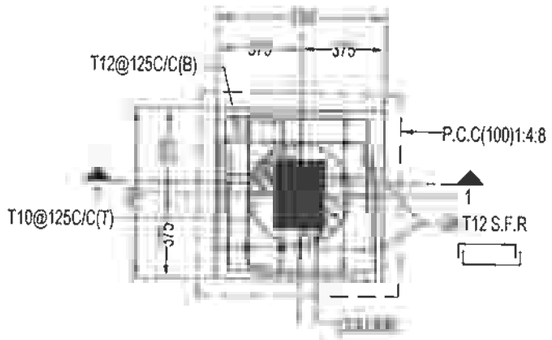
STRUCTURAL ENGINE[illegible] GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

COLUMN REINFORCEMENT SCHEDULE

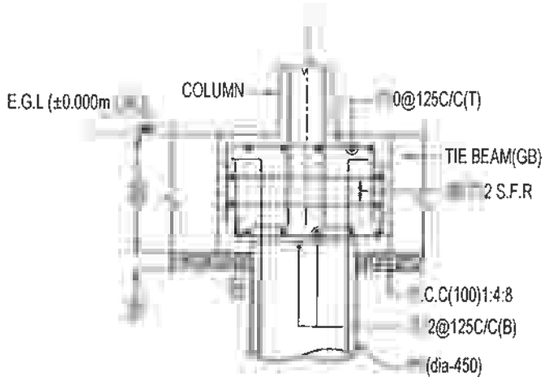
TERRACE LEVEL				
TO	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M25 ⊙-T16 ⊕-T12				
	3-T16+3-T12	4-T16 + 2-T12	4-T16 + 4-T12	8-T16+2-T12
COLUMN MARKED	C1	C2	C3	C4



PILE (P1) - PLAN



PC1 - PLAN

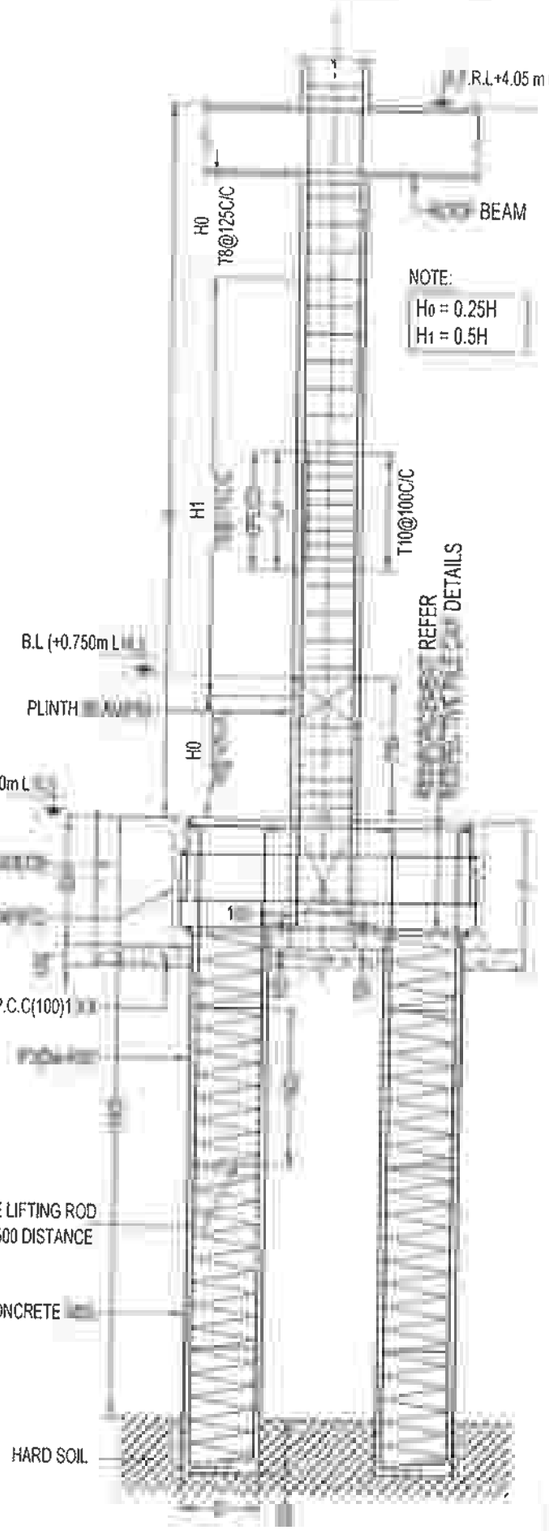


SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

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CLIENT

PROJECT

ADITYARAM PALACE CITY, (VILLA 15)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

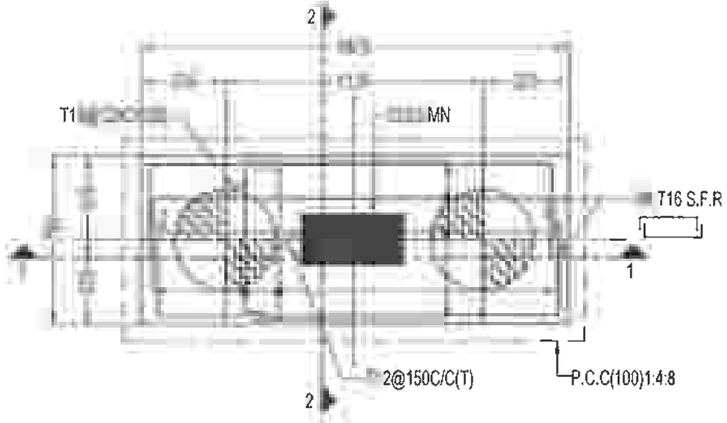
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1456, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI 600 117
CONTACT. +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

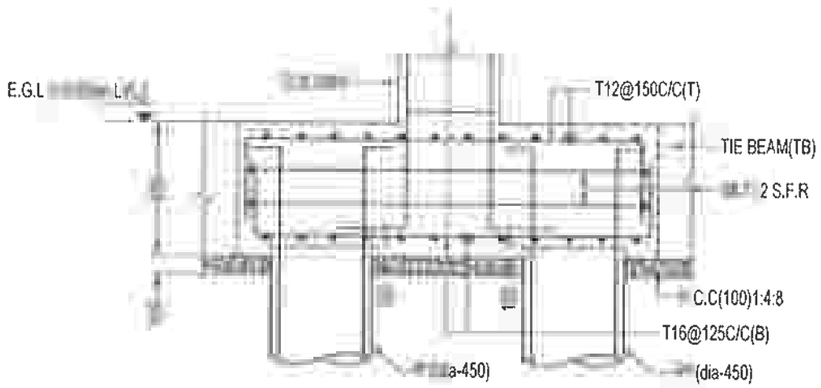
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

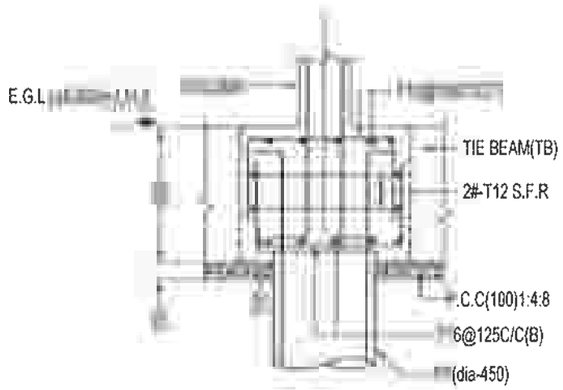
REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	05



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   ALL RCC MEMBERS IN M25 GRADE
7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 40
   - B. PILE = 40
   - C. PILE CAP = 50
   - D. TIE BEAM = 30
   - E. PLINTH BEAM = 30
   - F. ROOF BEAM = 30
   - G. ROOF SLAB = 20
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.
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11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

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DRAWING NAME

PILE CAP SECTION DETAILS

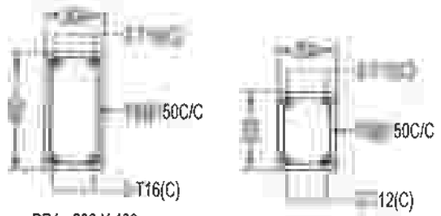
REV.	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	06

R. [illegible]
STRUCTURAL ENGINEER GRADE - 1 (SE)
[illegible] Engg)
Reg. No. [illegible]/231 (CMDA)

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

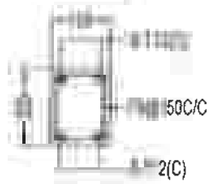
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	T16(C) 150C/C 4 T12(C) S.F.R/E.F C.C 4 T16(C)	T16(C) 150C/C 4 T12(C) S.F.R/E.F C.C 4 T16(C)	T16(C) 150C/C 4 T12(C) S.F.R/E.F C.C 4 T16(C)
(200 X 750) TB2	T16(C) 150C/C 2(C) S.F.R/E.F C.C T16(C)	T16(C) 150C/C T12(C) S.F.R/E.F C.C	T16(C) T12(C) S.F.R/E.F C.C T16(C)
(150 X 300) BB1	T12(C) C.C 2(C)	50C/C C.C T12(C)	2(C) C.C
(100 X 300) BB2	2(C) 150C/C C.C T12(C)	T12(C) 50C/C C.C T12(C)	2(C) 150C/C C.C T12(C)

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

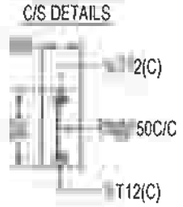


PB1 - 200 X 400
C/S DETAILS

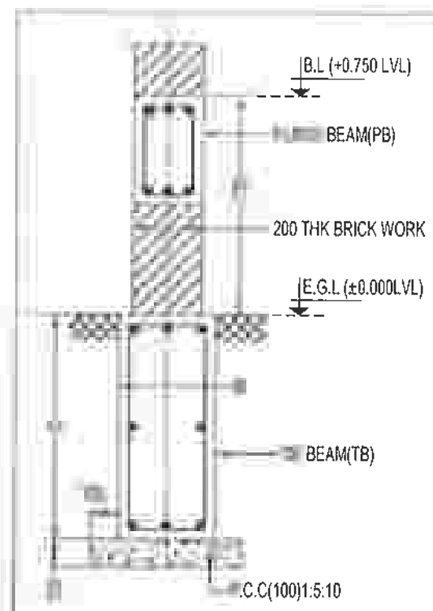
PB2 - 200 X 300
C/S DETAILS



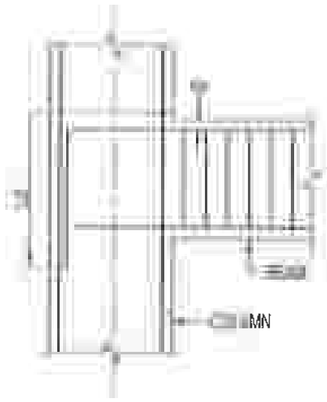
BB1 - 150 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



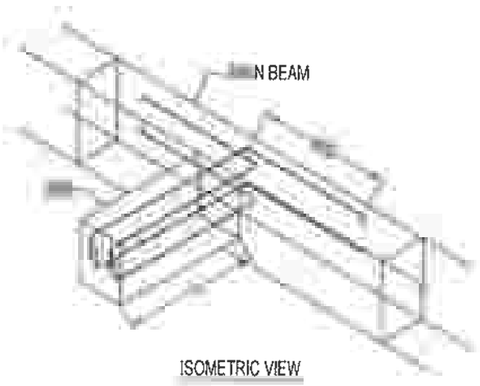
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



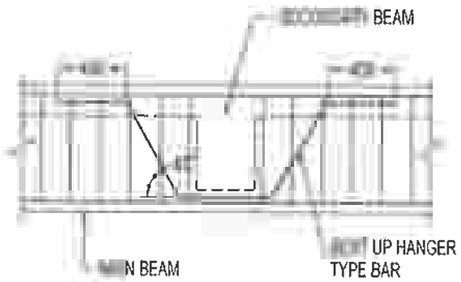
TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



ISOMETRIC VIEW
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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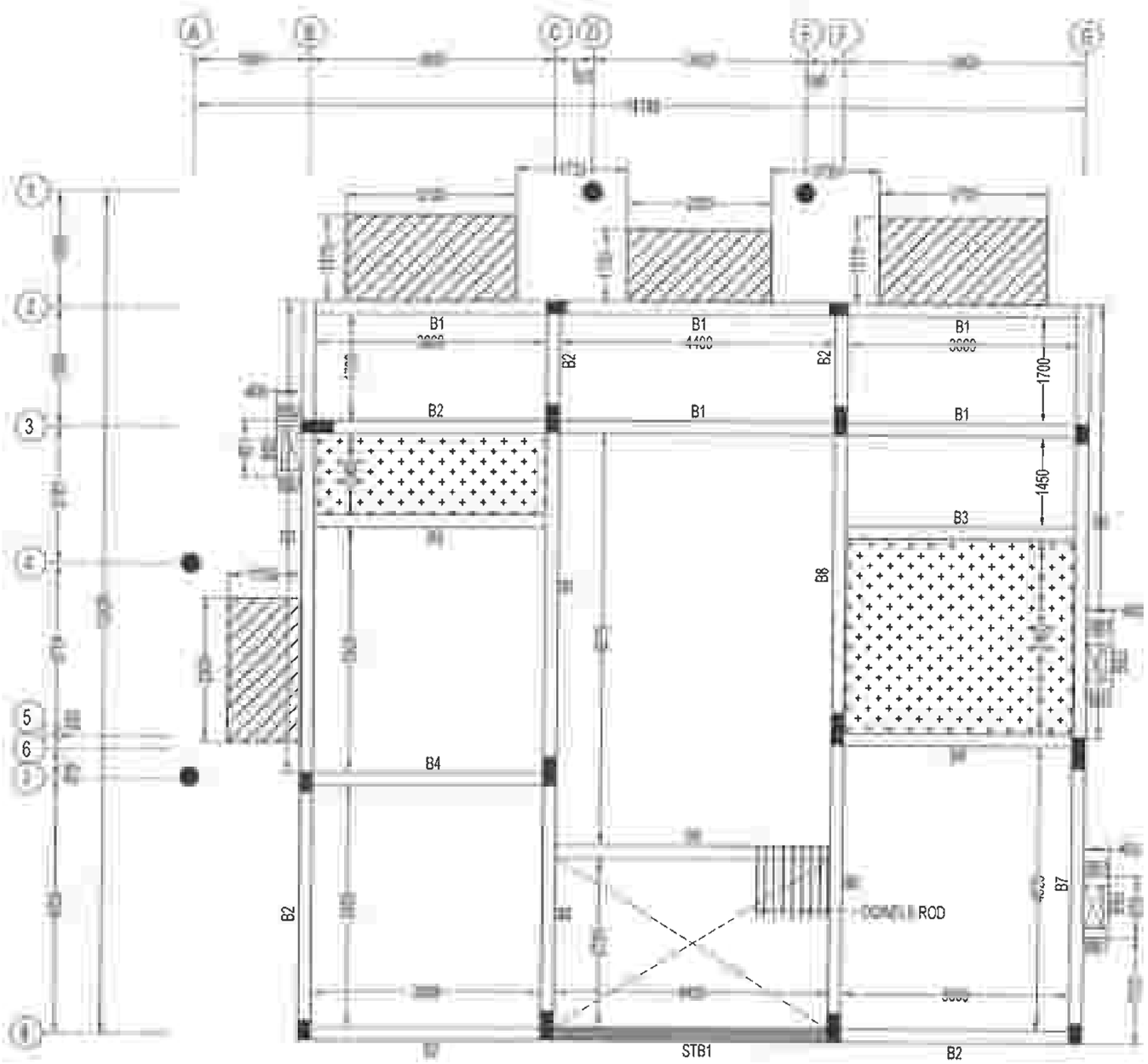
SAFE STRUCTURAL CONSULTANCY

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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

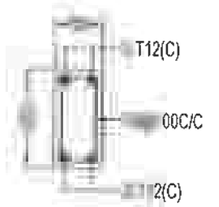
DRAWING NAME

TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	07



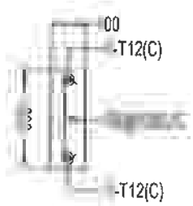
GROUND FLOOR ROOF BEAM LAYOUT



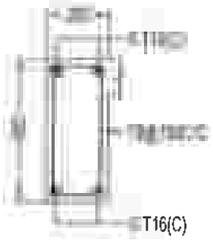
BB1-150 x 300
C/S DETAILS



BB2-150 x 300
C/S DETAILS



BB3-150 x 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS

LEGENDS:

BB - BRACKET BEAM
- OPENING
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN
300mm TOILET SLAB SUNKEN

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GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]/04/2[illegible]	ST-2025-06-02	08

[illegible] STRUCTURAL [illegible] R GRADE - 1 (SE)
M.E ([illegible] Engg)
Reg. No - SE[illegible] 12/231 (CMDA)

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1	6(C), T12(C), 125C/C, T16(C), T16(C)	T16(C), 25C/C	6(C), T12(C), T16(C), T16(C)	
(200 X 450) B2	50C/C	6(C), 150C/C, T16(C)	50C/C, 6(C)	
(200 X 450) B3	2(C), T12(C), T16(C)	50C/C, 2(C), 6(C)	T12(C), 50C/C, T12(C), T16(C)	
(200 X 450) B4	50C/C, 2(C)	T16(C), T16(C)	150C/C, 2(C), 6(C)	
(200 X 450) B5	6(C), 150C/C, T16(C), 6(C)	50C/C, 6(C)	6(C), T16(C), 6(C)	
(200 X 600) B6	T16(C), 25C/C, T16(C), 6(C)	T16(C), 25C/C, 6(C)	T16(C), 16(C), T16(C), 6(C)	

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7	T16(C), 50C/C, 6(C)	6(C), T12(C), 150C/C, T12(C), 6(C)	50C/C	
(200 X 450) B8	6(C), T16(C), 150C/C, 6(C), 6(C)	6(C), 0@150C/C	6(C), T16(C), 50C/C, T16(C)	

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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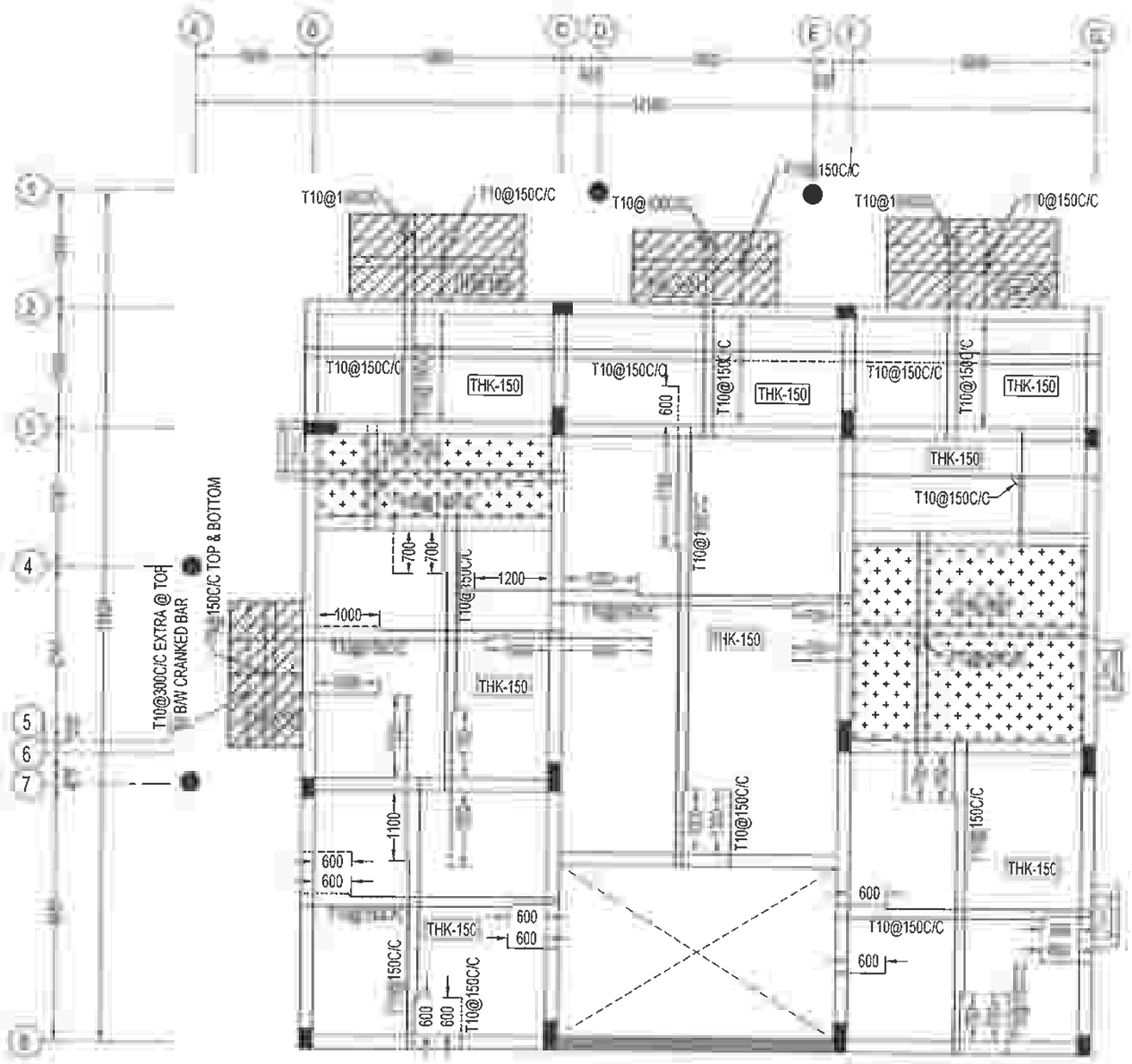
R. KUMAR
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GROUND FLOOR ROOF BEAM DETAILS

REV.	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-06-02	09



LEGENDS:

---------- - TOP ROD

——————— - BOTTOM ROD

THK - THICKNESS

GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

TOP OF GROUND FLOOR ROOF BEAM & SLAB AT +4.05 m LVL

R. RAVIKUMAR
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M.E (Structural Engg)
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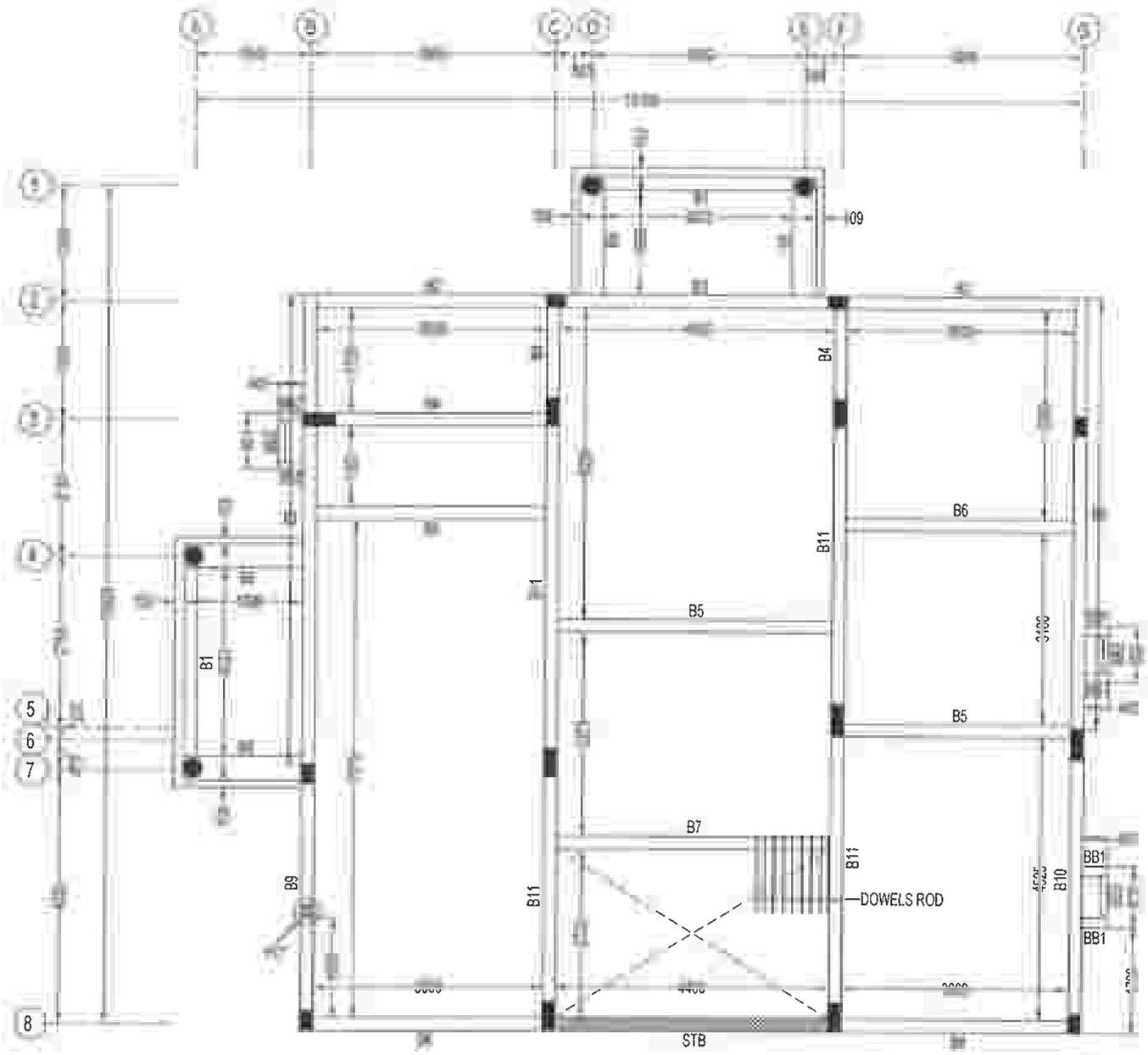
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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

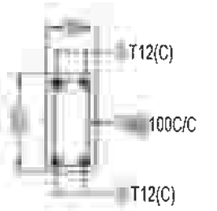
GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	10



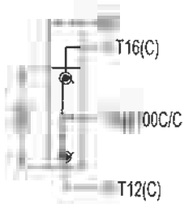
TERRACE BEAM LAYOUT

TOP OF TERRACE BEAM & SLAB AT +7.30 m



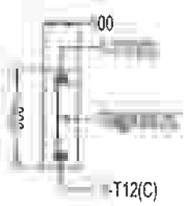
BB1-150 x 300

C/S DETAILS



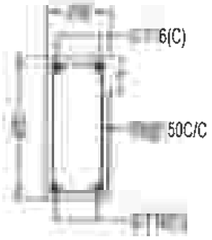
BB2-150 x 300

C/S DETAILS



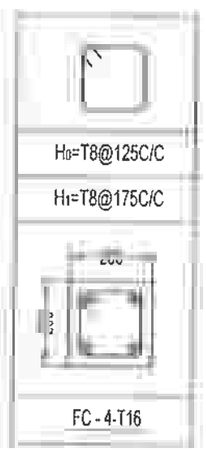
BB3-150 x 300

C/S DETAILS



MLB - 200 X 450

C/S DETAILS



LEGENDS:

BB - BRACKET BEAM

OPENING

MLB - MID LANDING BEAM

FC - FLOATING COLUMN

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ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A COLUMNS	= 40
B PILE	= 40
C. PILE CAP	= 50
D TIE BEAM	= 30
E. PLINTH BEAM	= 30
F. ROOF BEAM	= 30
G ROOF SLAB	= 20

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

FOR REINFORCEMENT

AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY, (VILLA 15)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY PVT
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 11
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructural

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	11

RK

M. RAVIKUMAR
(SE)
A)

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B1	6(C) 50C/C T16(C)	T16(C) 50C/C T12(C) T16(C)	6(C) 50C/C 2(C) T16(C)	
(200 X 450) B2	T12(C) 50C/C 2(C)	T16(C) 2(C) 50C/C T16(C)	6(C) 2(C) 50C/C 2(C) T16(C)	
(200 X 600) B3	6(C) T12(C) 0@125C/C 6(C)	T12(C) 0@125C/C T16(C)	2(C) 0@125C/C T16(C) 6(C)	
(200 X 450) B4	6(C) 50C/C	50C/C	T16(C) 6(C)	
(200 X 450) B5	6(C) 50C/C 2(C)	50C/C T16(C)	6(C) 50C/C T16(C)	
(200 X 450) B6	50C/C T16(C)	50C/C T16(C)	T12(C) T16(C)	

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7	50C/C T16(C) T16(C)	6(C) 50C/C 6(C)	T16(C) 150C/C 6(C)	
(380 X 600) B8	T16(C) 50C/C 6(C)	T16(C) 150C/C 6(C)	6(C) 6(C) 0@150C/C T16(C) 6(C)	
(200 X 600) B9	6(C) T16(C) 0@125C/C T16(C) T16(C)	T16(C) T16(C) 50C/C T16(C)	T16(C) T16(C) 25C/C T16(C)	
(200 X 450) B10	T16(C) 6(C) 150C/C 2(C)	150C/C T12(C)	50C/C T12(C)	
(200 X 450) B11	0@150C/C T16(C)	0@150C/C T16(C)	6(C) 0@150C/C T16(C)	

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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   - C. PILE CAP = 50
   - D. TIE BEAM = 30
   - E. PLINTH BEAM = 30
   - F. ROOF BEAM = 30
   - G. ROOF SLAB = 20
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10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
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JOINTS FOR [illegible]NT

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CLIENT

PROJECT

ADITYARAM PALACE CITY, (VILLA 15)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

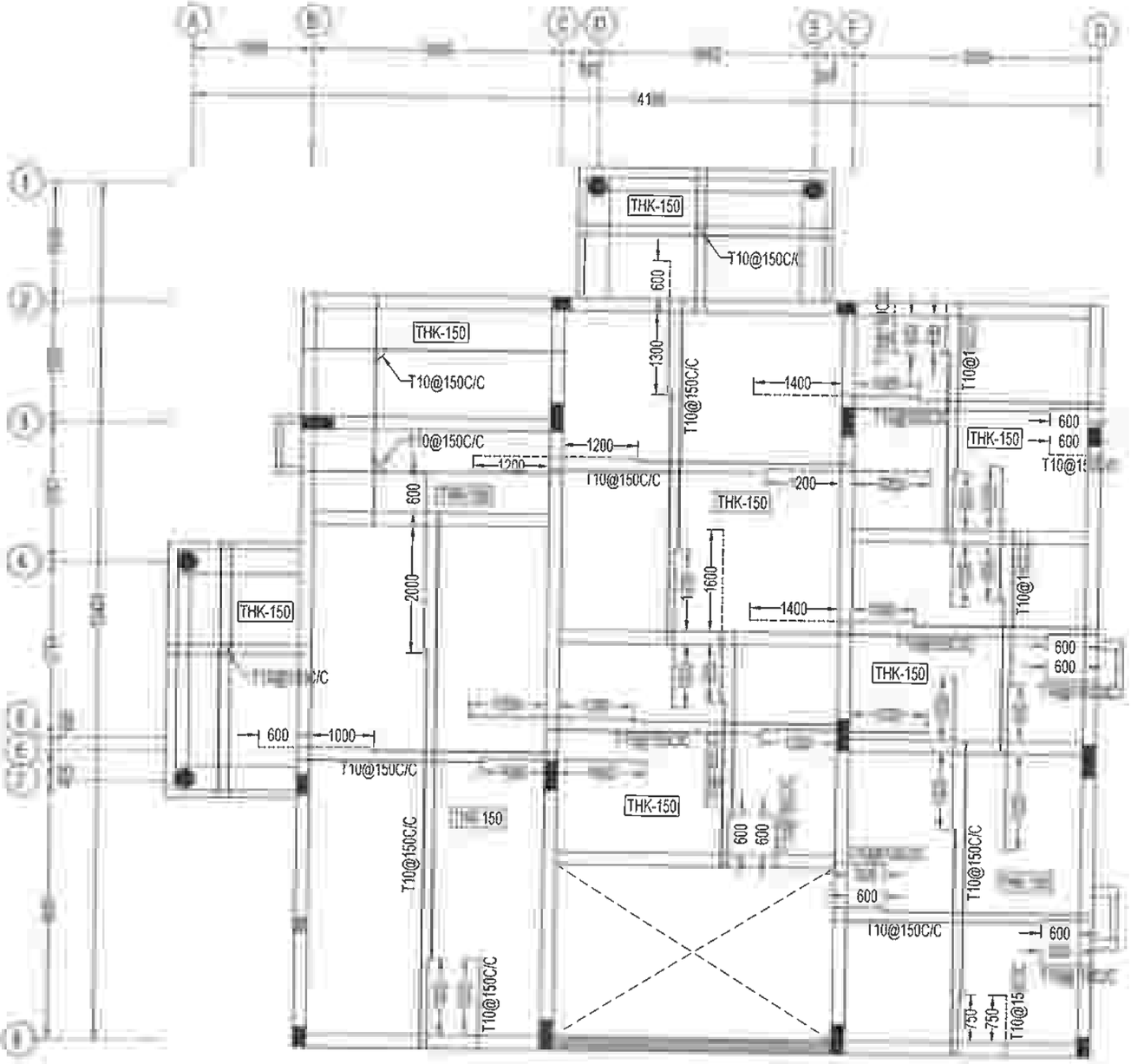
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] OLD [illegible], 200 FEET ROAD,
EACHANAN[illegible]NI[illegible], KOVILAMBAKKAM,
CHENNA[illegible]7
Safe Structural Consultancy
CT. : +[illegible]7
[illegible]cteralc[illegible].com
www.[illegible]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2025-06-02	12



TERRACE SLAB LAYOUT & DETAILS

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OINTS FOR MENT

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CLIENT

PROJECT

ADITYARAM PALACE CITY, (VILLA 15)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NE OLD , 200 FEET ROAD,
EA , AN , KOVILAMBAKKAM,
CH 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

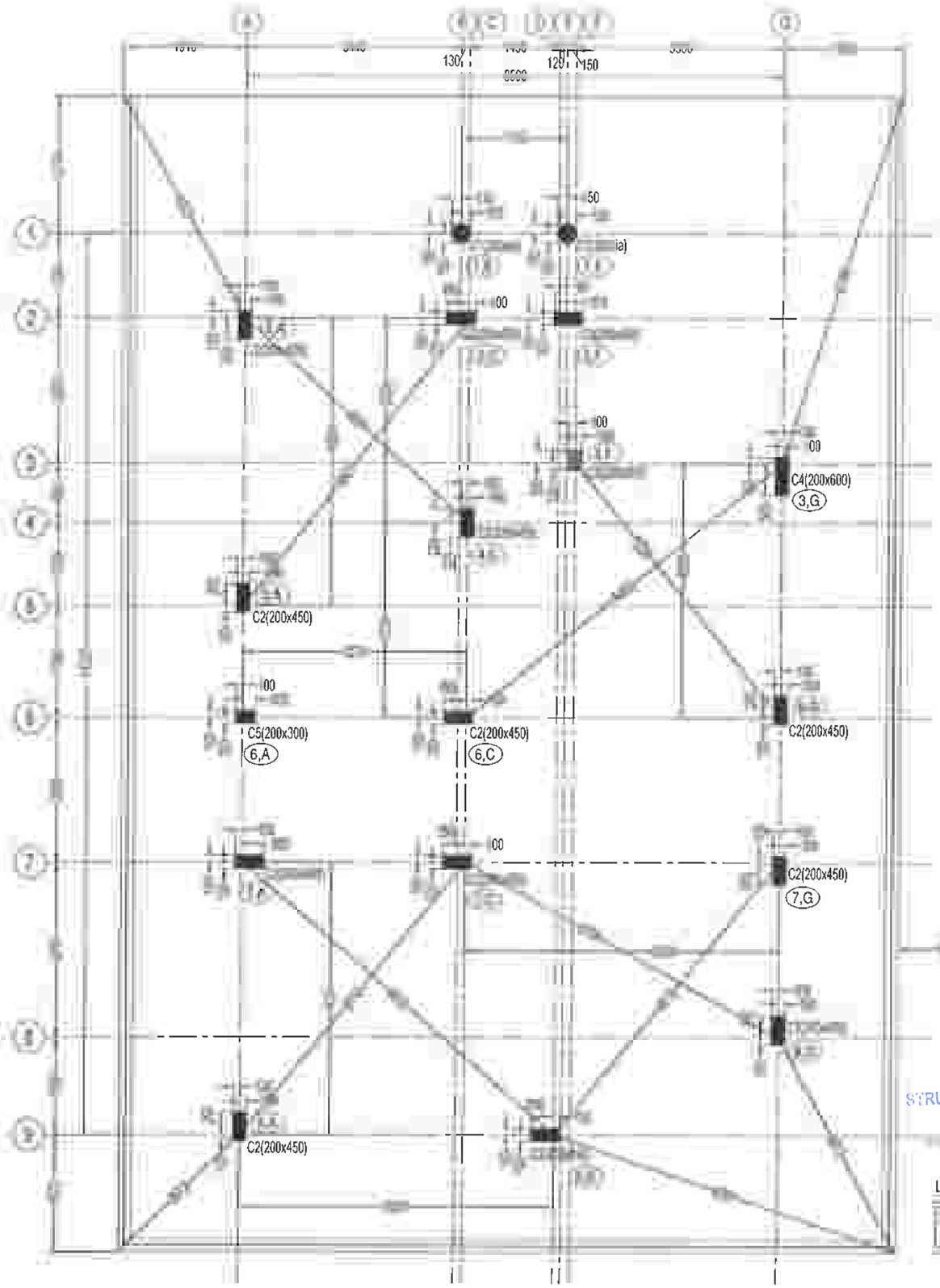
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-06-02	13

R. RAVI
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



COLUMN MARKING LAYOUT

NAME OF COLUMN	NUMBERS OF COLUMN
C1	02
C2	13
C3	01
C4	01
C5	01
TOTAL:	18

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:

- CONTINUOUS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF LEVEL

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STRUCTURAL CONSULTANT

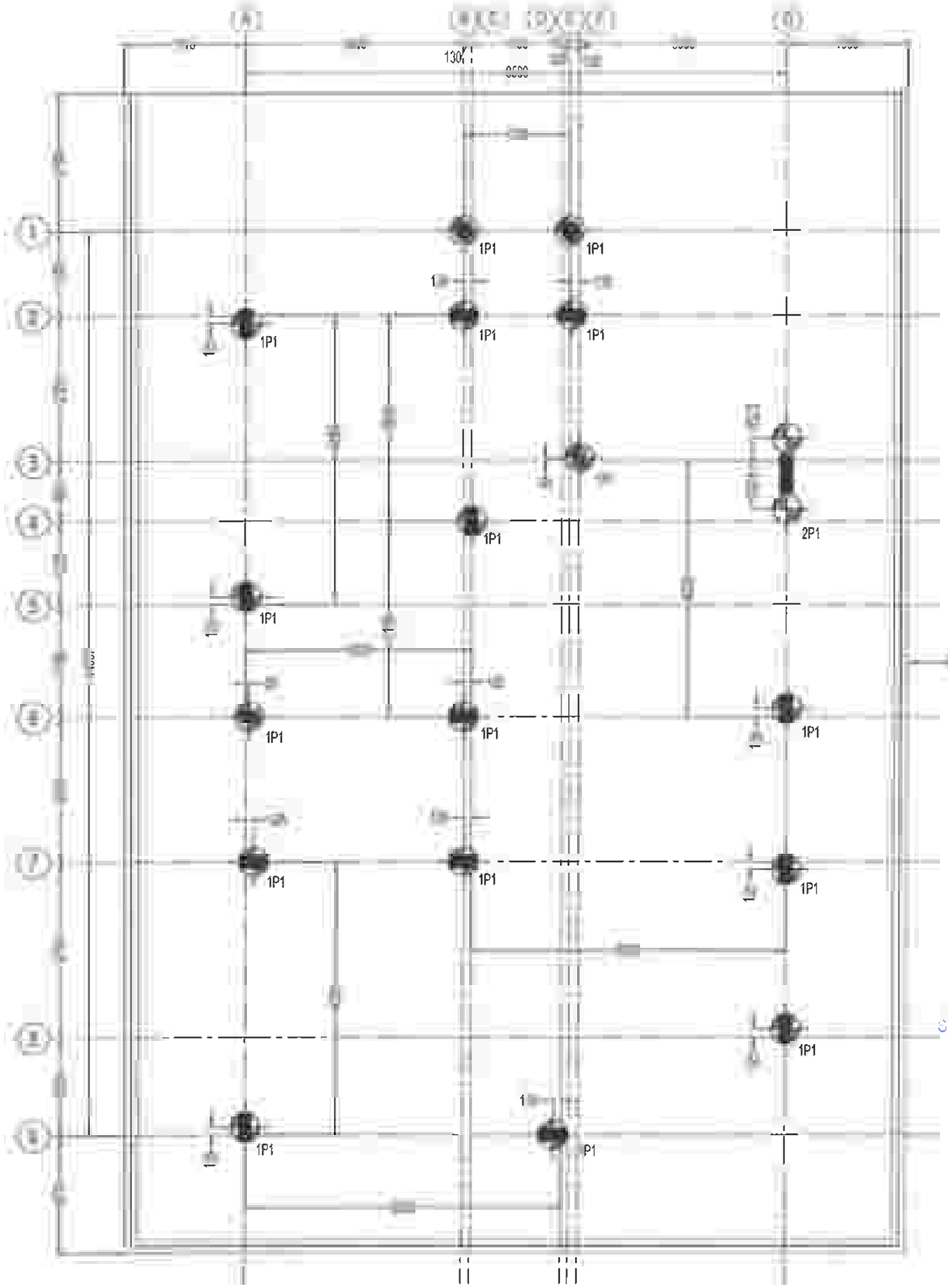
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR	
DETAILED	MV	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11/[illegible]	ST-2025-09-08	01



PILE(P) MARKING LAYOUT

R. [illegible]
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:

PILE (450 dia)

NOTE:

NO.OF PILE - 19 NOS

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

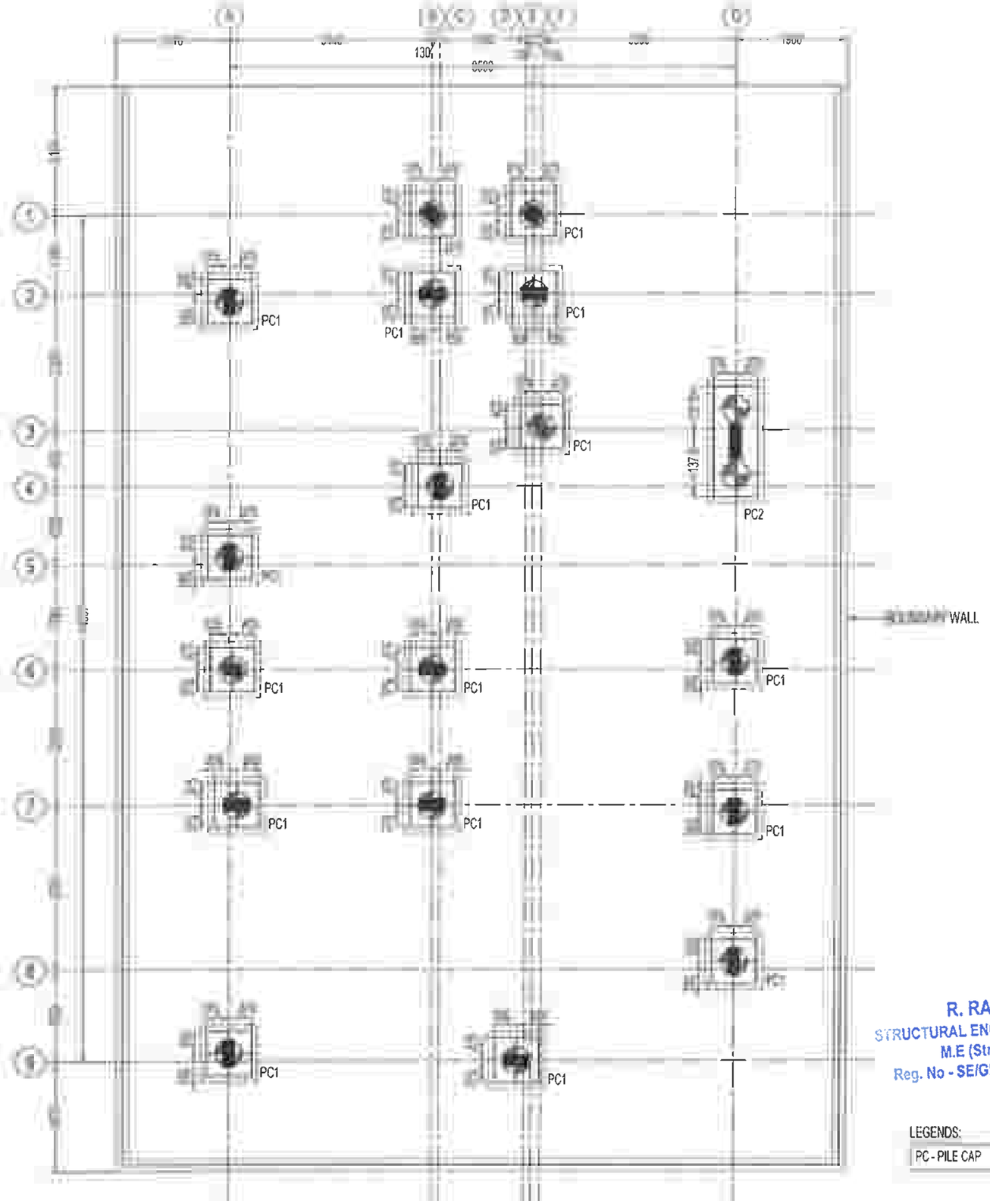
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11	ST-2025-09-08	02



PILE CAP(PC) MARKING LAYOUT

LEGENDS:

PC - PILE CAP

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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PROJECT

ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

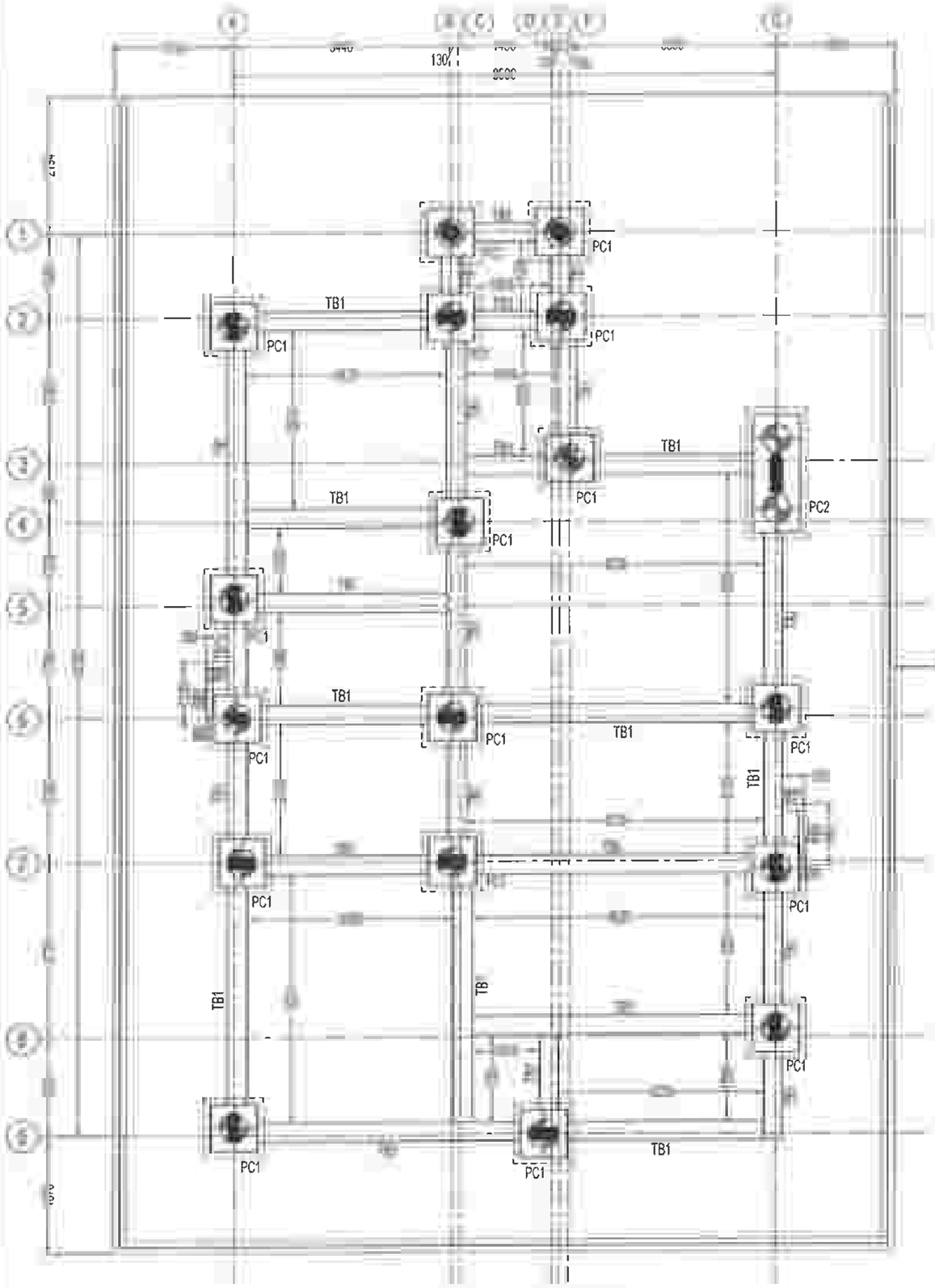
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EA N , KOVILAMBAKKAM,
CH 7
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DESIGNED	RK	RELEASED FOR	
DETAILED	MV	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

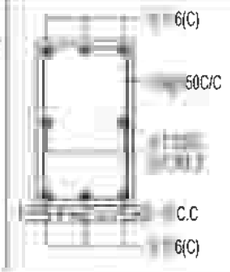
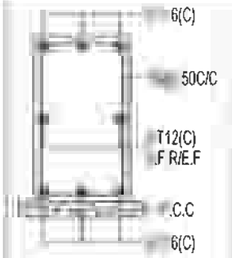
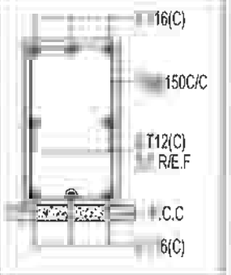
DRAWING NAME

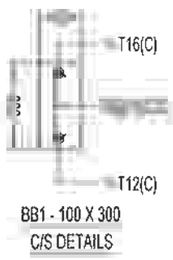
PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11	ST-2025-09-08	03

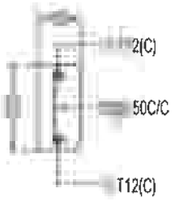


TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1			



BB1 - 100 X 300
C/S DETAILS

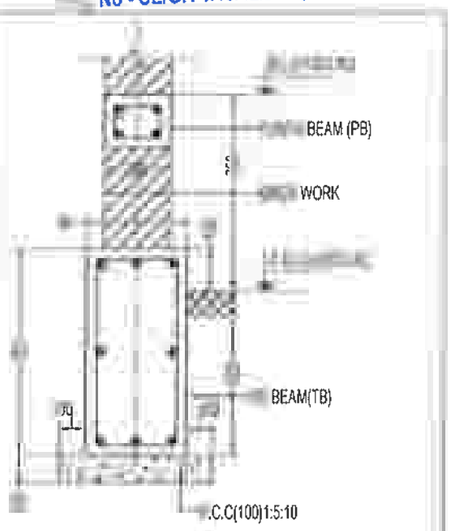


BB2 - 100 X 300
C/S DETAILS

LEGENDS:

PC - PILE CAP
TB - TIE BEAM
BB - BRACKET BEAM

STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)



TYPICAL C/S TIE BEAM(TB) &
PLINTH BEAM(PB) DETAILS

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8. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 1½"
   - B. PILE = 2"
   - C. PILE CAP = 2"
   - D. TIE BEAM = 1"
   - E. PLINTH BEAM = 1"
   - F. ROOF BEAM = 1"
   - G. ROOF SLAB = ¾"
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS

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iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] D NO 2/1466, 200 FEET ROAD,
EACHAN[illegible]NNA NAGAR, KOVILAMBAKKAM,
CHENNA[illegible]7.
Safe
Structural Consultancy
CT. : +[illegible]7
[illegible]ctural[illegible].com
www.[illegible]ralconsultancy.com

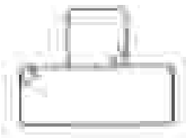
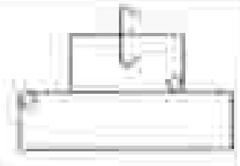
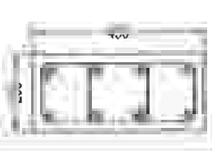
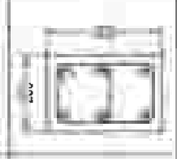
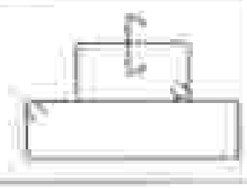
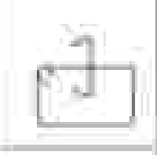
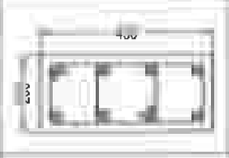
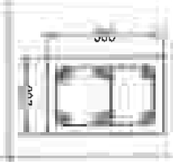
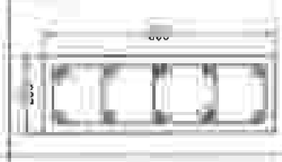
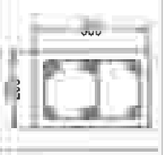
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) DETAILS

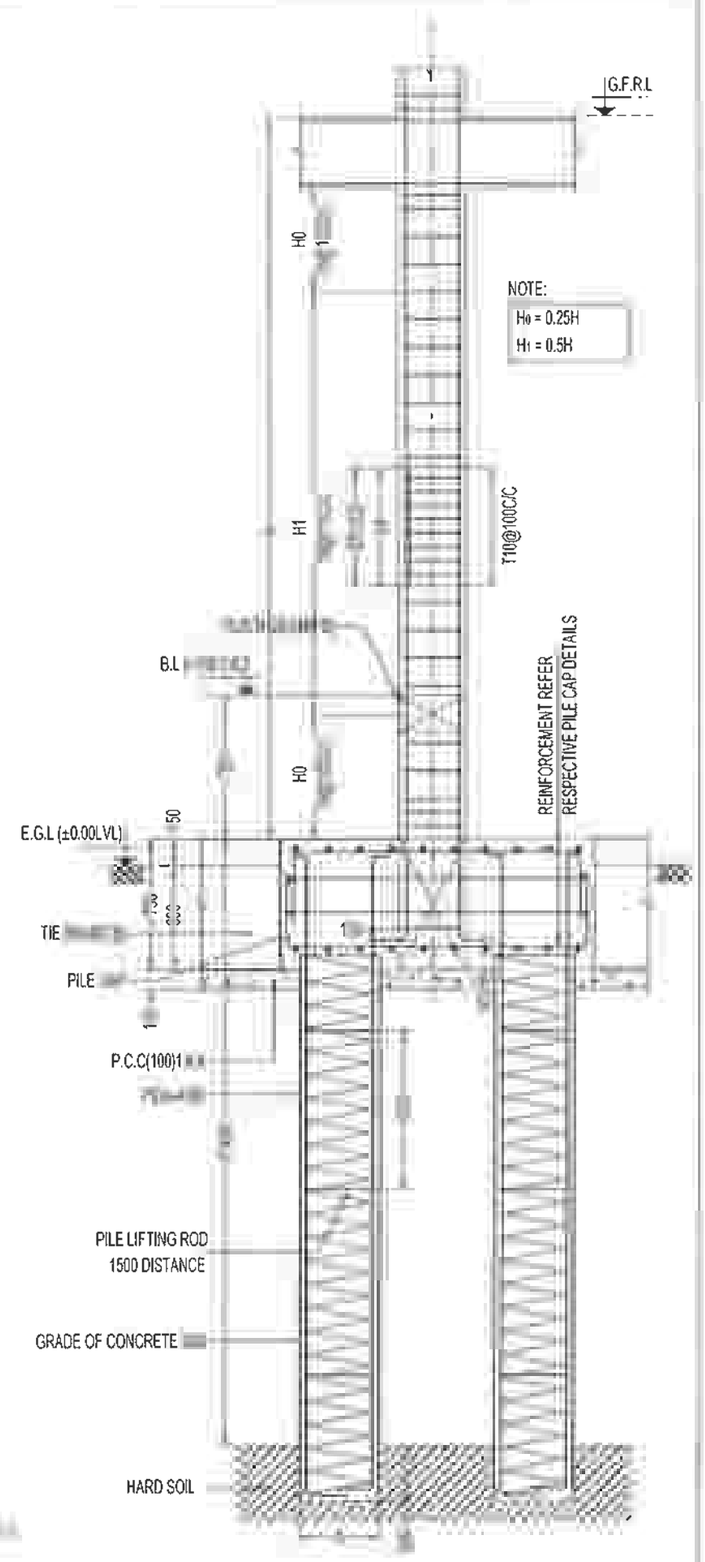
REV	DATE	PROJECT NO	SHEET.NO
R0	7/11/2[illegible]	ST-2025-09-08	04

COLUMN REINFORCEMENT SCHEDULE:

TERRACE LEVEL TO GROUND FLOOR ROOF LEVEL					
	H_0=T8@125C/C	H_0=T8@125C/C		H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C		H_1=T8@175C/C	H_1=T8@175C/C
					
	6-T16	4-T16 + 4-T12		8-T16 + 2-T12	4-T16 + 2-T12
GROUND FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙- T16 ⊕- T12					
	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
					
	6-T16	4-T16 + 4-T12	6-T12	8-T16 + 2-T12	4-T16 + 2-T12
COLUMN MARKED	C1	C2	C3	C4	C5

LEGENDS

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



NOTE:
H_0 = 0.25H
H_1 = 0.5H

TYPICAL COLUMN & PILE CONFINING DETAILS

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ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

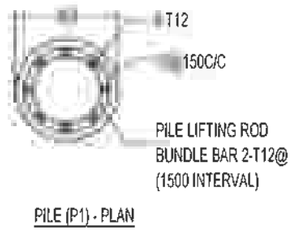
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] D [illegible], 200 FEET ROAD,
EACHAN [illegible] N [illegible], KOVILAMBAKKAM,
CHENNA [illegible] 7
[illegible]7
Safe
Structural Consultancy
[illegible].com
[illegible]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

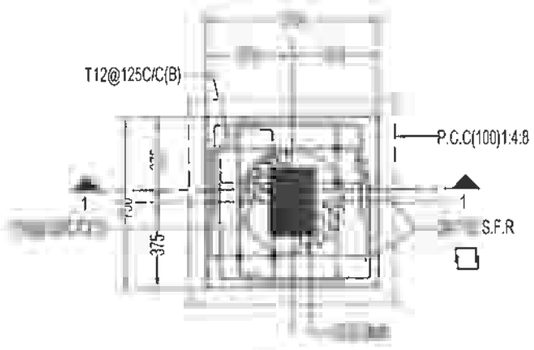
DRAWING NAME

COLUMN ,PILE & PILE CAP(PC) DETAILS

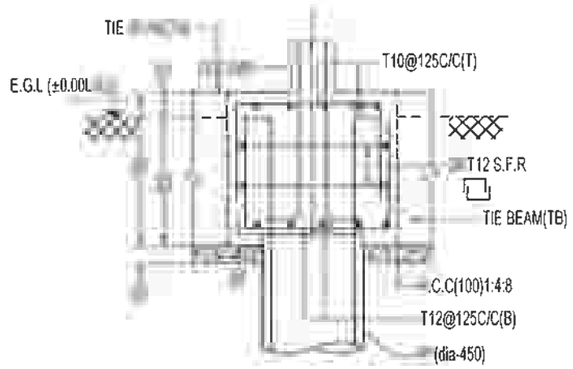
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R0	7/11 [illegible]	ST-2025-09-08	05



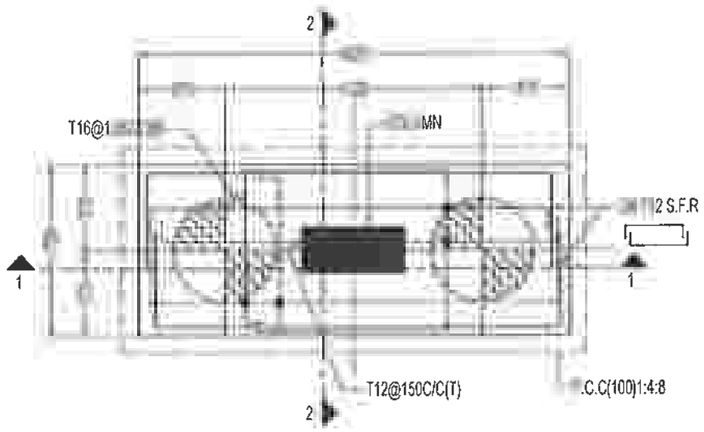
PILE (P1) - PLAN



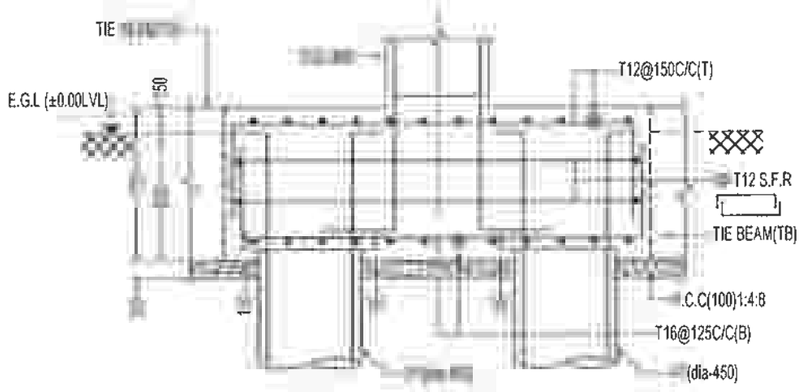
PC1 - PLAN



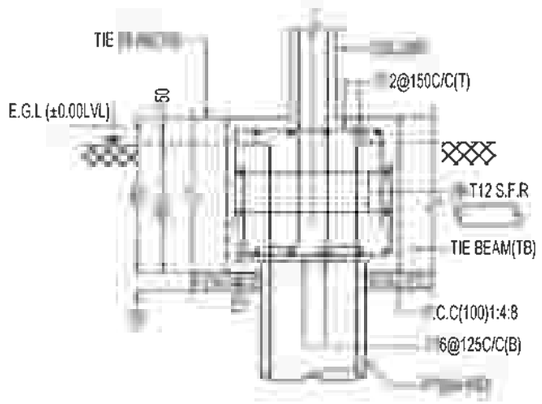
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

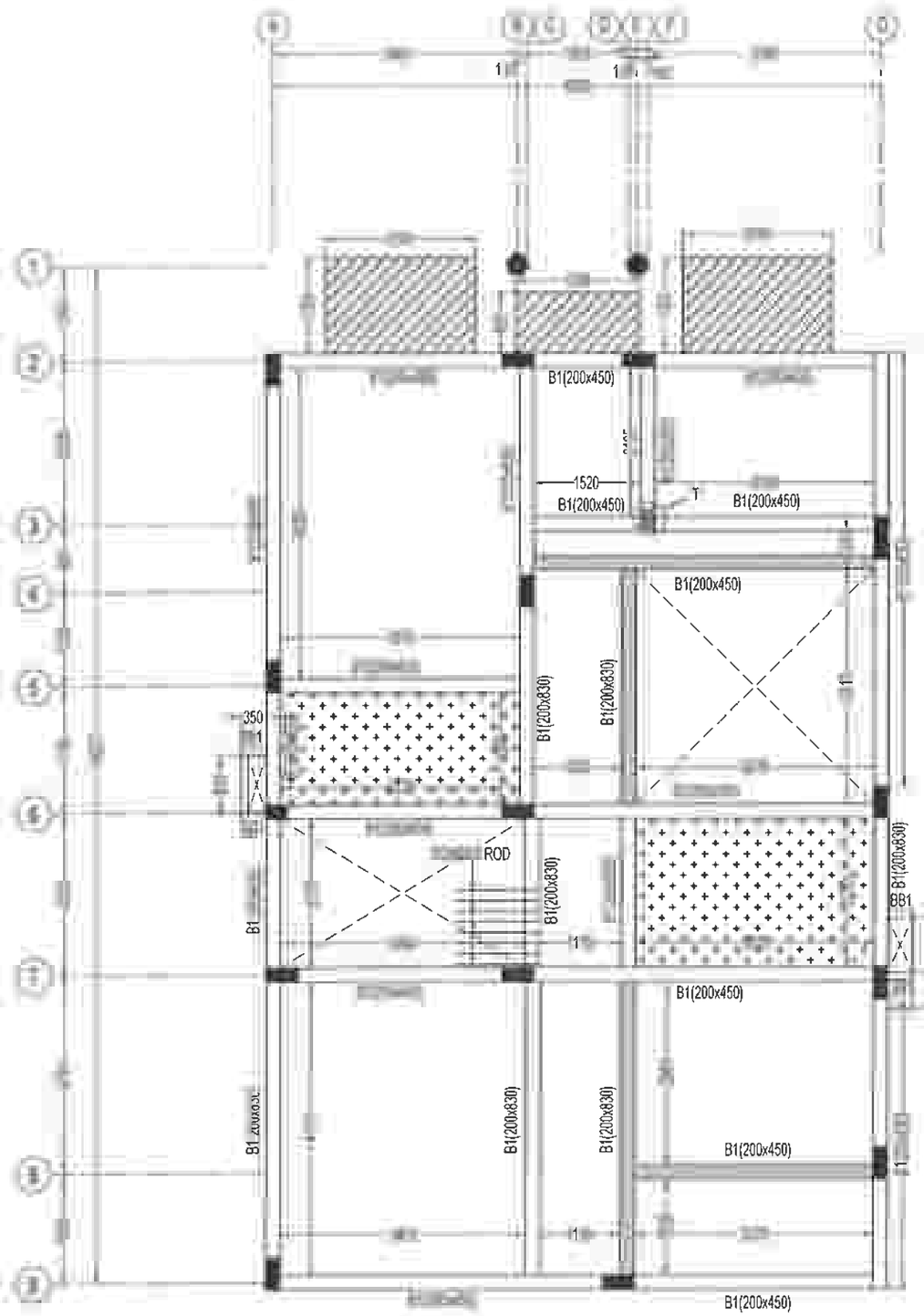
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

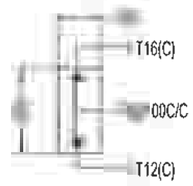
DRAWING NAME

PILE , PILE CAP DETAILS & TIE BEAM (TB) DETAILS

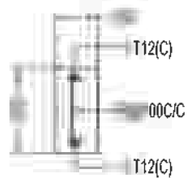
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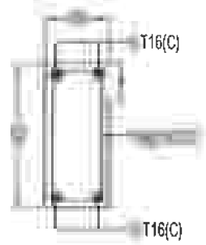
GROUND FLOOR ROOF BEAM LAYOUT



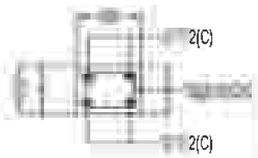
BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS



HB1 - 200 x 150
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
E (Structural Engg)
SE/GR-1/19/12/231 (CMDA)

LEGEND

BB - BRACKET BEAM
- T - COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN

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ARCHITECT

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SAFE STRUCTURAL CONSULTANCY
NEW NO [redacted] 200 FEET ROAD,
EACHAN[redacted] KOVILAMBAKKAM,
CHENNA[redacted]
Safe
Structural Consultancy
CT. : +[redacted]7
[redacted]ctural[redacted].com
www.[redacted]ralconsultancy.com

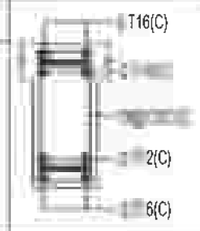
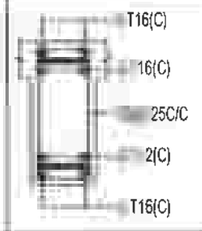
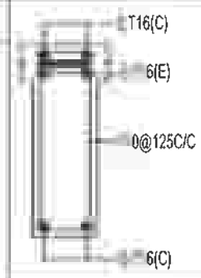
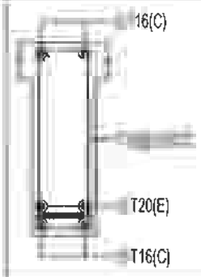
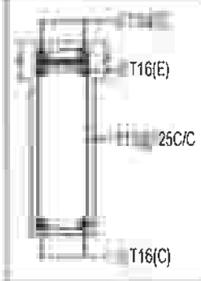
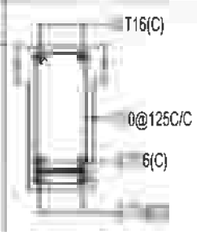
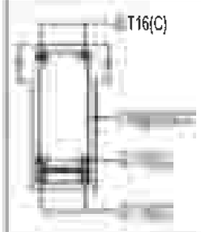
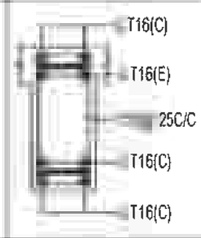
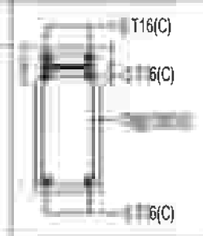
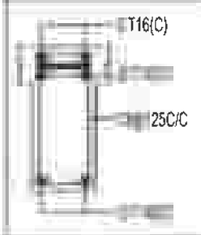
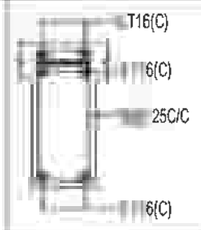
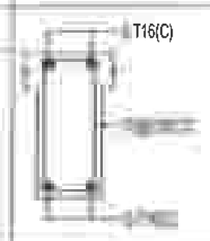
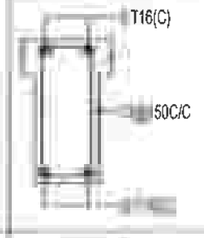
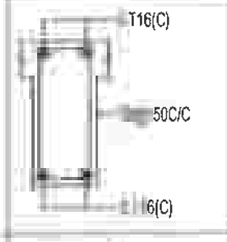
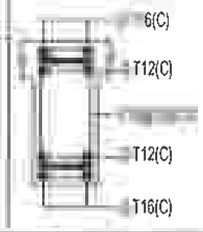
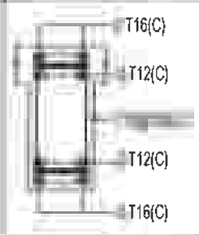
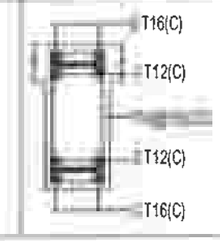
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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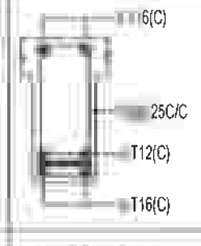
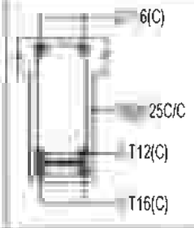
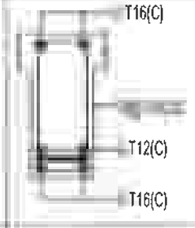
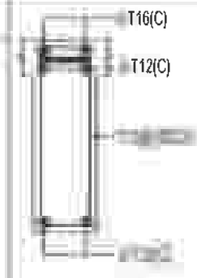
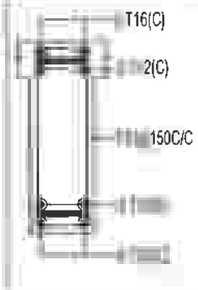
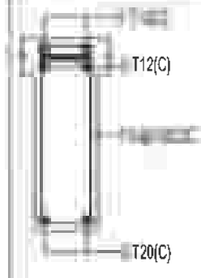
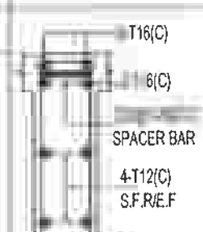
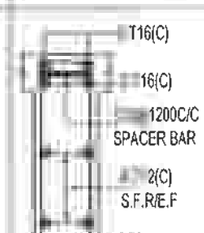
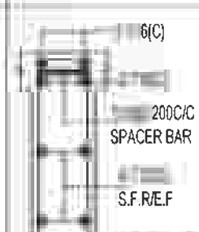
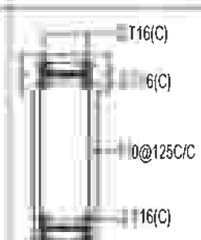
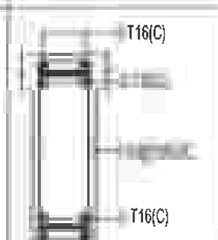
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11[redacted]	ST-2025-09-08	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 600) B8				
(200 X 830) B9				
(200 X 600) B10				

LEGENDS:

- C - CONTINUOUS BAR
- E - EXTRA BAR
- S.F.R - SIDE FACE REINFORCEMENT
- E.F - EACH FACE

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

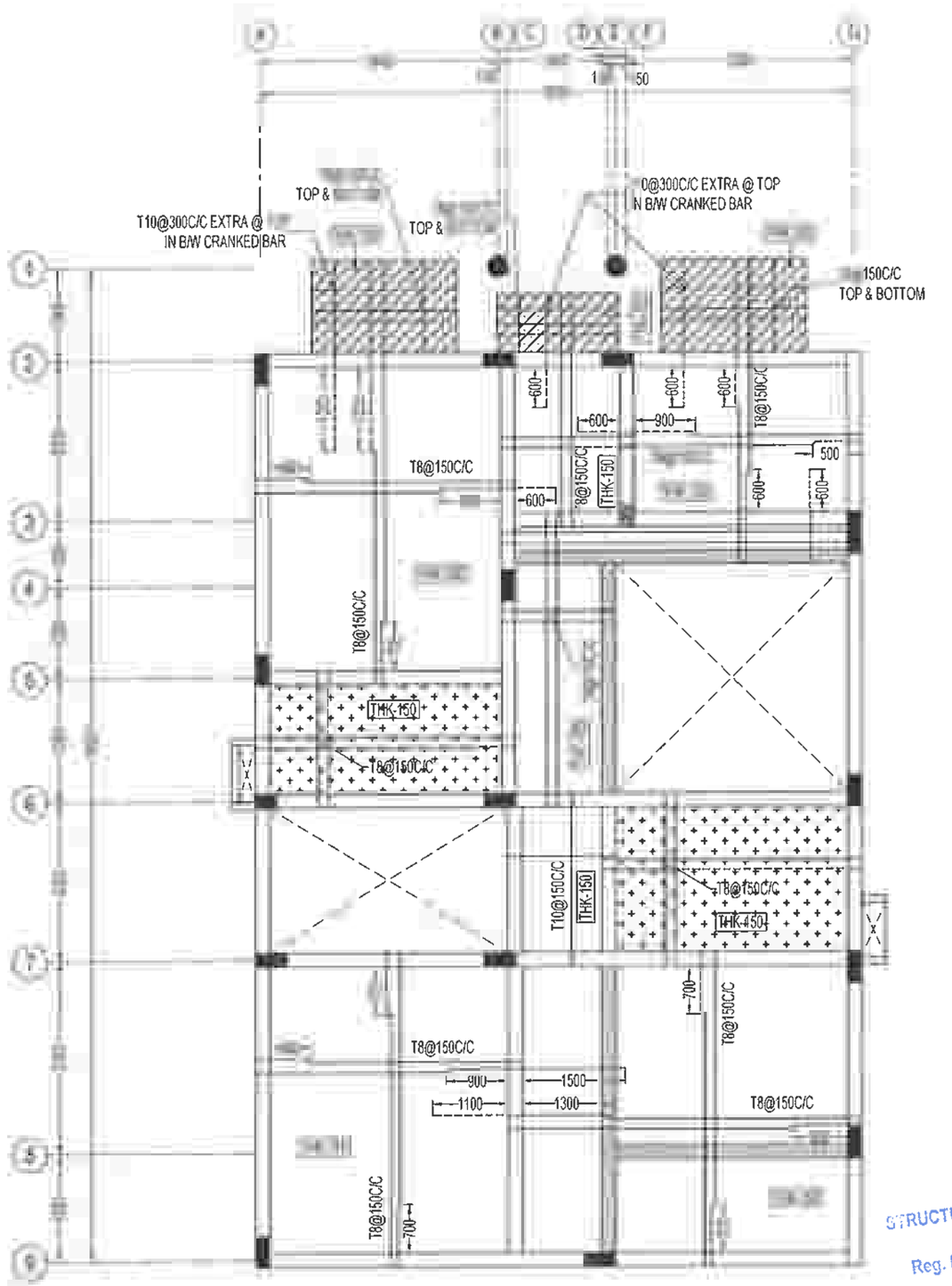
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11	ST-2025-09-08	08



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

LEGENDS:

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

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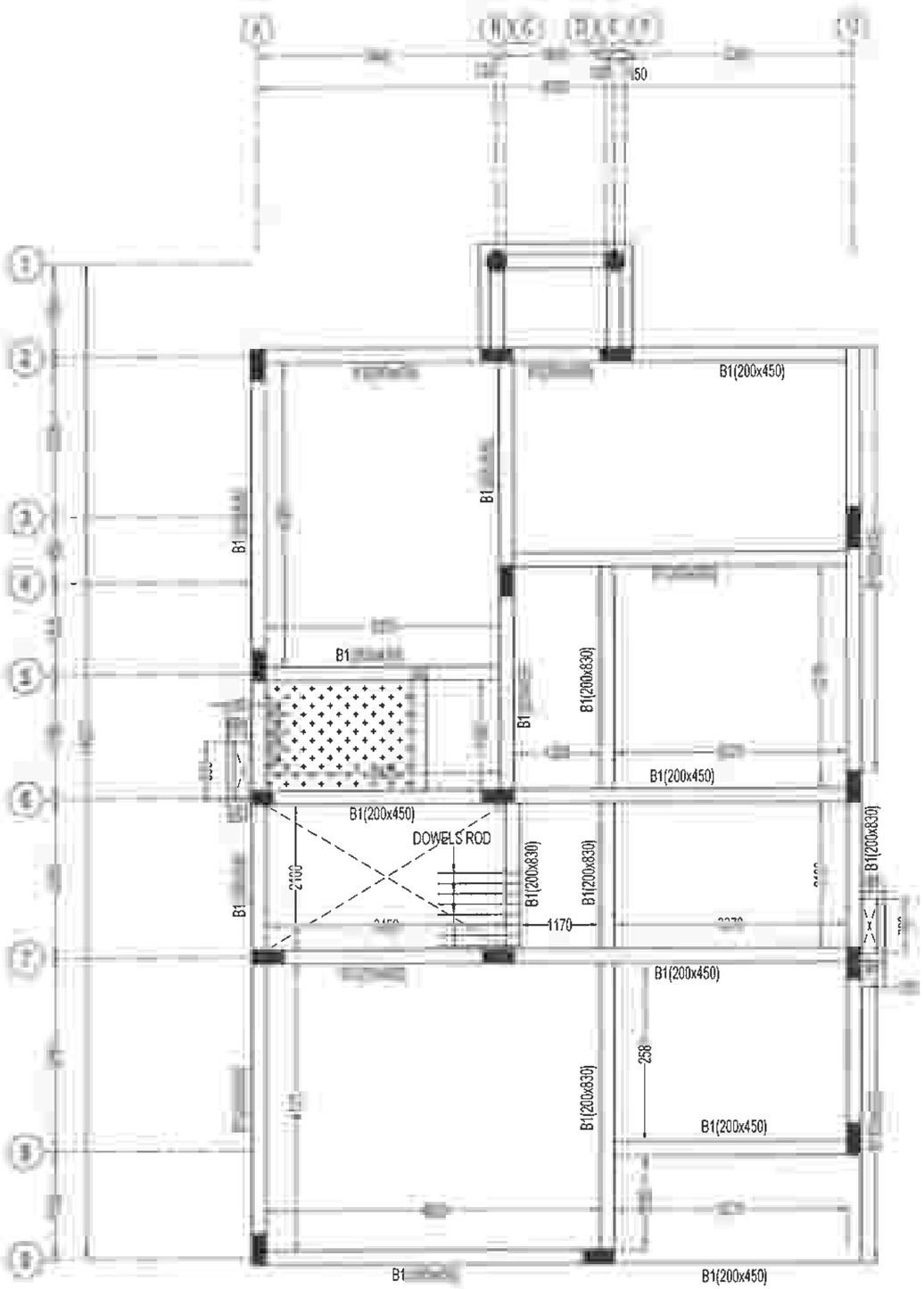
R. RAVI
STRUCTURAL ENGINEER
M.E (Structural Engg)
Reg. No - SE/GR-5/1

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

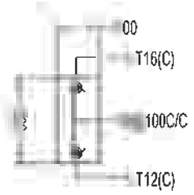
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GROUND FLOOR ROOF SLAB DETAILS

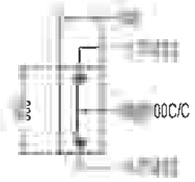
REV	DATE	DRAWING NO	SHEET NO
R0	7/11/2025	ST-2025-09-08	09



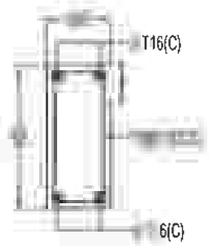
TERRACE BEAM LAYOUT



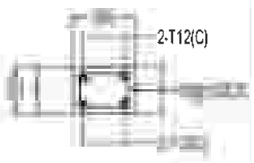
BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS



HB1 - 200 x 150
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL GRADE - 1 (SE)
M.E Engg)
Reg. No - S 2/231 (CMDA)

LEGENDS:

BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM

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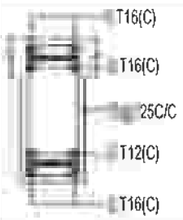
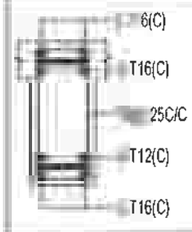
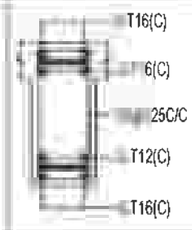
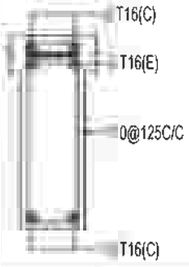
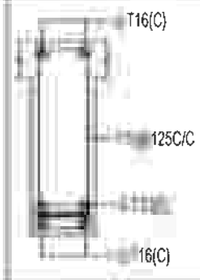
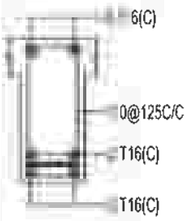
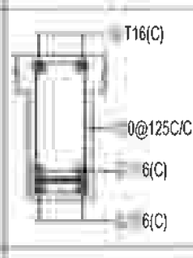
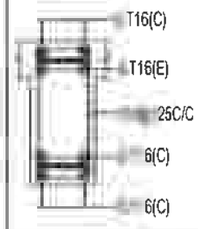
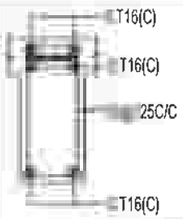
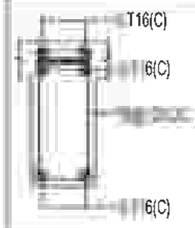
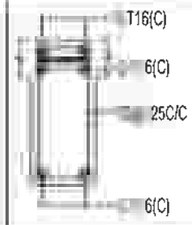
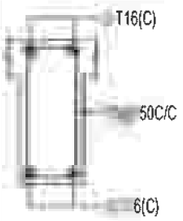
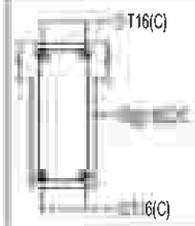
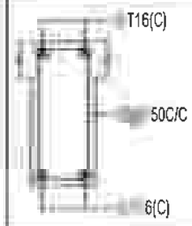
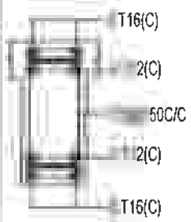
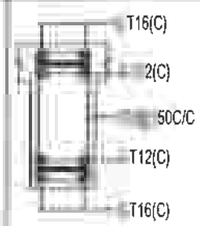
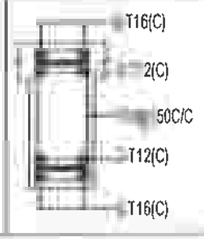
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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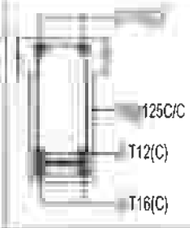
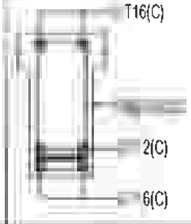
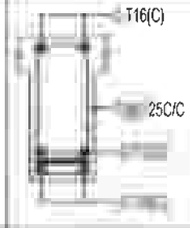
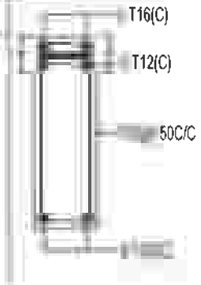
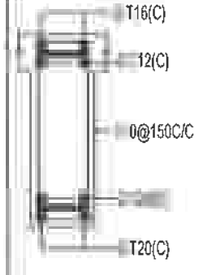
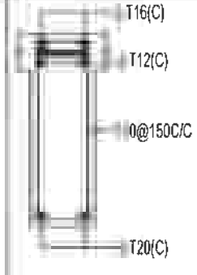
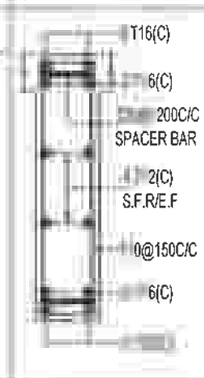
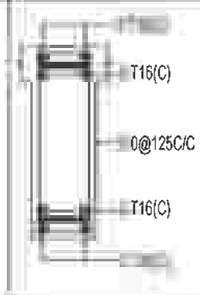
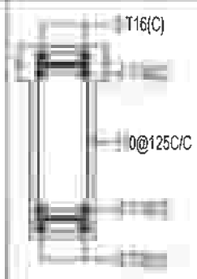
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	7/11/2025	ST-2025-09-08	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 600) B8				
(200 X 830) B9				
(200 X 600) B10				

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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ALL RCC MEMBERS IN M25(1:1:2) GRADE
"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
CLEAR COVER TO REINFORCEMENT.
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B. PILE = 2"
C. PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F. ROOF BEAM = 1"
G ROOF SLAB = ¾"
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THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REIN

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 51)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NE NO 2/1466, 200 FEET ROAD,
EA NA NAGAR, KOVILAMBAKKAM,
CH
CT. : +
Safe
Structural Consultancy
www ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	7/11	ST-2025-09-08	11

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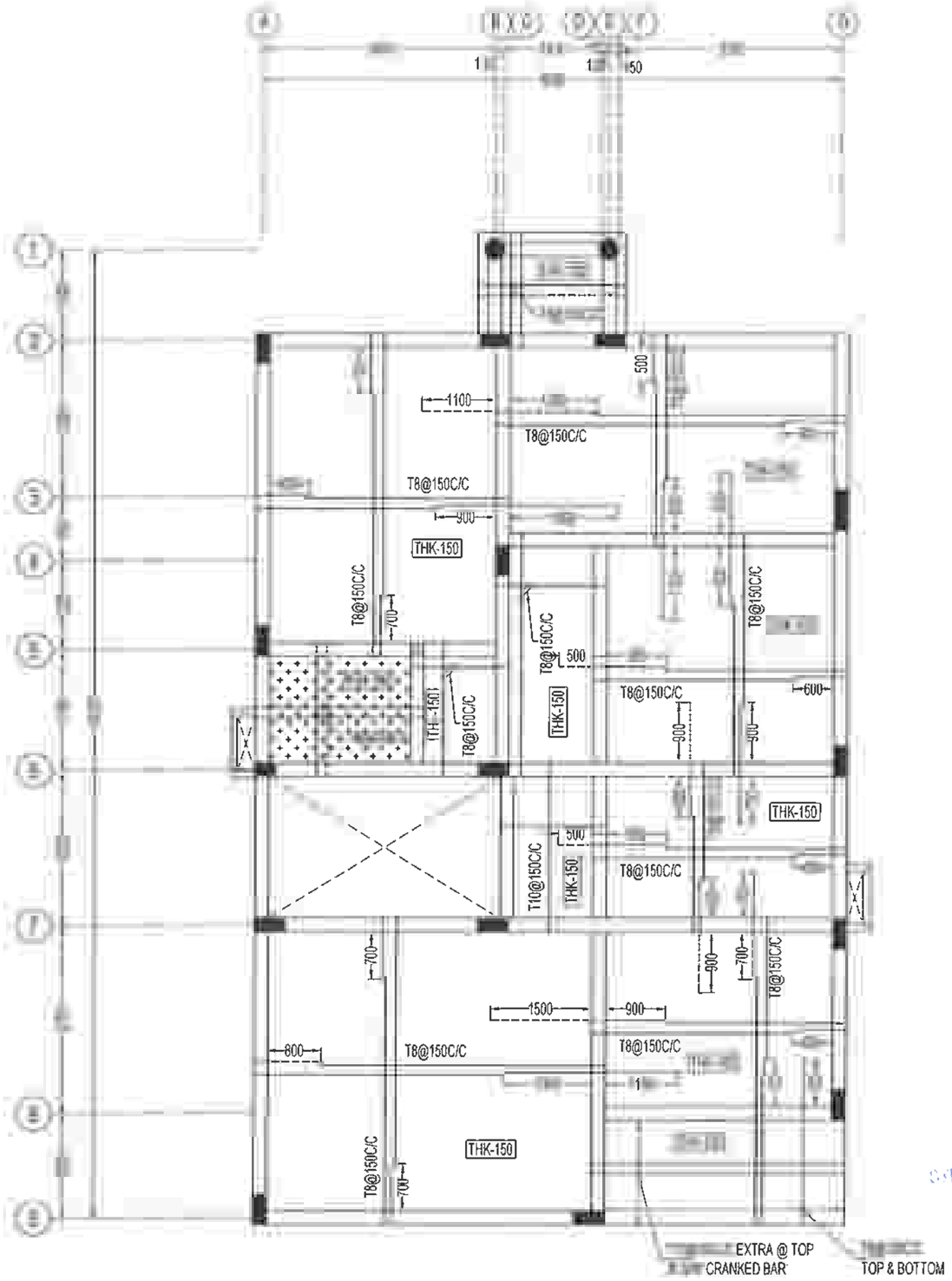
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11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .



TERRACE SLAB LAYOUT & DETAILS

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

BY
R. [illegible]
STRUCTURAL [illegible] DE - 1 (SE)
M.E [illegible]ural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

CLIENT

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AT ECR, CHENNAI.

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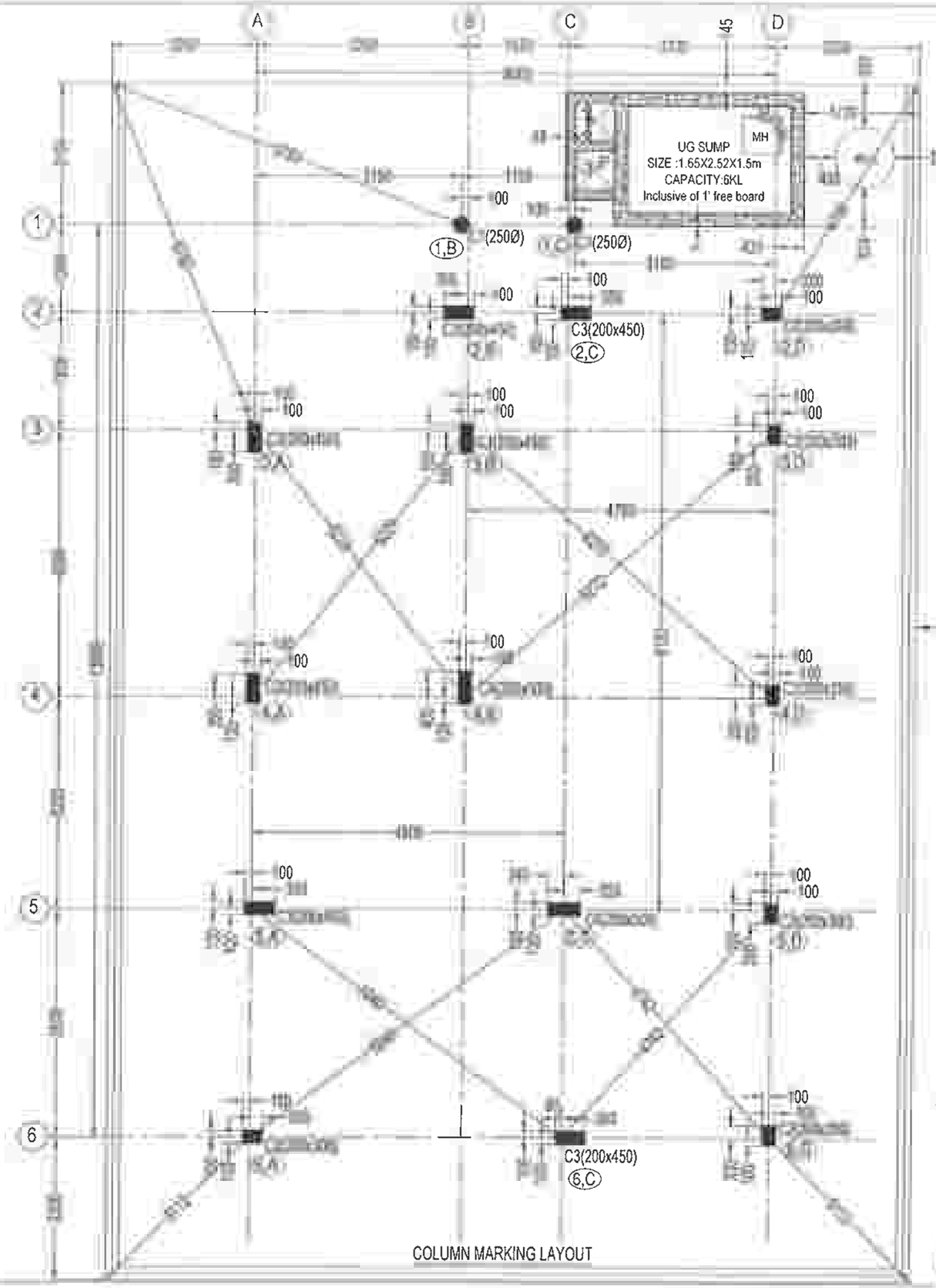
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	7/11[illegible]	ST-2025-09-08	12



COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 52)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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safestructuralconsult@gmail.com
Web : www.safestructuralconsultancy.com

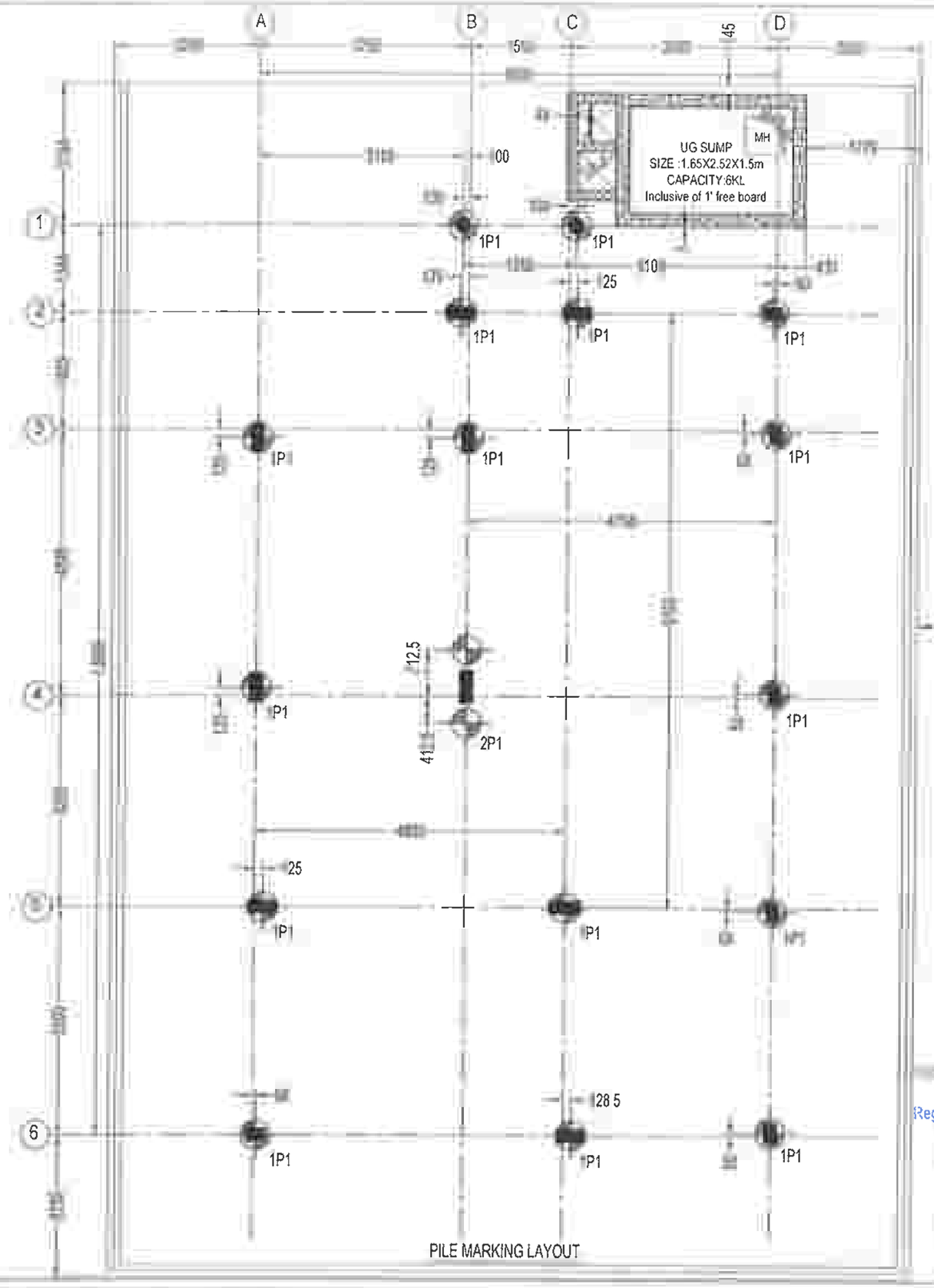
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (C
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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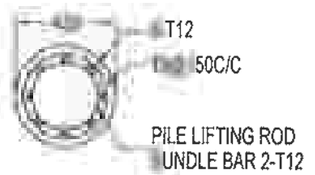
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COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	01



OUNDARY LINE



PILE (P1) - PLAN

R. RAVIKUMAR
RAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No. SE/GR-1/19/12/231 (CMDA)

NO.OF PILE -18 NOS

LEGENDS:

P -PILE (450mmdia)

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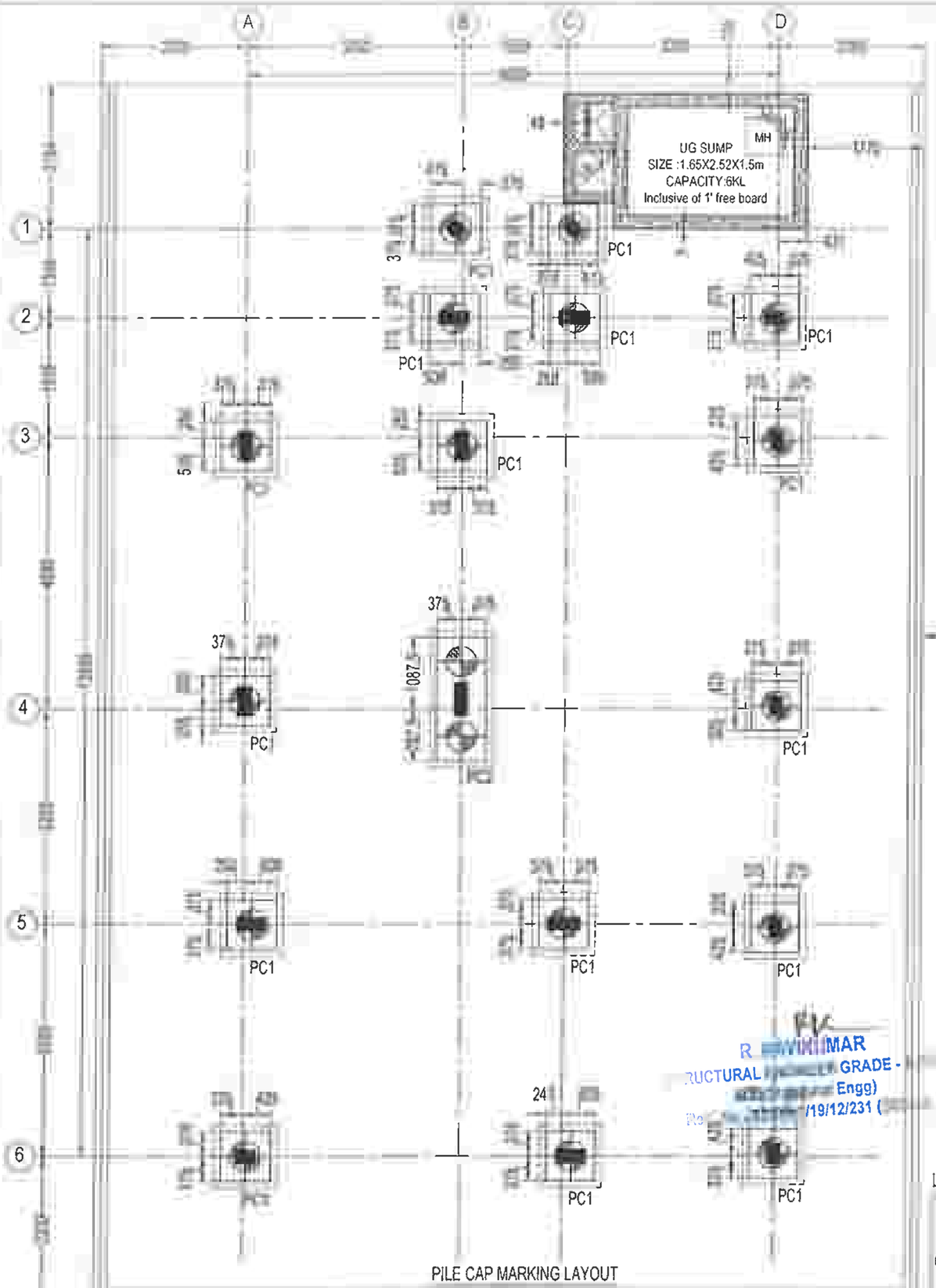
SAFE STRUCTURAL CONSULTANCY
Safe Structural Consultancy
CHENNAI 600 117 COCHIN-682 303
CONTACT : +91 9087725767
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
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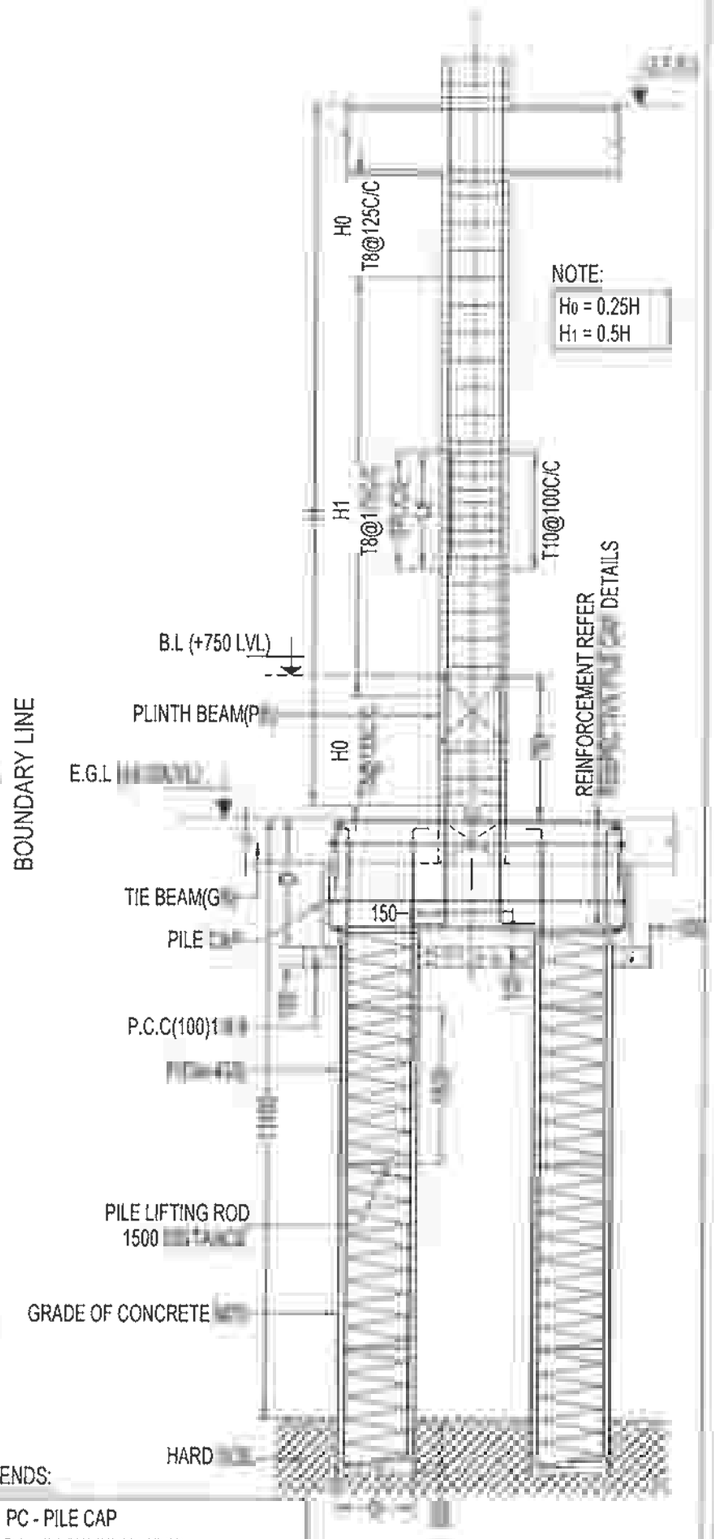
PILE MARKING LAYOUT

REV.	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	02



PILE CAP MARKING LAYOUT

BOUNDARY LINE



NOTE:
$H_0 = 0.25H$
$H_1 = 0.5H$

TYPICAL COLUMN & PILE CONFINING DETAILS

LEGENDS:

PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

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PROJECT

ADITYARAM PALACE CITY,(VILLA 52)
@ ECR, CHENNAI.

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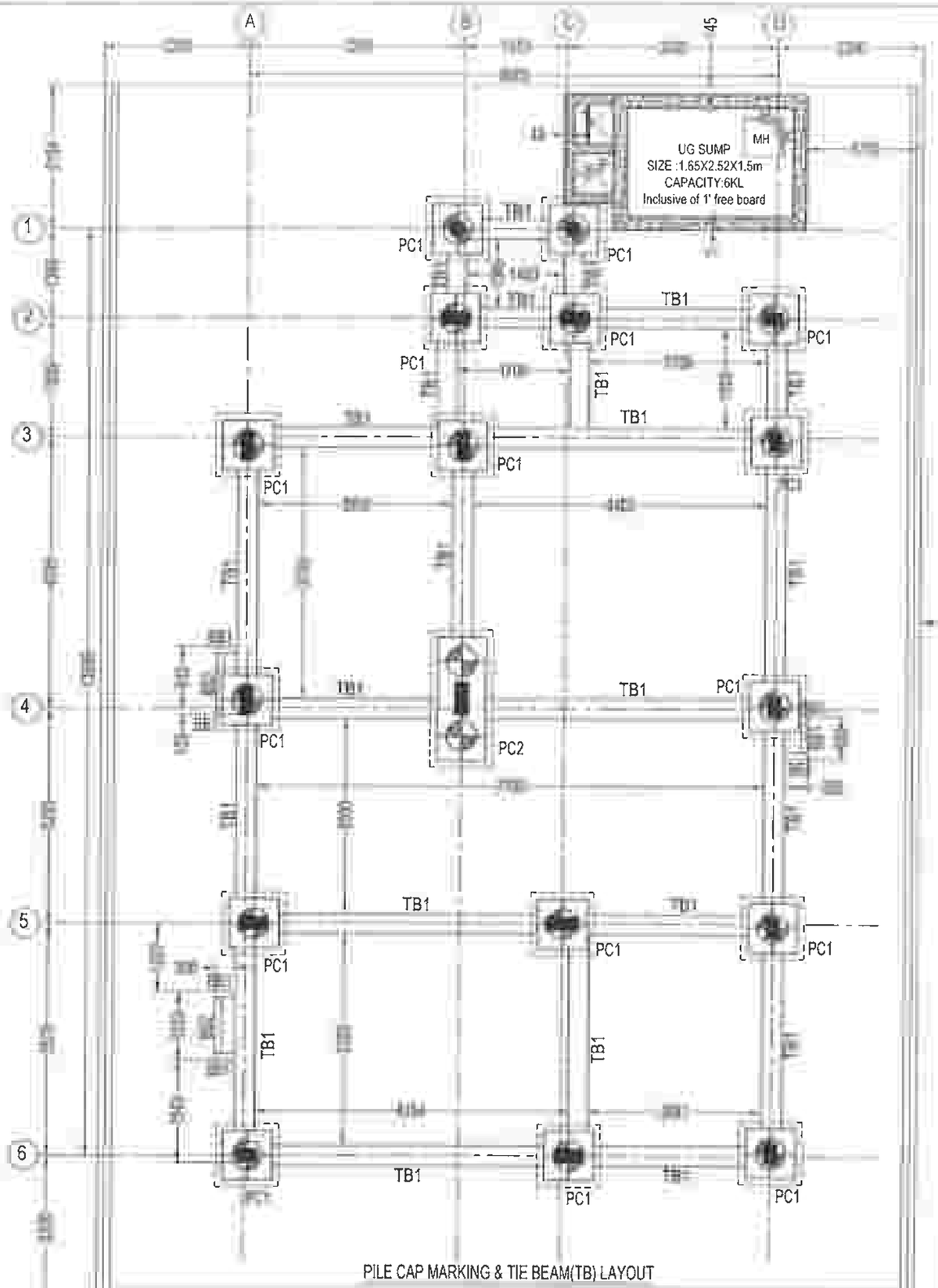
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safestructuralchennai@gmail.com
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP MARKING LAYOUT

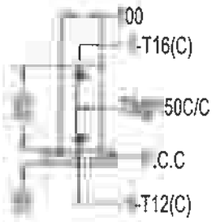
REV	DATE	PROJECT NO	SHEET.NO
R2	0/2	ST-2023-18-01	03



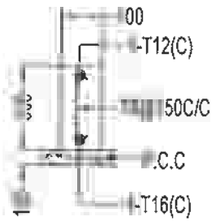
PILE CAP MARKING & TIE BEAM(TB) LAYOUT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

OUNDARY LINE



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS

LEGENDS:

P - PILE CAP
BB1 - BRACKET BEAM
TB - TIE BEAM

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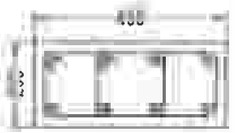
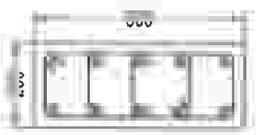
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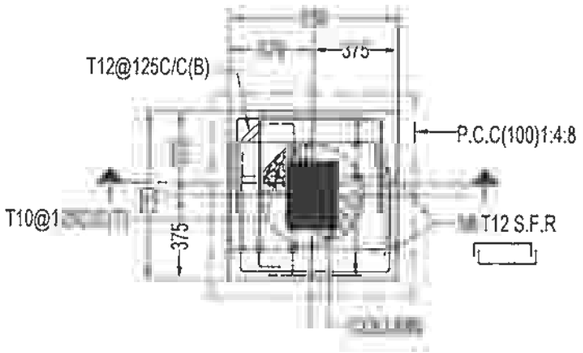
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) LAYOUT

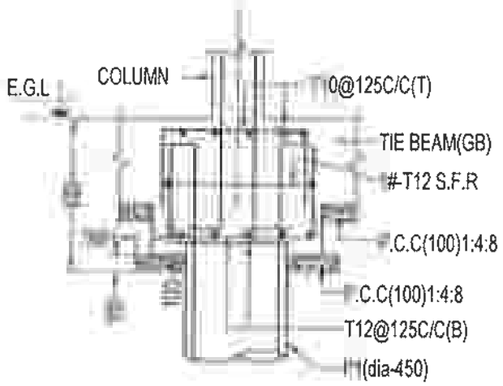
REV	DATE	PROJECT NO	SHEET.NO
R2	3/10/2	ST-2023-18-01	04

COLUMN REINFORCEMENT SCHEDULE

TERRACE FLOOR ROOF LEVEL				
TO	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M30 ⊕ - T12 ⊙ - T16				
	3-T16 + 3-T12	6-T12	4-T16 + 4-T12	4-T16 + 6-T12
COLUMN MARKED	C1	C2	C3	C4



PC1 - PLAN



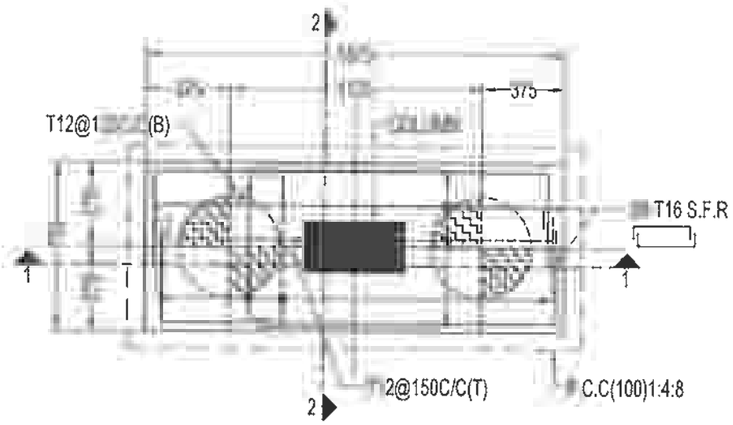
SECTION - 1 - 1

LEGENDS:

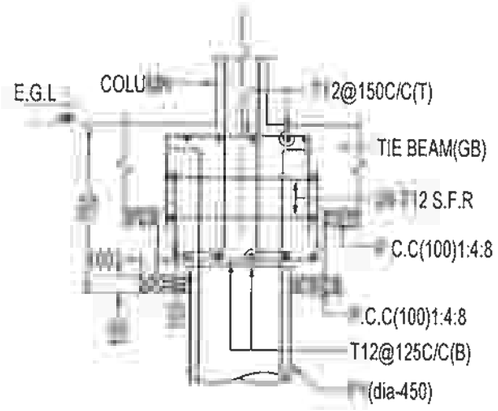
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

** S.F.R - SIDE FACE REINFORCEMENT

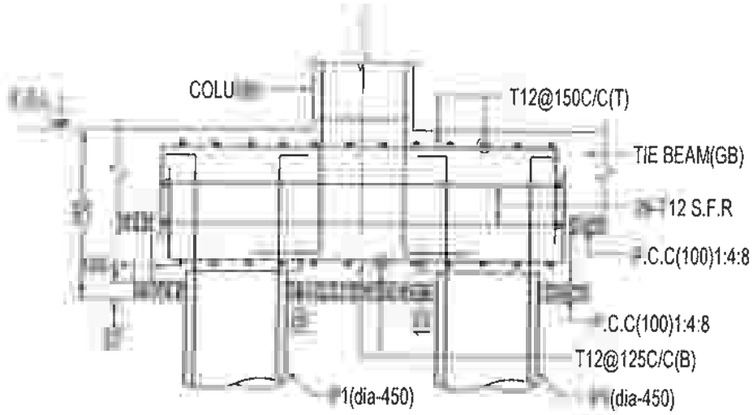
R. RAVIKUMAR
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PC2 - PLAN



SECTION - 2 - 2



SECTION - 1 - 1

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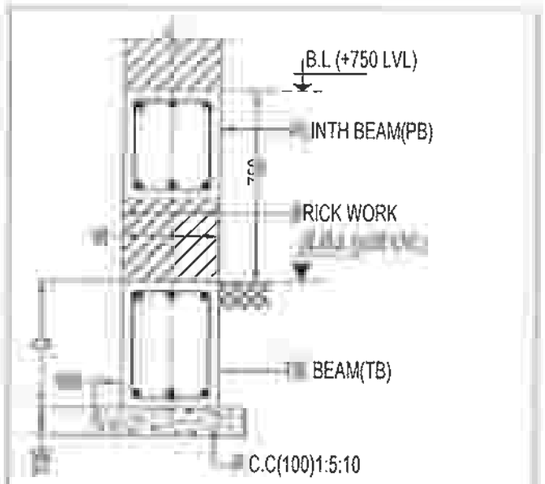
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

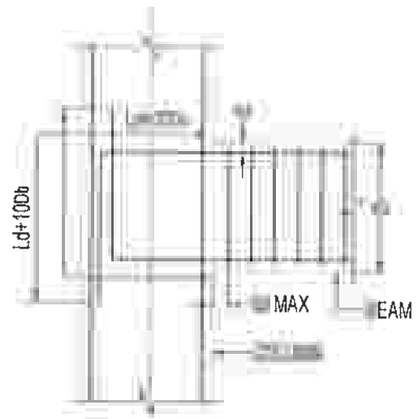
REV	DATE	PROJECT NO	SHEET NO
R2	0/202	ST-2023-18-01	05

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 x 400) TB1	2-T16(C) … 8ϕ@150C/C … C.C … 3-T16(C)	2-T16(C) … 8ϕ@150C/C … C.C … 3-T16(C)	3-T16(C) … 8ϕ@150C/C … C.C … 3-T16(C)



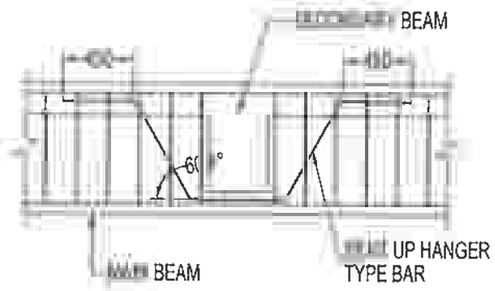
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



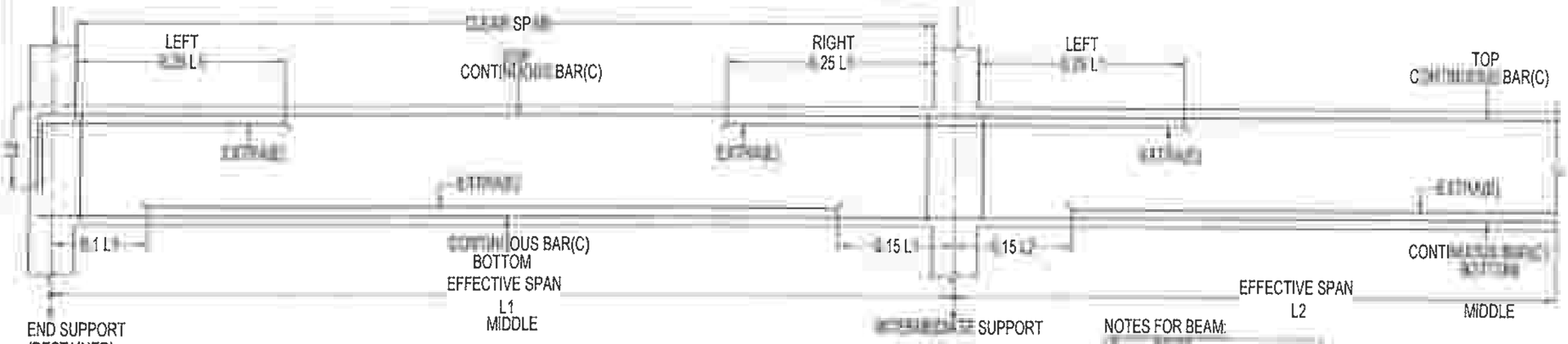
TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM:

B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

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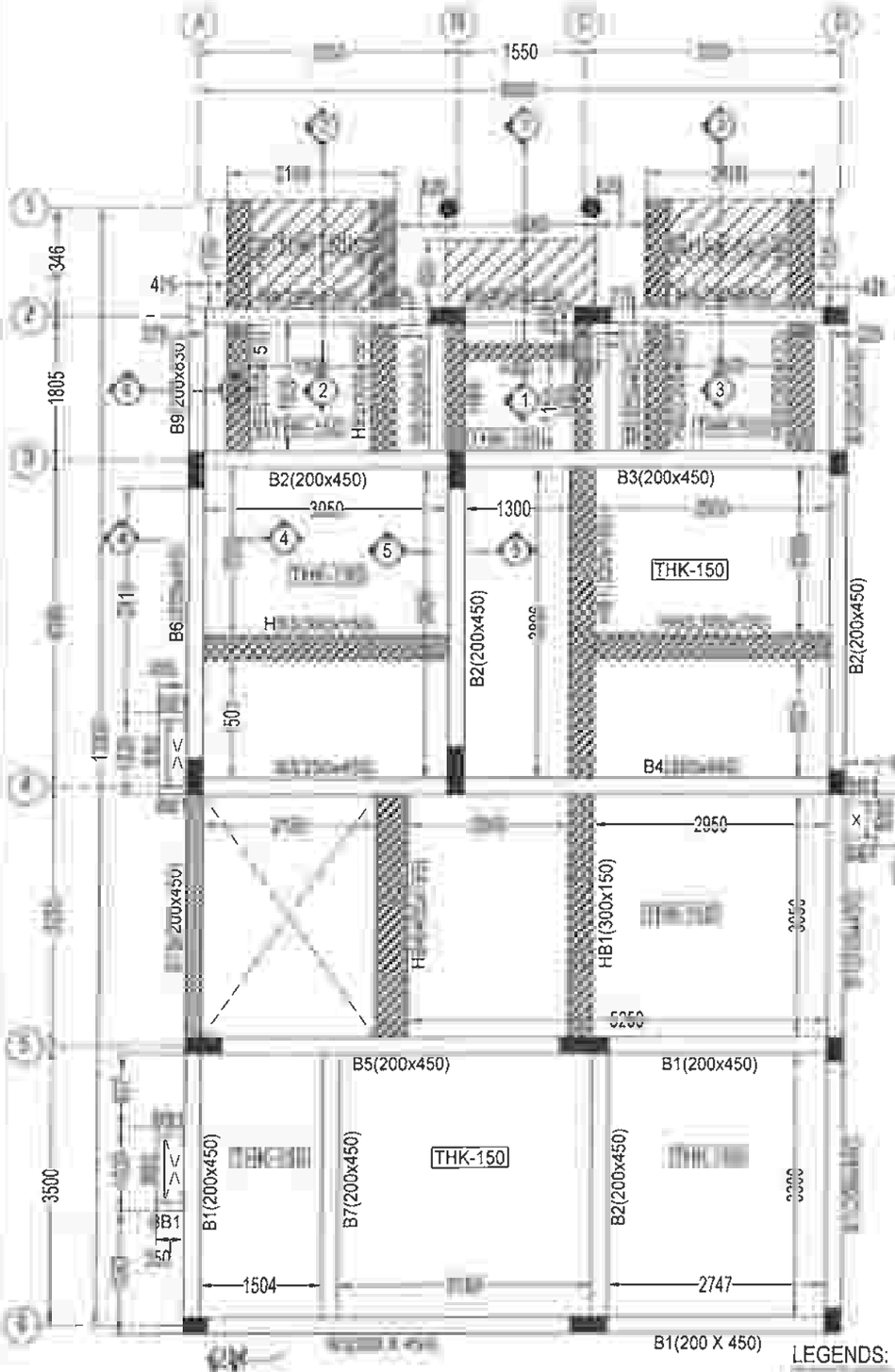
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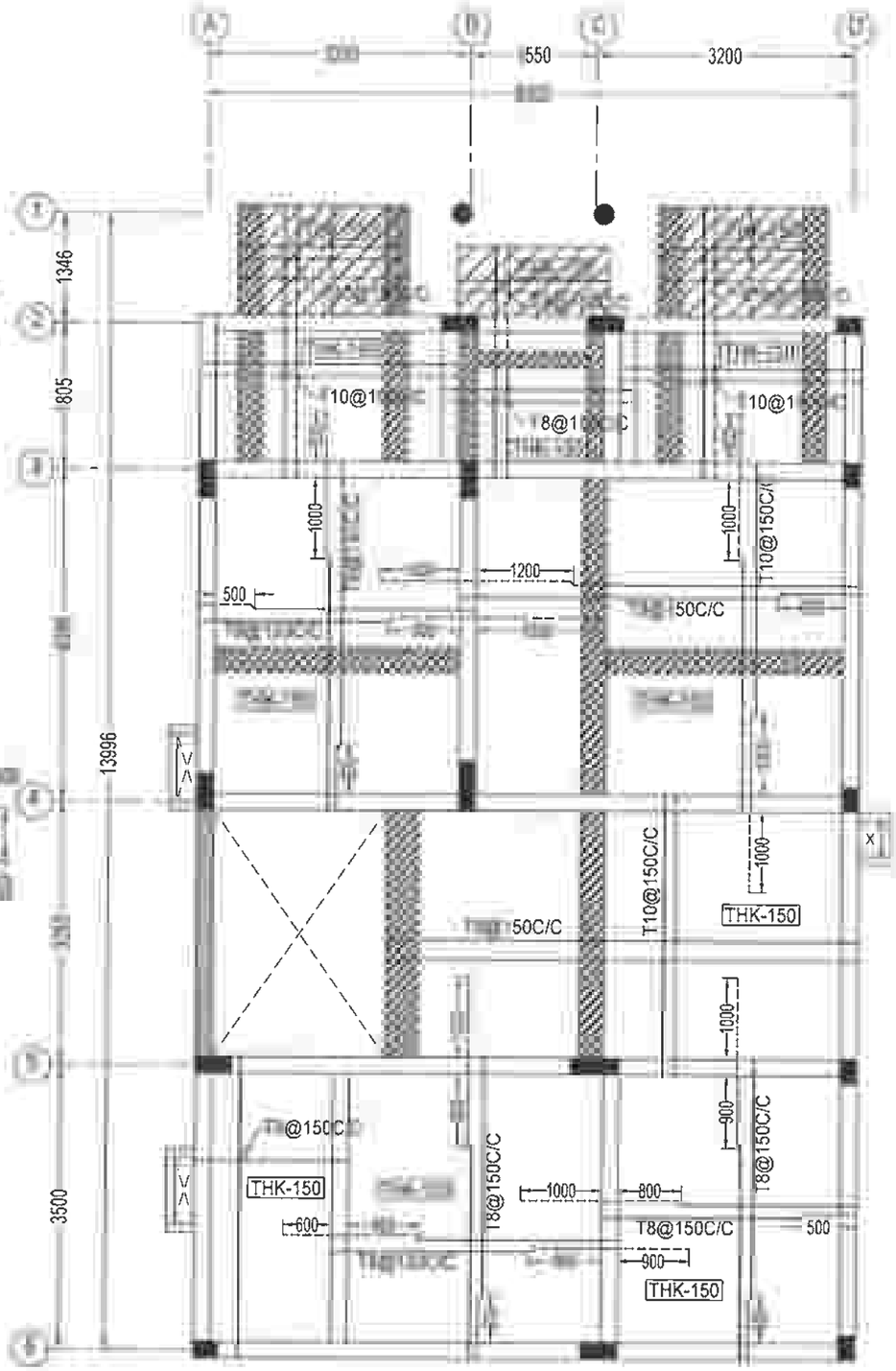
DRAWING NAME

TIE BEAM(TB) DETAILS

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	06



GROUND FLOOR ROOF BEAM LAYOUT



GROUND FLOOR ROOF SLAB DETAILS

LEGENDS:

- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- 100mm SLAB SUNKEN

LEGENDS

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

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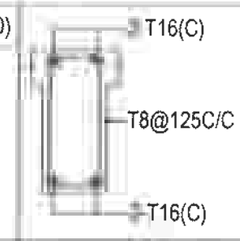
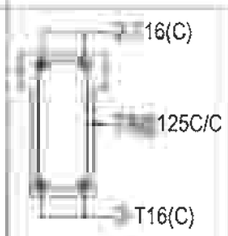
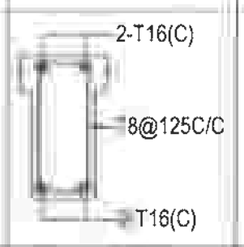
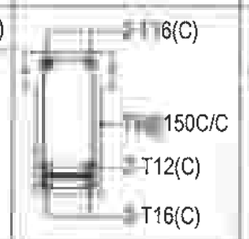
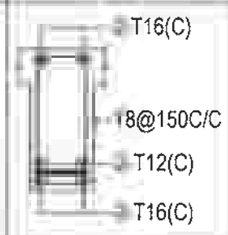
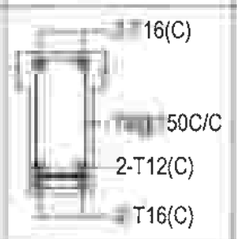
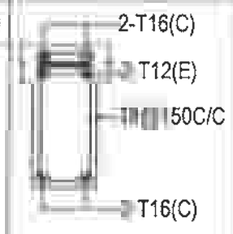
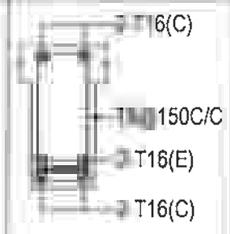
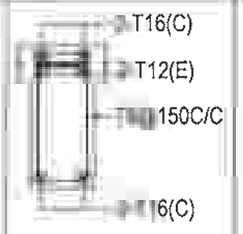
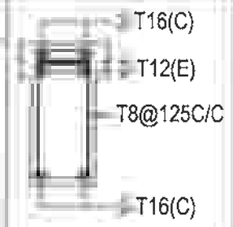
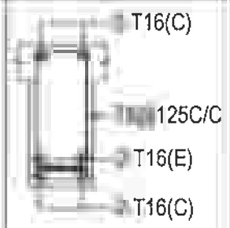
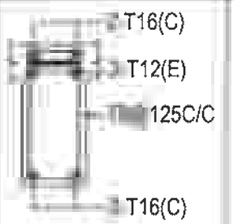
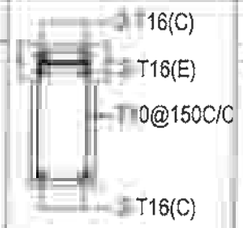
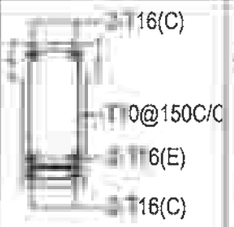
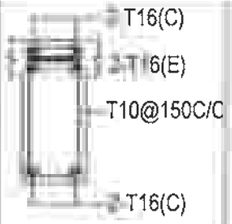
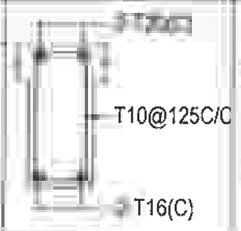
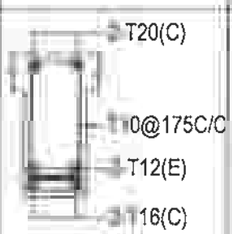
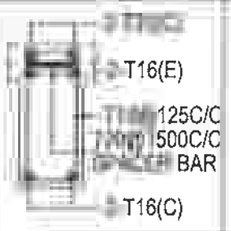
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SHEET	A3	☐ CONSTRUCTION

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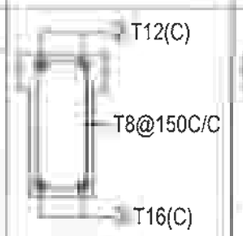
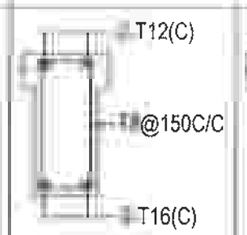
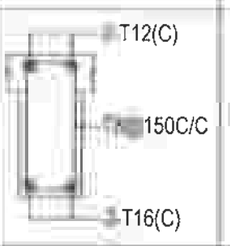
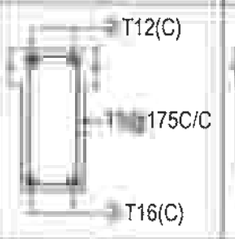
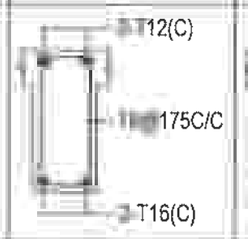
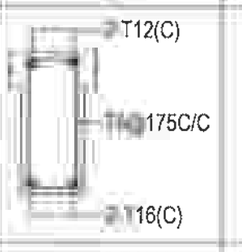
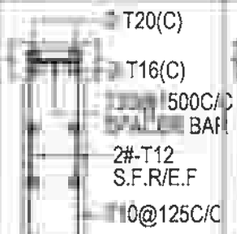
GROUND FLOOR ROOF BEAM LAYOUT

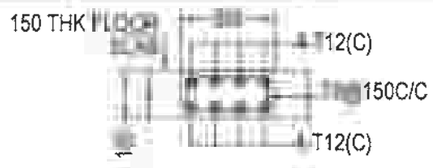
REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 450) B8				
(200 X 830) B9				



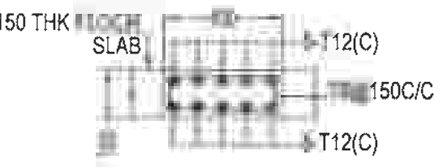
HB1 - 300 X 150
C/S DETAILS



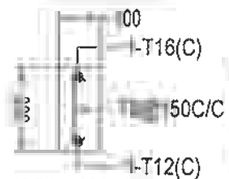
HB2 - 300 X 150
C/S DETAILS



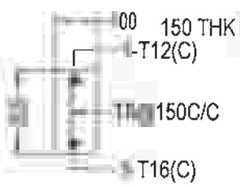
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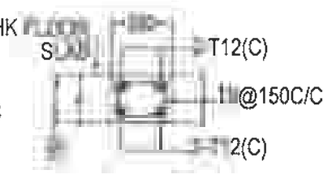
HB4 - 400 X 150
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



HB5 - 200 X 150
C/S DETAILS

R. R...MA...
...R GRADE - 1 (CE)
Engg)
.../19/12/231 (CMDA)

...OUS BAR
...EXTRA BAR
...FACE
...REINFORCEMENT
...EACH FACE

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TECHNICAL NOTES

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ONLY WRITTEN DIMENSION TO BE FOLLOWED.

ANY DISCREPANCIES NOTICED IN THE DRG SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.

EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND

ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M30 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT
- A. COLUMNS = 40mm
- B. PILE = 40mm
- C. PILE CAP = 50mm
- D. TIE BEAM = 30mm
- E. FLOOR BEAM = 30mm
- F. FLOOR SLAB = 20mm

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

...REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 52)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

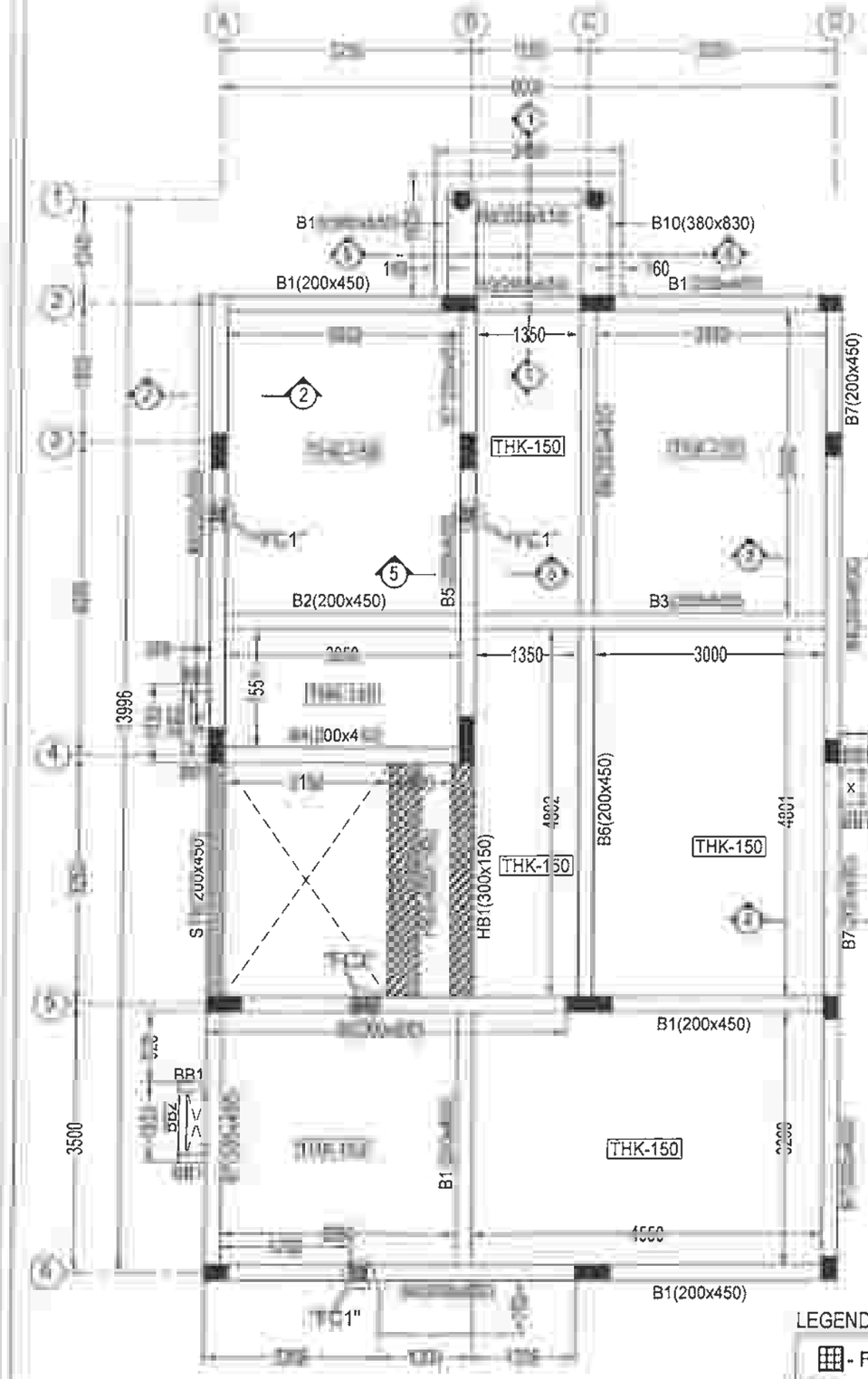
SAFE STRUCTURAL CONSULTANCY
TERA ... SRI JU ... THAR ...
CHENNAI 600 119 ... COCHIN-682 301
CONTACT : +91 9087715267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

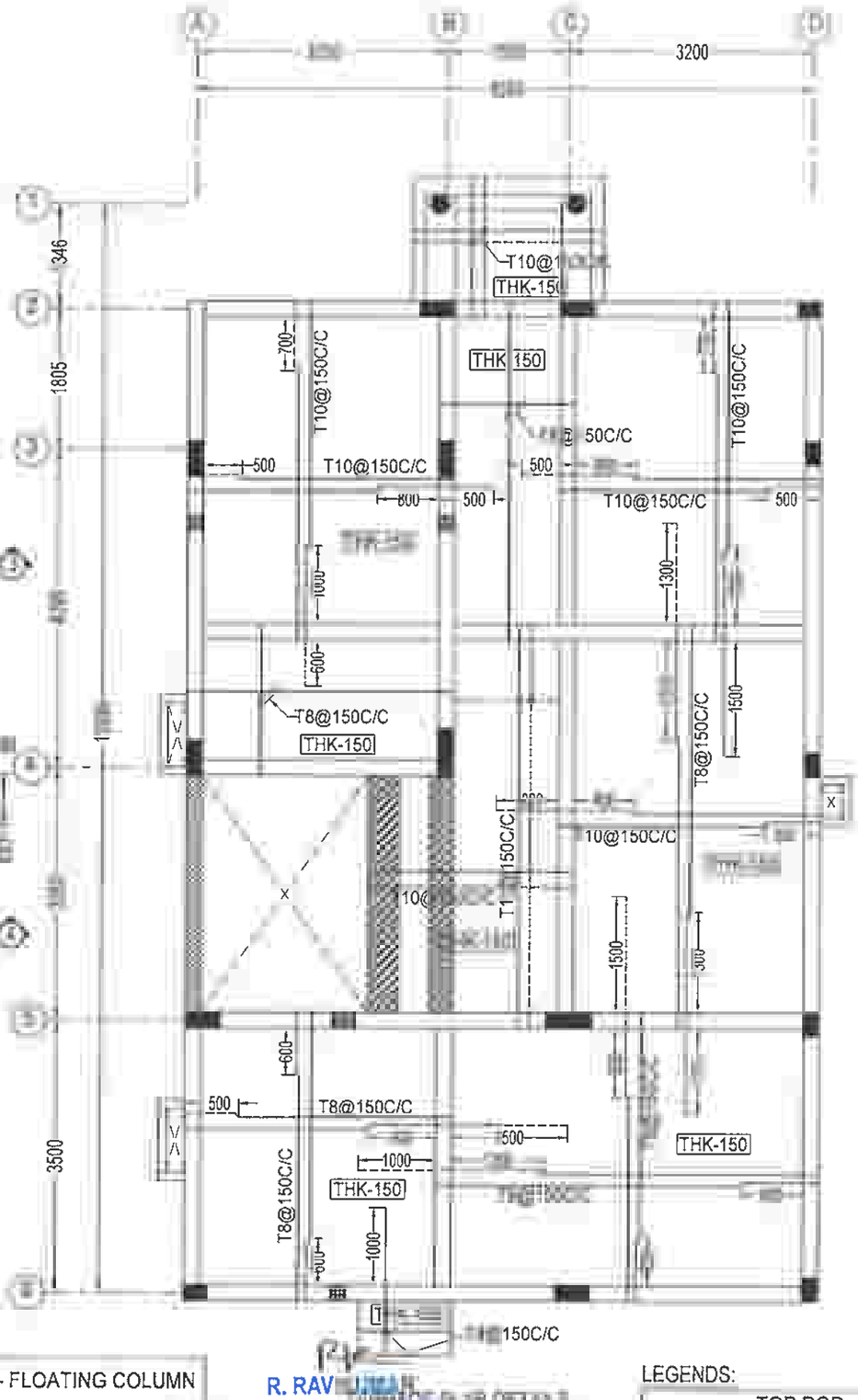
DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R2	...	ST-2023-18-01	08



TERRACE BEAM LAYOUT



LEGENDS:

- FC - FLOATING COLUMN
- HB - HIDDEN BEAM
- STB - STRINGER BEAM

LEGENDS:

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

R. RAV... UCTURAL ENGI...
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

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   - F. FLOOR SLAB = 20mm
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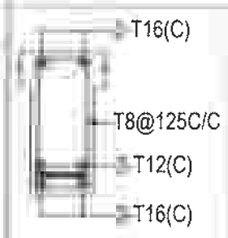
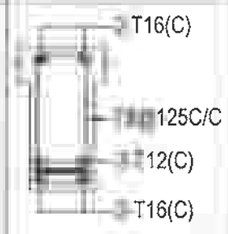
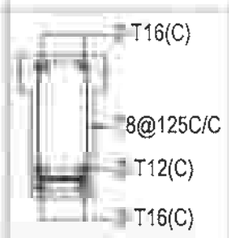
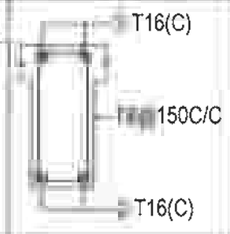
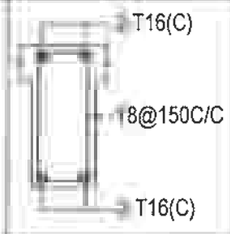
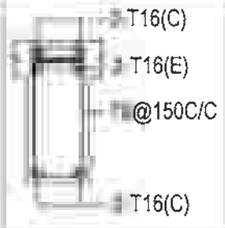
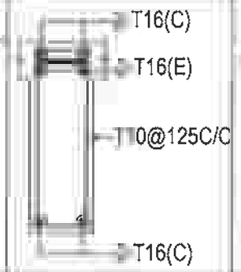
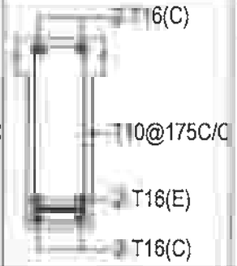
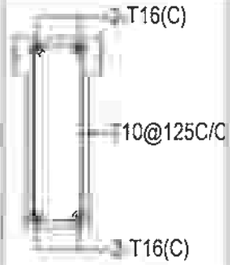
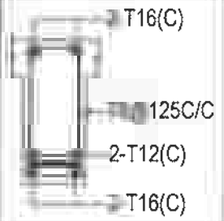
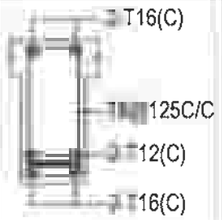
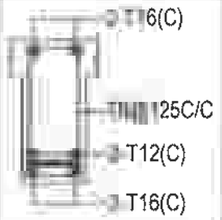
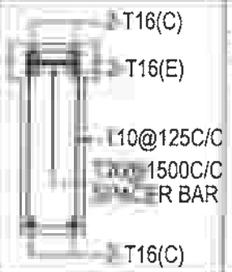
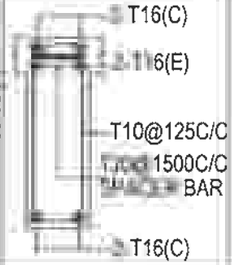
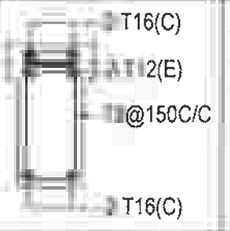
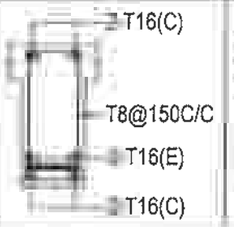
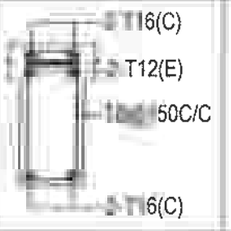
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DRAWING NAME

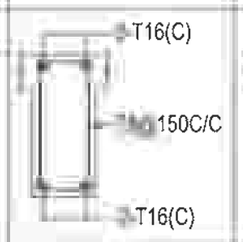
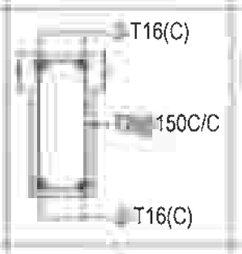
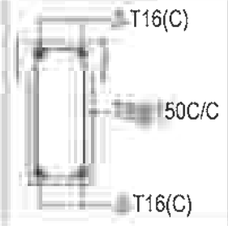
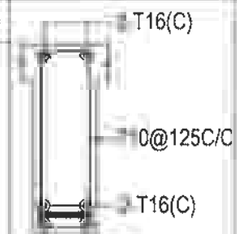
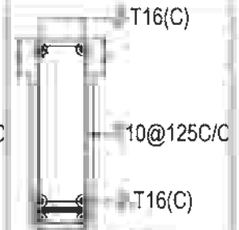
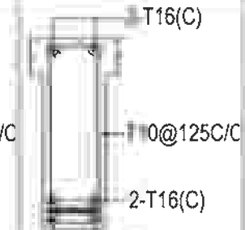
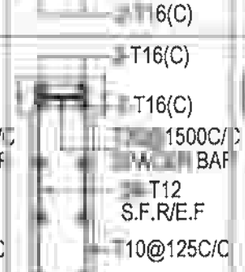
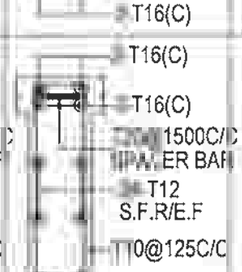
TERRACE BEAM & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	09

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				- - - - -
(200 X 450) B2				- - - - -
(200 X 600) B3				- - - - -
(200 X 450) B4				- - - - -
(200 X 600) B5				- - - - -
(200 X 450) B6				- - - - -

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				- - - - -
(200 X 600) B8				- - - - -
(200 X 830) B9				- - - - -

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Regn No - SE/GR-1/19/12/231 (CMDA)

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- EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND.
- ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M30 GRADE
- 'Ø' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT
  - A COLUMNS = 40mm
  - B PILE = 40mm
  - C. PILE CAP = 50mm
  - D. TIE BEAM = 30mm
  - E. FLOOR BEAM = 30mm
  - F. FLOOR SLAB = 20mm
- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- 1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

N MENT BARS

) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

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- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE., NO-50, EAST COAST ROAD, PANAIYUR, ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 52) @ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
TERA
SN JU
THAR
CHENNAI 600 117 COCHIN 682 301
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	10

TERRACE BEAM REINFORCEMENT SCHEDULE

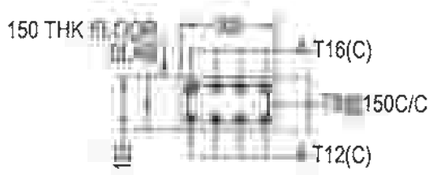
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 830)	4-T16(C)	4-T16(C)	4-T16(C)
B10	3-T16(C) T2@1500C/C ER BAR 2-T12 S.F.R/E.F T10@125C/C 4-T16(C)	3-T16(C) T2@1500C/C ER BAR 2-T12 S.F.R/E.F T10@125C/C 4-T16(C)	3-T16(C) T2@1500C/C ER BAR 2-T12 S.F.R/E.F T10@125C/C 4-T16(C)

LEGENDS

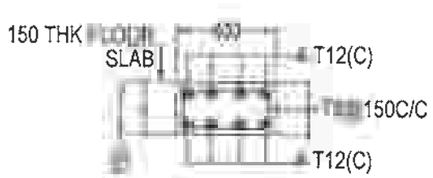
C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

COLUMN REINFORCEMENT SCHEDULE

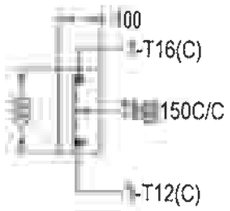
H0=T8@125C/C	H0=T8@125C/C
H1=T8@175C/C	H1=T8@175C/C
200 x 300	300 x 400
4-T12	4-T16 + 2-T12
FC1	FC2



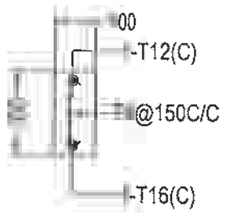
HB1 - 300 X 150
C/S DETAILS



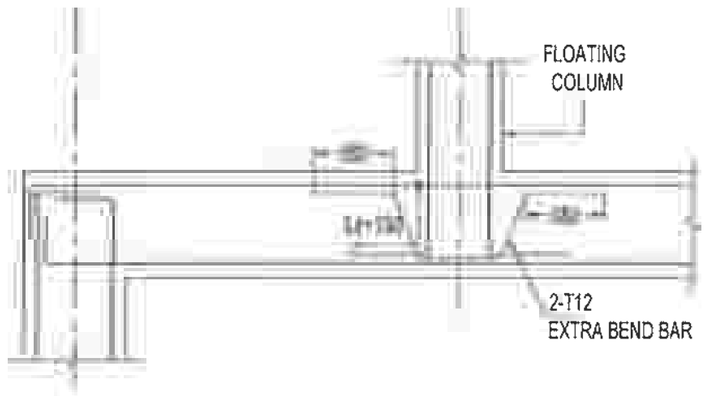
HB2 - 400 X 150
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



TYPICAL FLOATING COLUMN DETAILS

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- C. PILE CAP = 50mm
- D. TIE BEAM = 30mm
- E. FLOOR BEAM = 30mm
- F. FLOOR SLAB = 20mm

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1.THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
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1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 52)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

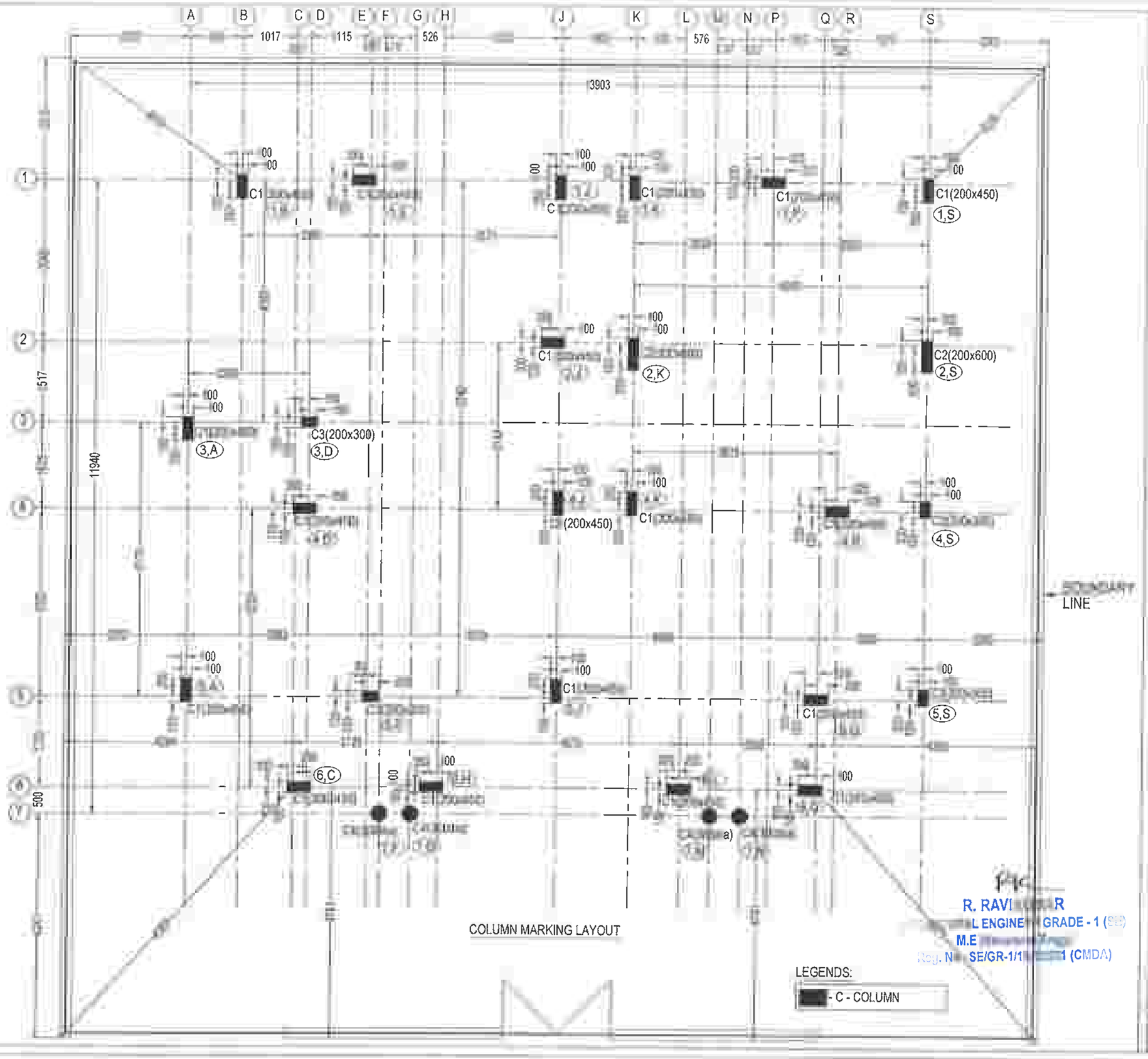
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Safe Structural Consultancy
CHENNAI 600 117 COCHIN 682 301
CONTACT : +91 9087735367
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

R. R
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME
TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	11



COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M30 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS	= 40mm
B. PILE	= 40mm
C. PILE CAP	= 50mm
D. TIE BEAM	= 30mm
E. PLINTH BEAM	= 30mm
F. FLOOR BEAM	= 30mm
G. FLOOR SLAB	= 20mm

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LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

FOR REINFORCEMENT

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LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO 22 ,
MANIMEGALAI NAGAR,
3RD STREET,S.KOLATHUR,
CHENNAI 600 132
CONTACT : +91 9087225267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

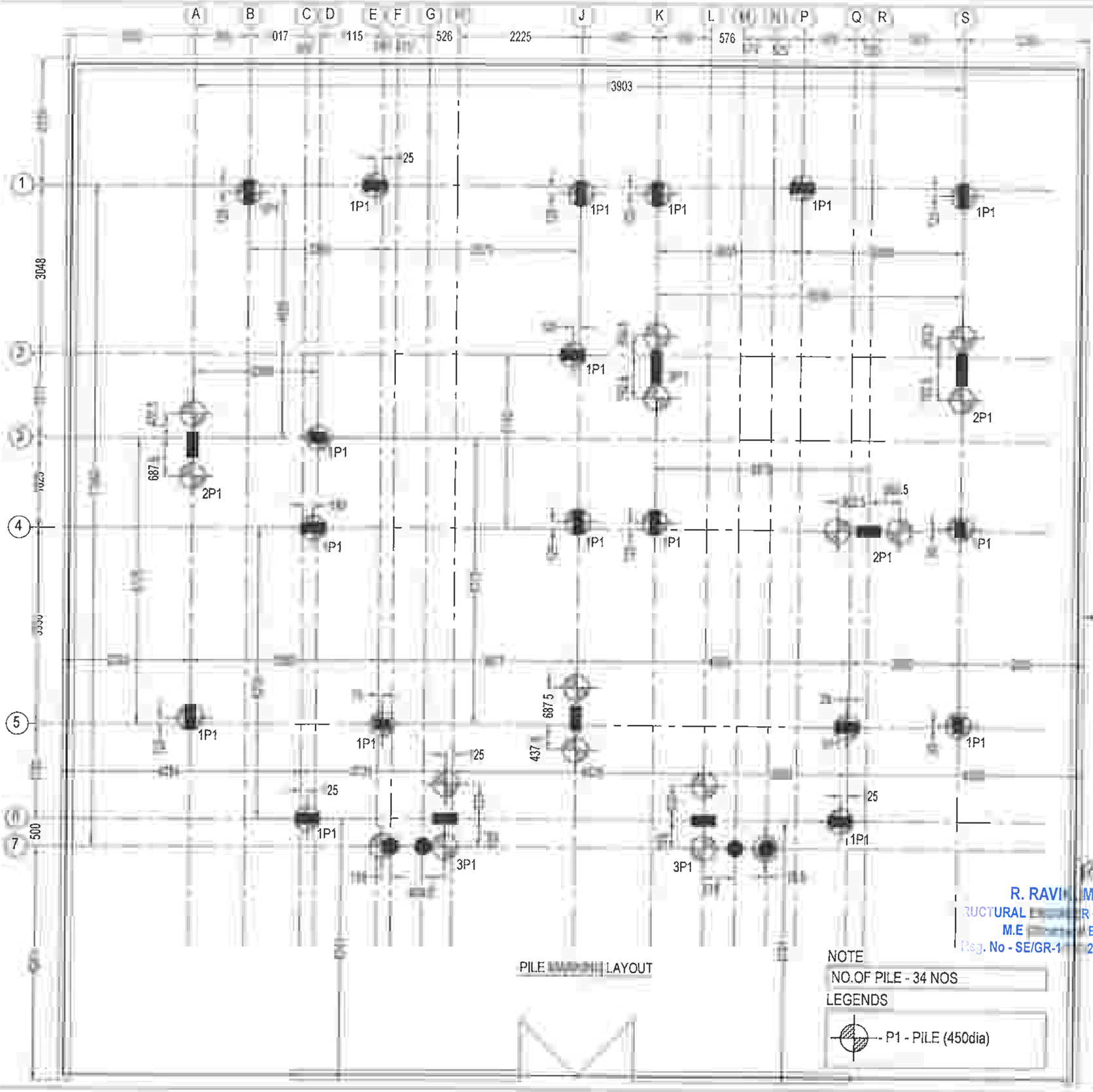
R. RAVI[illegible]R
[illegible]L ENGINE[illegible] GRADE - 1 ([illegible])
M.E[illegible]
Reg. N[illegible]SE/GR-1/1[illegible]1 (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV.	DATE	PROJECT NO	SHEET NO
R1	[illegible]	ST-2024-18-08	01



NOTE

NO.OF PILE - 34 NOS

LEGENDS

P1 - PILE (450dia)

R. RAVI KUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Struct Engg)
Reg. No - SE/GR-1/2231 (CMDA)

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ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

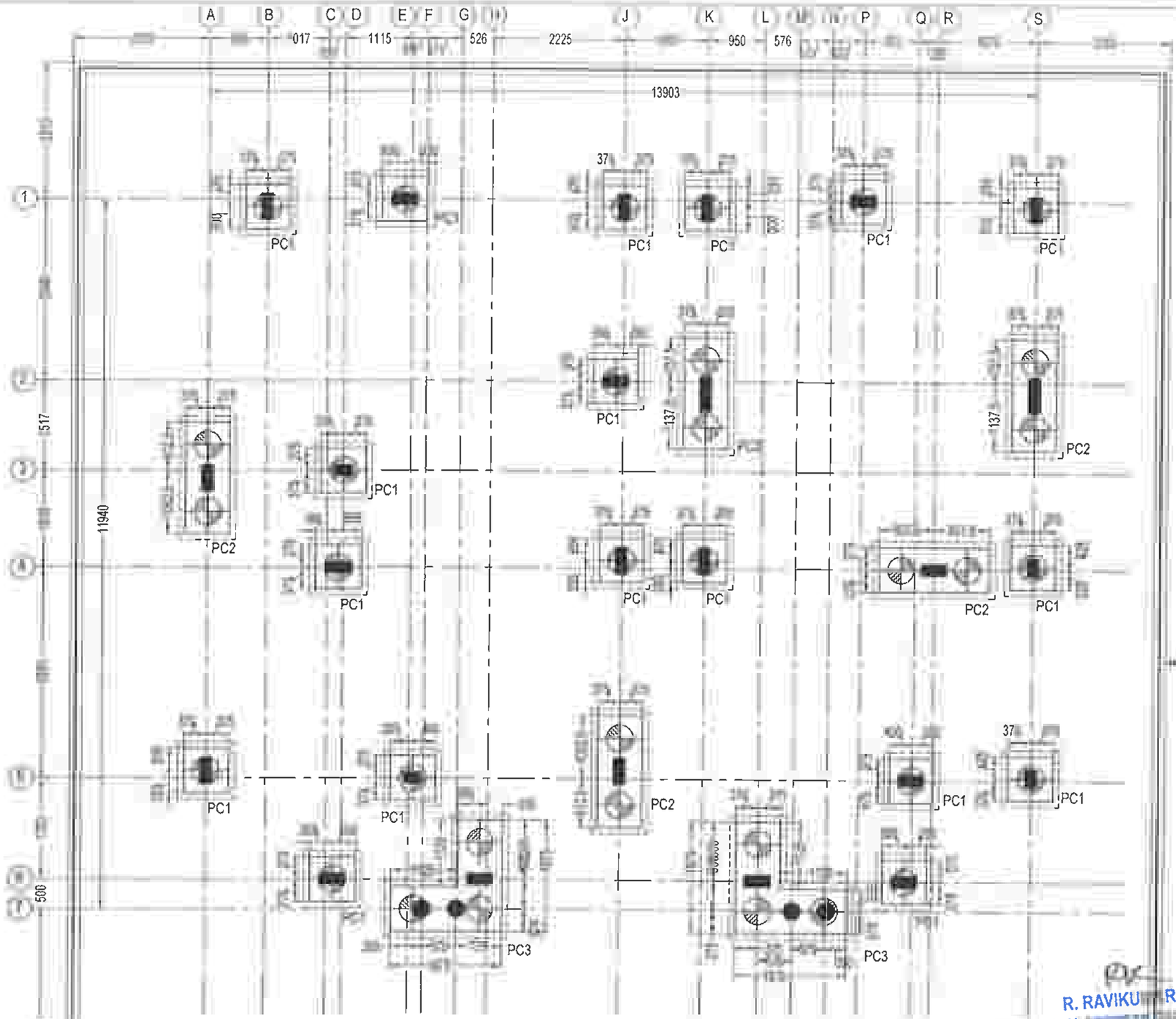
SAFE STRUCTURAL CONSULTANCY
Safe Structural Consultancy
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CONTACT. : +91 9087721267
safestructuralchennai@gmail.com
Web. : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2024-18-08	02



PILE CAP MARKING LAYOUT

LEGENDS:

PC - PILE CAP

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6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 2000
   ALL RCC MEMBERS IN M30 GRADE
7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
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   - B. PILE = 40mm
   - C. PILE CAP = 50mm
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JOINTS FOR REI

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
CHENNAI-600 117
CONTACT : +91 9094732567
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

R. RAVIKU R
CTURAL - 1 (CMDA)
M.E (Structu gg)
Reg. No - SE/GR-1/1 1 (CMDA)

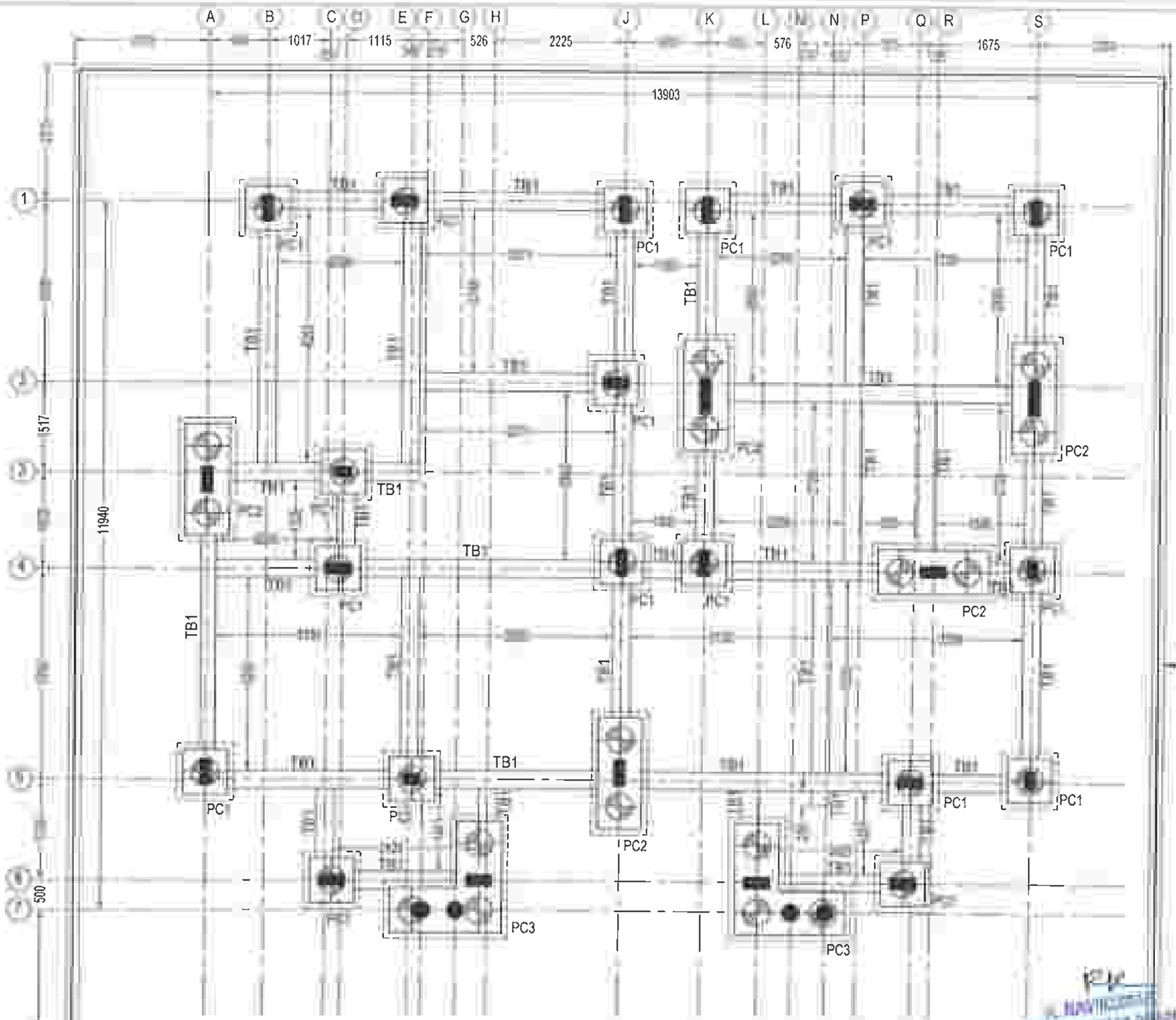
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2024-18-08	03

BOUNDARY LINE



PILE CAP MARKING & TIE BEAM(TB) LAYOUT

LEGENDS

PC - PILE CAP

TB - TIE BEAM

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PROJECT

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@ ECR, CHENNAI.

ARCHITECT

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STRUCTURAL CONSULTANT

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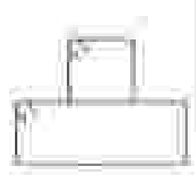
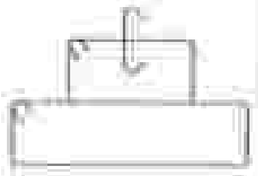
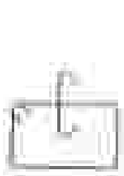
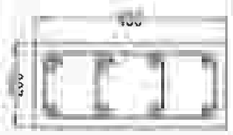
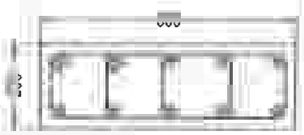
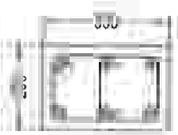
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

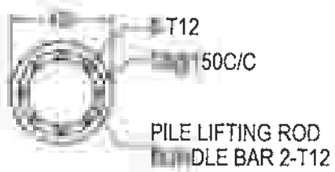
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PILE CAP MARKING & TIE BEAM(TB) LAYOUT

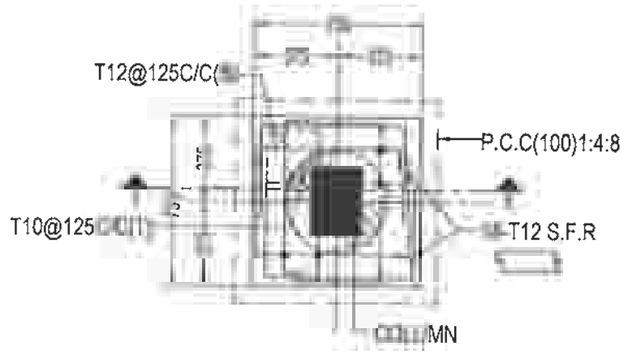
REV.	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	04

COLUMN REINFORCEMENT SCHEDULE:

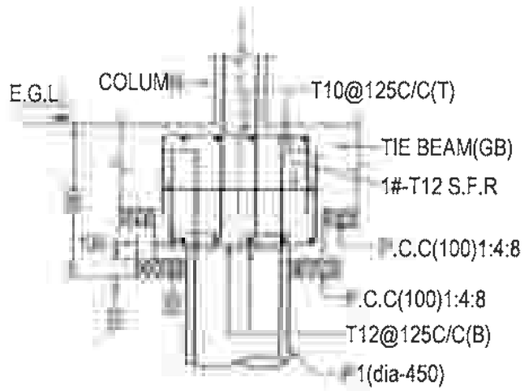
TERRACE FLOOR ROOF LEVEL TO FOOTING MIX-M30 ⊙- T16 ⊕- T12				
	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
				
	8-T16	10-T16	4-T16 + 2-T12	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3	C4



PILE (P1) - PLAN



PC1 - PLAN

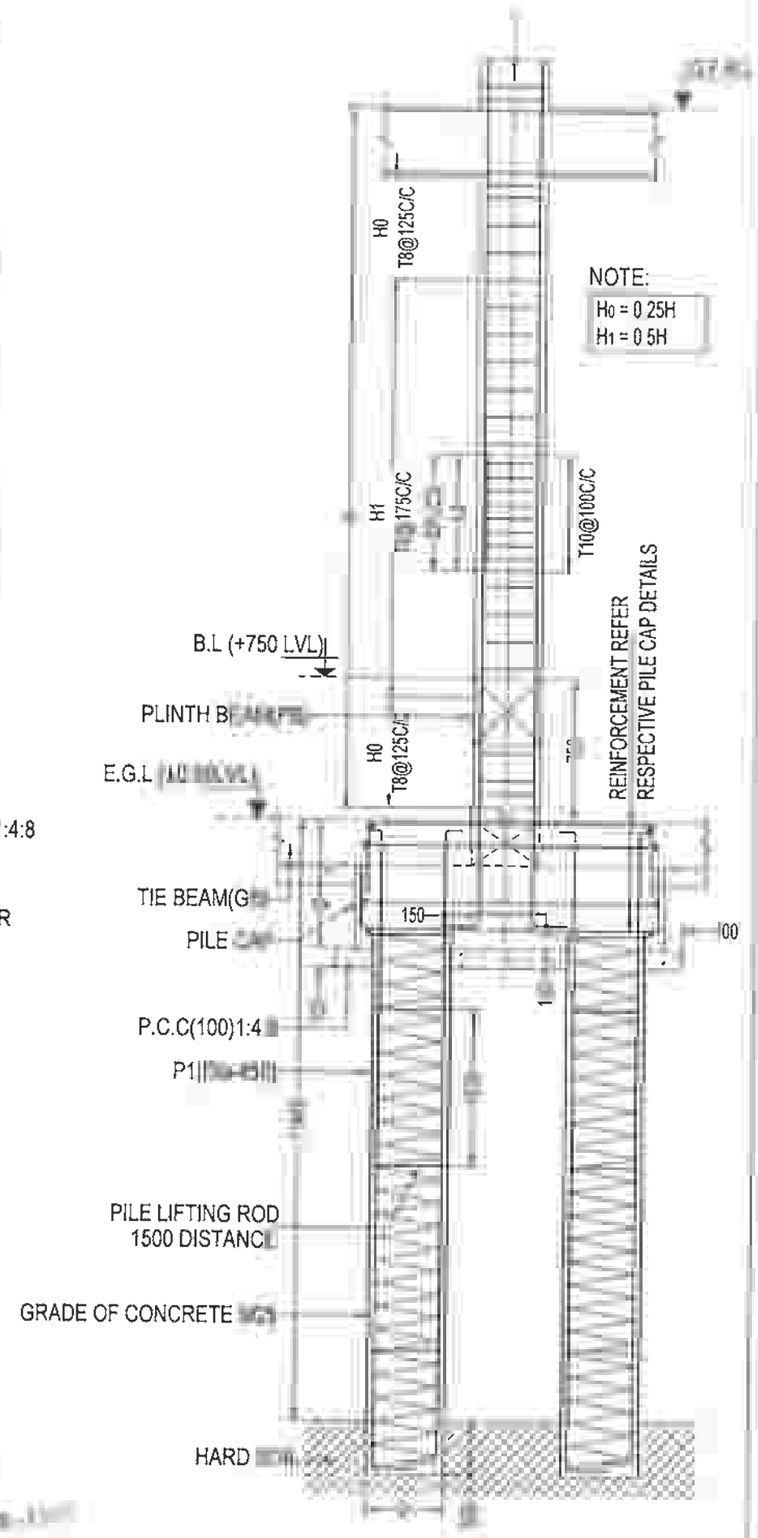


SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

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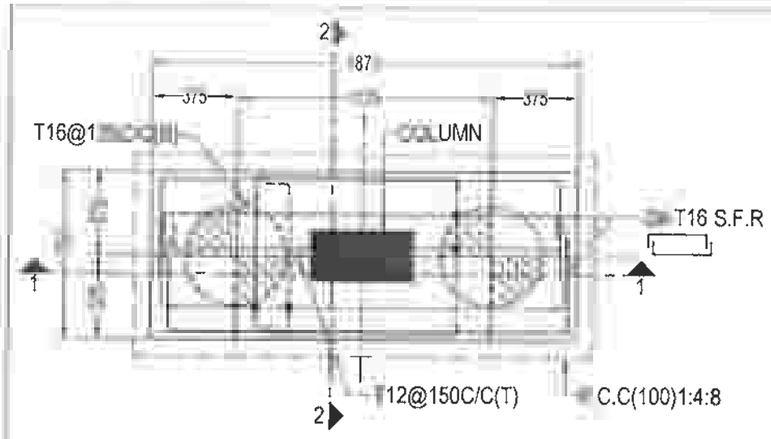
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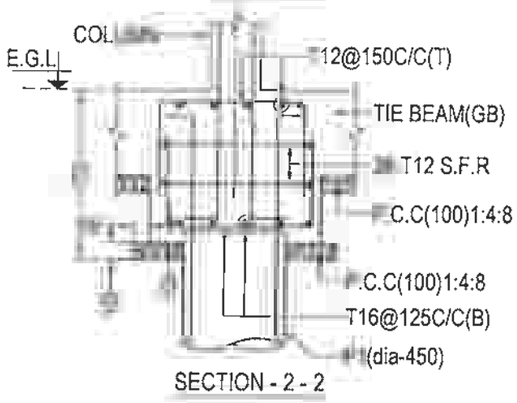
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

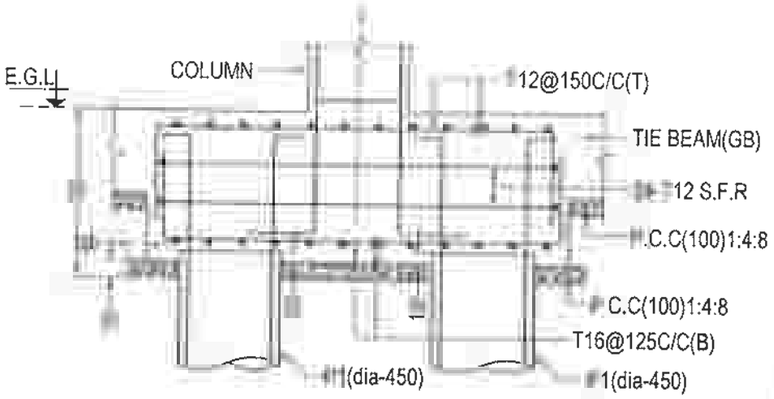
REV	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	05



PC2 - PLAN



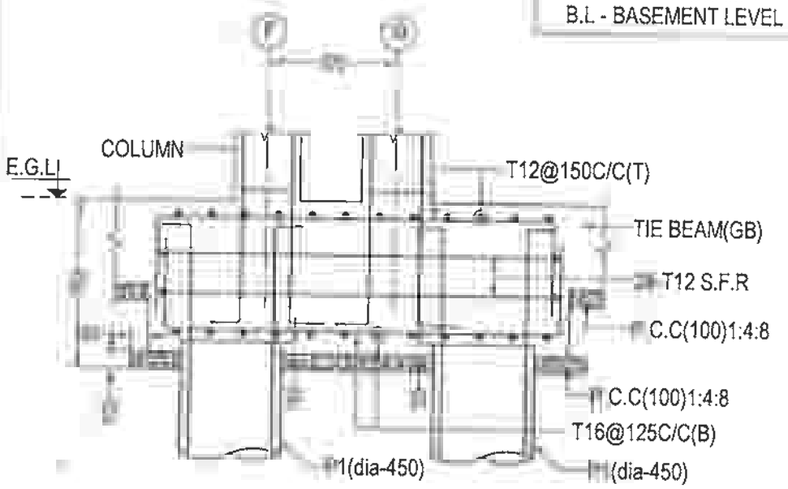
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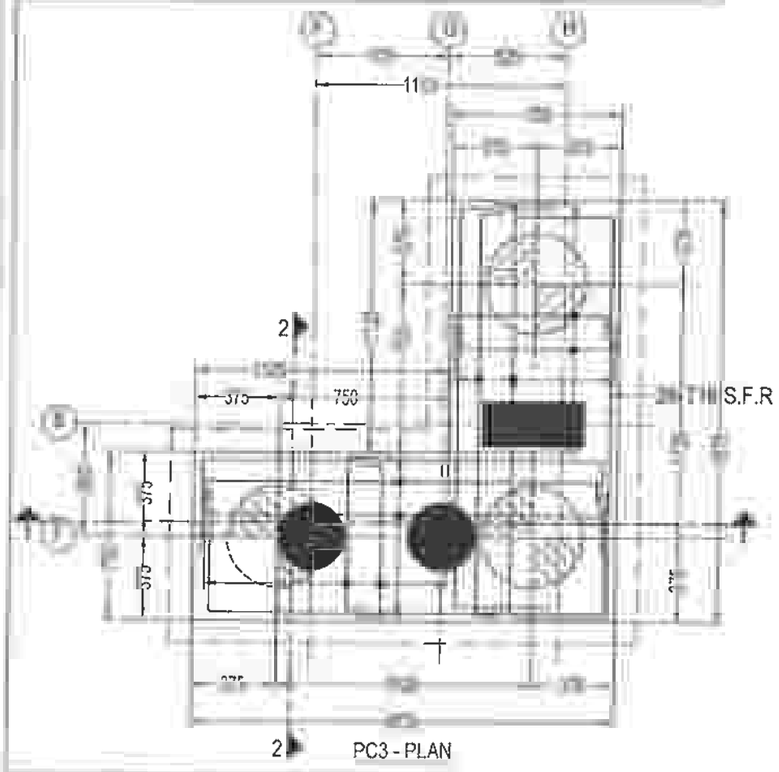
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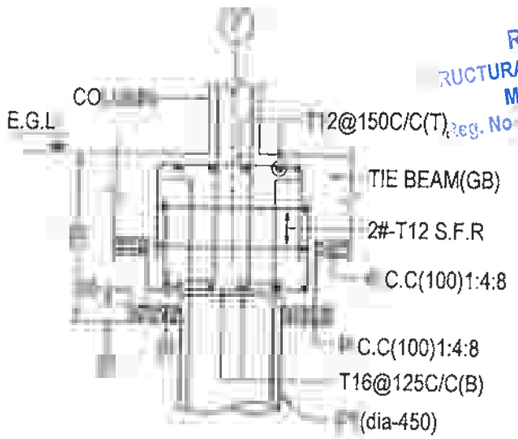
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



SECTION - 1 - 1



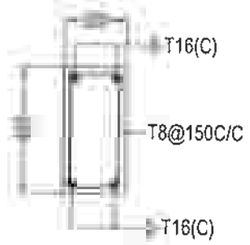
PC3 - PLAN



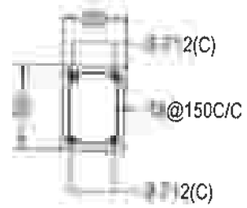
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TIE BEAM (TB) DETAILS:

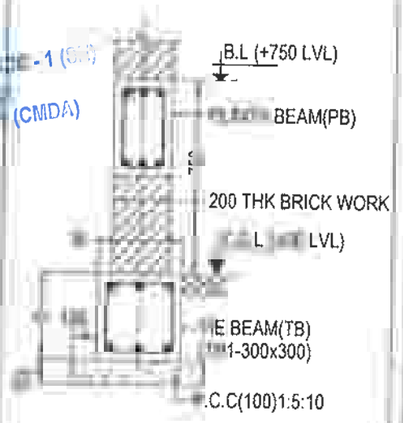
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT
(300 X 300) TB1	



PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS



TYPICAL C/S TIE BEAM(TB) &

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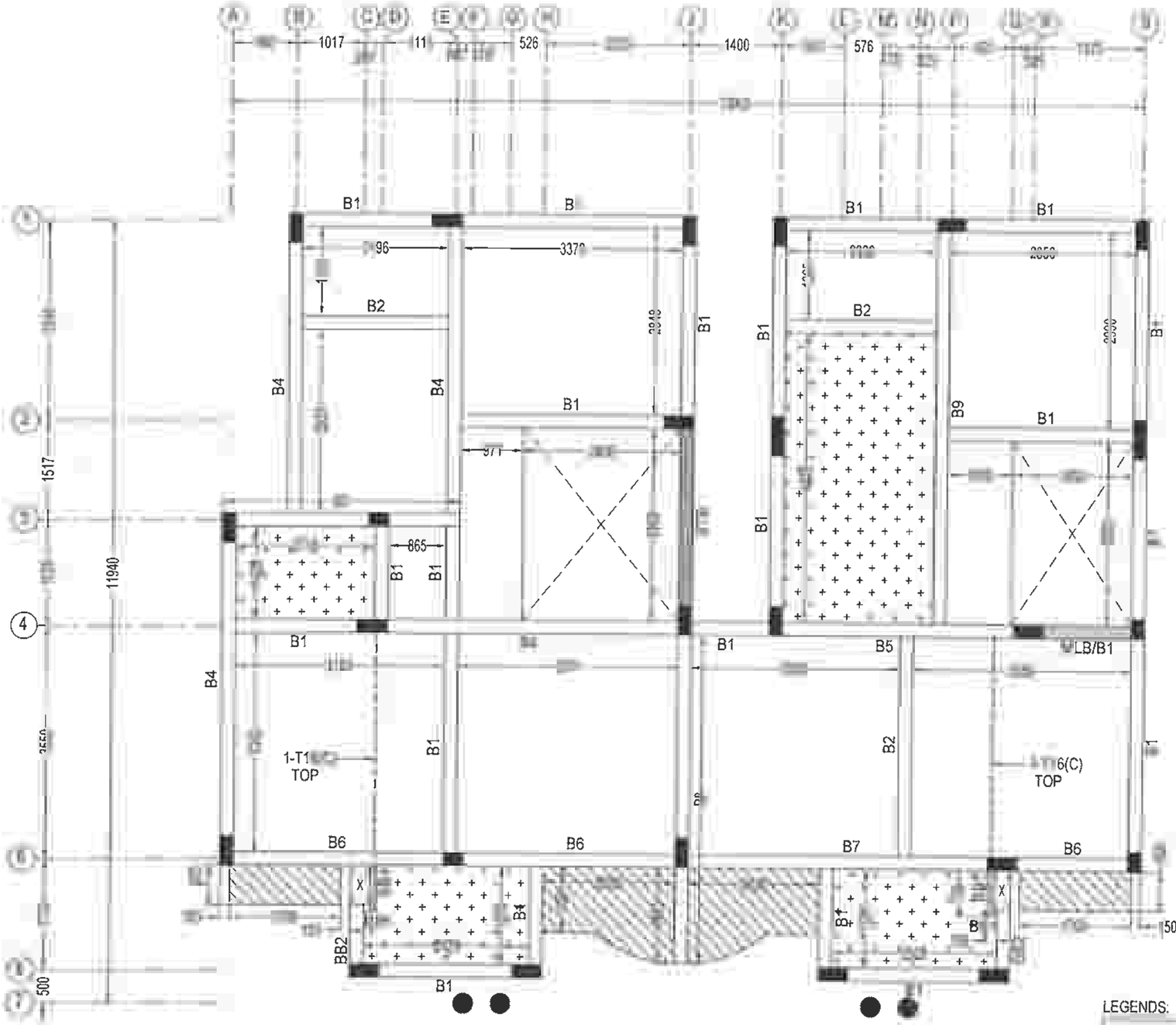
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DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

& TIE DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	06



GROUND FLOOR ROOF BEAM LAYOUT

LEGENDS:

- BB - BRACKET BEAM
- - TOILET SUNKEN
- - OPENING
- - MLB - MID LANDING BEAM
- - STB - STRINGER BEAM
- - 100mm SLAB SUNKEN

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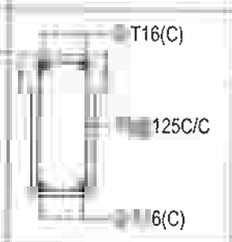
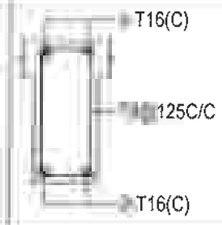
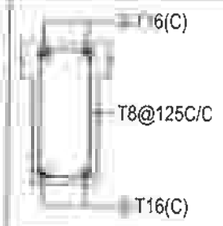
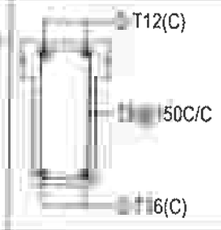
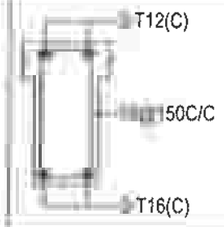
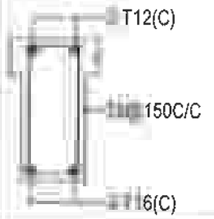
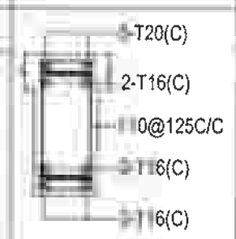
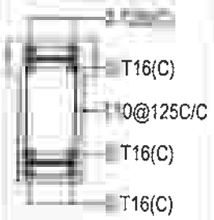
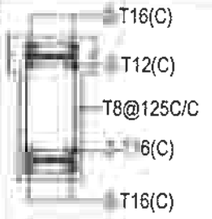
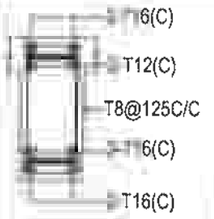
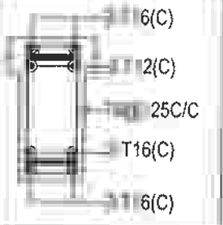
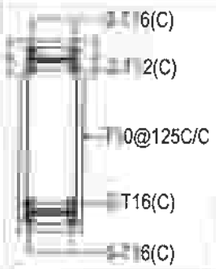
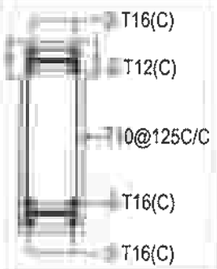
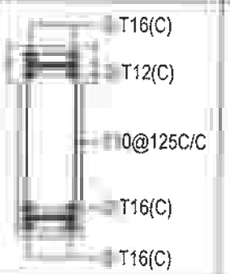
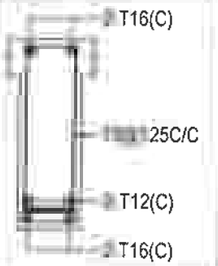
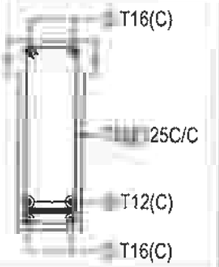
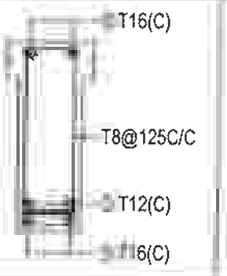
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

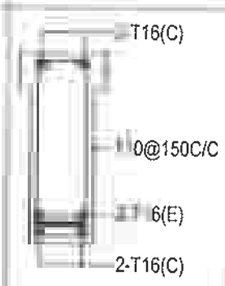
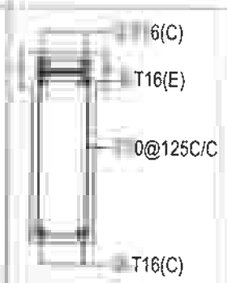
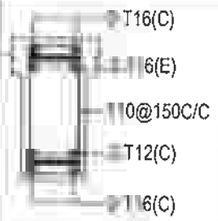
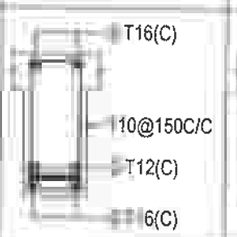
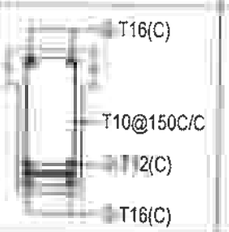
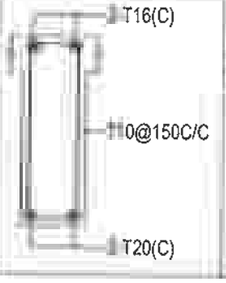
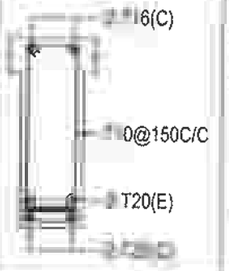
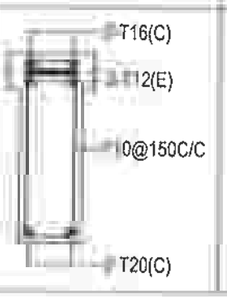
GROUND FLOOR ROOF BEAM LAYOUT

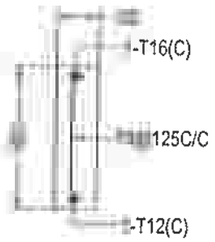
REV	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

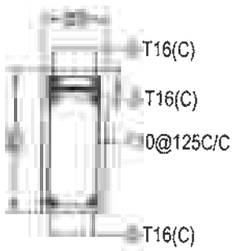
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 600) B5				
(200 X 600) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B7				
(200 X 450) B8				
(200 X 600) B9				



BB1 - 100 X 450
C/S DETAILS



BB2 - 200 X 450
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M30 GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

A. COLUMNS	=	40mm
B. PILE	=	40mm
C. PILE CAP	=	50mm
D. TIE BEAM	=	30mm
E. PLINTH BEAM	=	30mm
F. FLOOR BEAM	=	30mm
G. FLOOR SLAB	=	20mm

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDA

1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR MENT

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

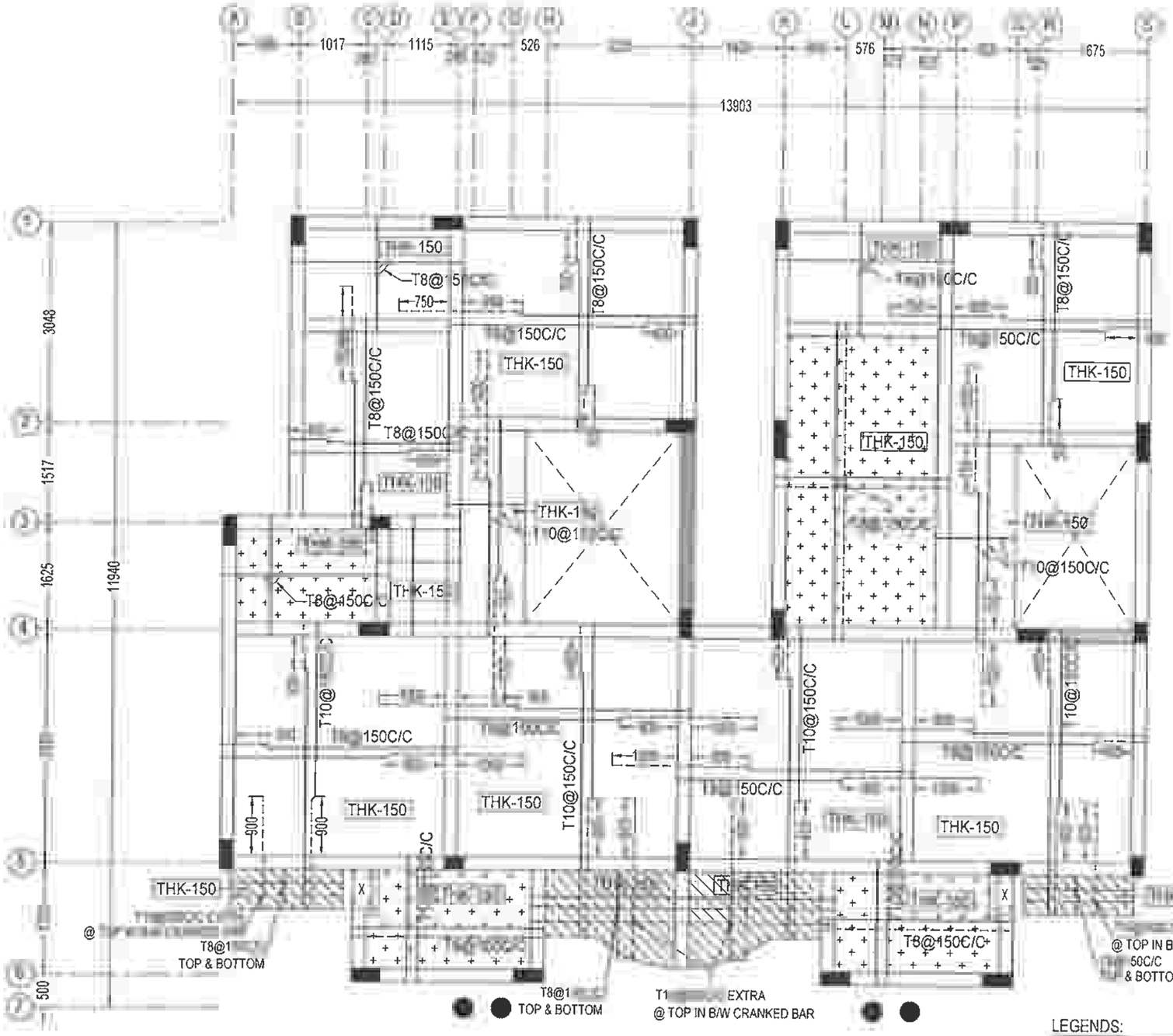
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CHENNAI 600 117
CONTACT : +91 9087745247
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET
R1		ST-2024-18-08	08



LEGENDS:

- BOTTOM ROD
- TOP ROD
- THK - THICKNESS

GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

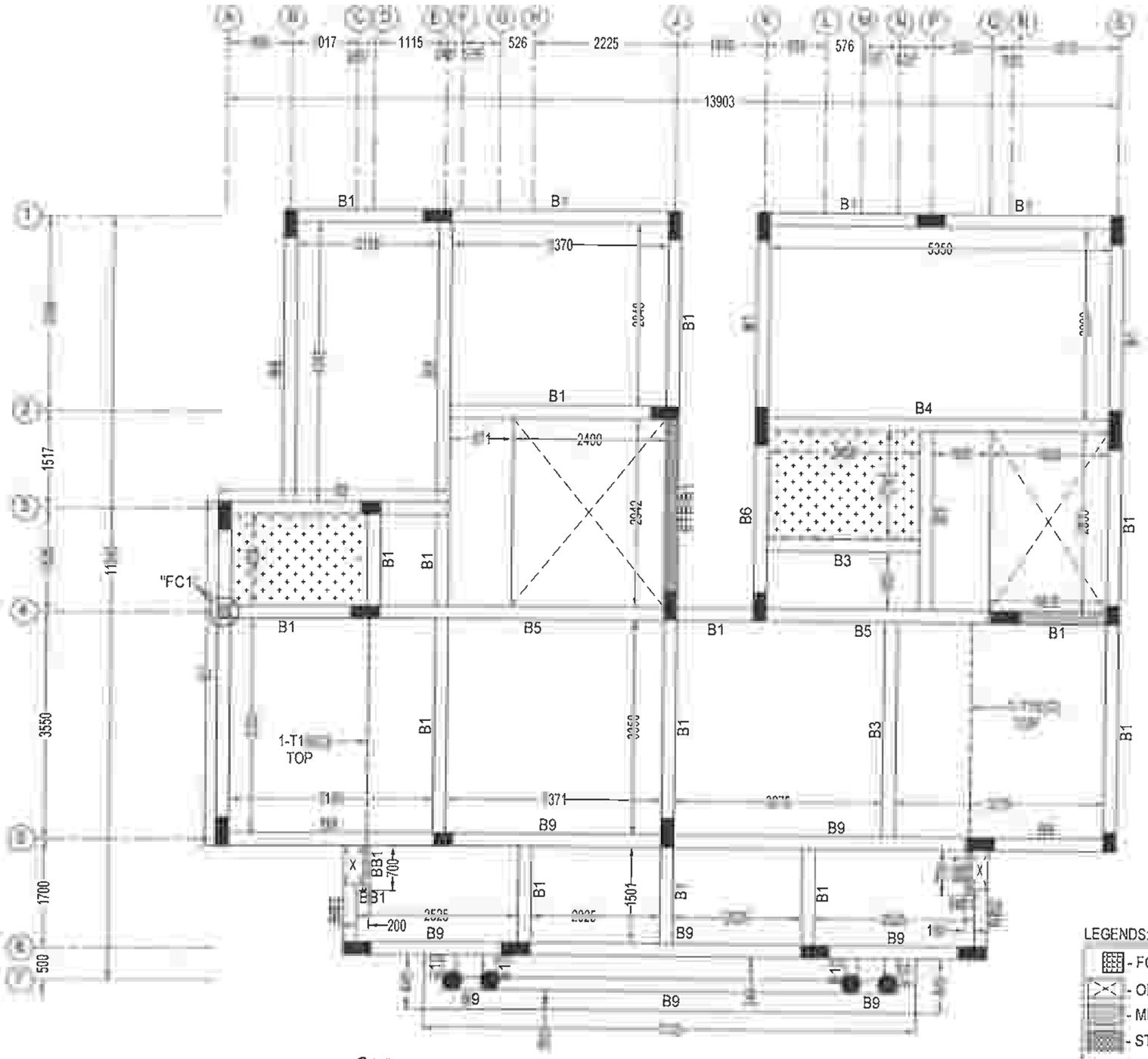
SAFE STRUCTURAL CONSULTANCY
[illegible] R.
CHENNAI-600 117
CONTACT : +91 9087725367
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

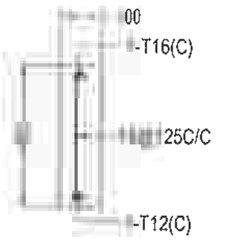
GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	DRG NO
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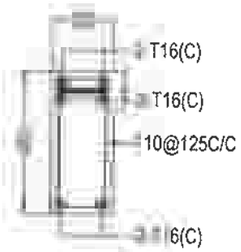


TERRACE BEAM LAYOUT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
- SE/GR-1/19/12/231 CMDA



BB1 - 100 X 450
C/S DETAILS



BB2 - 200 X 450
C/S DETAILS



LEGENDS:

- FC - FLOATING COLUMN
- OPENING
- MLB - MID LANDING BEAM
- STB - STRINGER BEAM
- TOILET SUNKEN

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CLIENT

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NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

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@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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MANIMEGALAI NAGAR,
3RD STREET,S KOLATHUR,
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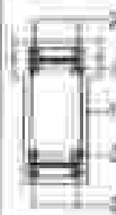
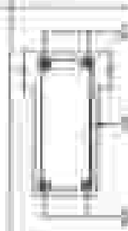
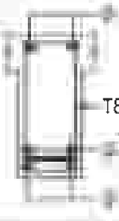
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 600) B4				
(200 X 450) B5				
(200 X 450) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B7				
(200 X 450) B8				
(200 X 600) B9				
(200 X 600) B10				

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
E.F - EACH FACE

R. [illegible]
[illegible]STRUCTURAL [illegible]1 (SE)
M.E [illegible]ural Engg)
[illegible] No - SE/GR-1/19/12/231 (CMDA)

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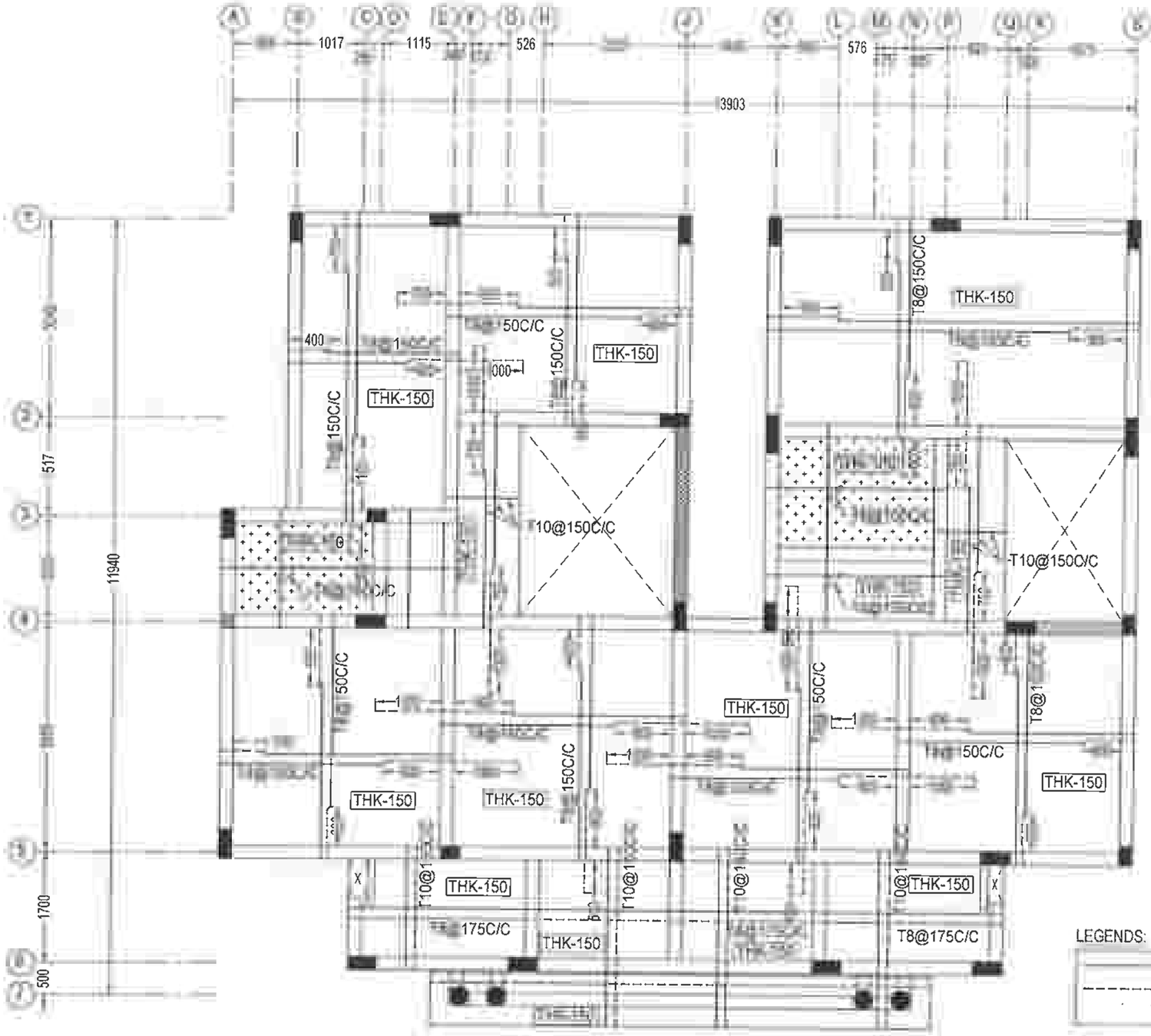
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DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV.	DATE	PROJECT NO.	SHEET NO.
R1	[illegible]	ST-2024-18-08	11



TERRACE SLAB DETAILS

R. RA[illegible]
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Regn. No - SE/GR-1/19/12/231 (CMDA)

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ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY, (VILLA 60)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

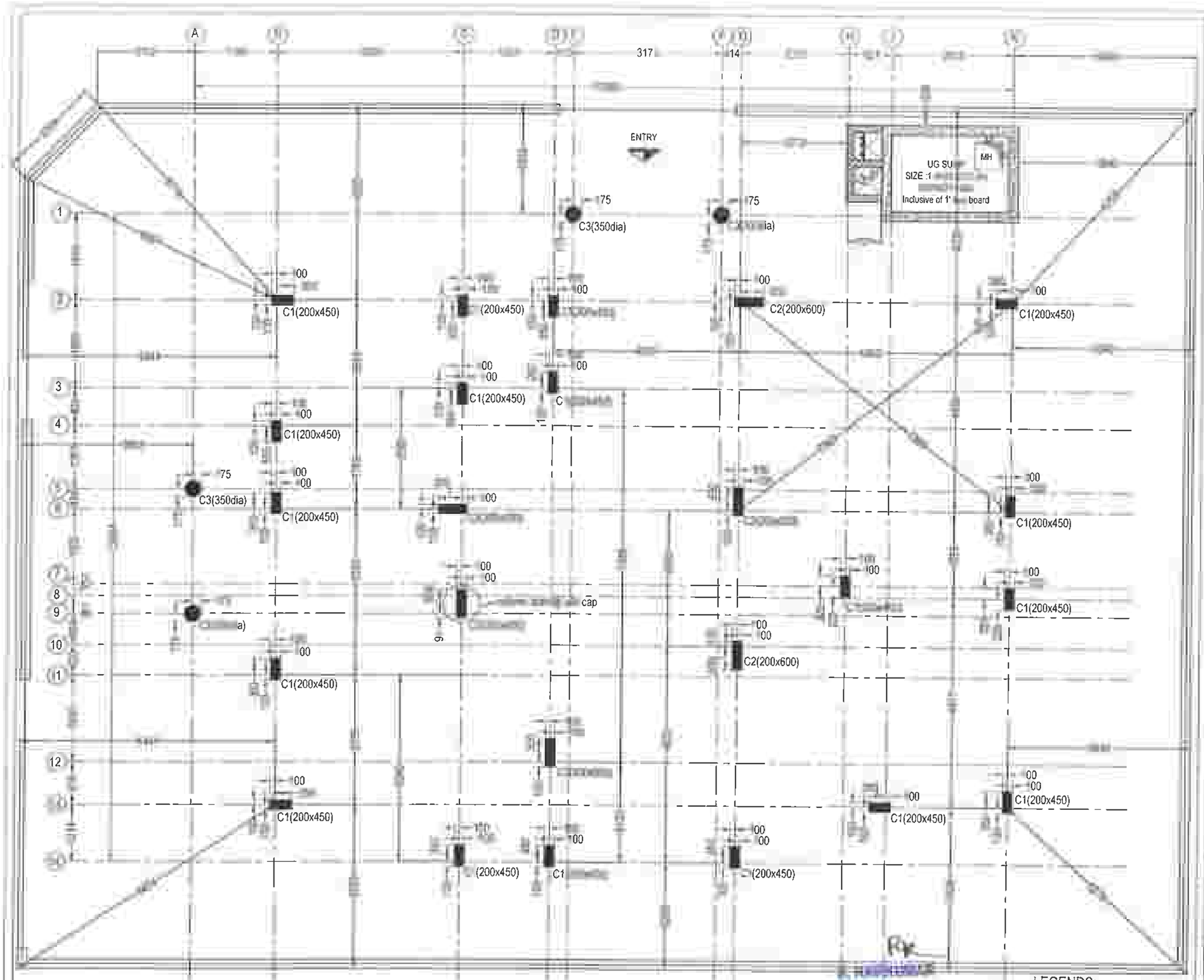
SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO.22 ,
MANIMEGALAI NAGAR,
3RD STREET,S KOLATHUR.
CHENNAI 600 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2024-18-08	12



COLUMN MARKING LAYOUT

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS = 1½"
B. FOUNDATION = 2"
C. GRADE BEAM = 1"
D. FLOOR BEAM = 1"
E. FLOOR SLAB = ¾"
F. RCC WALL = 1"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDA

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR EMENT

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CLIENT

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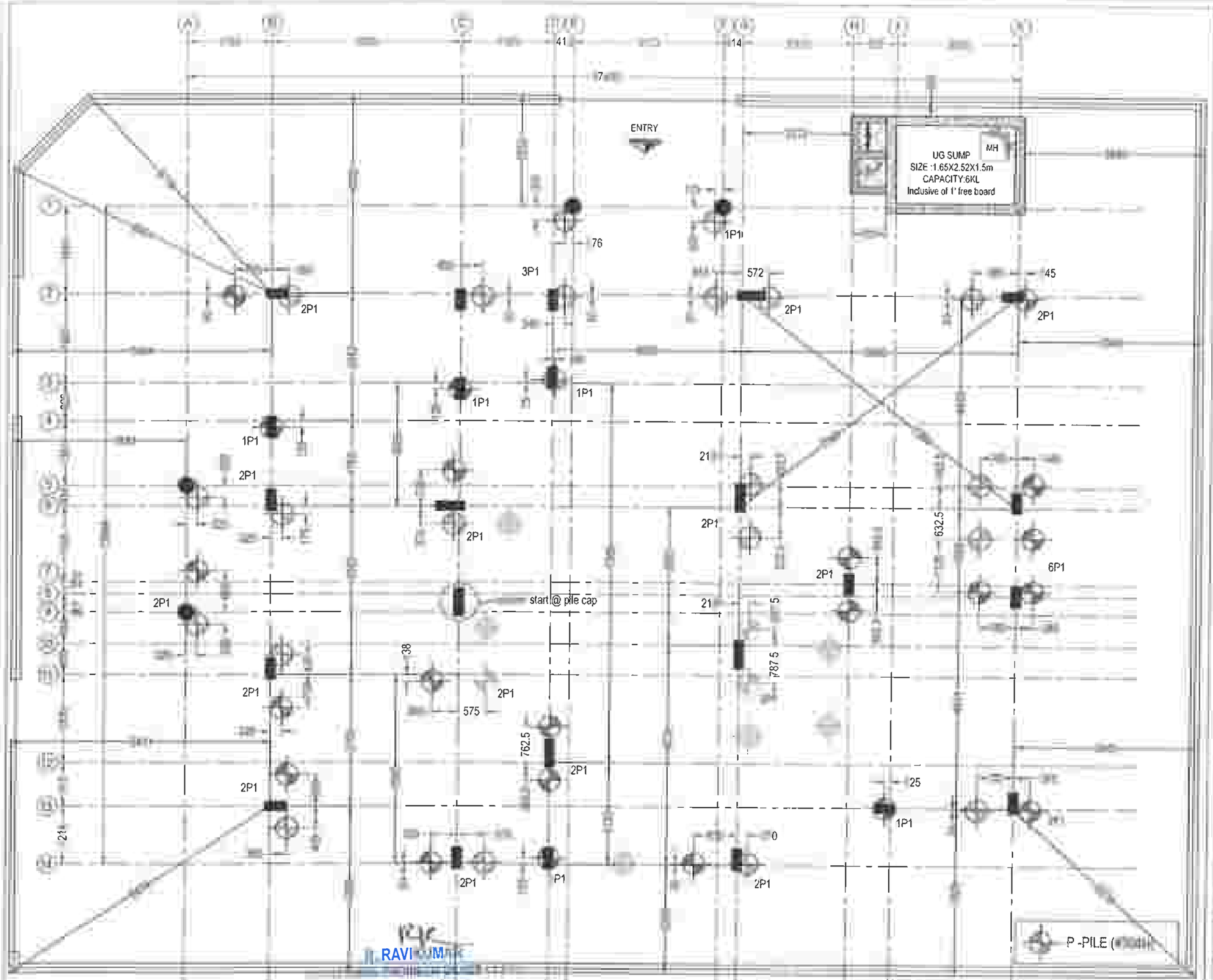
COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R2	2/202	ST-2024-18-04	01

STRUCTU EER GRADE - 1 (SE)
M.E (Structural Engg)
R-1/19/12/231

LEGENDS:

- C - COLUMN



RAVI
M.E (Structural
Reg. No - SE/GR-1/19/12/231 (CMDA)

PILE(P) MARKING LAYOUT

PROPOSED PILE
NO.OF PILE - 22 NOS

RETAINED PILE
NO.OF PILE - 25 NOS

TERMINATED PILE
NO.OF PILE - 6 NOS

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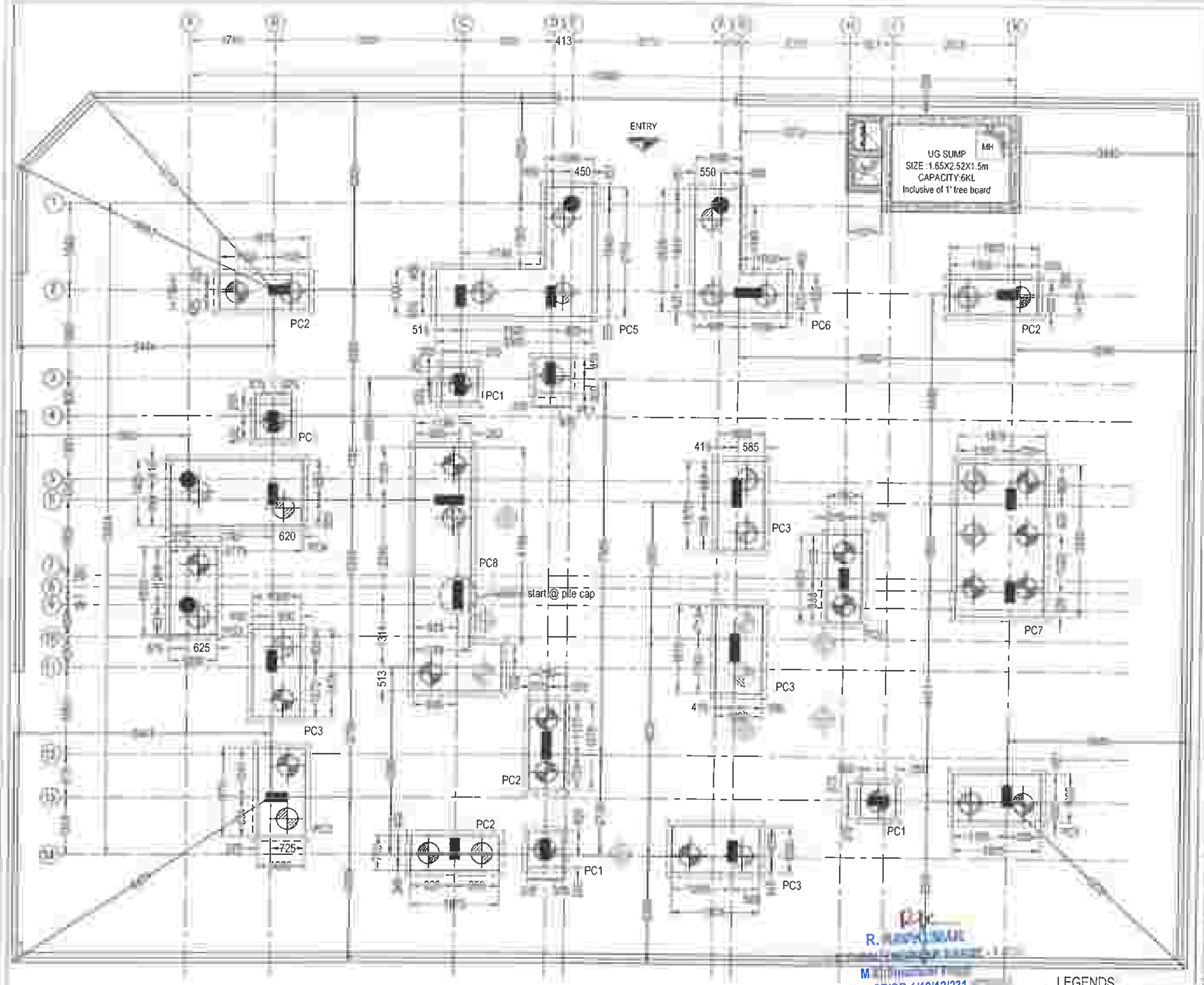
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CONTACT : +91 9087725267
selestructuralchennai@gmail.com
Web.

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2024-18-04	02



PILE CAP(PC) MARKING LAYOUT

LEGENDS

PC - PILE CAP

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ARCHITECT

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STRUCTURAL CONSULTANT

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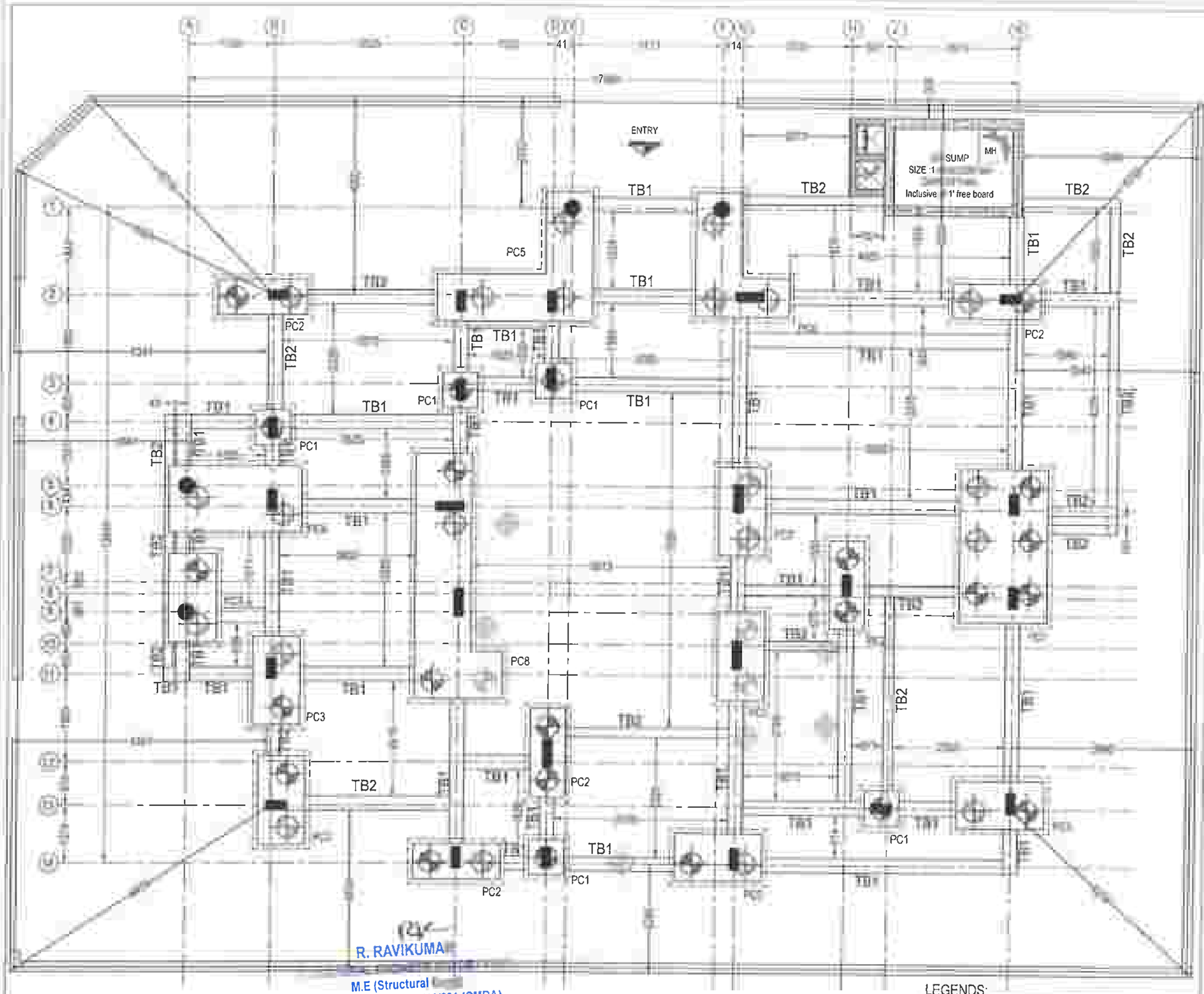
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

	DATE	PROJECT NO	SHEET.NO
R2		ST-2024-18-04	03

R. [illegible]
M [illegible]
Reg. No - SE/GR-1/19/12/231



R. RAVIKUMA
M.E (Structural
Reg. No - SE/GR-1/19/12/231 (CMDA)

PILE CAP(PC) & TIE BEAM(TB) LAYOUT

LEGENDS:

PC - PILE CAP	TB - TIE BEAM

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ARCHITECT

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STRUCTURAL CONSULTANT

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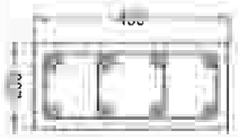
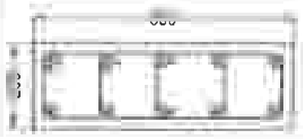
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SCALE	1:100	☑ APPROVAL
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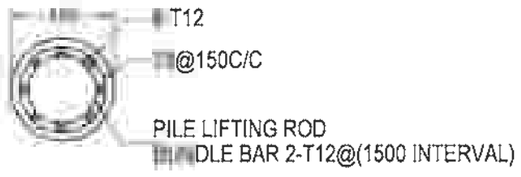
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) LAYOUT

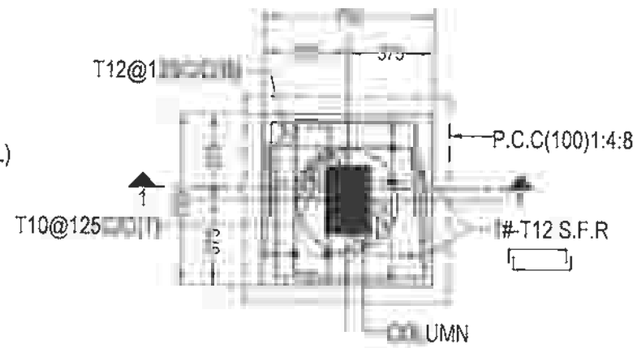
REV	DATE	PROJECT NO	SHEET
R2	12/2	ST-2024-16-04	04

COLUMN REINFORCEMENT SCHEDULE

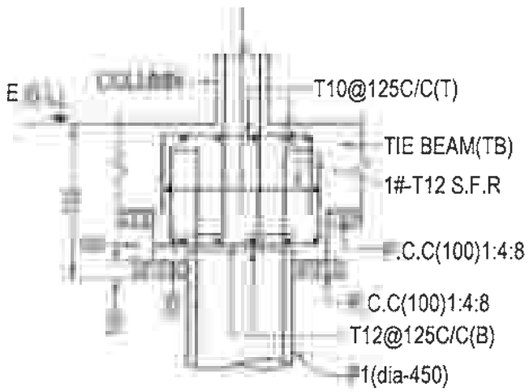
TERRACE FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙- T16 ⊕- T12			
	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
			
	8-T16	10-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3



PILE (P1) - PLAN



PC1 - PLAN



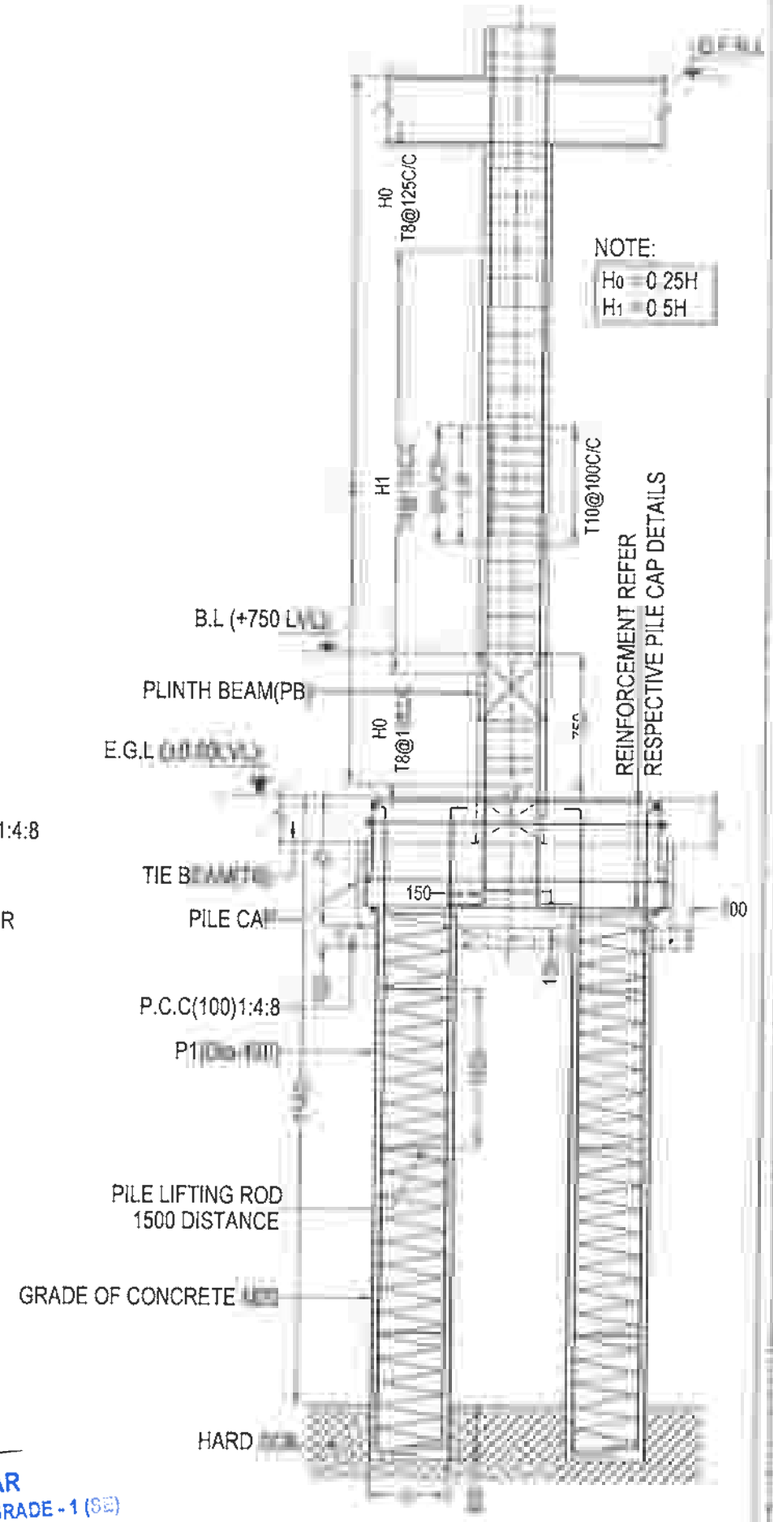
SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



NOTE:
H_0 = 0.25H
H_1 = 0.5H

TYPICAL COLUMN & PILE CONFINING DETAILS

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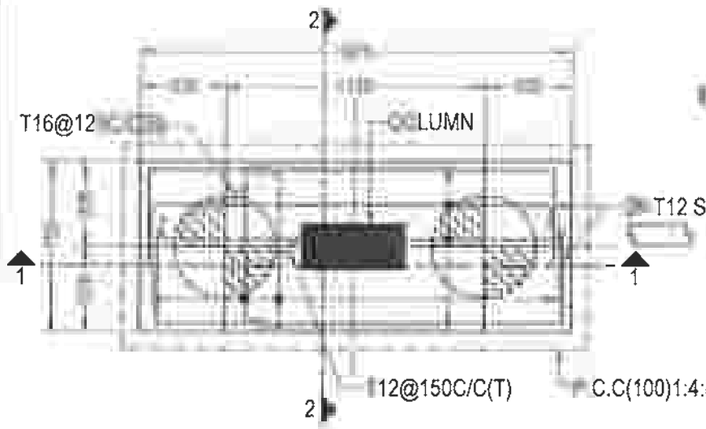
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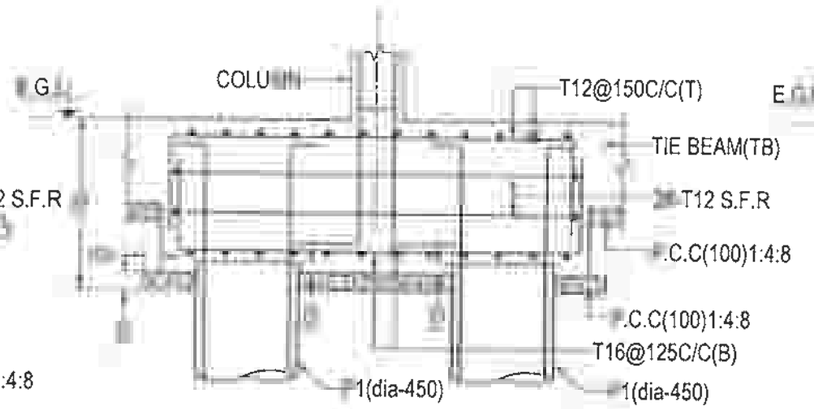
DRAWING NAME

COLUMN ,PILE & PILE CAP DETAILS

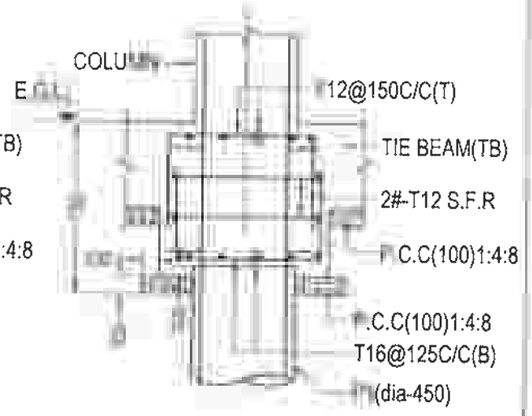
REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2024-18-04	05



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

SCHEDULE OF PILE CAP

PILE CAP NAME	PILE CAP SIZE (LxB)	PILE CAP DEPTH "D"	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		
			(LONG SIZE-SHORT STEEL)	(SHORT SIZE-LONG STEEL)	(LONG SIZE-SHORT STEEL)	(SHORT SIZE-LONG STEEL)	SIDE FACE REINFORCEMENT
PC1	750 X 750	750	T12@125C/C	T12@125C/C	T12@125C/C	T12@125C/C	2#-T12 S.F.R
PC2	1875 X 750	750	T16@125C/C	T16@125C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC3	1875 X 1000	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC4	2775 X 1400	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC5	REFER PILE CAP LAYOUT	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC6	REFER PILE CAP LAYOUT	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC7	3250 X 1875	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R
PC8	REFER PILE CAP LAYOUT	750	T16@150C/C	T16@150C/C	T12@150C/C	T12@150C/C	2#-T12 S.F.R

R. RAVIKUMAR
STRUCTURAL [illegible]NEER GRADE - 1 (SE)
M.E [illegible] Engg)
Reg. No - SE/GR-[illegible]2/231 (CMDA)

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 64)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
BLOCK,PLOT NO 22 MANIMEGALAI NAGAR, [illegible] STREET,S.KOLATHUR, CHENNAI - 600 117
TLRA 22,VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, COCHIN - 682 301
CONTACT +91 9087725767
s-structuralchennai@gmail.com
Web.

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

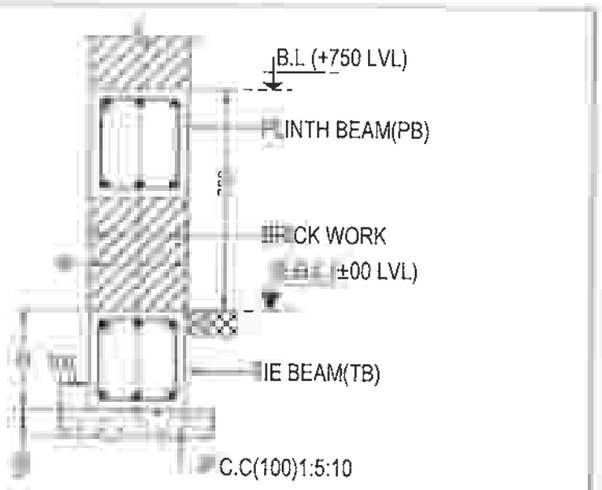
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PILE CAP(PC) SECTION DETAILS

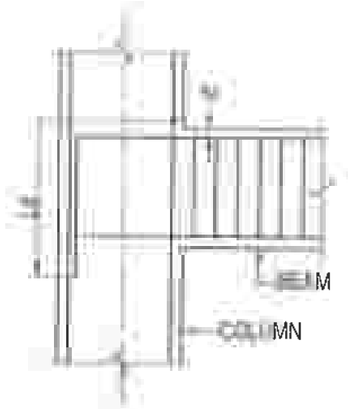
REV	DATE	PROJECT NO	DRG NO
R2	[illegible]	ST-2024-18-04	06

TIE BEAM (TB) REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 450) TB1	3-T16(C), T8@150C/C, C.C, 3-T16(C)	3-T16(C), T8@150C/C, C.C, 3-T16(C)	3-T16(C), T8@150C/C, C.C, 3-T16(C)
(200 X 450) TB2	3-T12(C), T8@150C/C, C.C, T12(C)	3-T12(C), T8@150C/C, C.C, T12(C)	3-T12(C), T8@150C/C, C.C, 3-T12(C)



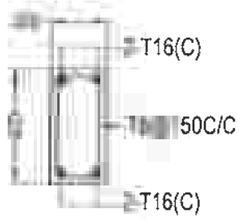
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

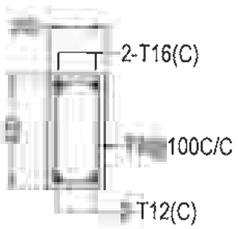


PB1 - 200 X 400
C/S DETAILS

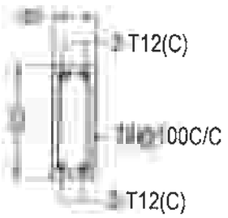


PB2 - 200 X 300
C/S DETAILS

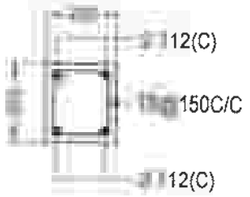
PB3 - 100 X 300
C/S DETAILS



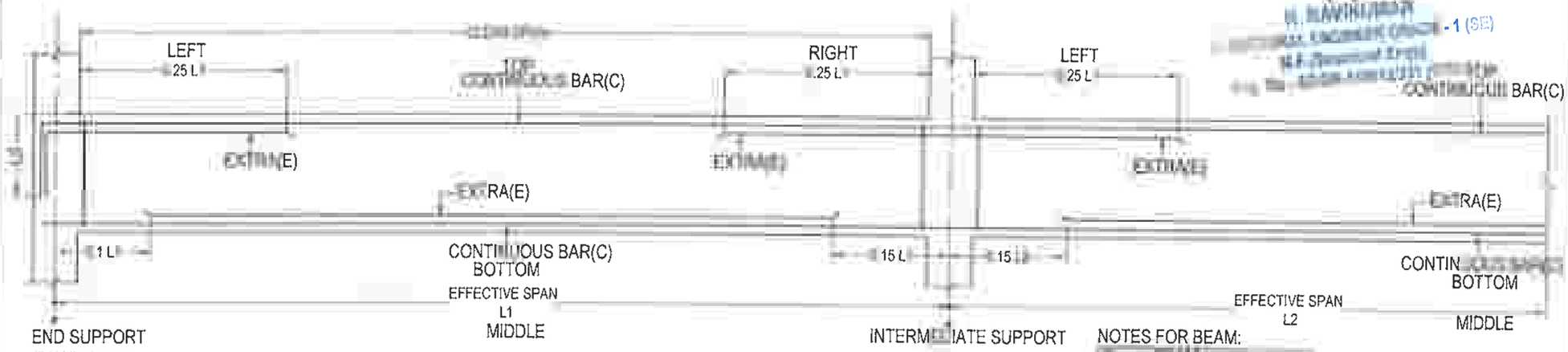
BB1 - 200 X 400
C/S DETAILS



BB2 - 150 X 400
C/S DETAILS



PB4 - 200 X 250
C/S DETAILS



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM:

C - CONTINUOUS BAR
E - EXTRA BAR

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TECHNICAL NOTES

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHER WISE SPECIFIED
2. ONLY WRITTEN DIMENSION TO BE FOLLOWED
3. ANY DISCREPANCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND.
5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   ALL RCC MEMBERS IN M25 GRADE
7. "0" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   A. COLUMNS = 1½"
   B. FOUNDATION = 2"
   C. GRADE BEAM = 1"
   D. FLOOR BEAM = 1"
   E. FLOOR SLAB = ¾"
   F. RCC WALL = 1"
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

JOINTS FOR R[illegible]NT

1) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
2) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
3) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

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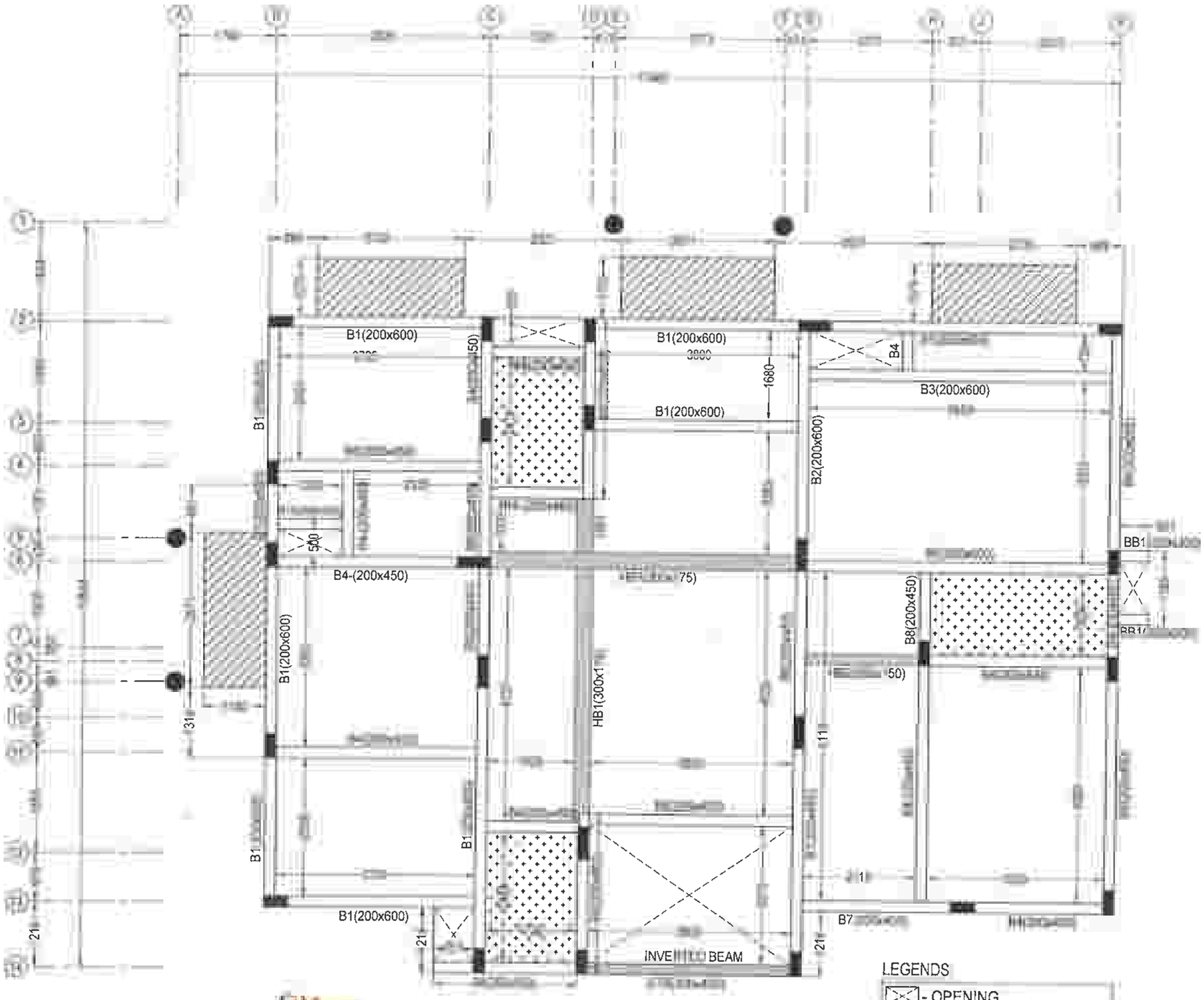
SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO.27 , MANIMEGALAI NAGAR, 3RD STREET,S KOLATHUR, CHENNAI - 600 117
TEPA 22,VYSHNAVIKA, SN JUNCTION, THAIPARAMBIL LANE, COCHIN - 682 301
CONTACT : +91 9087775267
safestructuralchennai@gmail.com
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM(TB) DETAILS

NO	DATE	PROJECT NO	SHEET NO
R2	[illegible]	ST-2024-18-04	07



R.
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

GROUND FLOOR ROOF BEAM LAYOUT

LEGENDS

- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- 100mm SLAB SUNKEN
- TOILET SLAB SUNKEN

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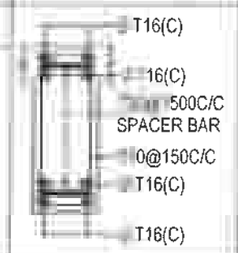
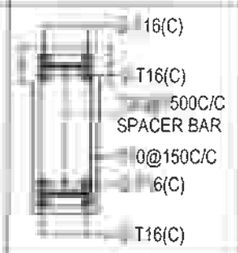
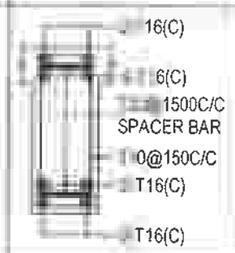
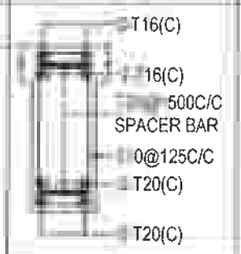
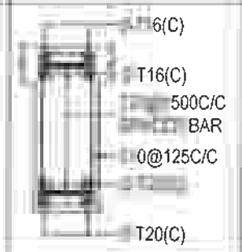
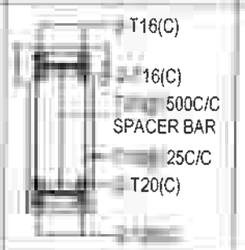
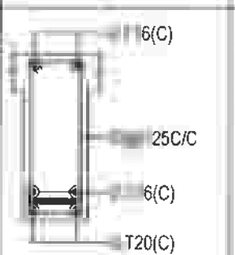
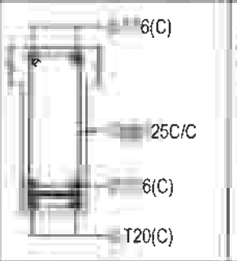
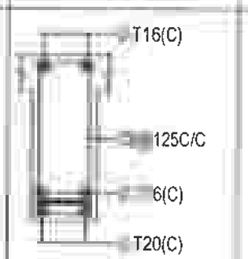
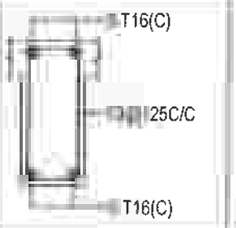
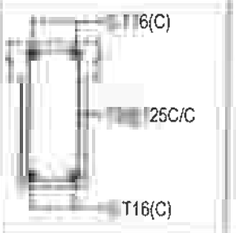
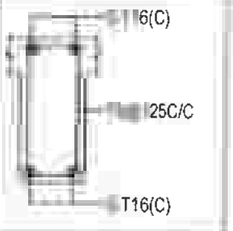
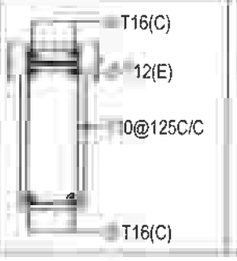
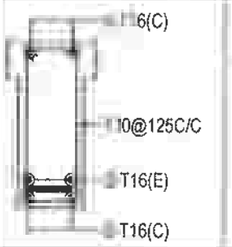
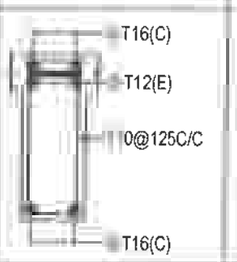
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SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

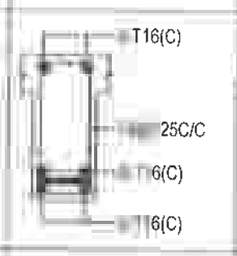
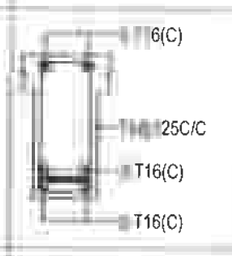
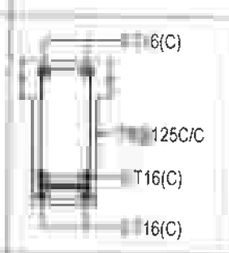
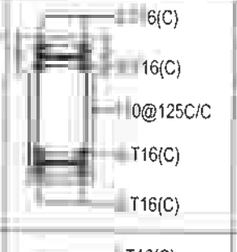
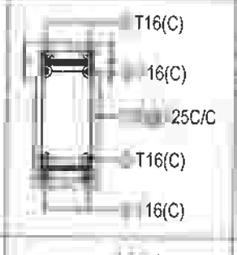
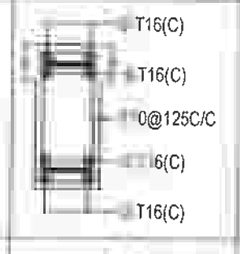
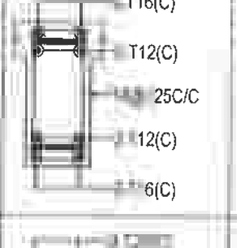
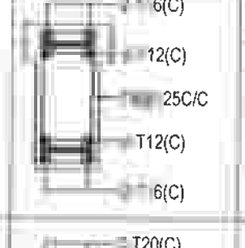
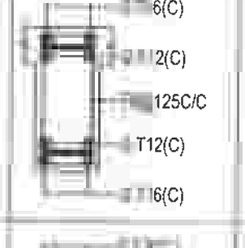
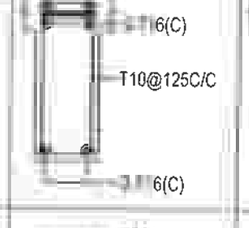
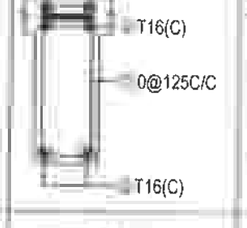
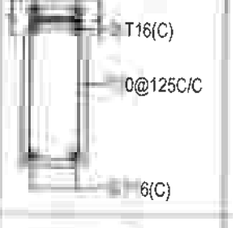
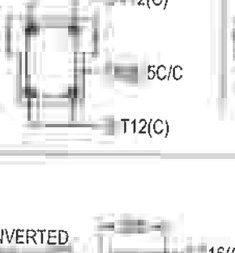
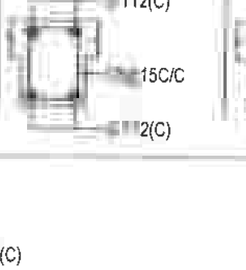
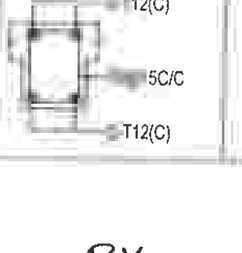
GROUND FLOOR ROOF BEAM LAYOUT

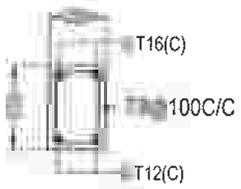
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R2		ST-2024-18-04	08

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B1				
(200 X 600) B2				
(200 X 600) B3				
(200 X 450) B4				
(200 X 600) B5				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

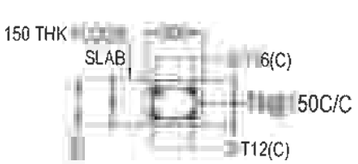
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 450) B7				
(200 X 450) B8				
(200 X 600) B9				
(200 X 300) B10				



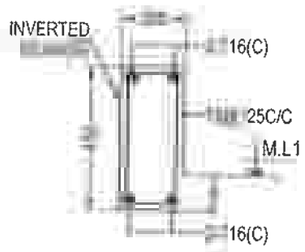
BB1 - 200 X 300
C/S DETAILS



HB1 - 300 X 175
C/S DETAILS



HB2 - 200 X 150
C/S DETAILS



STB-200x450
C/S DETAILS

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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7. 'Ø' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
   - A. COLUMNS = 1½"
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9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOI[illegible] REI[illegible] BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED

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CLIENT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO 22 MANIMEGALAI NAGAR, STREET,5 KOLATHUR, CHENNAI - 600 117
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safestructuralchennai@gmail.com
Web.

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R2	[illegible]	ST-2024-18-04	09

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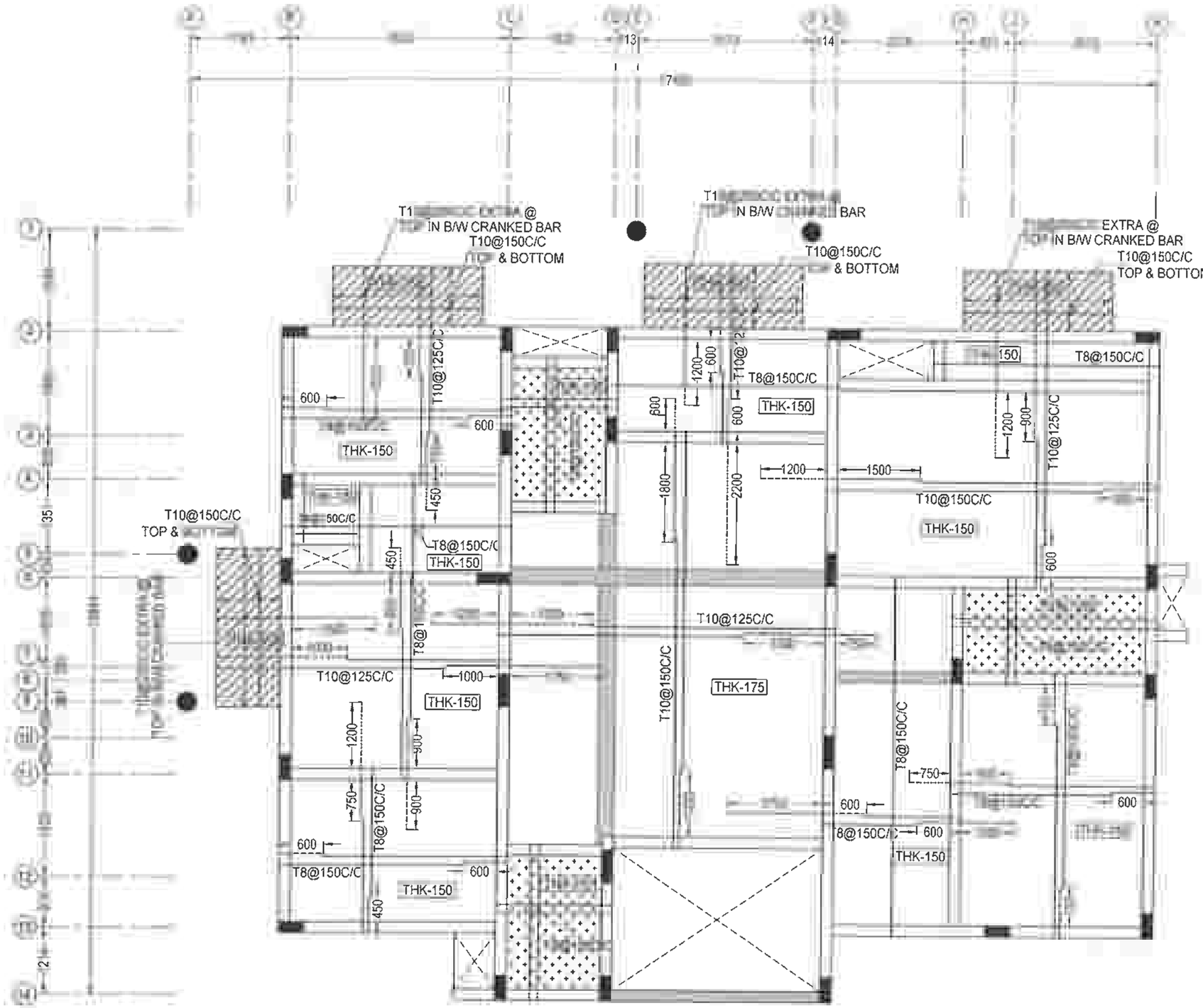
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

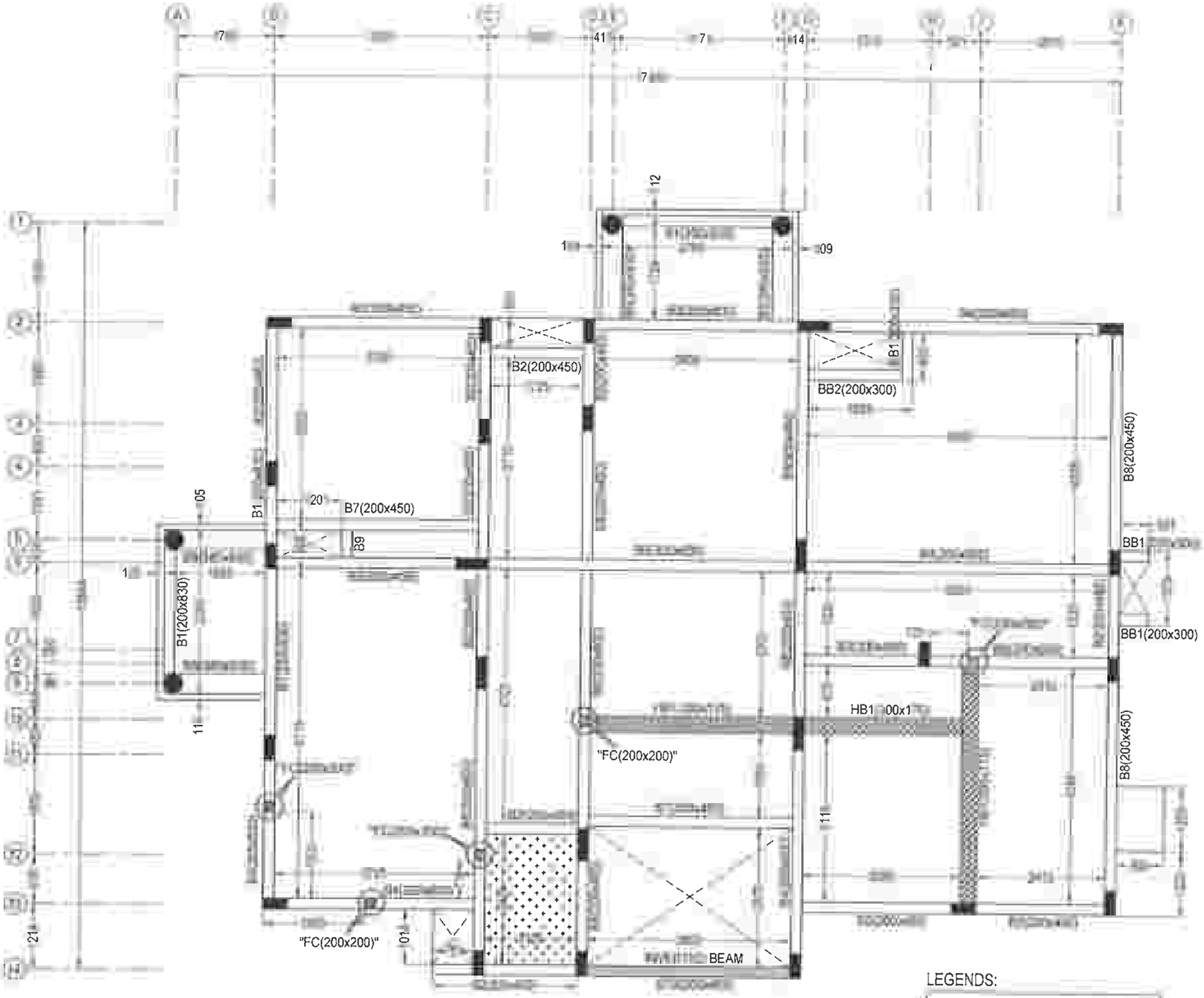
REV	DATE	PROJECT NO	SHEET NO
R2		ST-2024-18-04	10



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

LEGENDS

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS



TERRACE BEAM LAYOUT

LEGENDS:

- FC - FLOATING COLUMN
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- TOILET SLAB SUNKEN

R. RAVIKUMAR
STRUCTURAL ENGINEER (SE) - 1
M.E

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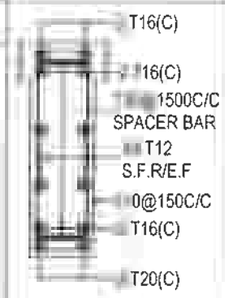
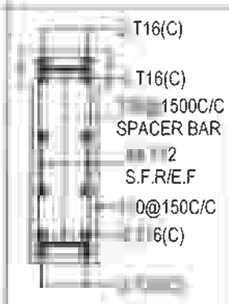
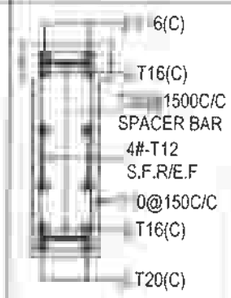
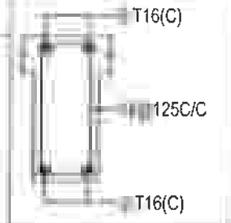
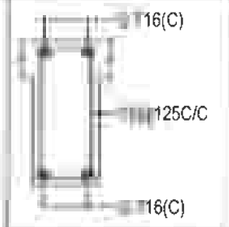
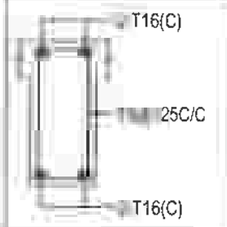
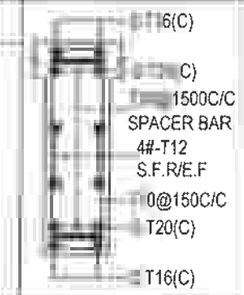
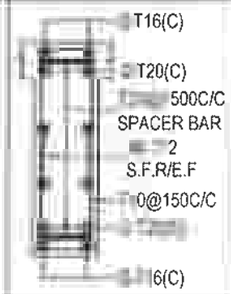
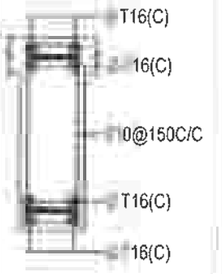
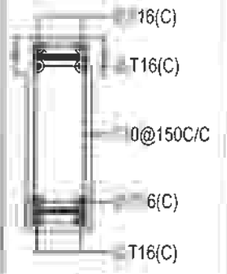
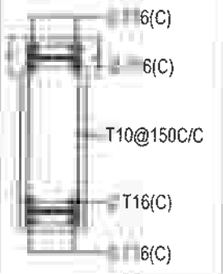
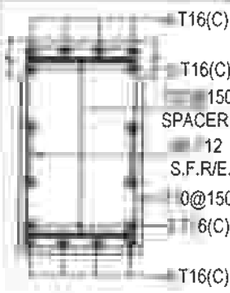
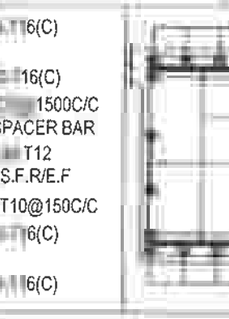
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

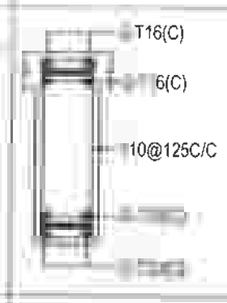
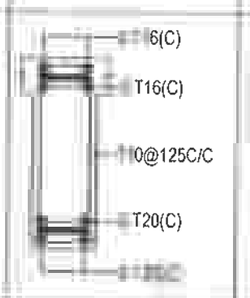
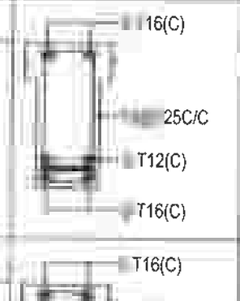
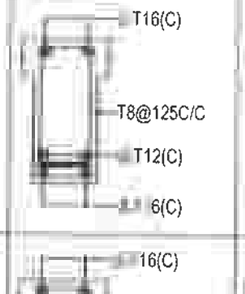
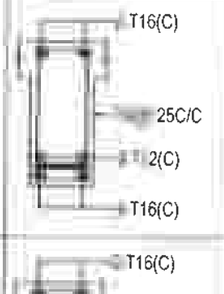
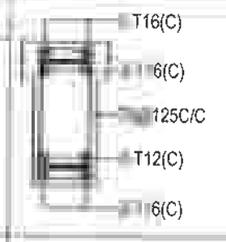
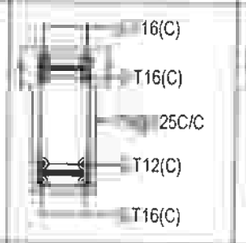
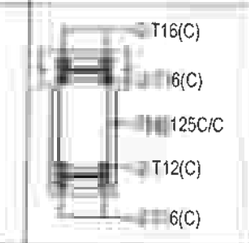
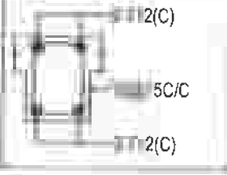
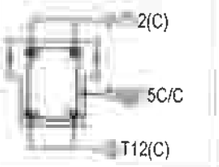
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2024-18-04	11

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 830) B1				
(200 X 450) B2				
(200 X 830) B3				
(200 X 600) B4				
(380 X 830) B5				

TERRACE BEAM REINFORCEMENT SCHEDULE:

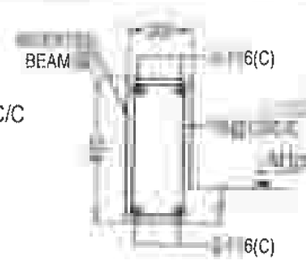
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
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(200 X 450) B7				
(200 X 450) B8				
(200 X 300) B9				



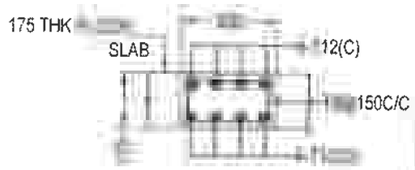
BB1 - 200 X 300
C/S DETAILS



BB2 - 200 X 300
C/S DETAILS



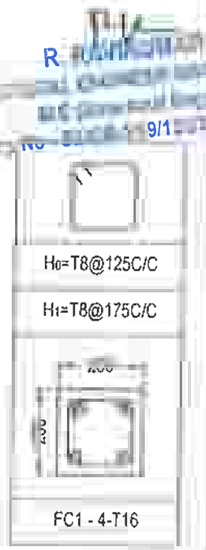
STB-200x450
C/S DETAILS



HB1 - 300 X 175
C/S DETAILS

LEGENDS:

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S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



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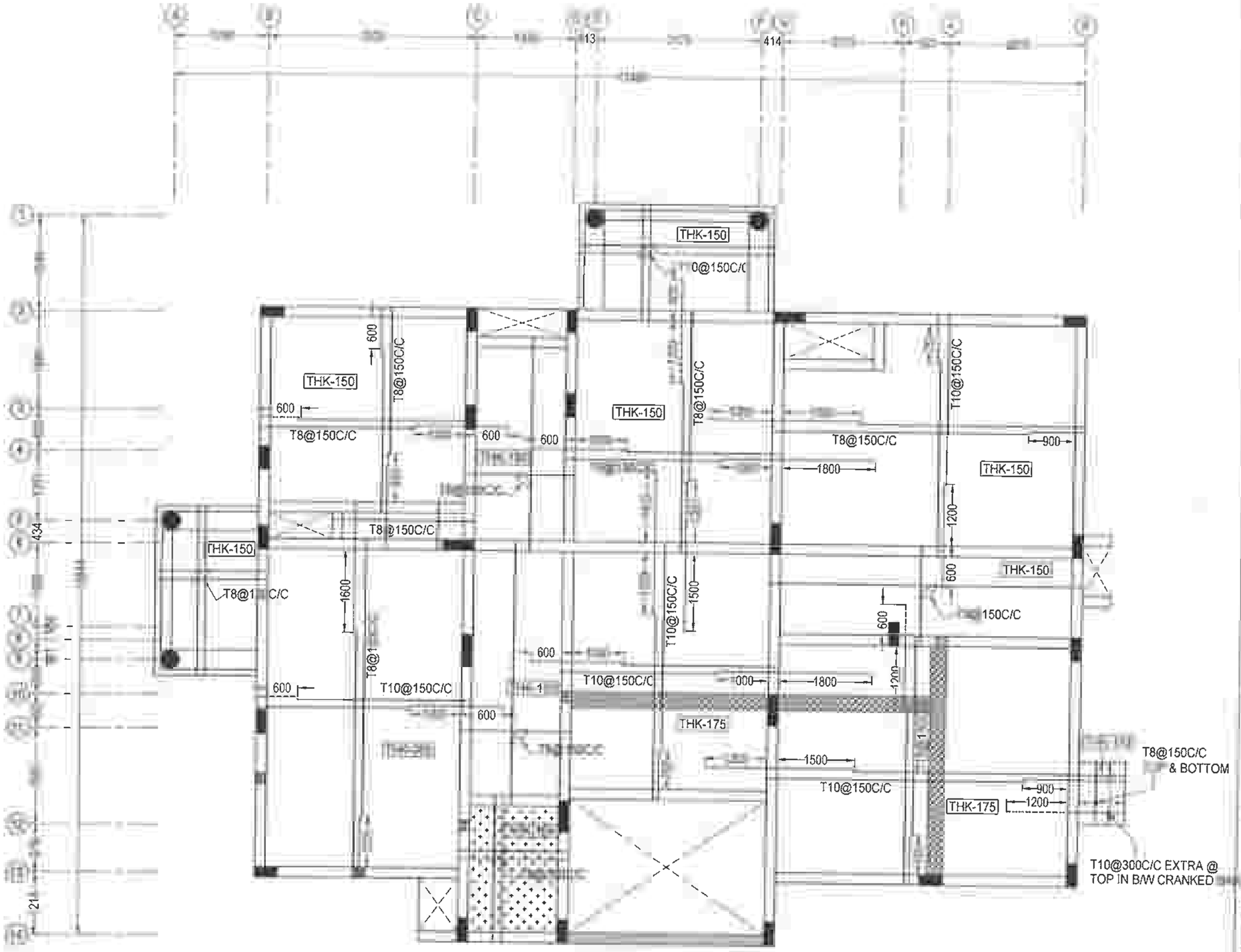
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DETAILED	MV	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A2	☐	CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R2	2/2	ST-2024-18-04	12



TERRACE SLAB LAYOUT & DETAILS

LEGENDS:

- - - - - - - - TOP ROD

———— - BOTTOM ROD

THK - THICKNESS

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   ALL RCC MEMBERS IN M25 GRADE
7. "Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A COLUMNS = 1½"
   - B. FOUNDATION = 2"
   - C GRADE BEAM = 1"
   - D. FLOOR BEAM = 1"
   - E FLOOR SLAB = ¾"
   - F. RCC WALL = 1"
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10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 64)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

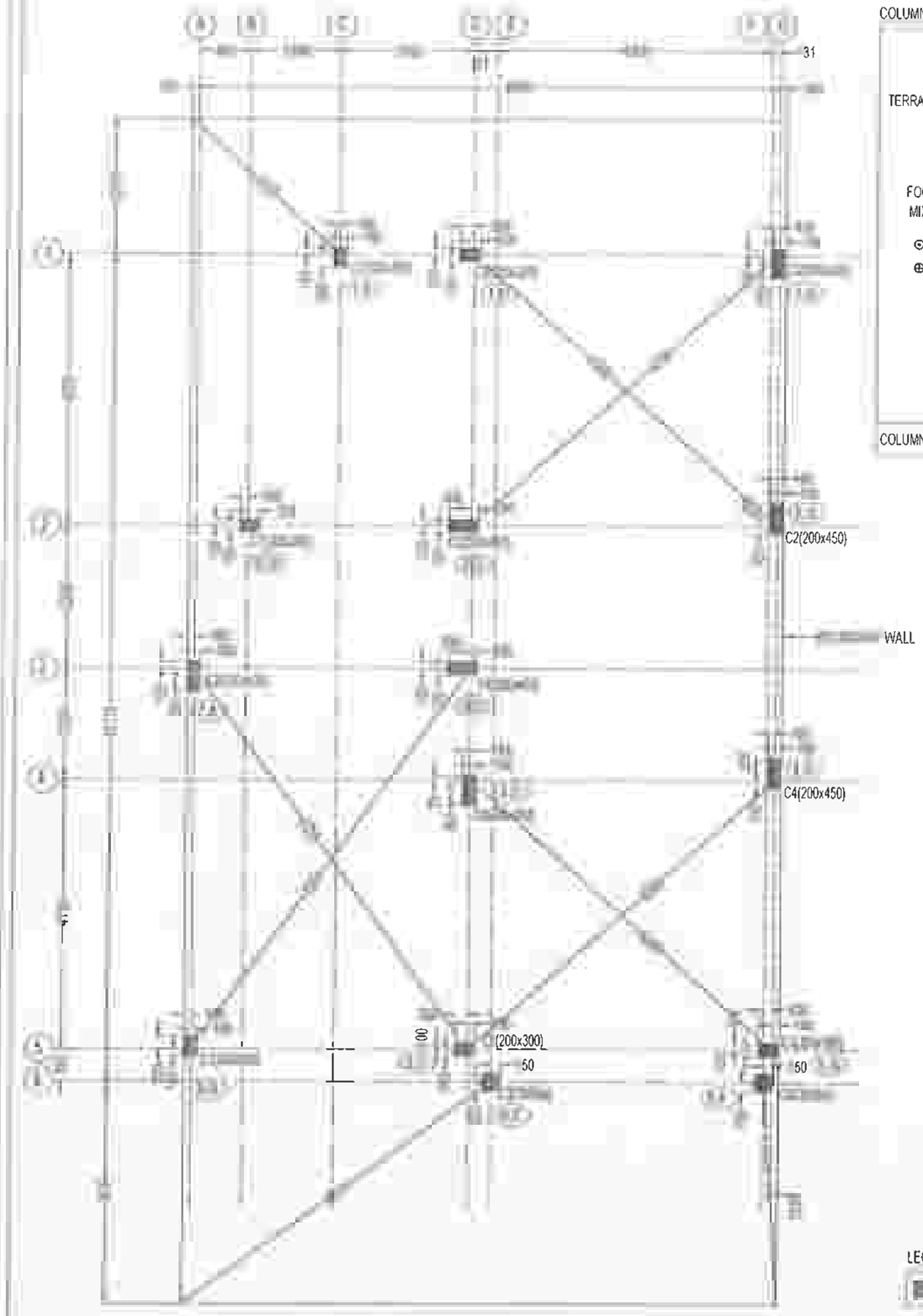
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TUBA 22,VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, COCHIN - 682 301
CONTACT +91 9087725207
safestructuralchennai@gmail.com
Web. www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A2	☐ CONSTRUCTION

DRAWING NAME

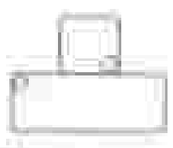
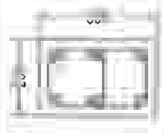
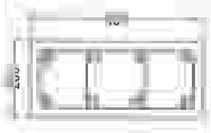
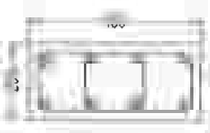
TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R2	2/2	ST-2024-18-04	13



COLUMN MARKING LAYOUT

COLUMN REINFORCEMENT SCHEDULE

TERRACE LEVEL TO FOOTING MIX-M25 ⊙ - T16 ⊕ - T12				
	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C
				
	4-T16 + 2-T12	8-T16	6-T16	4-T16 + 4-T12
COLUMN MARKED	C1	C2	C3	C4

NAME OF COLUMN	NUMBERS OF COLUMN
C1	06
C2	04
C3	02
C4	03
TOTAL:	15

LEGENDS

- C - COLUMN

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

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STRUCTURAL CONSULTANT

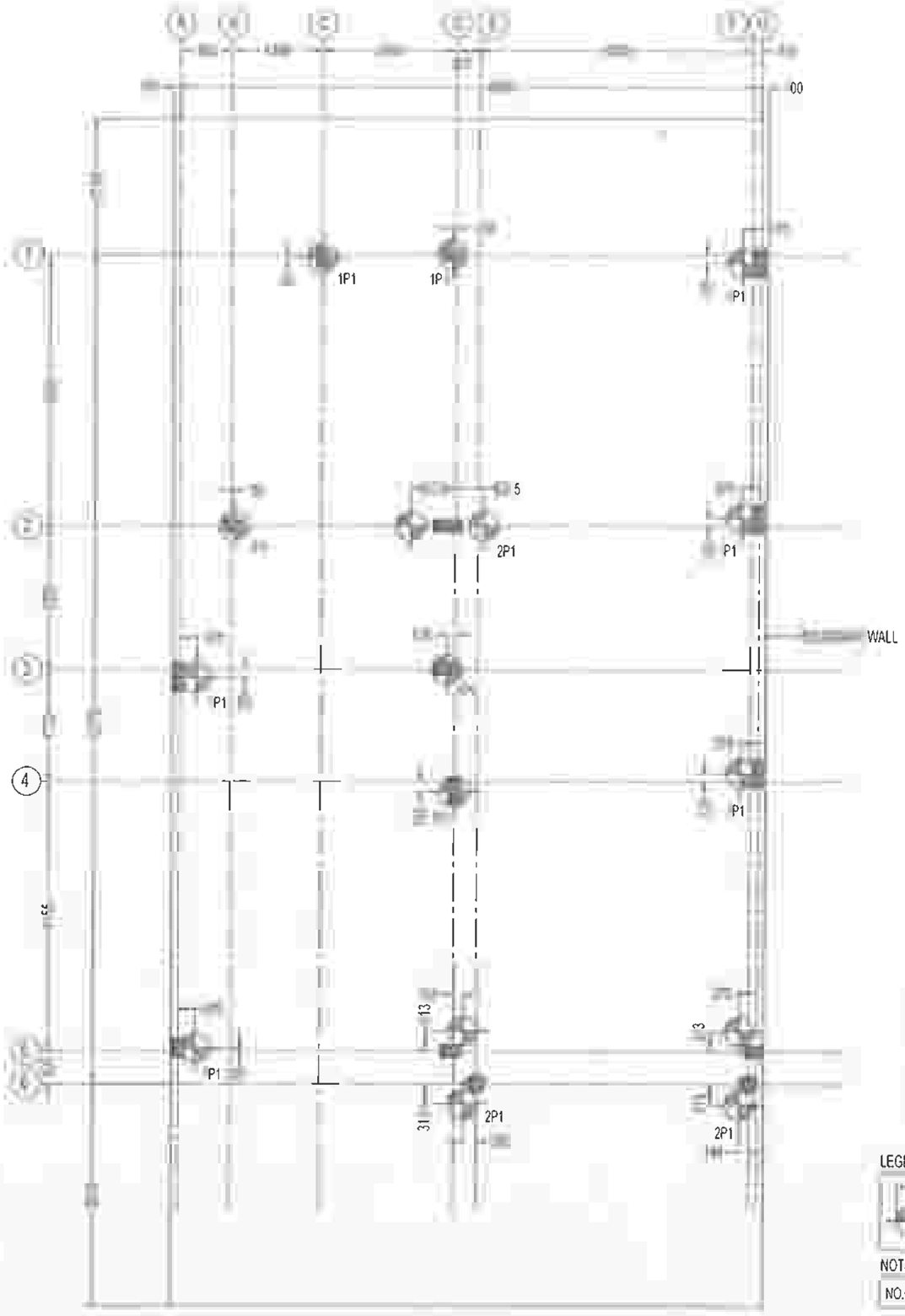
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CHENNAI - 600 117
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	1/1	ST-2025-09-13	01



PILE(P) MARKING LAYOUT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:

P1 - PILE (450Ø)

NOTE:

NO.OF PILE - 16 NOS

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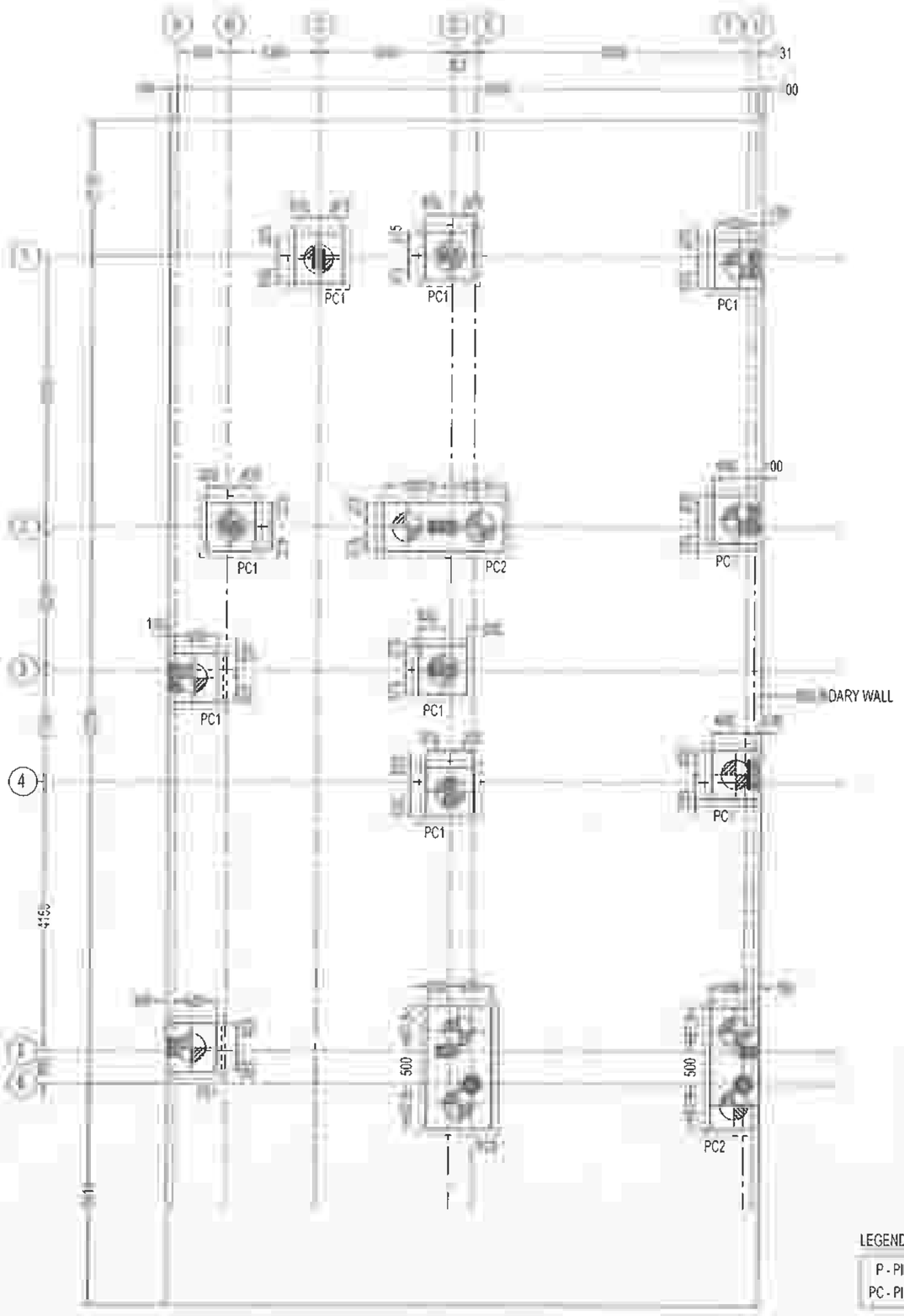
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

DATE	ROJECT NO	EET NO
R0 1/1	ST-2025-09-13	02



PILE CAP(PC) MARKING LAYOUT

LEGENDS:

P - PILE

PC - PILE CAP

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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STRUCTURAL CONSULTANT

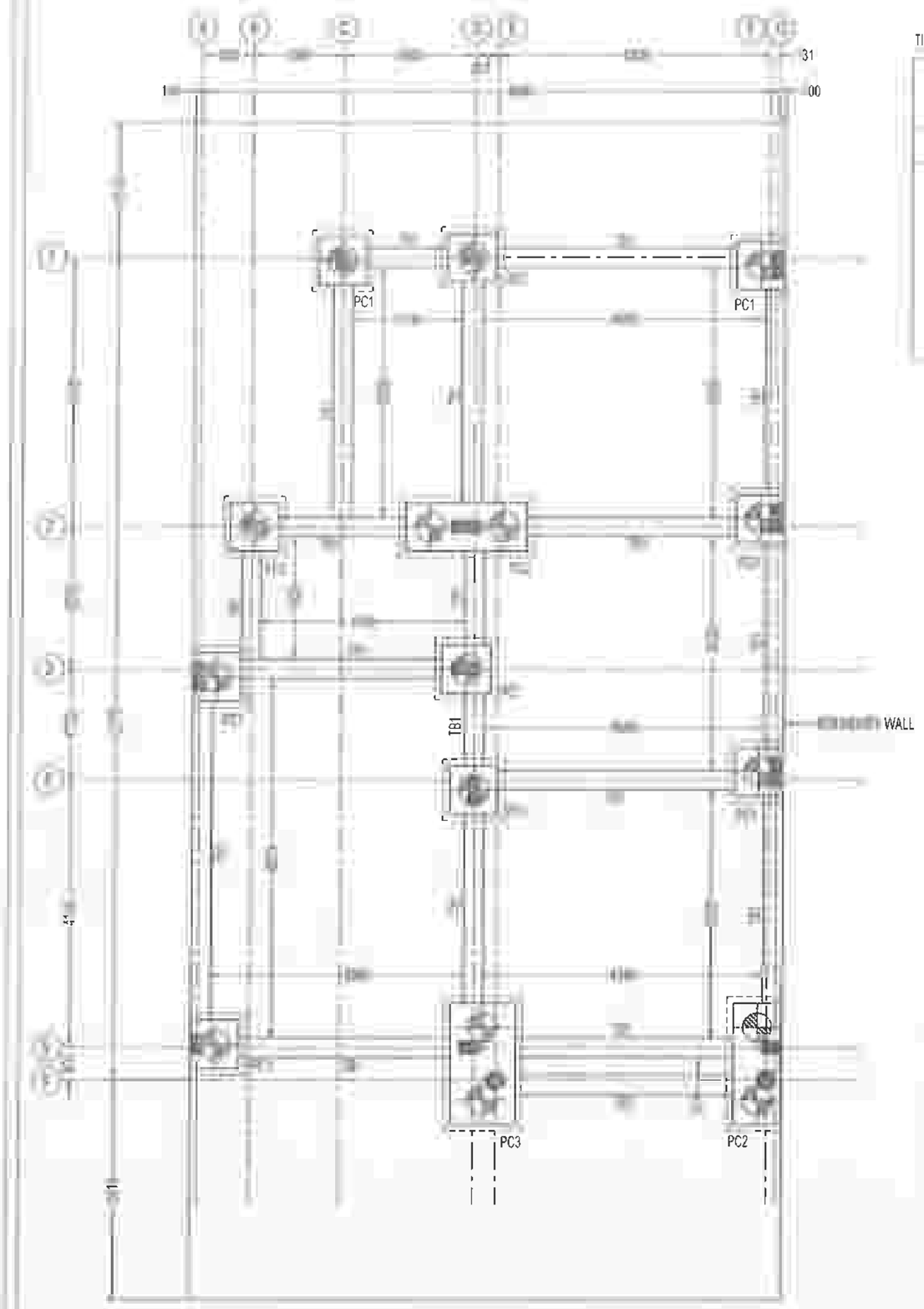
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	1/1[illegible]	ST-2025-09-13	03



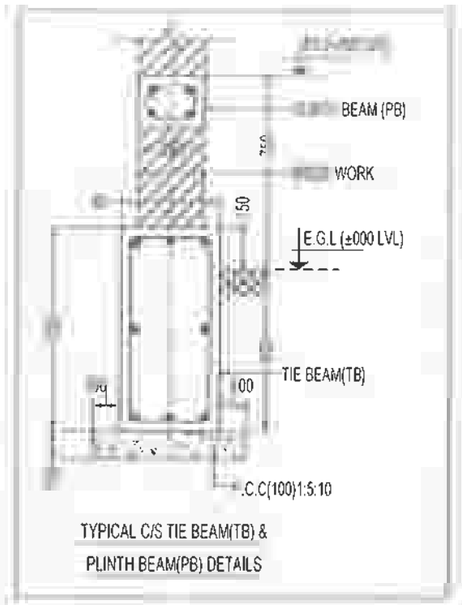
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

TIE BEAM (TB) REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750)	T16(C)	T16(C)	T16(C)
TB1	50C/C 2-T12(C) S.F.R/E.F C.C T16(C)	T12(C) S.F.R/E.F C.C T16(C)	50C/C T12(C) S.F.R/E.F C C T16(C)

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

LEGENDS:

P - PILE
TB - TIE BEAM
PC - PILE CAP

LEGENDS:

B.L - BASEMENT LEVEL
E.G.L - EXISTING GROUND LEVEL

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (
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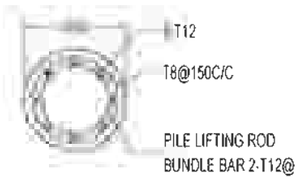
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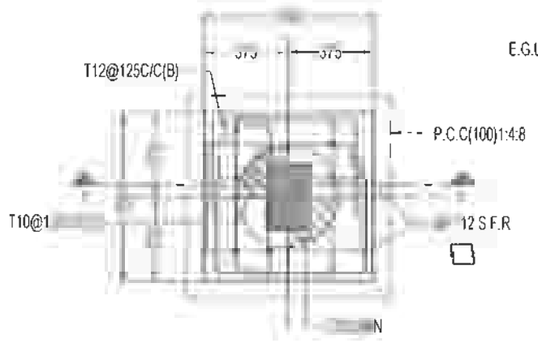
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) DETAILS

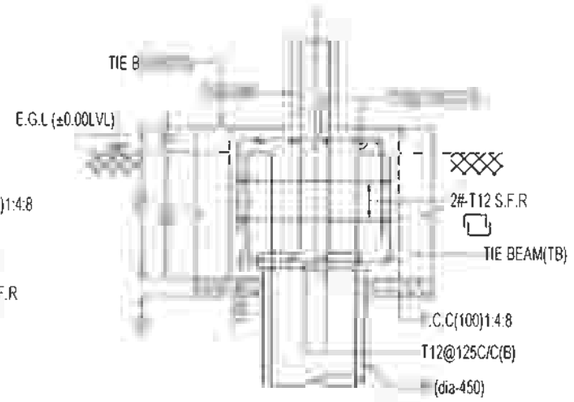
REV	DATE	PROJECT NO	SHEET.NO
R0	1/12/202	ST-2025-09-13	04



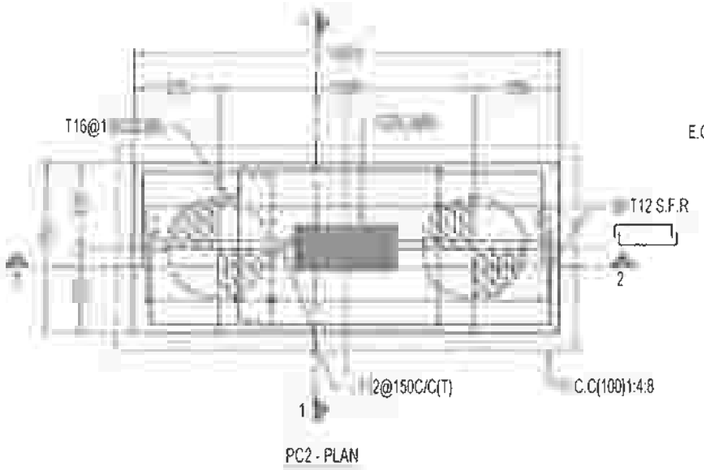
PILE (P1) - PLAN



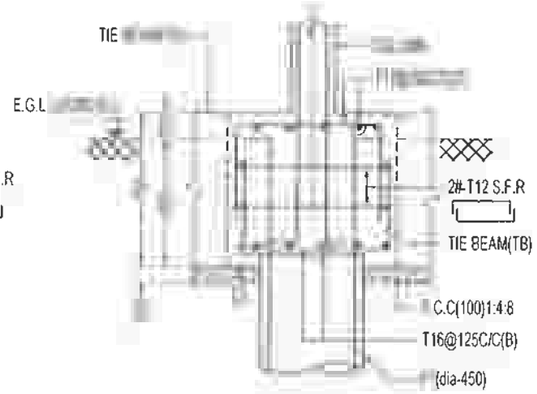
PC1 - PLAN



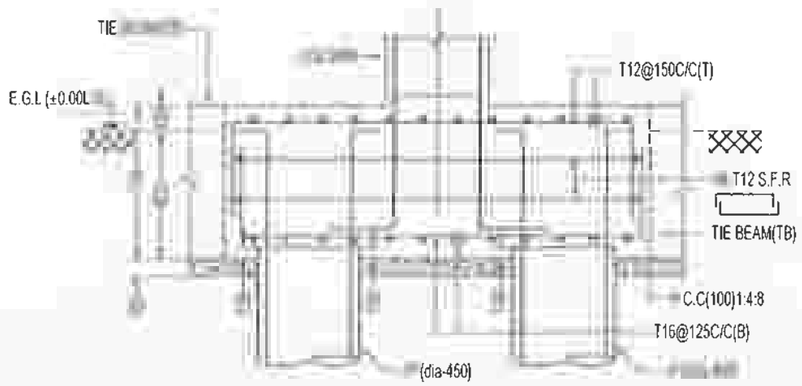
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

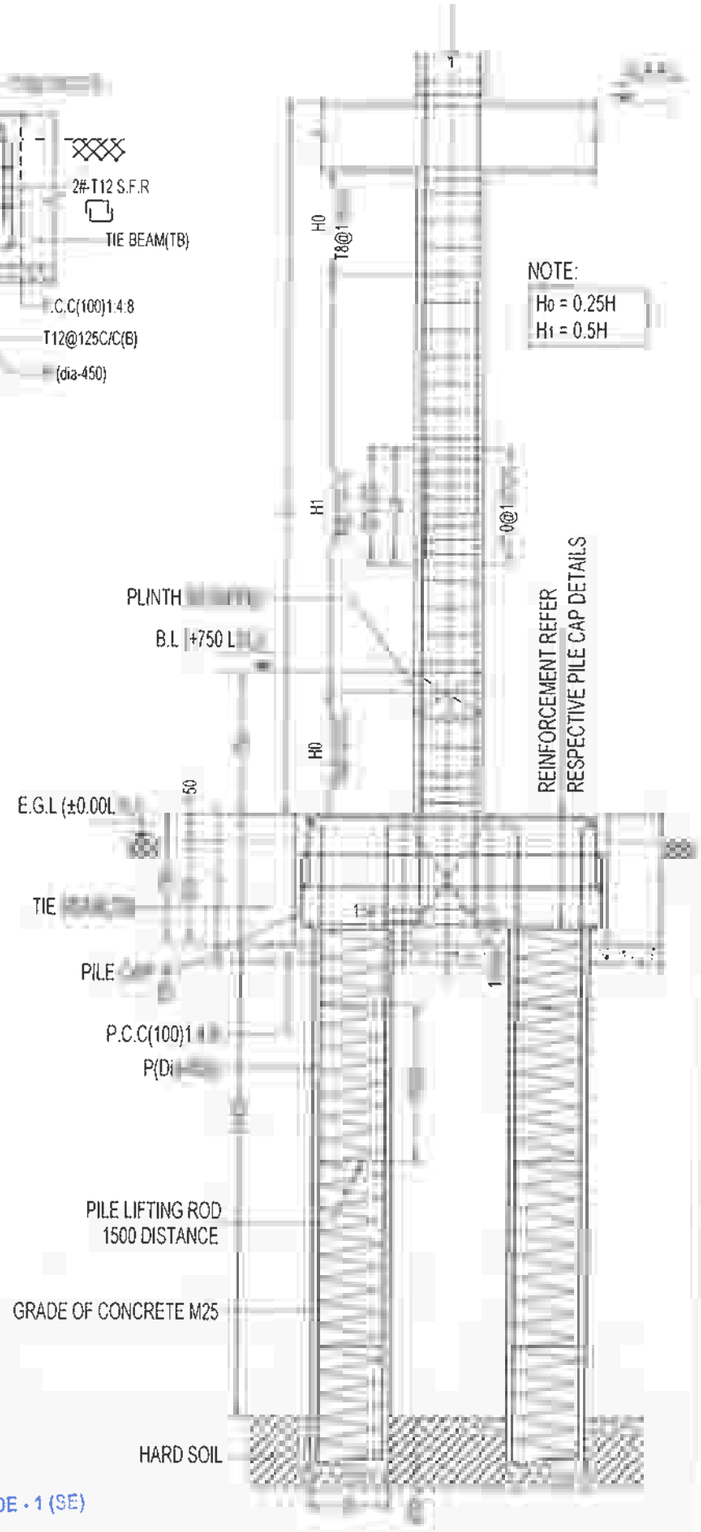
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R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
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NOTE:
H0 = 0.25H
H1 = 0.5H

REINFORCEMENT REFER
RESPECTIVE PILE CAP DETAILS

TYPICAL COLUMN & PILE
CONFINING DETAILS

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ADITYARAM GROUP

STRUCTURAL CONSULTANT

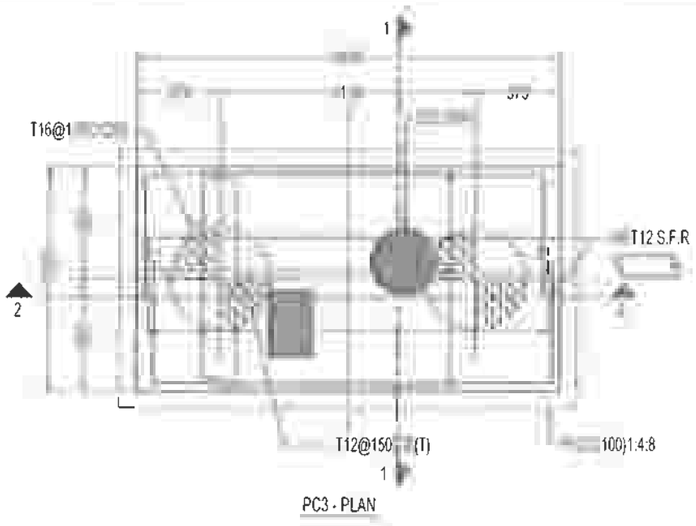
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

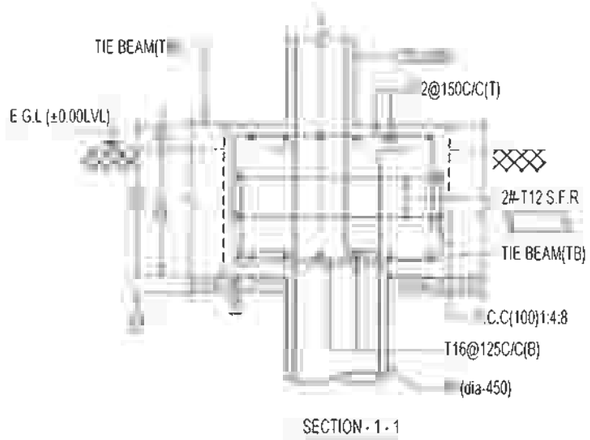
DRAWING NAME

PILE & PILE CAP DETAILS - 1

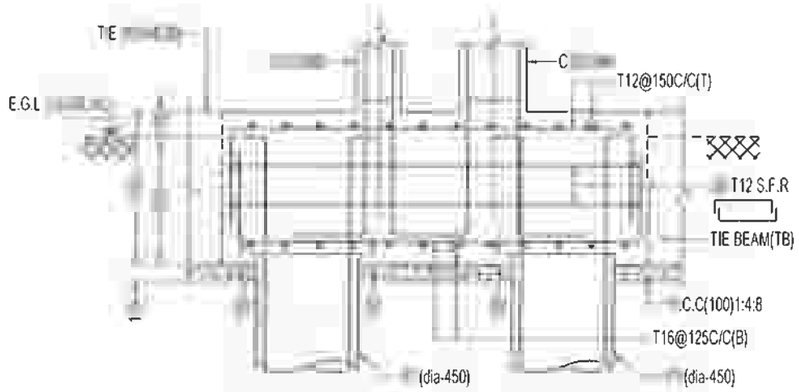
REV	DATE	PROJECT NO	SHEET NO
R0	1/1	ST-2025-09-13	05



PC3 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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CLEAR COVER TO REINFORCEMENT

- A. COLUMNS = 1½"
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- E. PLINTH BEAM = 1"
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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 83)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

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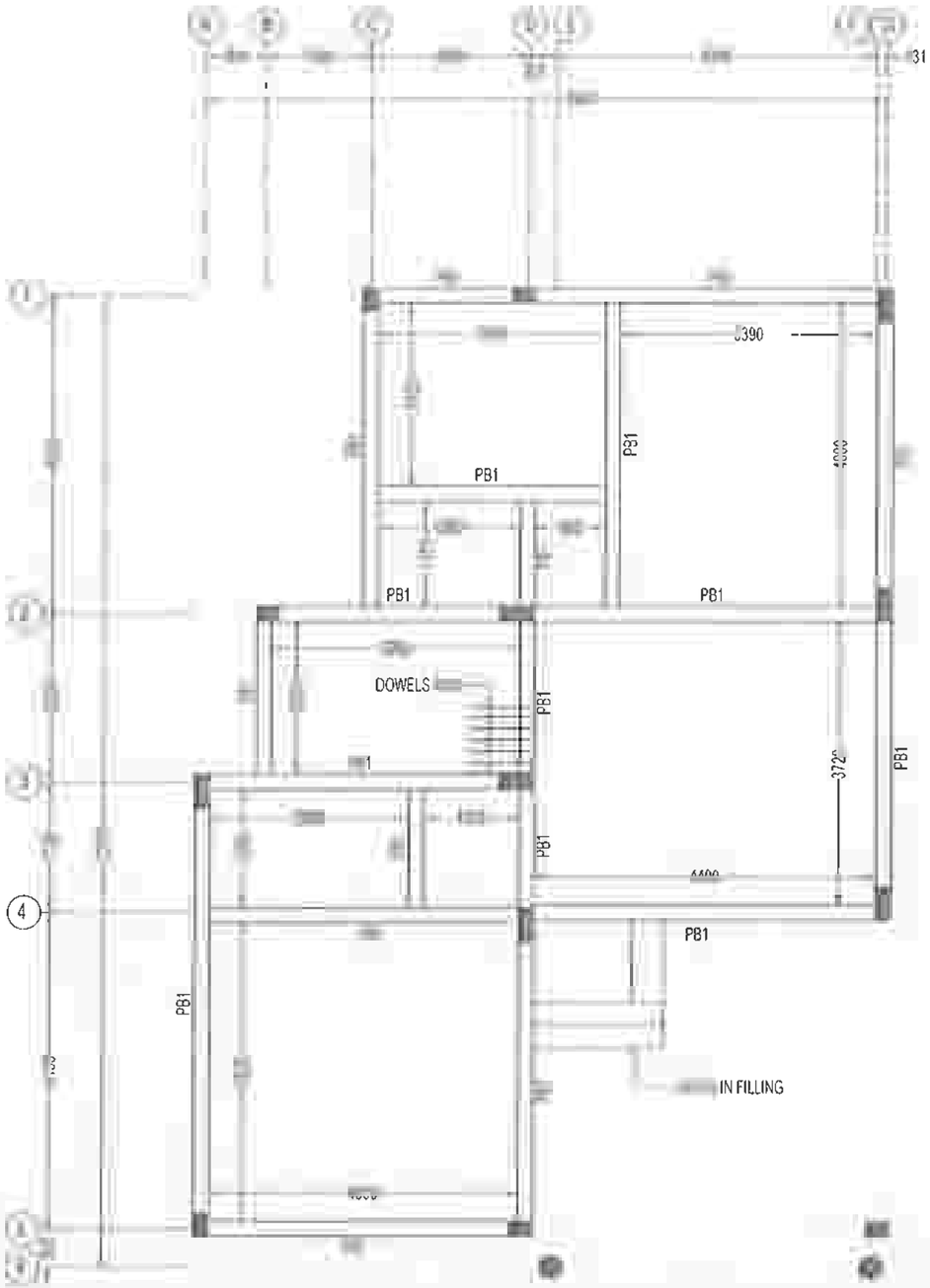
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www ralconsultancy.com

DESIGNED	RK	RELEASED FOR
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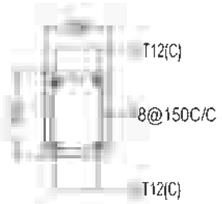
DRAWING NAME

PILE & PILE CAP DETAILS - 2

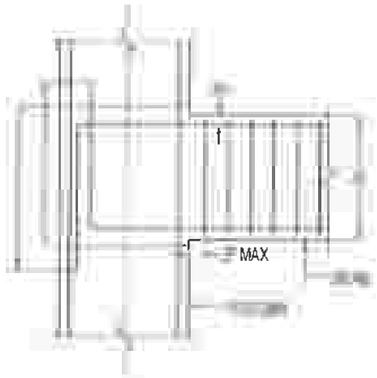
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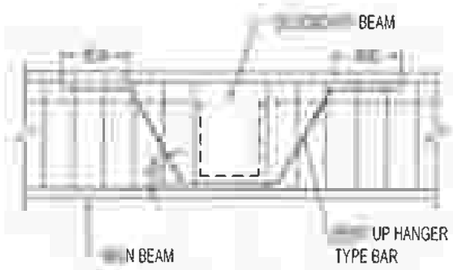
PLINTH BEAM(PB) LAYOUT



PB1 - 200 X 300
C/S DETAILS



TYPICAL EXTERNAL JOINT DETAILS AT
BEAM COLUMN JUNCTION
(Ld-45 Times of dia Bar)



WHERE CROSS BEAM SHEAR ROD SHOULD BE
PROVIDED AT 2-T16

LEGENDS

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

R. RAVIKUMAR
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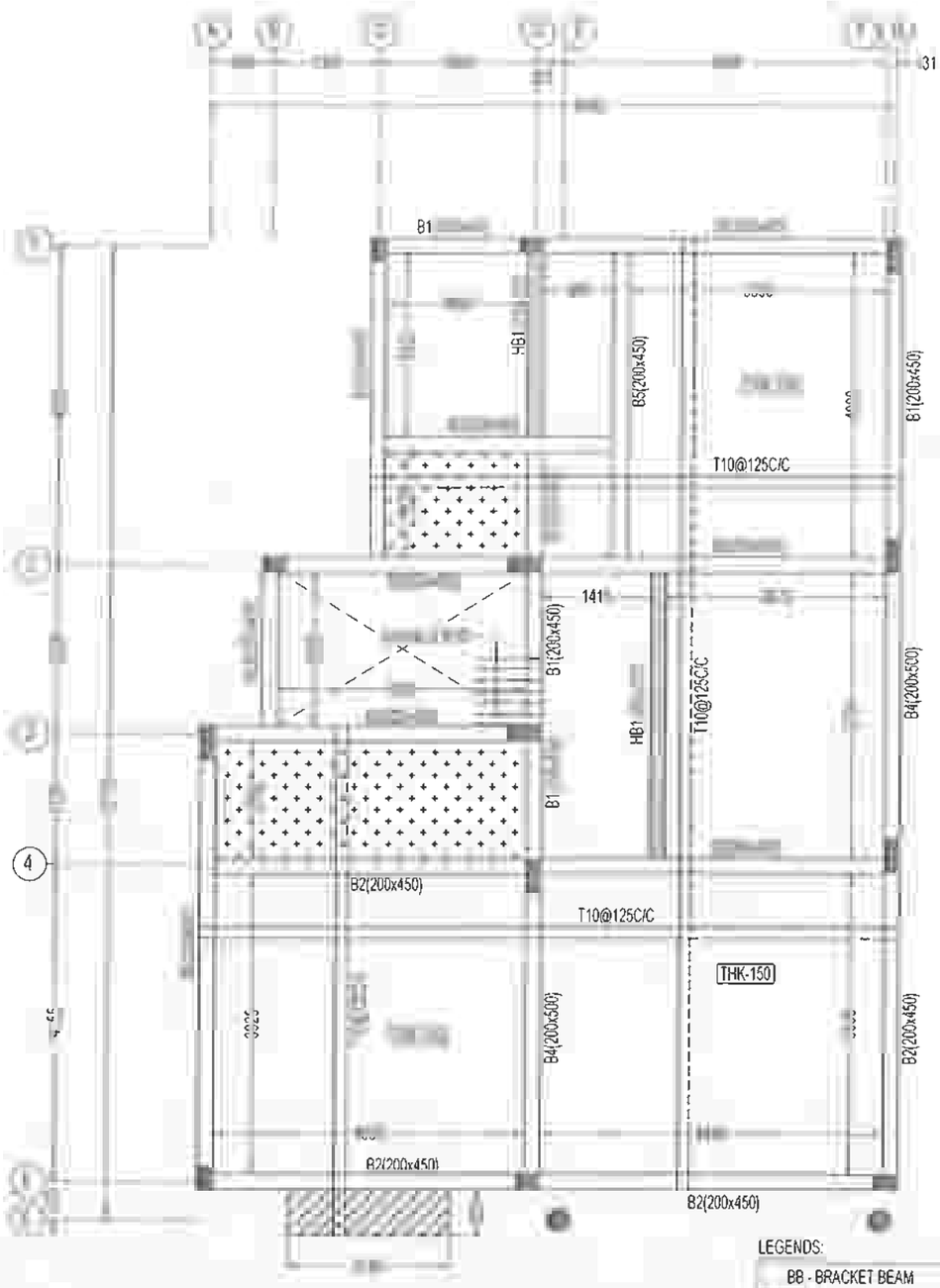
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CHENNAI - 600 117
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PLINTH BEAM(PB) LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	1/12/202	ST-2025-09-13	07



LEGENDS:

- TOP ROD
- BOTTOM ROD
THK - THICKNESS

GROUND FLOOR ROOF BEAM LAYOUT & SLAB DETAILS

LEGENDS:

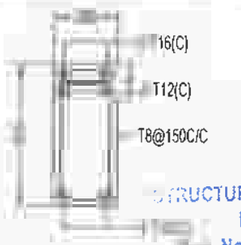
- BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) T8@150C/C T16(C)	T16(C) T8@150C/C	T16(C) 50C/C T16(C)
(200 X 450) B2	T16(C) T16(C) T16(C) T16(C)	T16(C) T16(C) T10@125C/C T16(C) 6(C)	T16(C) T16(C) T10@125C/C 16(C)
(200 X 450) B3	T12(C) 25C/C T16(C)	T12(C) 25C/C T16(C)	T12(C) T16(C)
(200 X 500) B4	T16(C) T16(C) 10@100C/C T16(C) T16(C)	T16(C) T16(C) T16(C) T16(C)	T16(C) T16(C) 00C/C T16(C) T16(C)
(200 X 450) B3	T8@150C/C 12(C) T16(C)	T16(C) T12(C) T16(C)	T16(C) 50C/C T12(C) T16(C)



HB1 - 200 x 150
C/S DETAILS



MLB - 200 x 450
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

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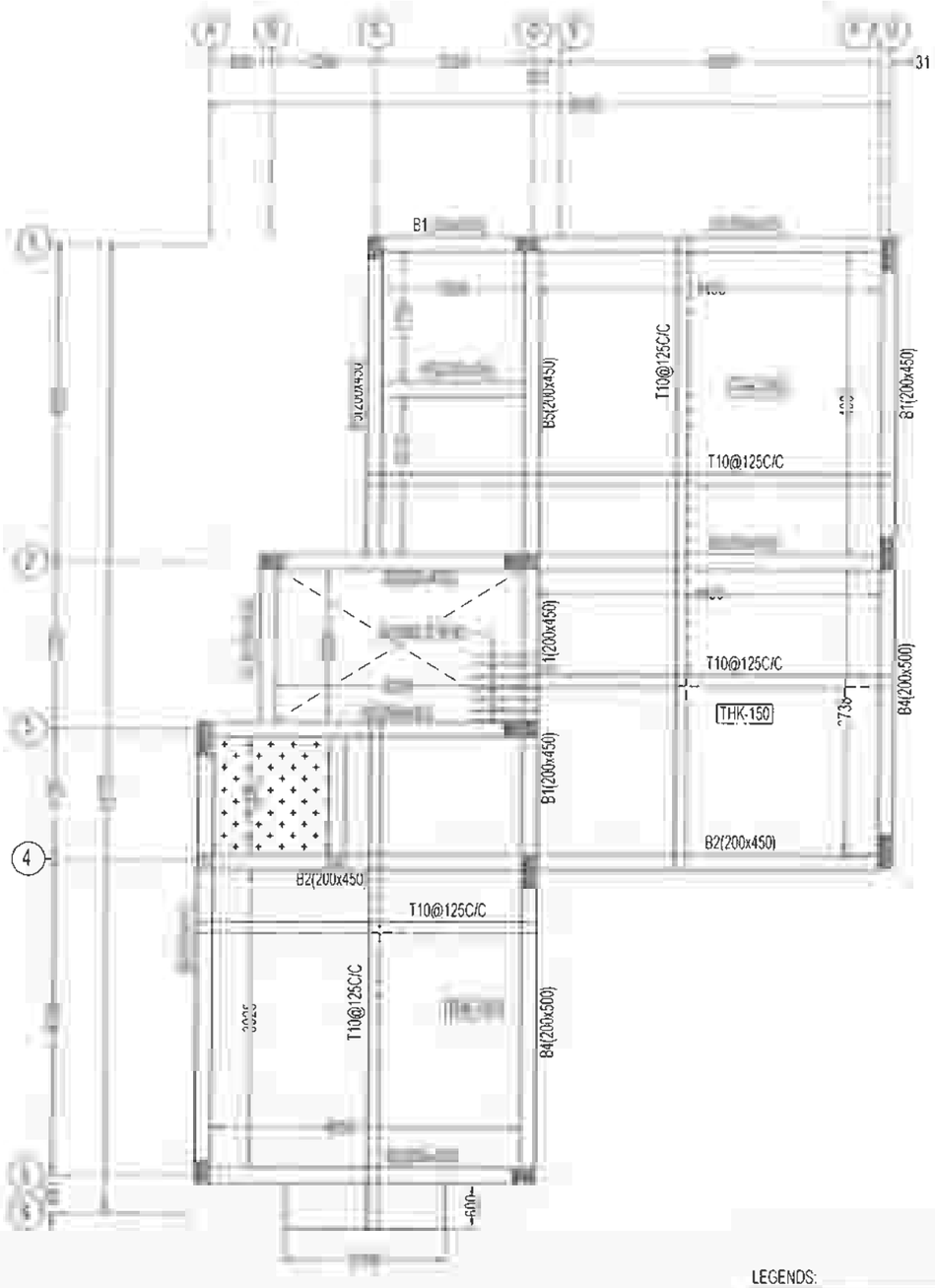
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM & SLAB DETAILS

REV	DATE	OJECT NO	HEET.N
R0	1/1	ST-2025-09-13	08



LEGENDS:

- TOP ROD
- BOTTOM ROD
THK - THICKNESS

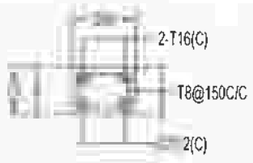
TERRACE BEAM LAYOUT & SLAB DETAILS

LEGENDS:

BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 300mm TOILET SLAB SUNKEN

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) 150C/C T16(C)	T16(C) 150C/C T16(C)	T16(C) T8@150C/C T16(C)
(200 X 450) B2	T16(C) T16(C) T16(C) T16(C)	T16(C) T16(C) T16(C) T16(C)	T16(C) T10@125C/C T16(C)
(200 X 450) B3	T12(C) 25C/C T16(C)	T12(C) 25C/C T16(C)	T12(C)
(200 X 500) B4	T16(C) T16(C) 10@100C/C T16(C) T16(C)	T16(C) T16(C) T16(C) T16(C) T16(C)	T16(C) T16(C) 0@100C/C T16(C) T16(C)
(200 X 450) B3	50C/C T12(C) T16(C)	T16(C) 50C/C T12(C) T16(C)	T16(C) 50C/C T12(C)



HB1 - 200 x 150
C/S DETAILS



MLB - 200 x 450
C/S DETAILS

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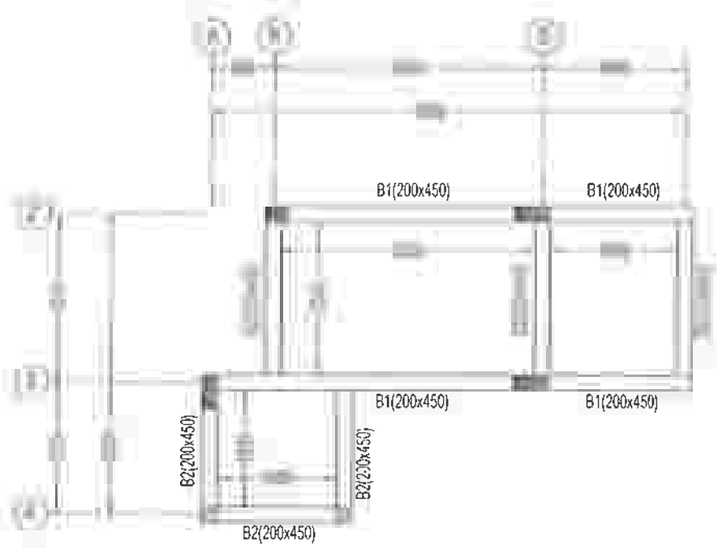
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DRAWING NAME

TERRACE BEAM & SLAB DETAILS

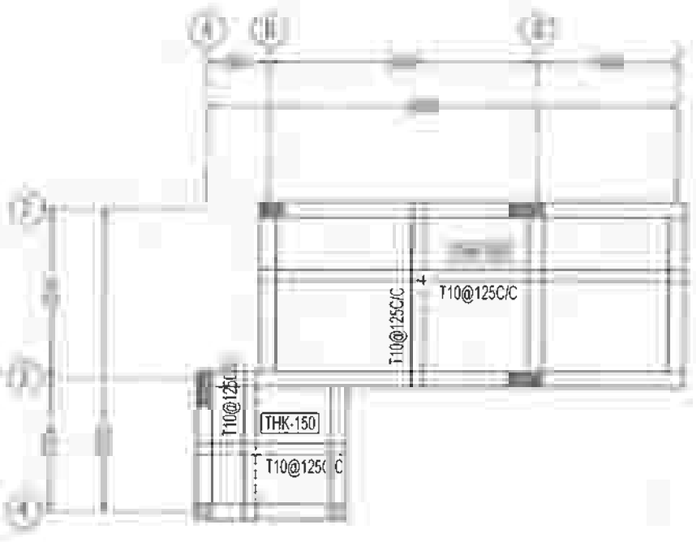
REV	DATE	PROJECT NO	SHEET.NO
R0	1/1[redacted]	ST-2025-09-13	09



HEAD ROOM BEAM LAYOUT

HEAD ROOM BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) T16(C) T10@125C/C T16(C) T16(C)	T16(C) T16(C) T10@125C/C T16(C) T16(C)	T16(C) T16(C) 0@125C/C T16(C) T16(C)
(200 X 450) B2	T16(C) T8@150C/C T16(C)	T16(C) T16(C)	T16(C) T16(C)



HEAD ROOM SLAB DETAILS

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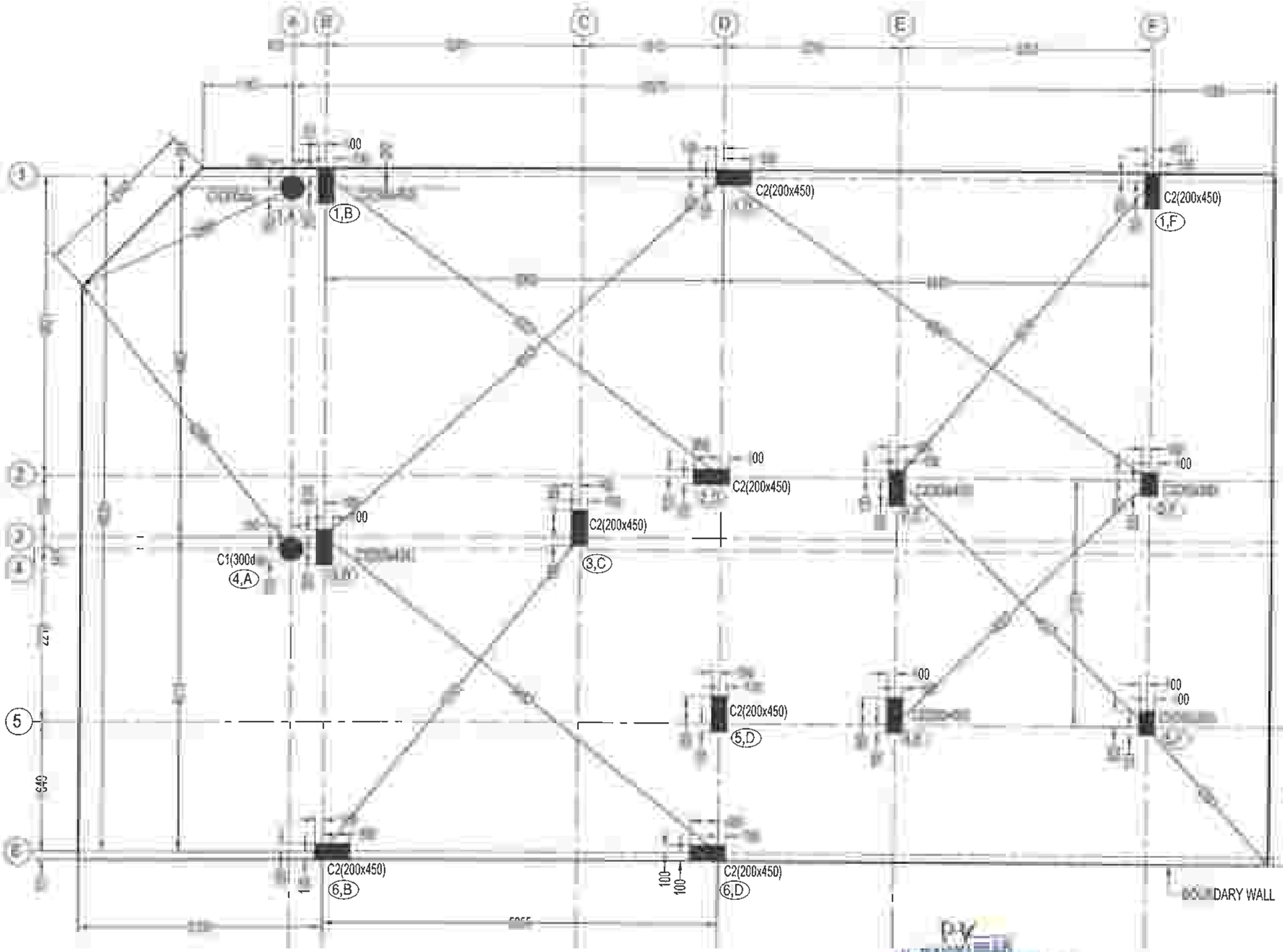
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

HEAD ROOM LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	1/1[redacted]	ST-2025-09-13	10



COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

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CLIENT

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

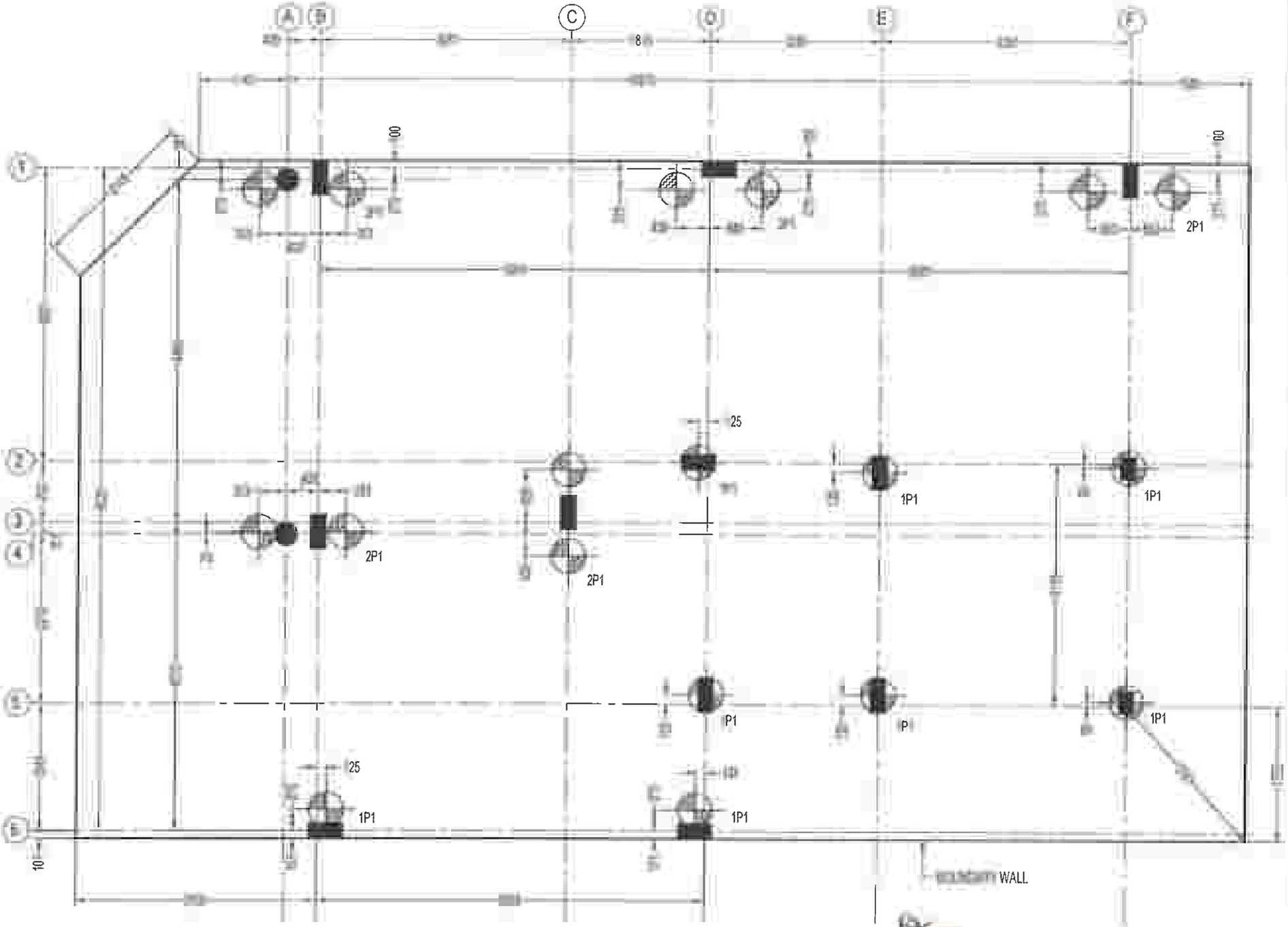
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CONTACT +91 9087726267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-07	01



PILE MARKING LAYOUT

R. RAVI
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/2012/231 (CMDA)

LEGENDS

P -PILE (450dia)

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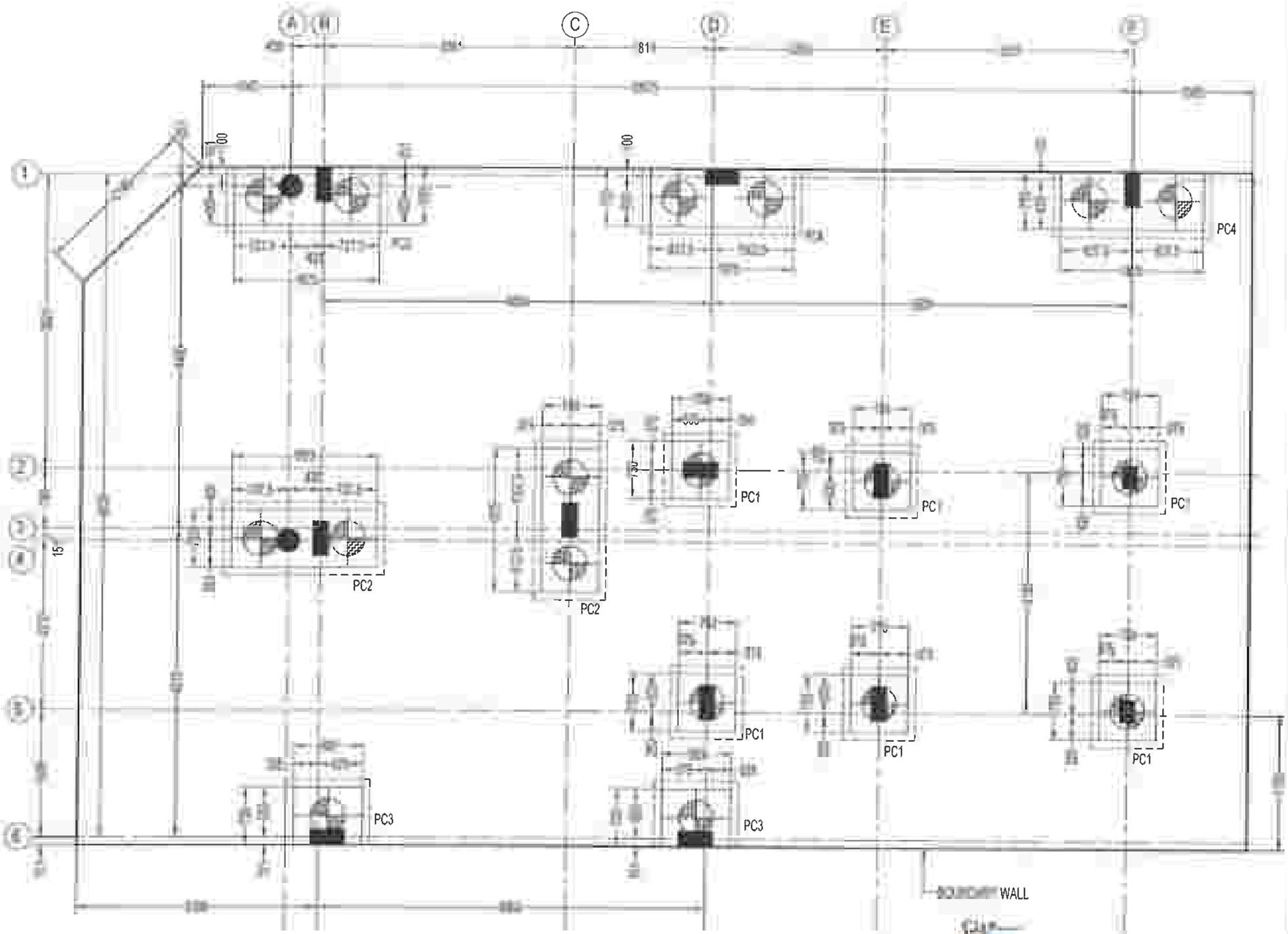
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	10/202	ST-2025-09-07	02



PILE CAP(PC) MARKING LAYOUT

PC - PILE CAP

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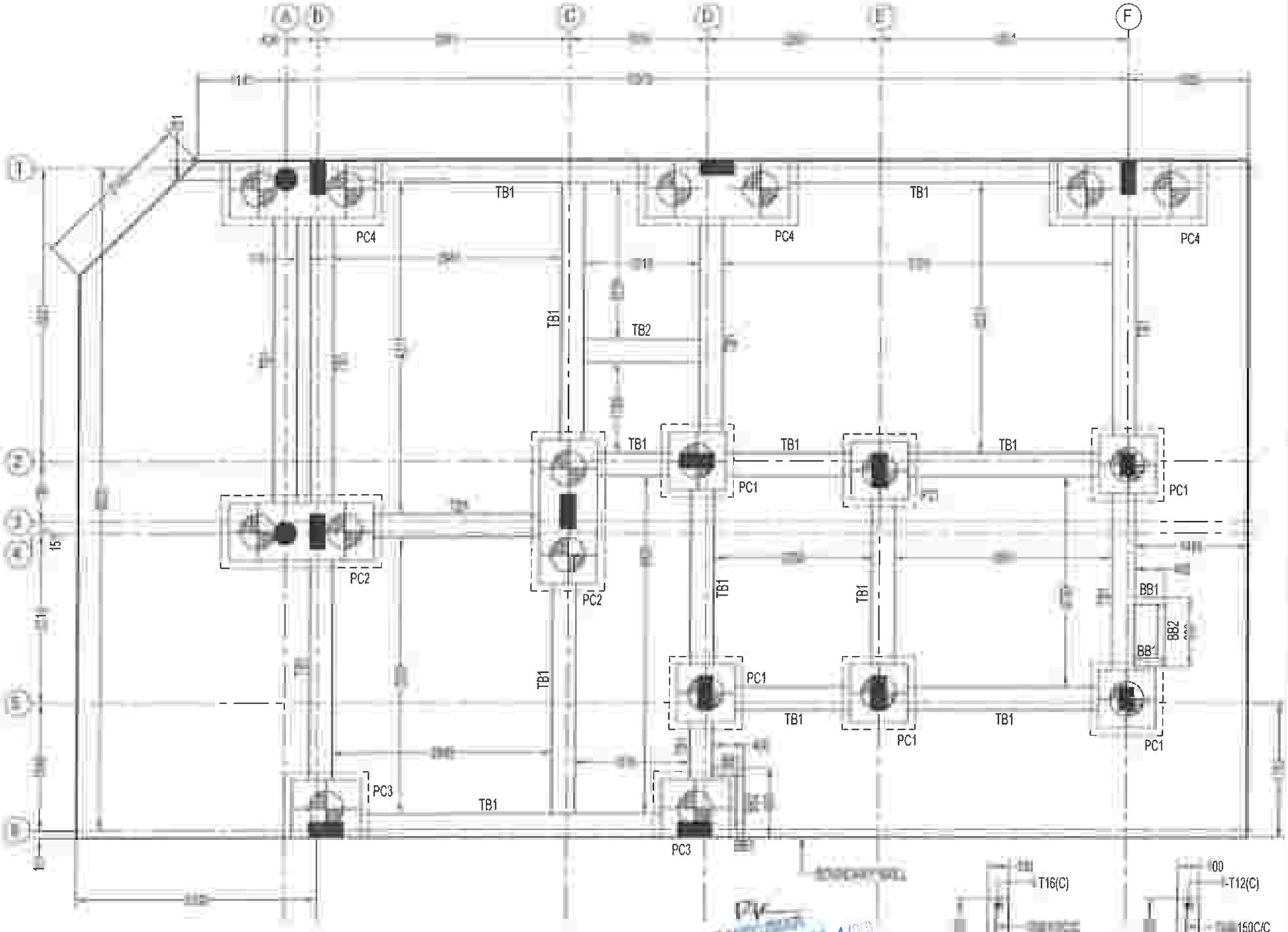
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET
R1		ST-2025-09-07	03



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NEW NO 200 FEET ROAD,
EACHAN KOVILAMBAKKAM,
CHENNAI
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www .ralconsultancy.com
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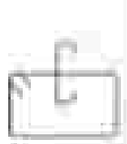
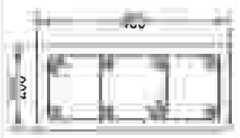
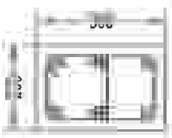
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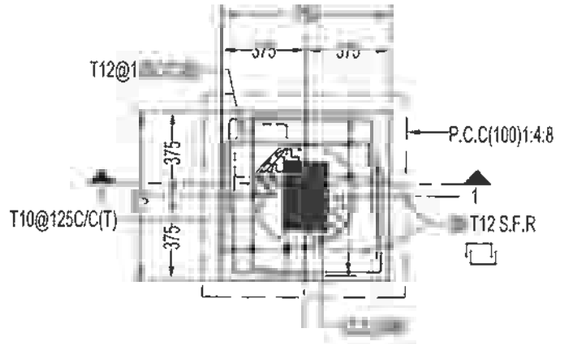
PILE CAP & TIE

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-07	04

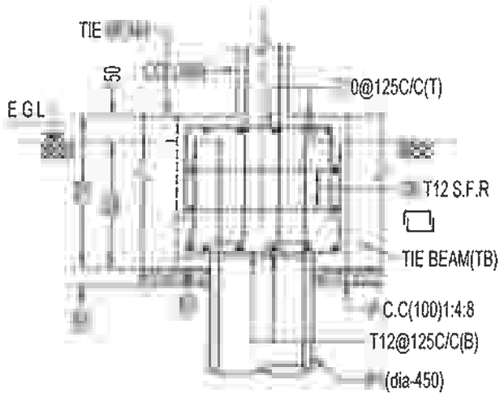
COLUMN REINFORCEMENT SCHEDULE:

TERRACE FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙ - T16 ⊕ - T12			
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
			
	6-T16	8-T16	4-T16 + 2-T12
COLUMN MARKED	C1	C2	C3

PILE (P1) - PLAN



PC1 - PLAN

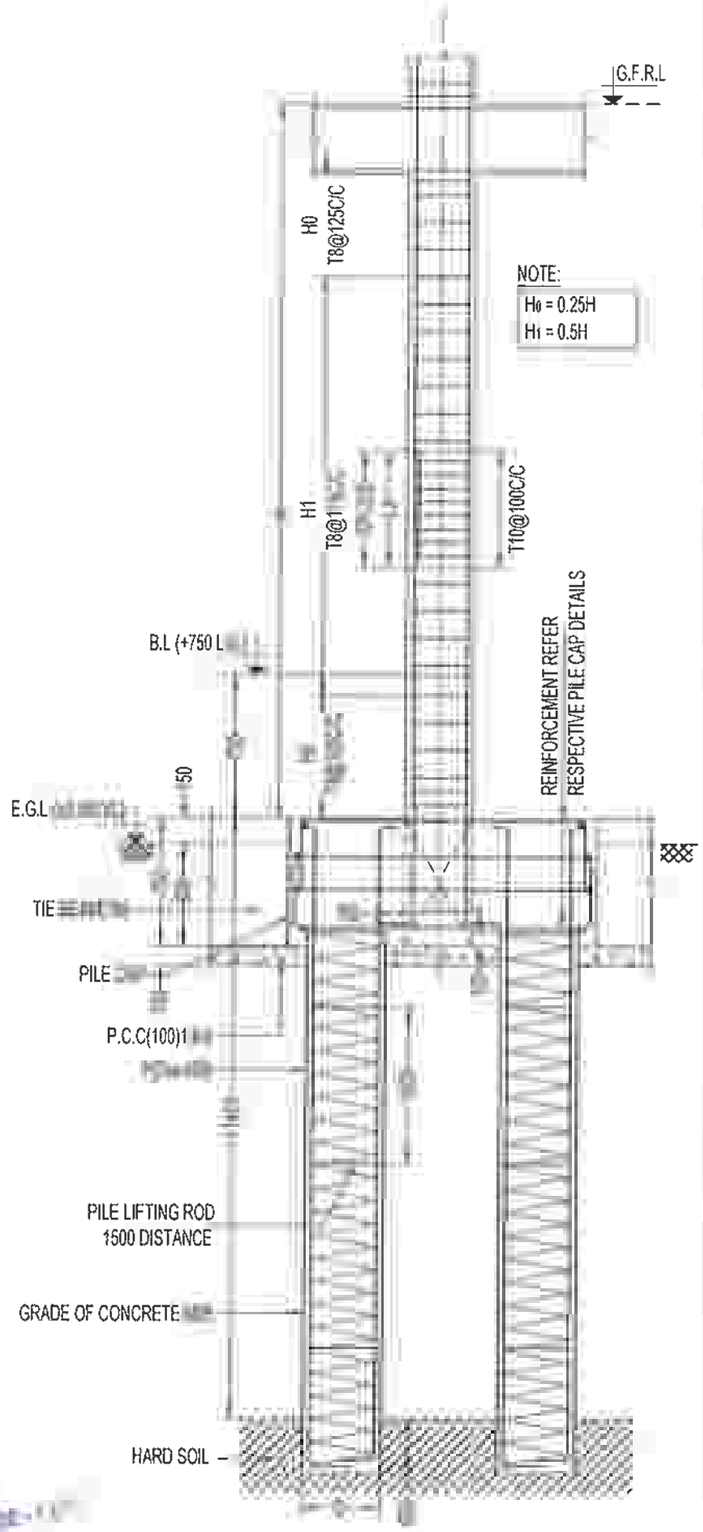


SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

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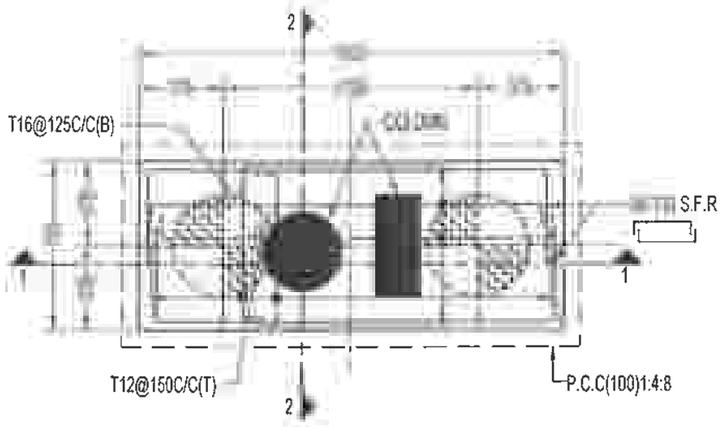
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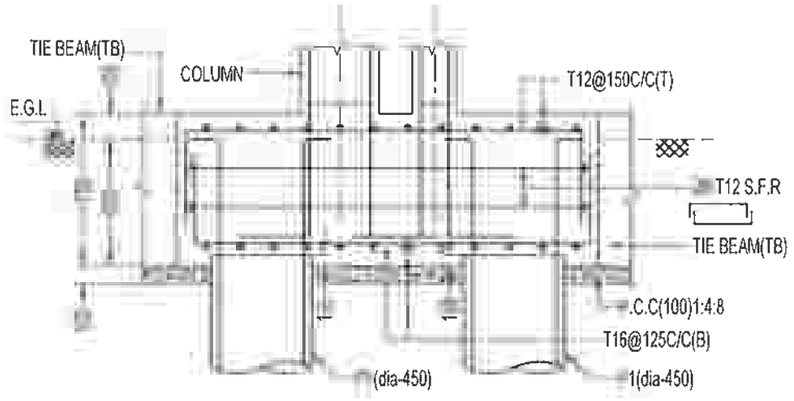
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

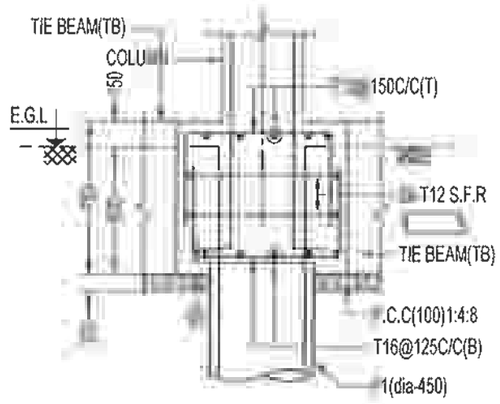
REV	DATE	PROJECT NO	SHEET NO
R1	9/10/2	ST-2025-09-07	05



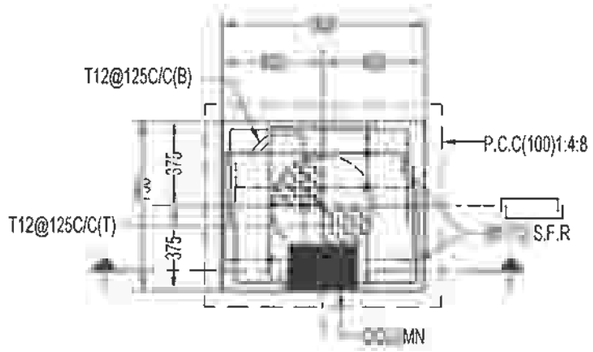
PC2 - PLAN



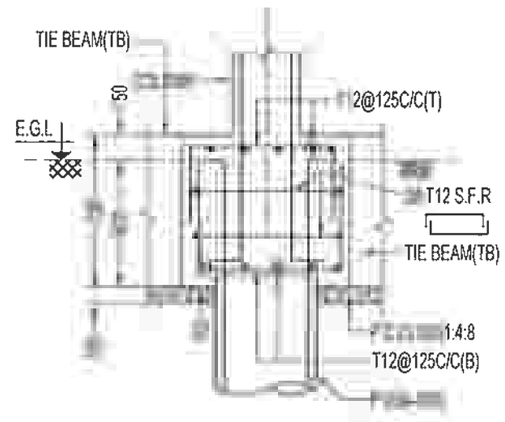
SECTION - 1 - 1



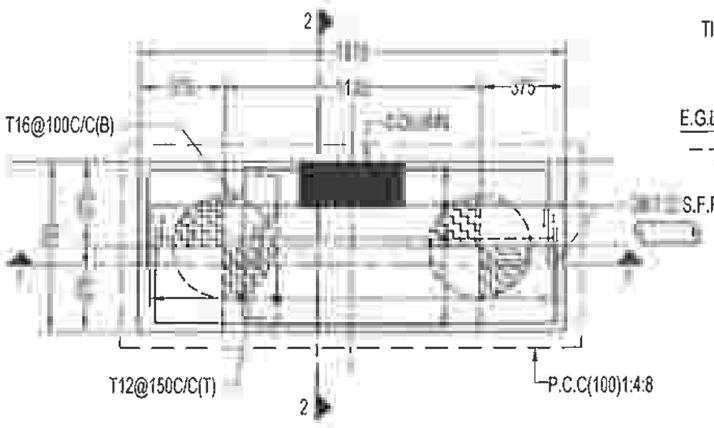
SECTION - 2 - 2



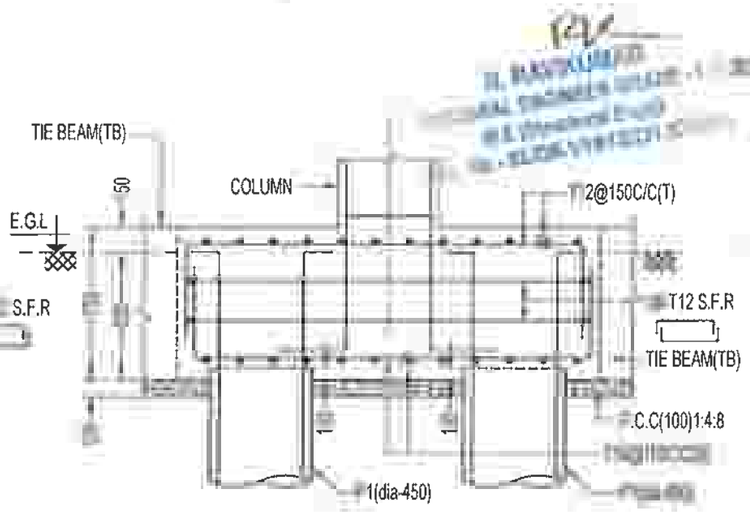
PC3 - PLAN



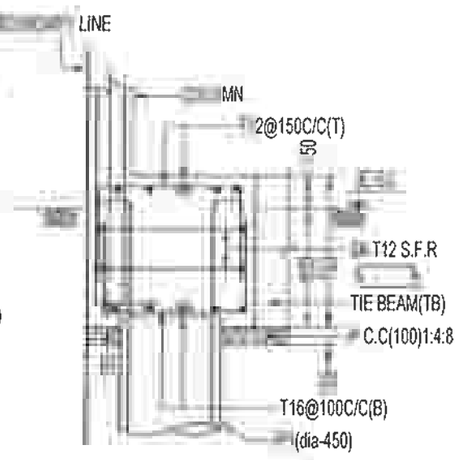
SECTION - 1 - 1



PC4 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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SAFE STRUCTURAL CONSULTANCY

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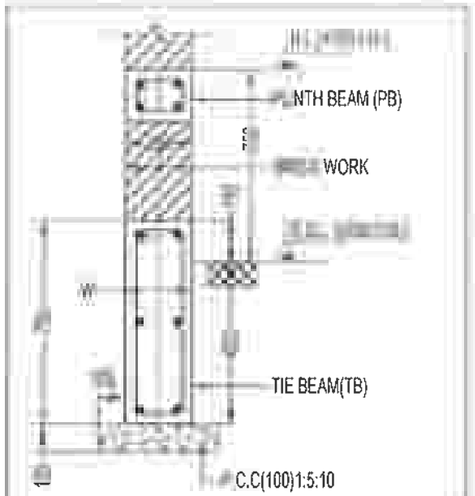
DRAWING NAME

PILE CAP SECTION DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-07	06

TIE BEAM REINFORCEMENT SCHEDULE:

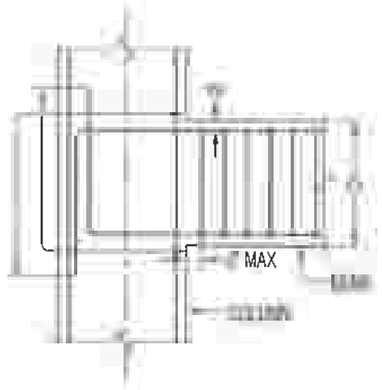
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	3-T16(C) 50C/C C.C 6(C)	T16(C) 50C/C 2-T12(C) S.F.R/E.F C.C 3-T16(C)	T16(C) 50C/C S.F.R/E.F C.C T16(C)
(300 X 300) TB2	T12(C) 50C/C C.C T16+1-T12(C)	T16+1-T12(C) C.C 6+1-T12(C)	T16+1-T12(C) C.C T16+1-T12(C)



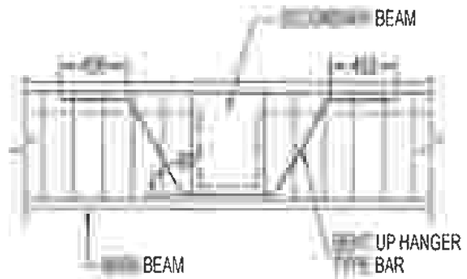
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

LEGENDS

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



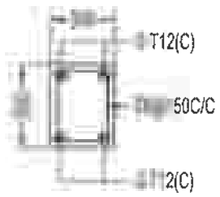
TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION
(Ld-45 Times of dia Bar)



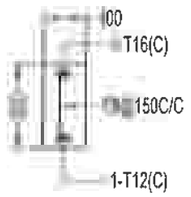
WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

LEGENDS:

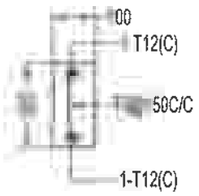
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



PB1 - 200 X 300
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS

RK

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

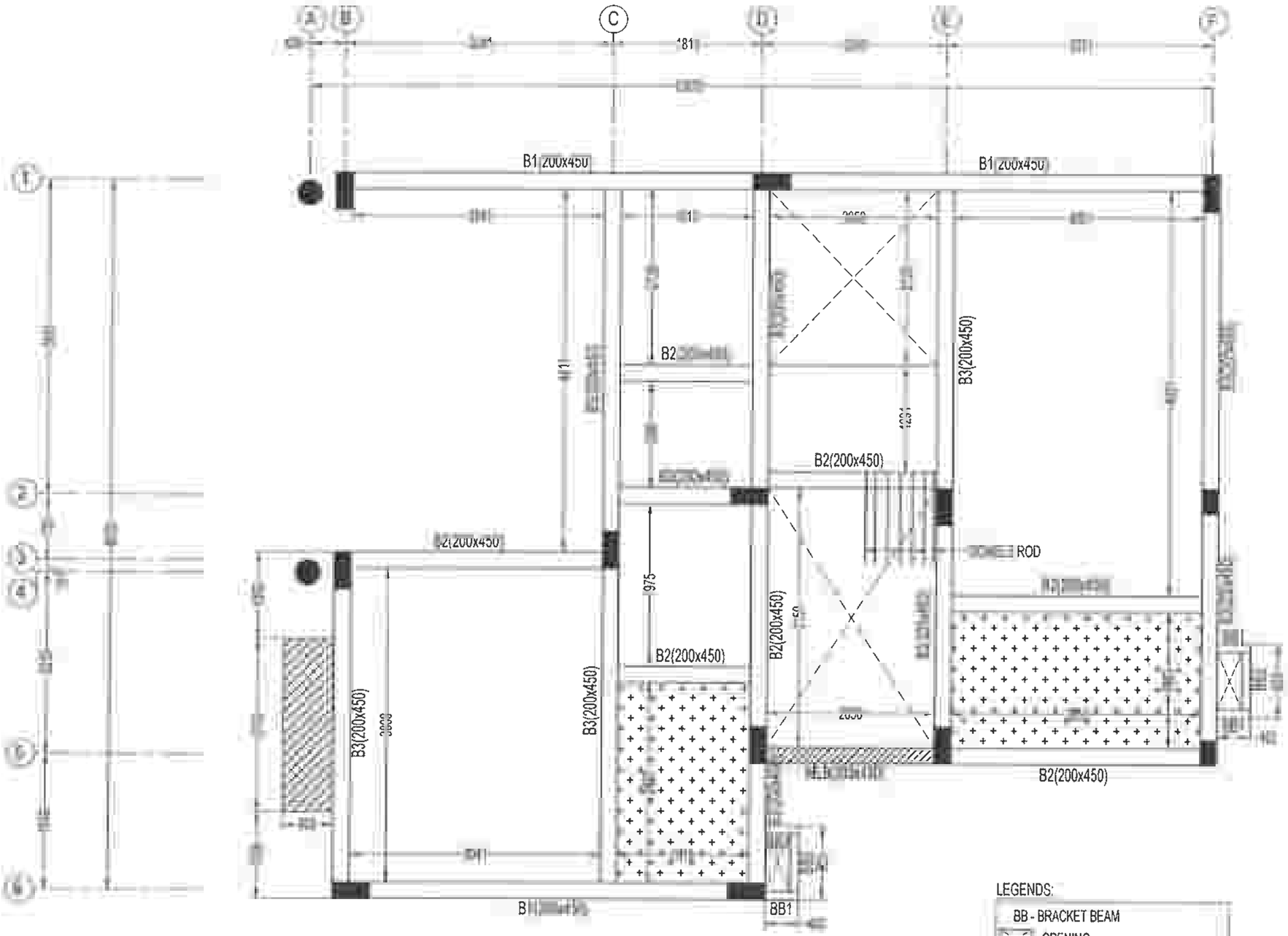
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NE D NO 2/1465, 200 FEET ROAD,
EA NNA NAGAR, KOVILAMBAKKAM,
CH 7.
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Structural Consultancy
ralconsultancy.com

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-07	07



LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - 300mm TOILET SLAB SUNKEN
- - MLB - MID LANDING BEAM
- - 100mm BALCONY SLAB SUNKEN

GROUND FLOOR ROOF BEAM LAYOUT

GRADE - 1 (CII)
Engg)
2/231 (CMDA)

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NE [illegible] D [illegible], 200 FEET ROAD,
EA [illegible] IN [illegible], KOVILAMBAKKAM,
CH [illegible] ?
[illegible] ?
S [illegible] .com
Structural [illegible] tancy [illegible] ralconsultancy.com

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT

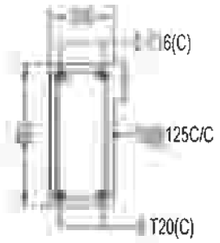
REV	DATE	PROJECT NO	SHEET NO
R1	[illegible]	ST-2025-09-07	08

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1	T16(C), 0@150C/C, T16(C)	6(C), 0@150C/C, T20(E), T16(C)	T16(E), 150C/C, 6(C)	
(200 X 450) B2	6(C), 150C/C, 6(C)	150C/C, 6(C)	T16(C), 50C/C, 6(C)	
(200 X 450) B3	T16(C), 25C/C, T16(C)	T16(C), 12(C), 25C/C, T16(C)	T16(C), T12(C), 25C/C, T12(C), T16(C)	

LEGENDS:

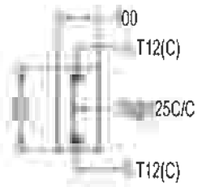
C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



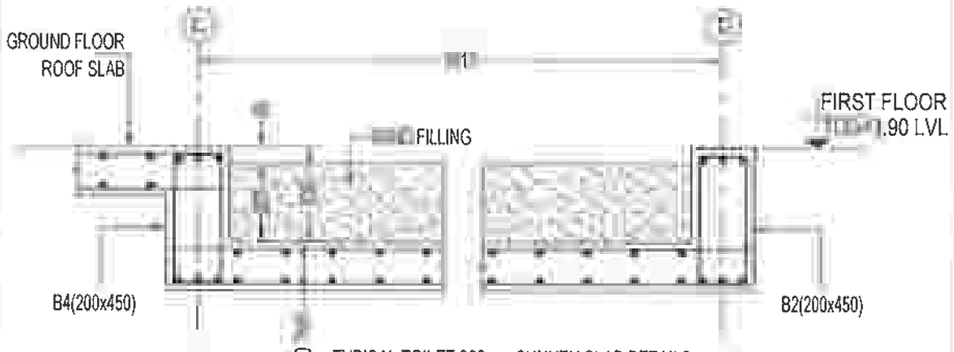
MLB - 200 X 450
C/S DETAILS



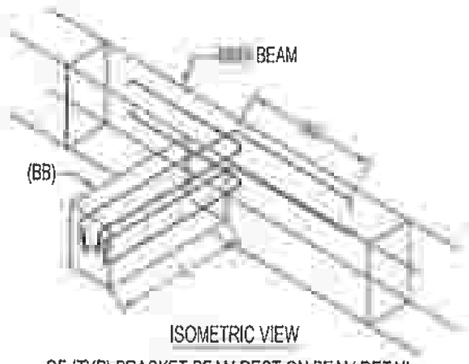
BB1 - 100 X 300
C/S DETAILS



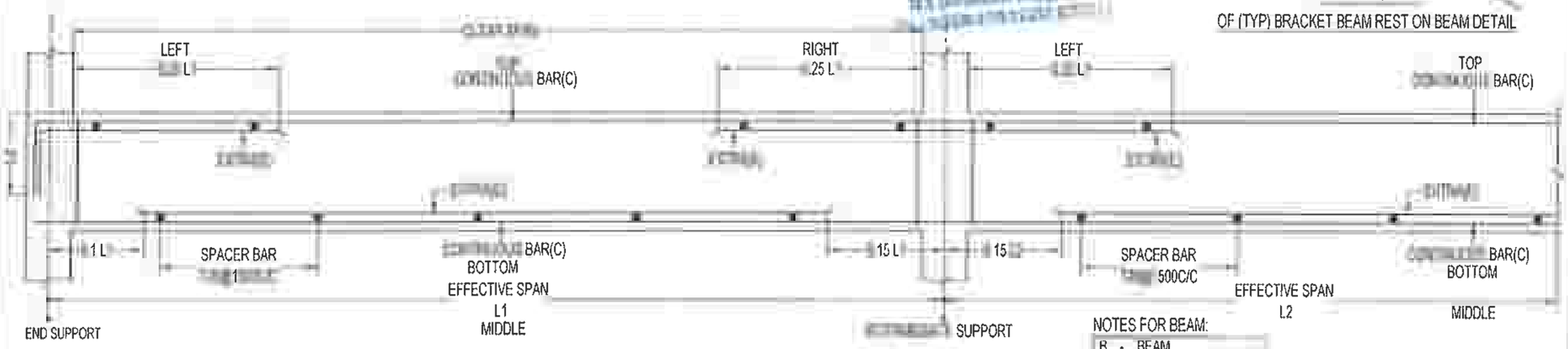
BB2 - 100 X 300
C/S DETAILS



TYPICAL TOILET 300mm SUNKEN SLAB DETAILS
SECTION - A - A



ISOMETRIC VIEW
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM:

B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

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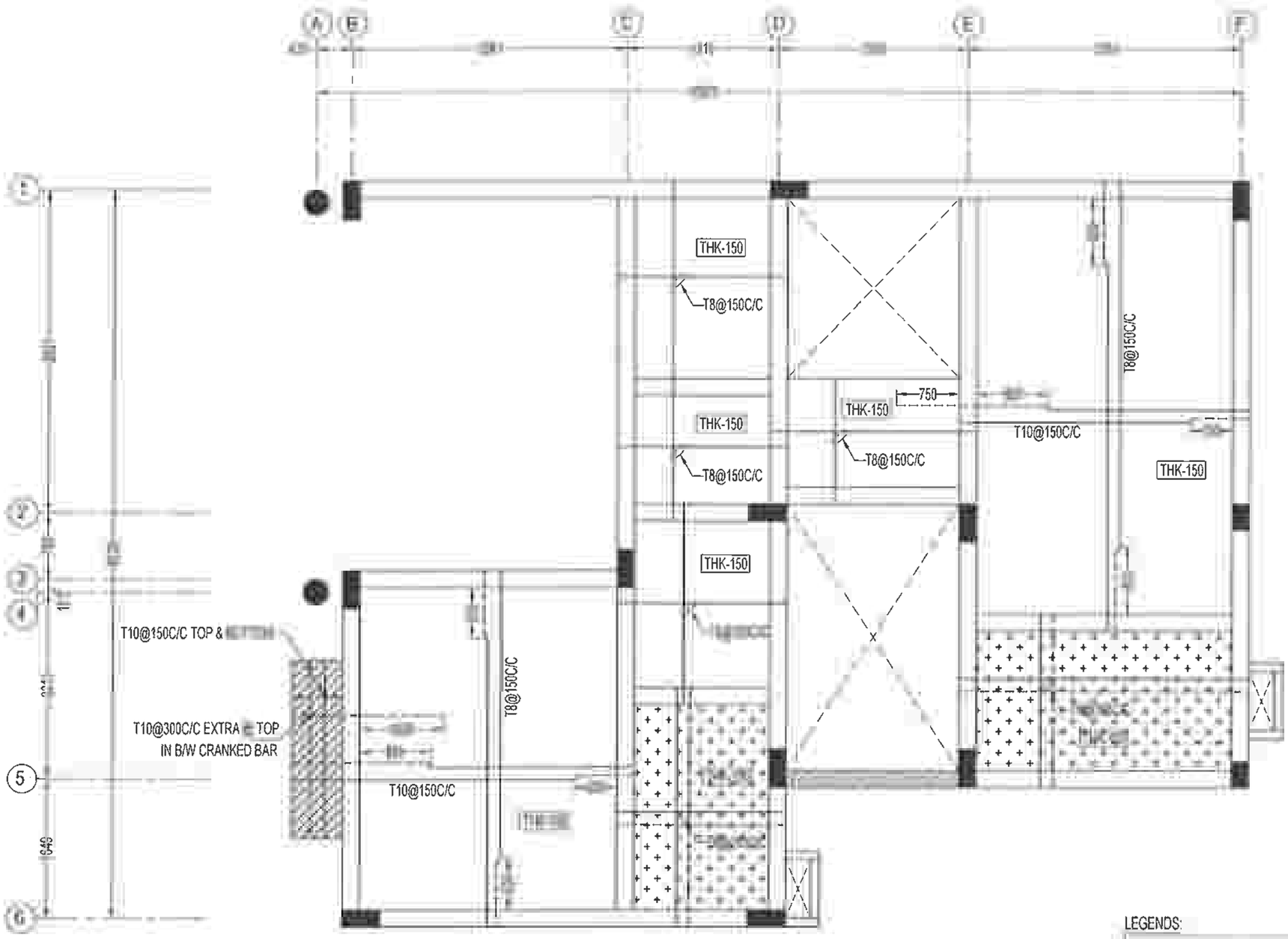
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PH: [illegible]7
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1	9/1[illegible]	ST-2025-09-07	09



LEGENDS:

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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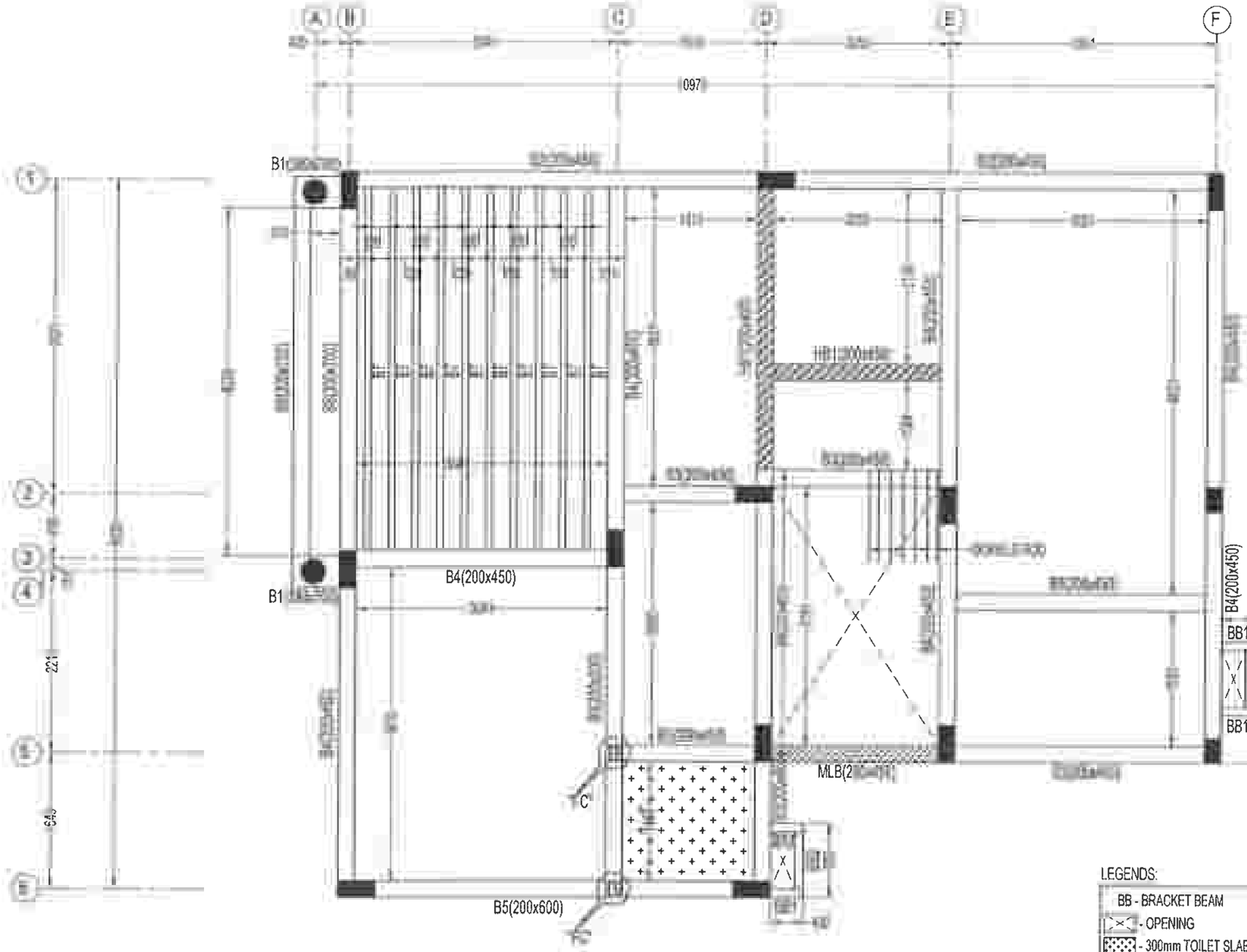
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-07	10



TERRACE BEAM LAYOUT

LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - 300mm TOILET SLAB SUNKEN
- - MLB - MID LANDING BEAM
- - FC - FLOATING COLUMN

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
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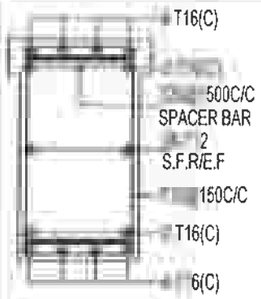
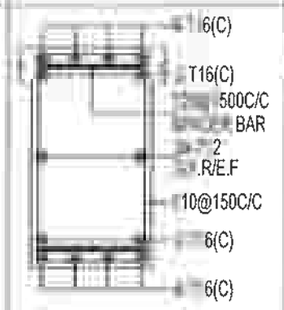
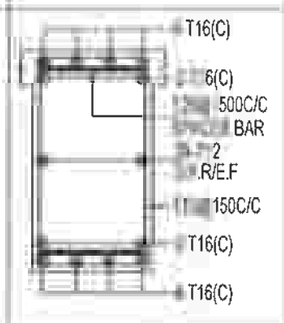
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SHEET	A3	☐ CONSTRUCTION

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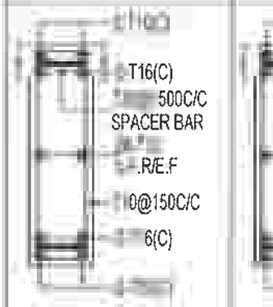
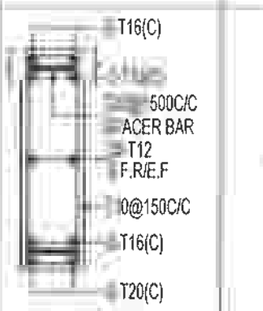
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	9/1[illegible]	ST-2025-09-07	11

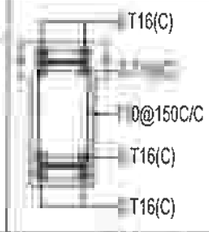
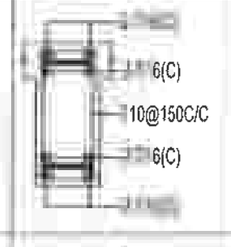
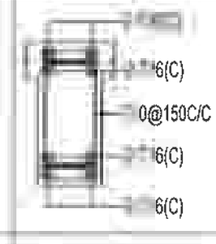
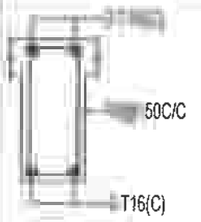
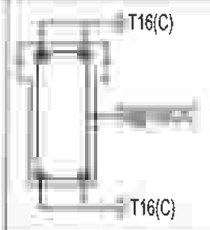
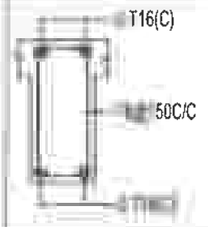
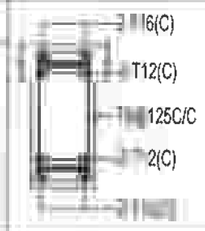
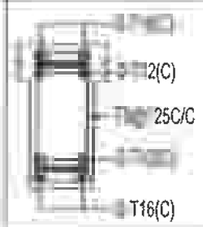
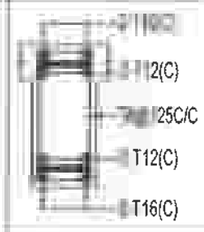
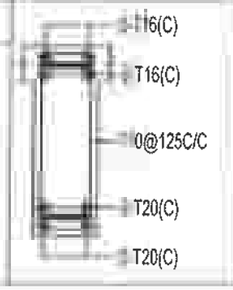
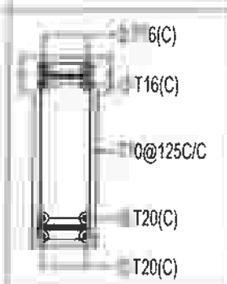
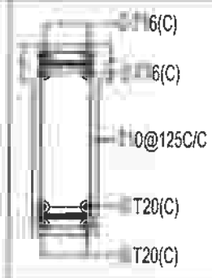
TERRACE BEAM REINFORCEMENT SCHEDULE

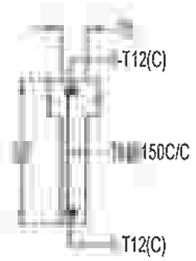
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 700) B1			

TERRACE BEAM REINFORCEMENT SCHEDULE:

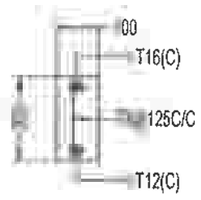
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 700) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE:

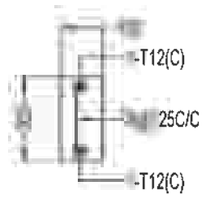
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 600) B5				



B7 - 75x450
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



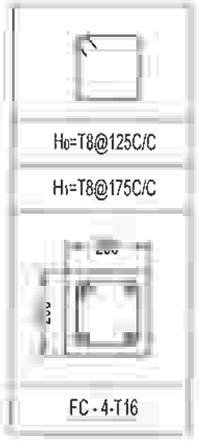
MLB - 200 X 450
C/S DETAILS

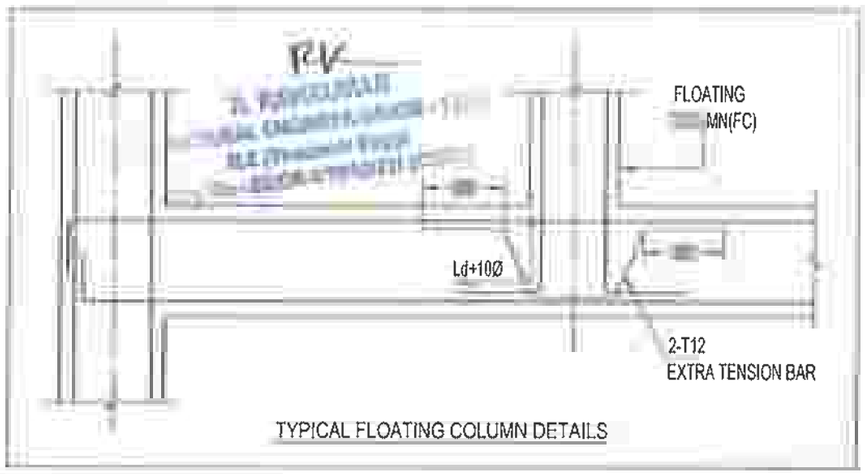


HB1 - 200 X 150
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE





TYPICAL FLOATING COLUMN DETAILS

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7. "6" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
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LAP JOINTS FOR REINFORCEMENT BARS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 86)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

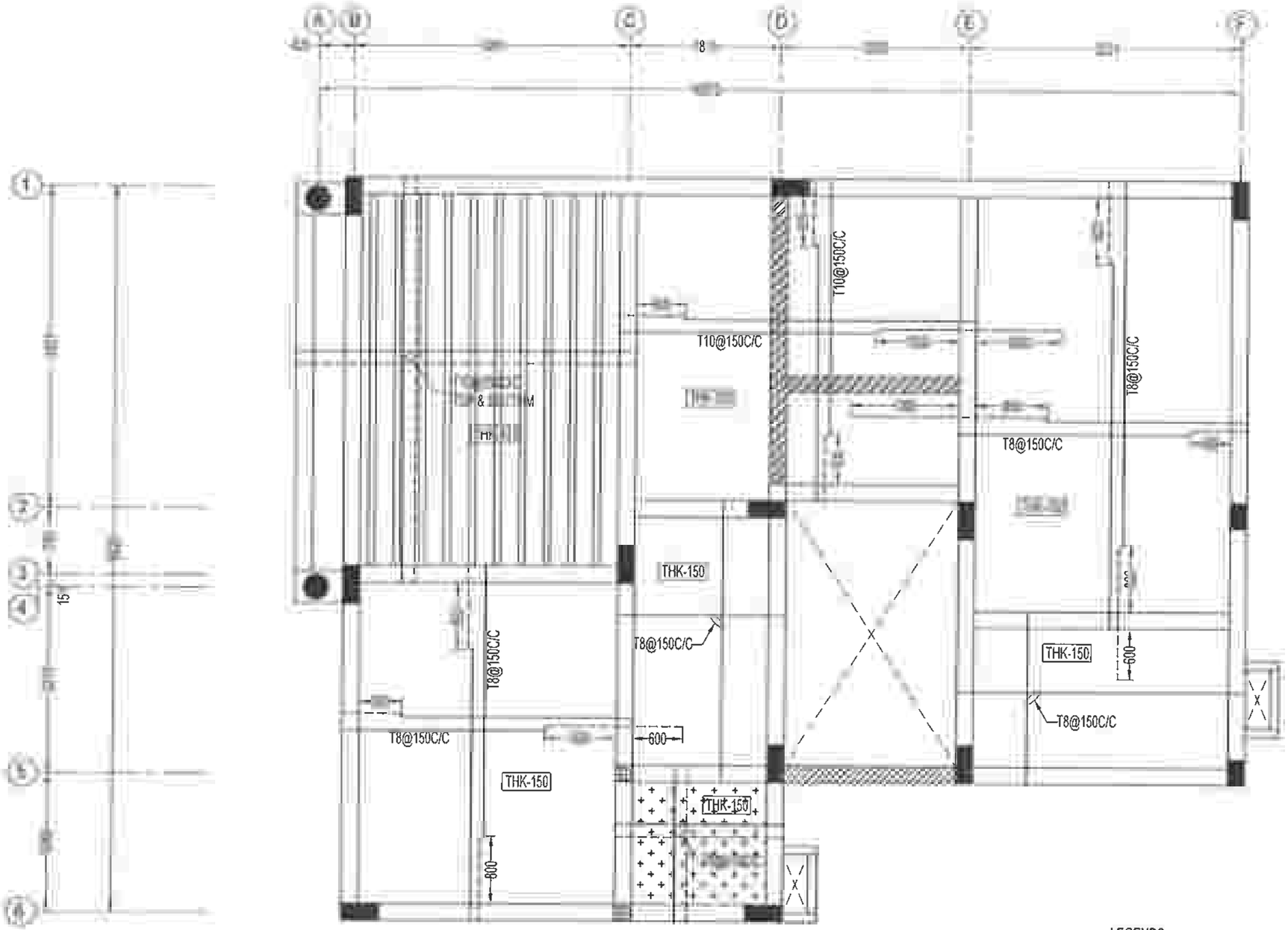
SAFE STRUCTURAL CONSULTANCY
NEW NO D.NO 2/1466, 200 FEET ROAD,
EACHAN NNA NAGAR, KOVILAMBAKKAM,
CHENNA 7.
CT.: 7
Safe ciurate .com
Structural Consultancy www ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	0/2	ST-2025-09-07	12



TERRACE SLAB LAYOUT & DETAILS

LEGENDS:

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

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CLIENT

PROJECT

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

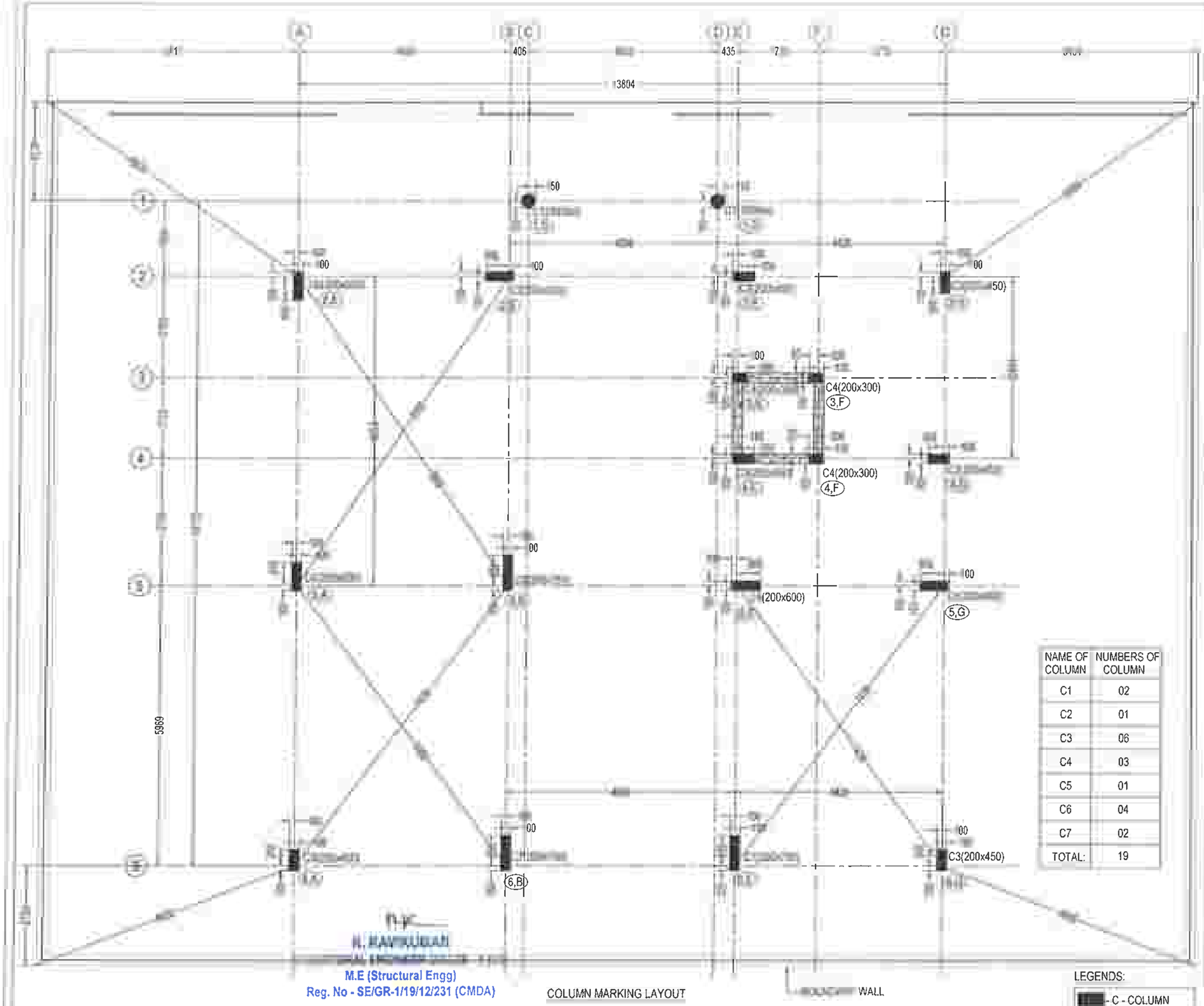
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1486, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI 600 117.
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1	9/10/2	ST-2025-09-07	13



NAME OF COLUMN	NUMBERS OF COLUMN
C1	02
C2	01
C3	06
C4	03
C5	01
C6	04
C7	02
TOTAL:	19

M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

COLUMN MARKING LAYOUT

LEGENDS:
- C - COLUMN
- WALL

DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY

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ALL RCC MEMBERS IN M25 GRADE

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CLIENT

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

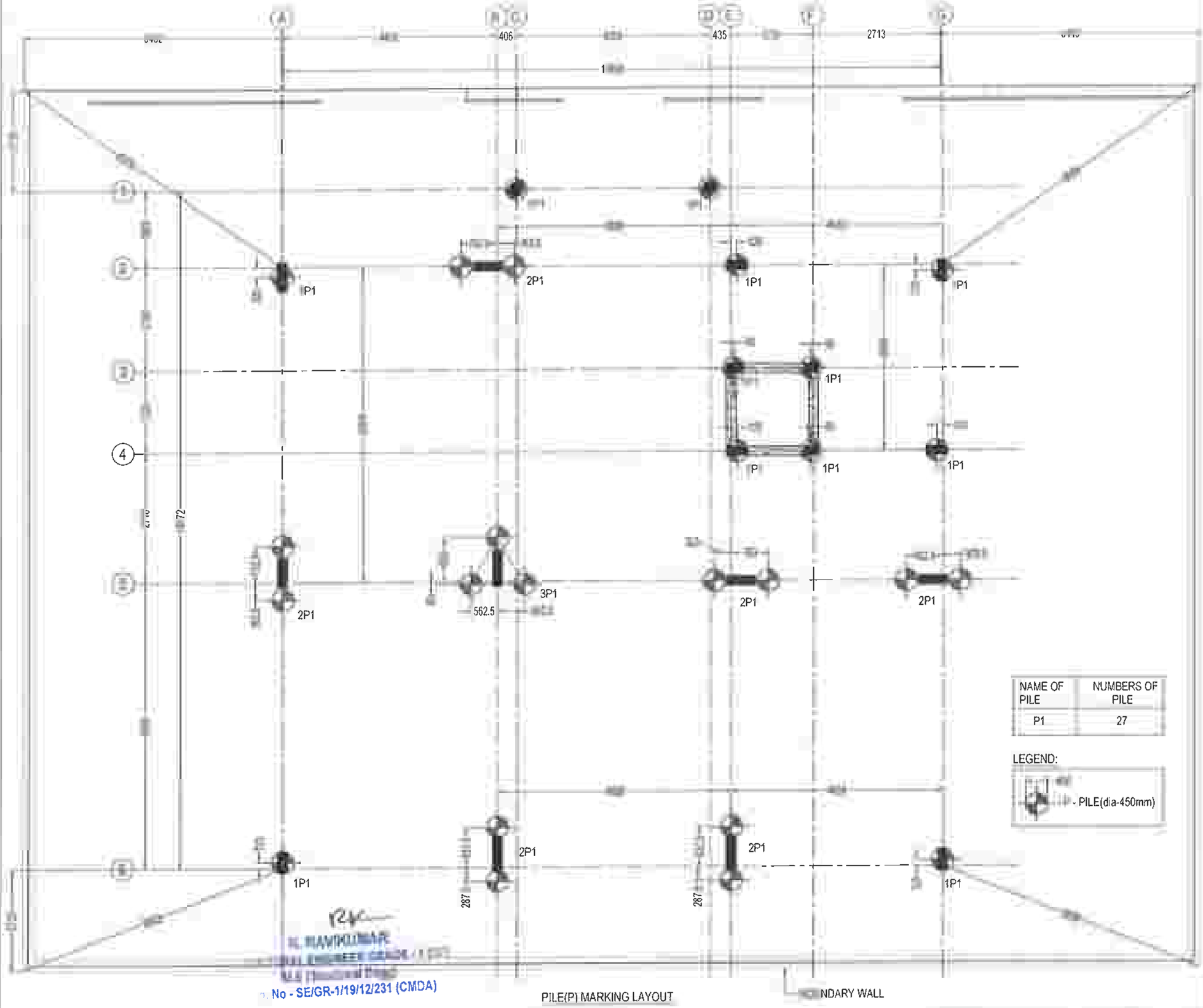
STRUCTURAL CONSULTANCY
NEW NO 3/55, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI 600
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web.:

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET
R1		ST-2025-09-04	01



NAME OF PILE	NUMBERS OF PILE
P1	27

LEGEND:

- PILE(dia-450mm)

PILE(P) MARKING LAYOUT

NDARY WALL

No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

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STRUCTURAL CONSULTANT

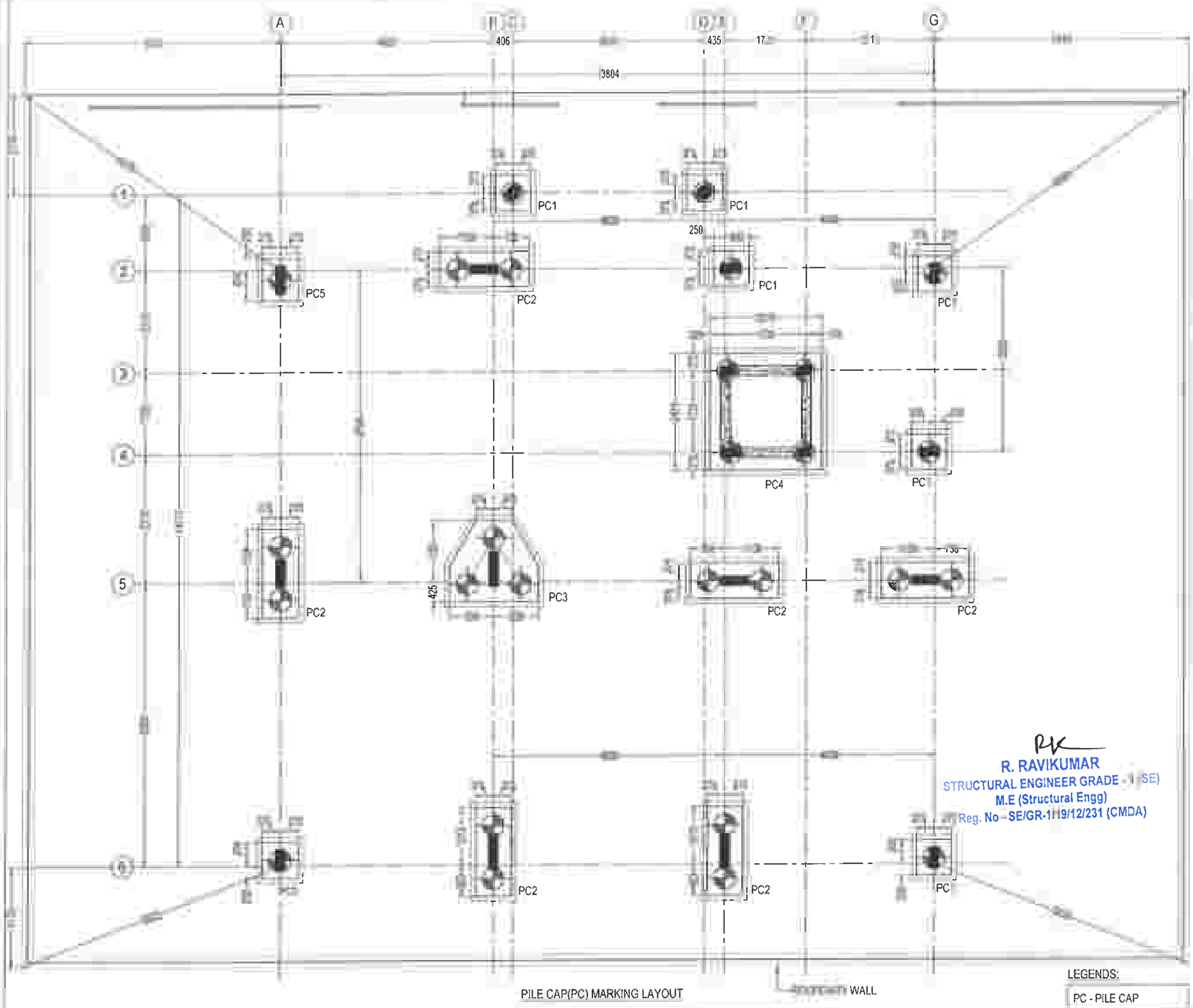
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	6/11	ST-2025-09-04	02



PILE CAP(PC) MARKING LAYOUT

LEGENDS:

PC - PILE CAP

ORG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT TO AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR SSC'S PRIOR PERMISSION. THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY

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PROJECT

ADITYARAM PALACE CITY,(VILLA 7 & 8)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - I (SE)
M.E (Structural Engg)
Reg. No–SE/GR-1119/12/231 (CMDA)

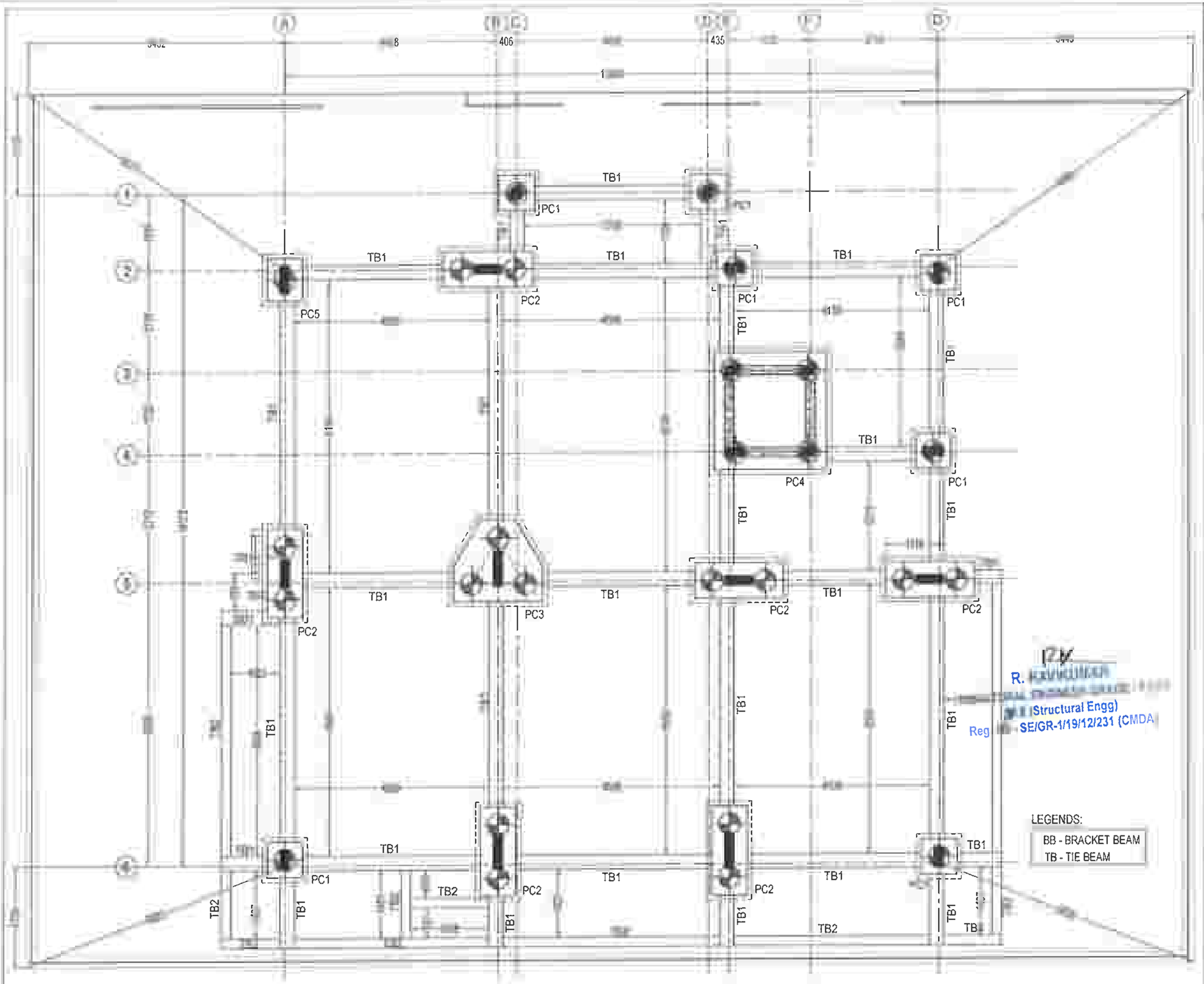
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CHENNAI 600 117.
CONTACT. +91 8067725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	1	ST-2025-09-04	03



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/55, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web. : www.safestructuralconsultancy.com

R. [illegible]
Structural Engg)
Reg SE/GR-1/19/12/231 (CMDA

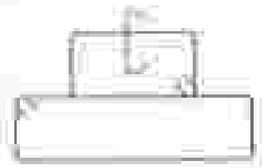
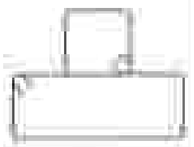
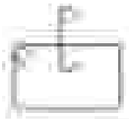
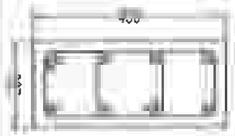
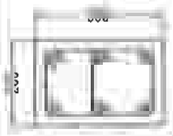
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

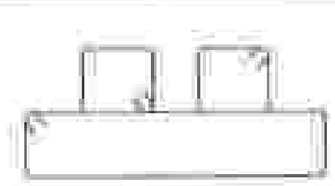
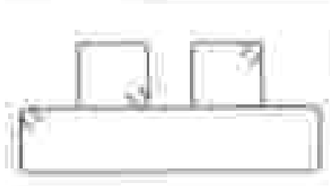
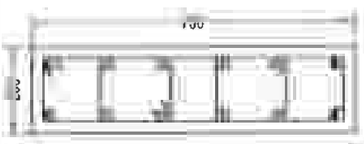
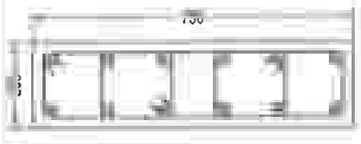
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	1/202	ST-2025-09-04	04

COLUMN REINFORCEMENT SCHEDULE

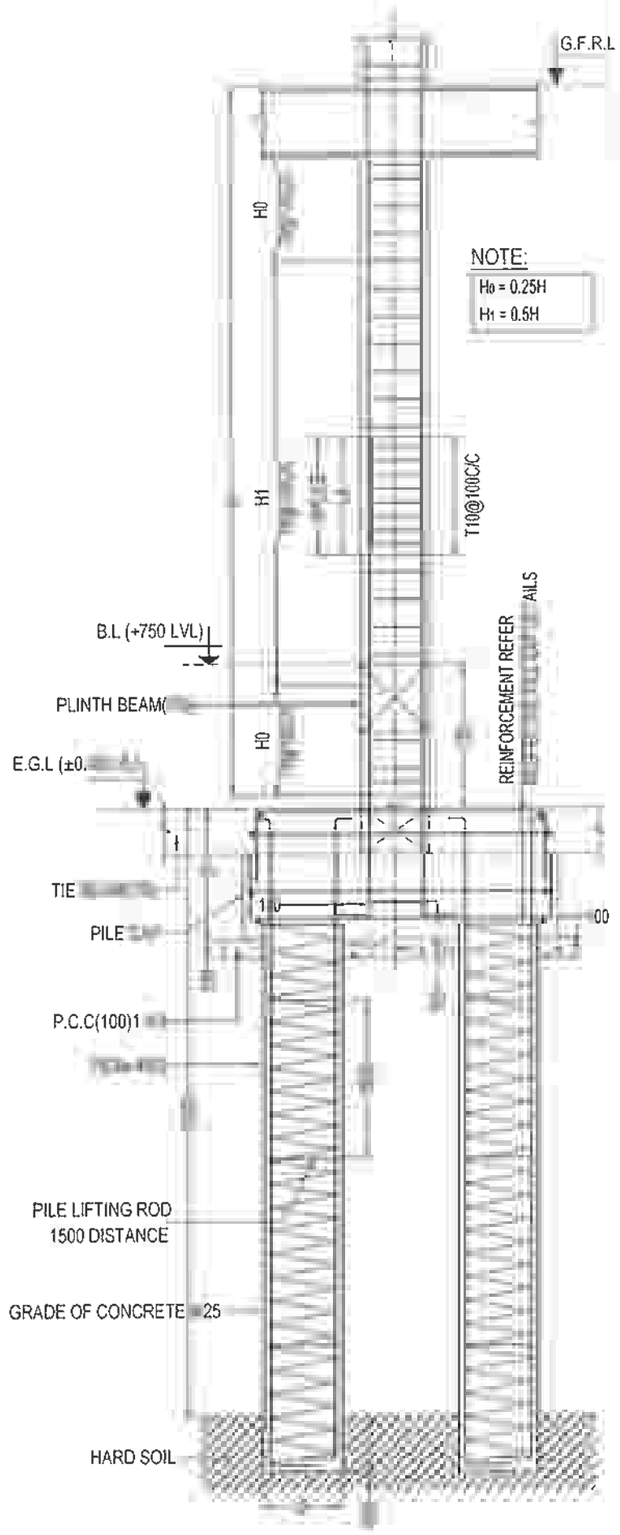
TERRACE LEVEL TO FOOTING ⊙ - T16 ⊕ - T12				
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
				
	6-T16	4-T20 + 6-T16	8-T16	4-T16 + 2-T12
COLUMN MARKED	C1	C2	C3	C4

COLUMN REINFORCEMENT SCHEDULE:

TERRACE LEVEL TO FOOTING ⊙ - T16 ⊕ - T12			
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
			
	4-T20 + 8-T16	10-T16	12-T16
COLUMN MARKED	C5	C6	C7

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

NOTE:
H_0 = 0.25H
H_1 = 0.5H

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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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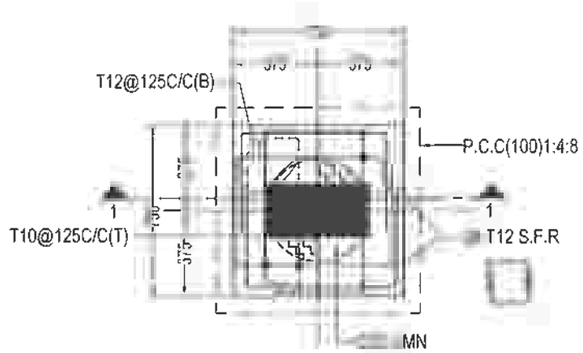
COLUMN , PILE & PILE CAP DETAILS

REV	DATE	PROJECT NO	SHEET NO
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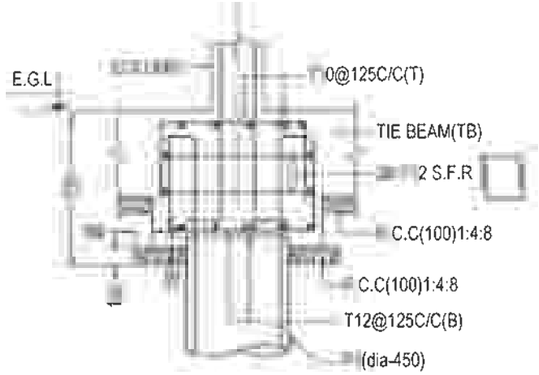


PILE (P1) - PLAN

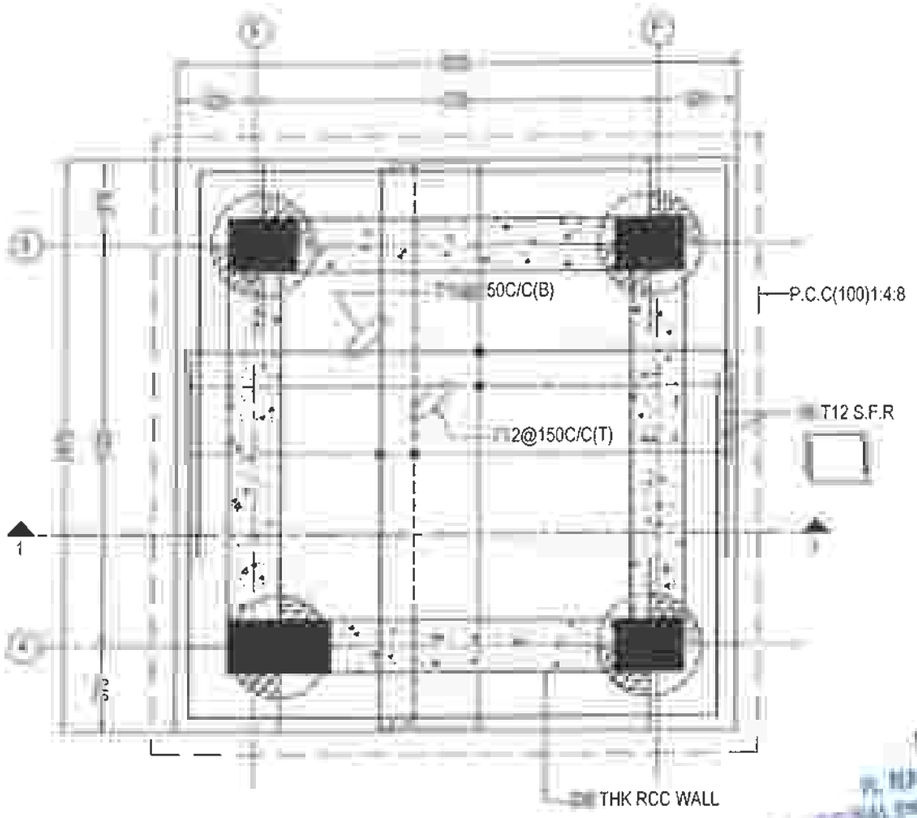
** S.F.R - SIDE FACE REINFORCEMENT



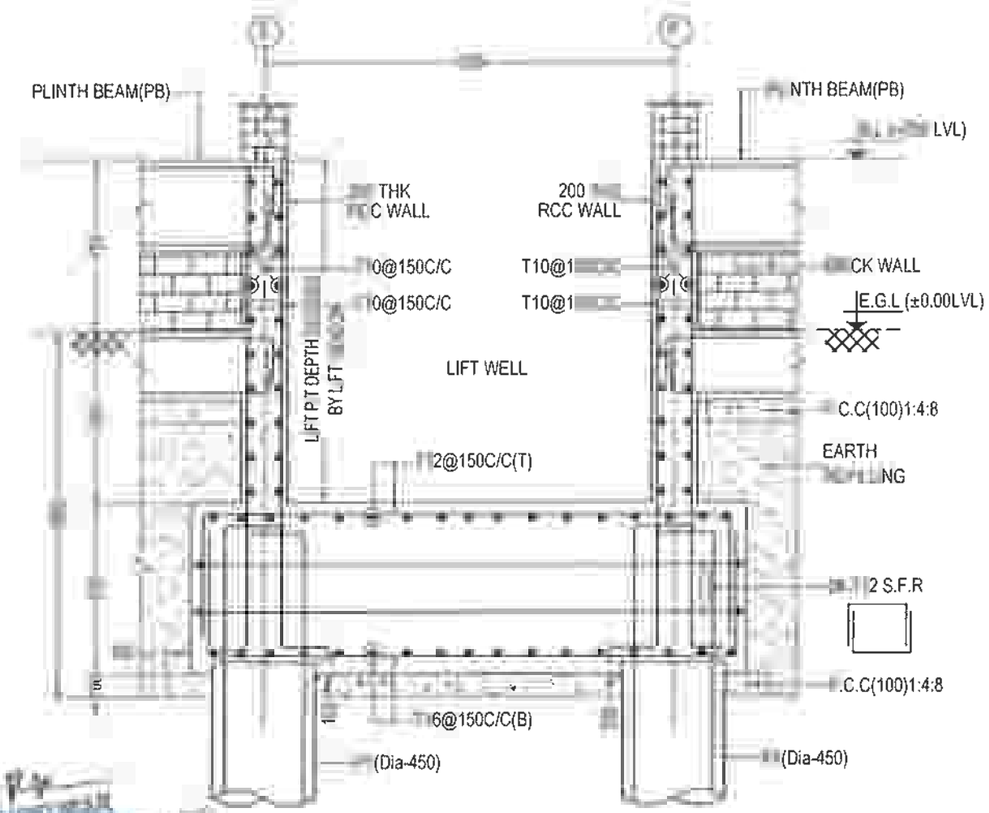
PC1 - PLAN



SECTION - 1 - 1



PC4 - PLAN



SECTION - 1 - 1

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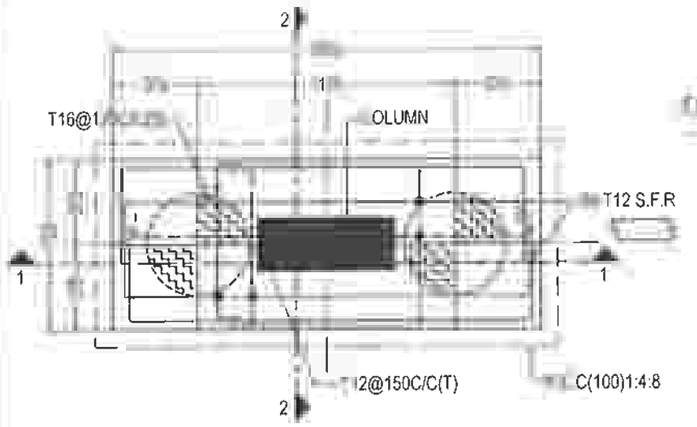
SAFE STRUCTURAL CONSULTANCY

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SHEET	A3	☐ CONSTRUCTION

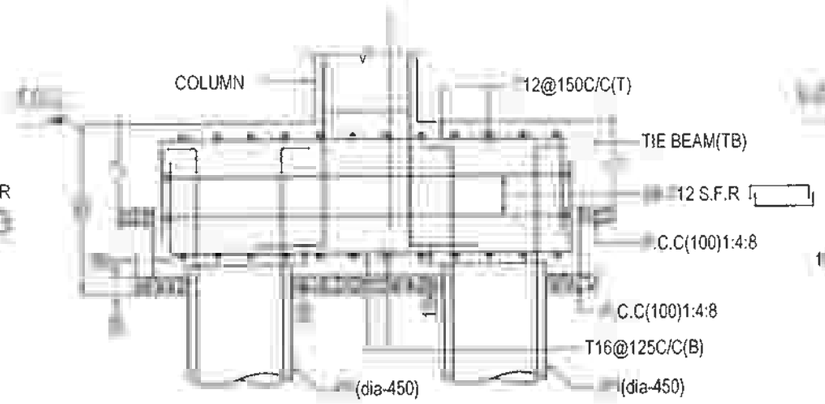
DRAWING NAME

PILE & PILE CAP DETAILS - 1

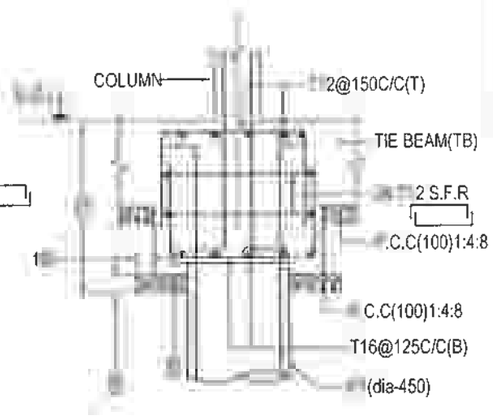
REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-04	06



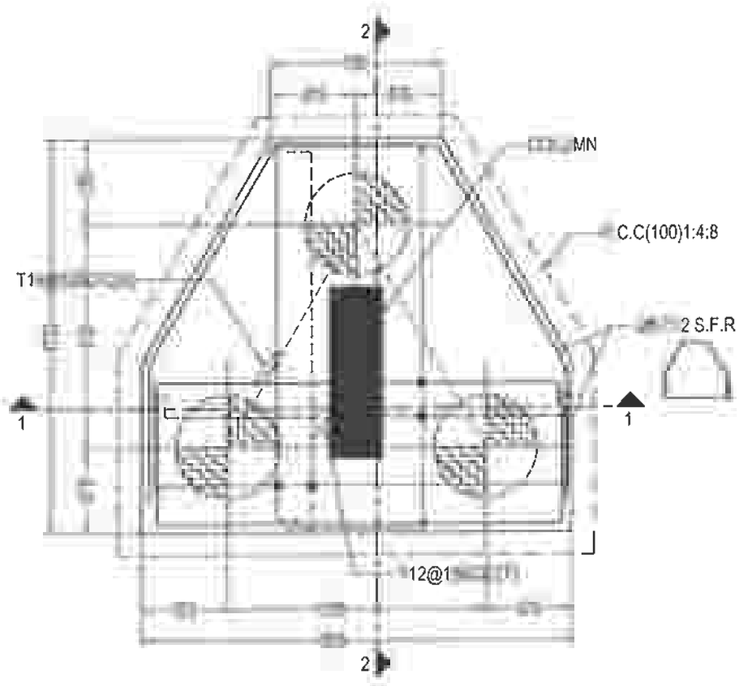
PC2 - PLAN



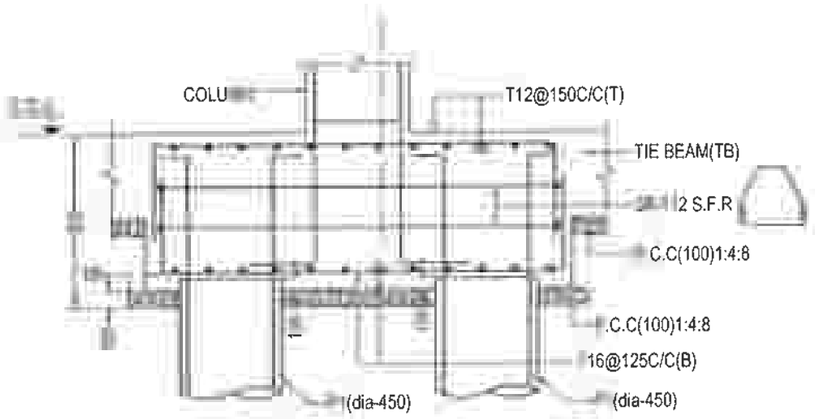
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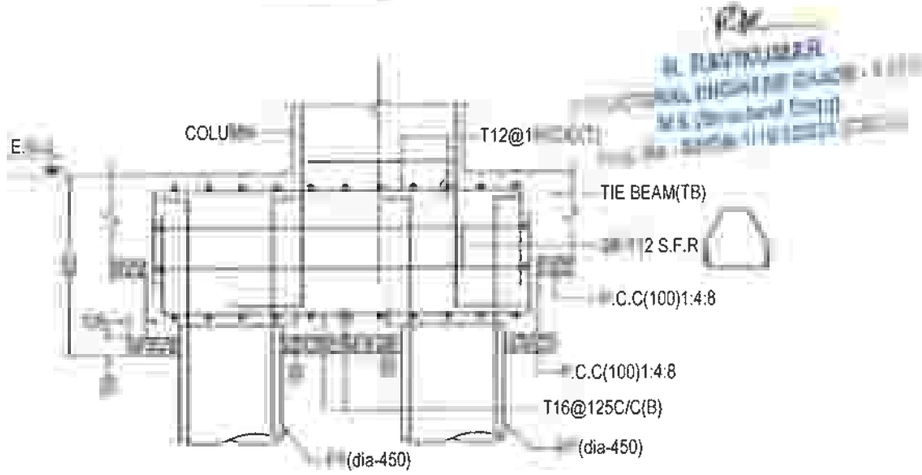
SECTION - 2 - 2



PC3 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS

B.L - BASEMENT LEVEL
E.G.L - EXISTING GROUND LEVEL

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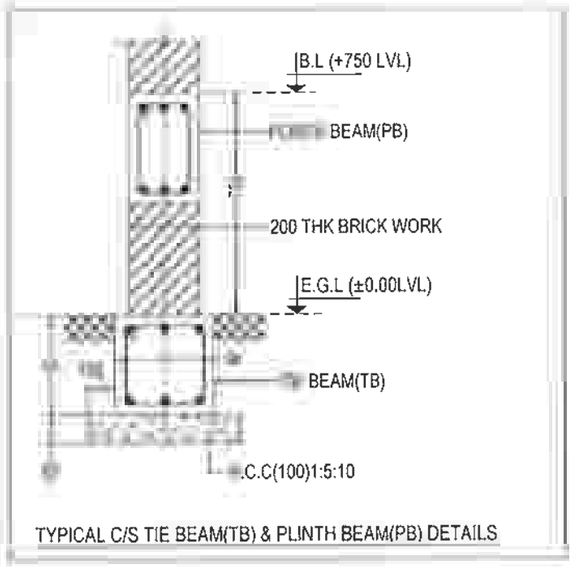
DRAWING NAME

PILE & PILE CAP DETAILS - 2

REV	DATE	PROJECT NO	SHEET
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TIE BEAM (TB) REINFORCEMENT SCHEDULE:

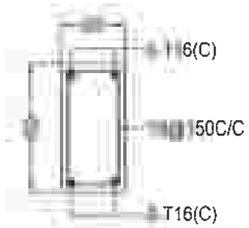
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	T16(C) 50C/C .C.C T16(C)	T16(C) 50C/C .C.C T16(C)	6(C) 50C/C .C.C 6(C)
(200 X 300) TB2	12(C) 50C/C C.C 12(C)	50C/C .C.C 12(C)	T12(C) 150C/C .C.C 2(C)
(300 X 300) BB1	T16(C) C .C.C T12(C)	16(C) 00C/C .C.C 12(C)	00C/C C.C 2(C)



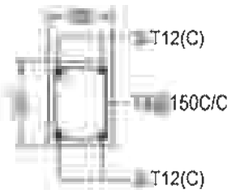
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



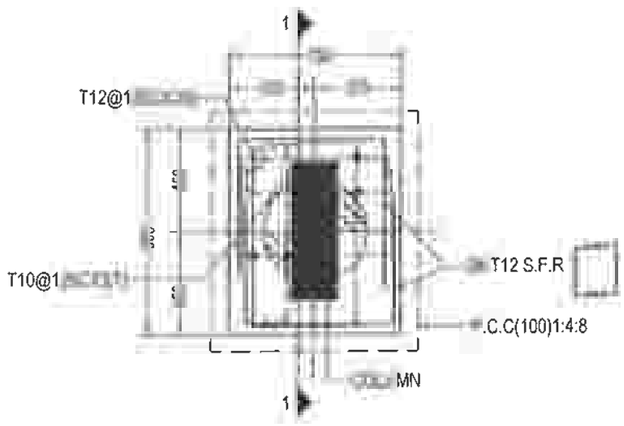
PB1 - 200 X 400
C/S DETAILS



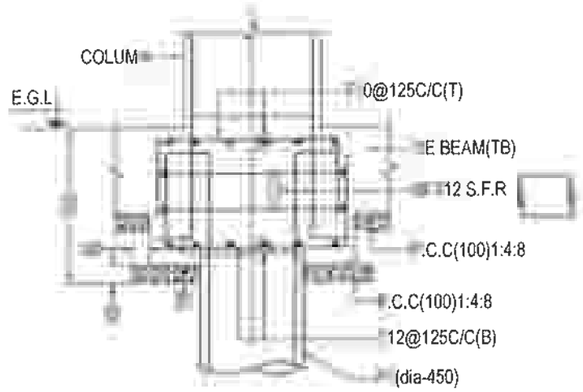
PB2 - 200 X 300
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



PC5 - PLAN



SECTION - 1 - 1

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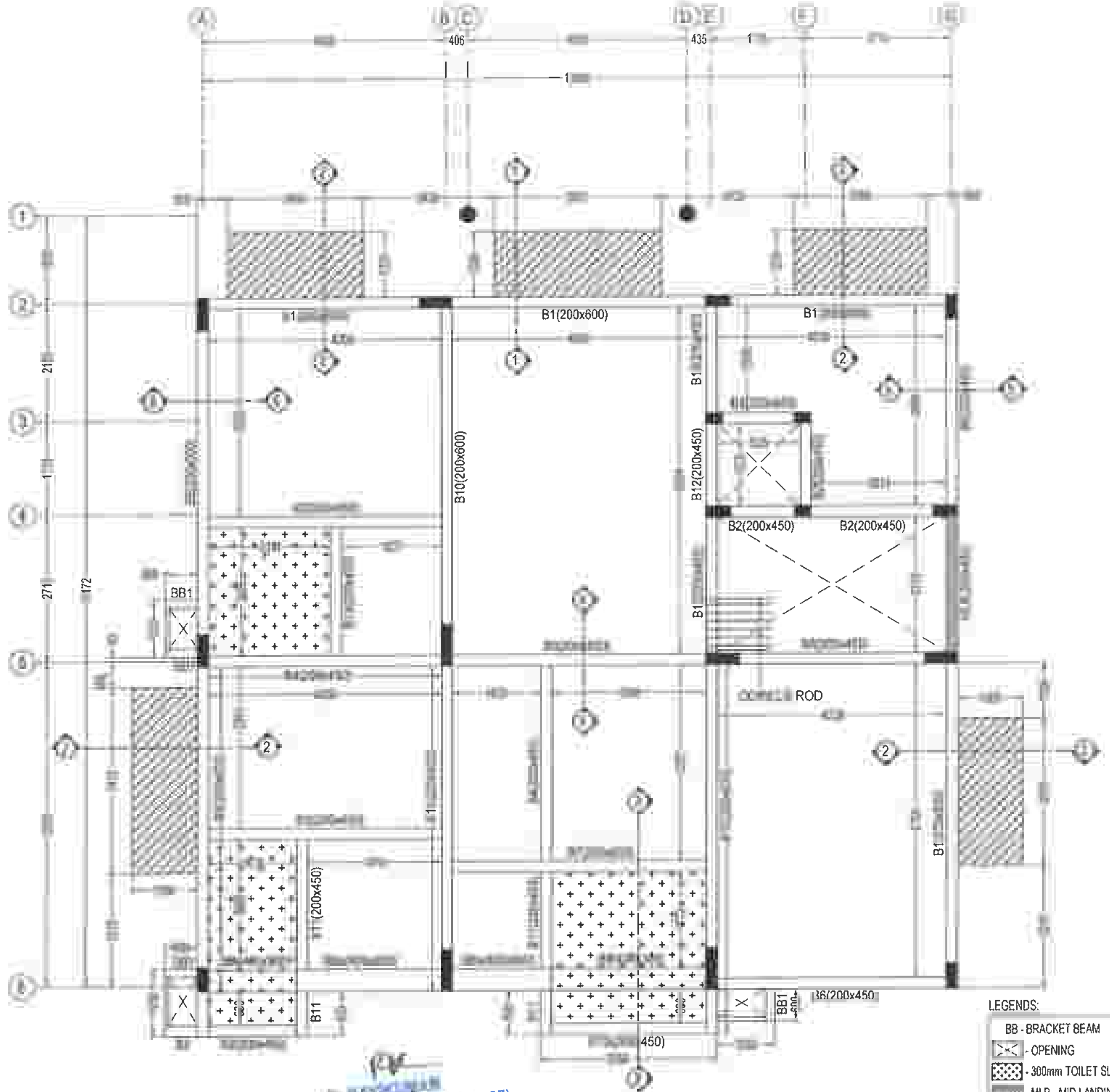
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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE & PILE CAP DETAILS - 2

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-04	08



GROUND FLOOR ROOF BEAM LAYOUT

LEGENDS:

BB - BRACKET BEAM
- OPENING
- 300mm TOILET SLAB SUNKEN
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN

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3. ANY DISCREPANCIES NOTICED IN THE DRG SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND
5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25 GRADE
8. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
9. CLEAR COVER TO REINFORCEMENT
   - A. COLUMNS = 1½"
   - B. PILE = 2"
   - C. PILE CAP = 2"
   - D. TIE BEAM = 1"
   - E. PLINTH BEAM = 1"
   - F. ROOF BEAM = 1"
   - G. ROOF SLAB = ¾"
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 7 & 8)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

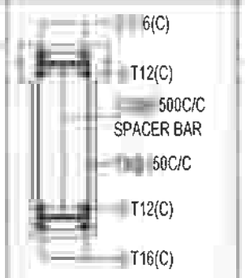
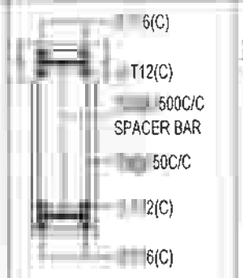
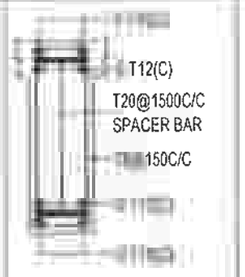
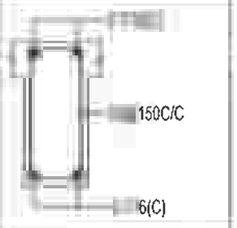
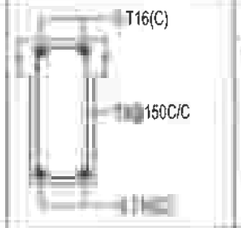
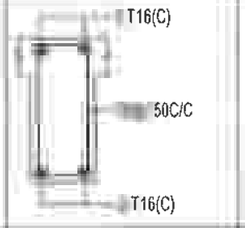
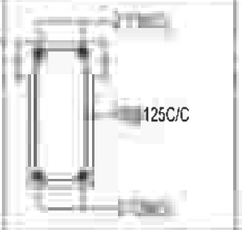
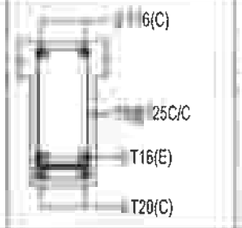
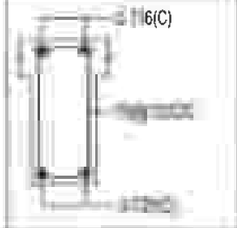
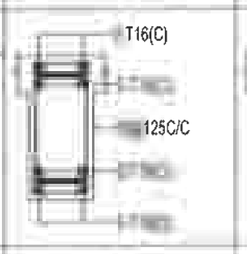
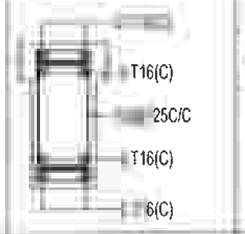
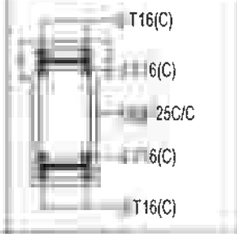
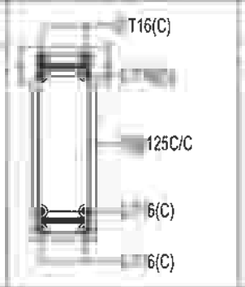
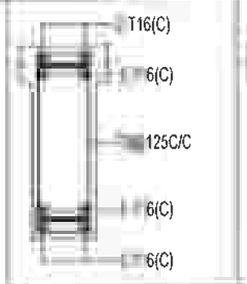
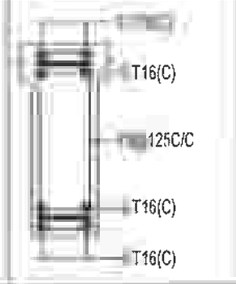
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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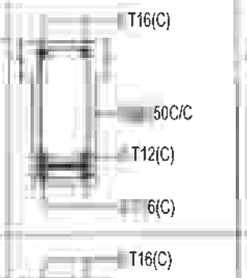
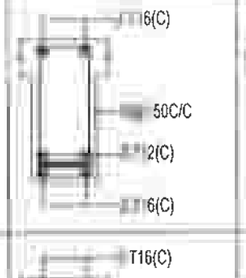
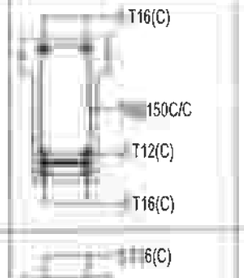
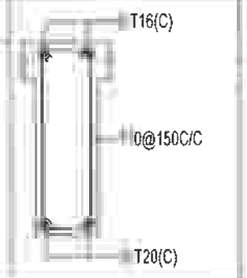
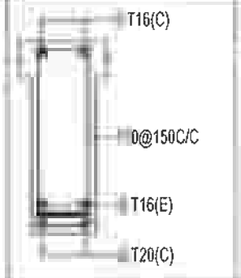
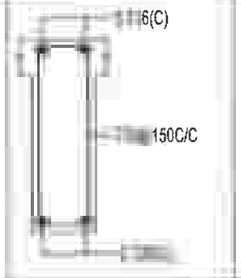
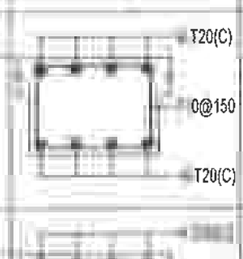
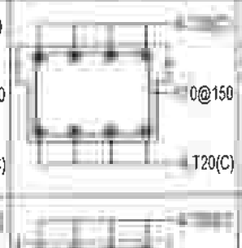
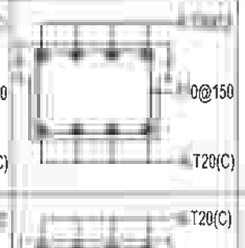
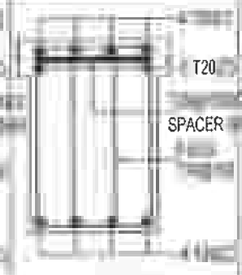
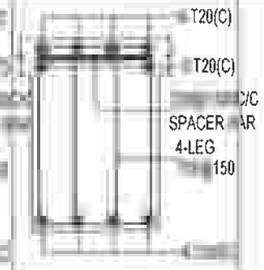
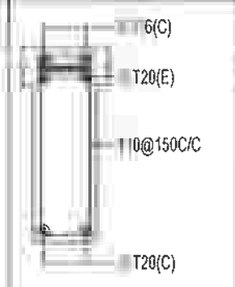
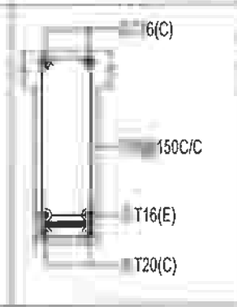
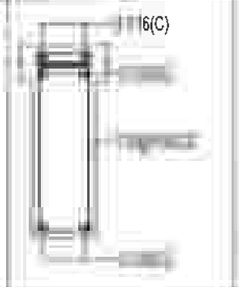
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	1/2	ST-2025-09-04	09

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 600) B5				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 600) B7				
(400 X 300) B8				
(400 X 600) B8a				
(200 X 600) B9				

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

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  - B PILE = 2"
  - C PILE CAP = 2"
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  - G. ROOF SLAB = ¾"
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FOR REINFORCEME

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ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

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PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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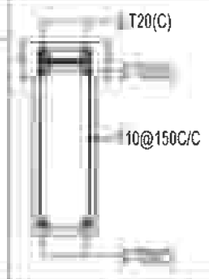
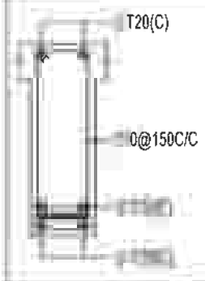
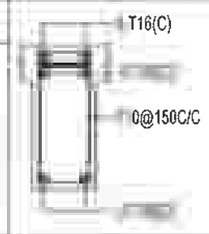
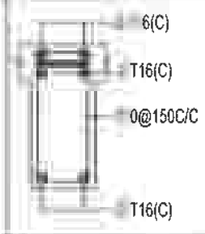
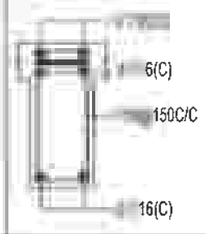
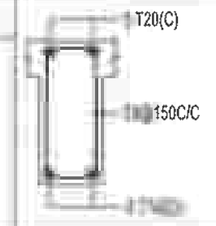
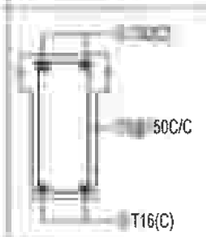
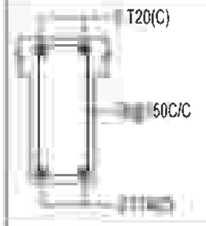
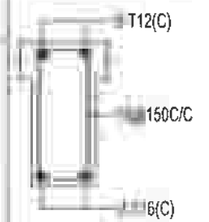
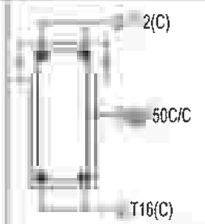
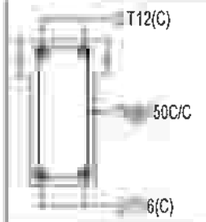
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

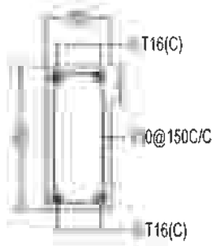
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GROUND FLOOR ROOF BEAM DETAILS - 1

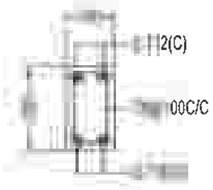
REV	DATE	PROJECT NO	SHEET NO
R1	1	ST-2025-09-04	10

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B10				
(200 X 450) B11				
(200 X 450) B12				
(200 X 450) B13				



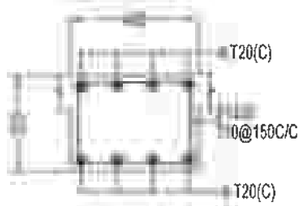
MLB - 200 X 450
C/S DETAILS



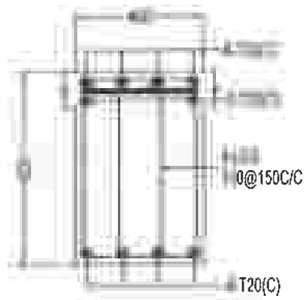
BB1 - 100 X 300
C/S DETAILS

LEGENDS:

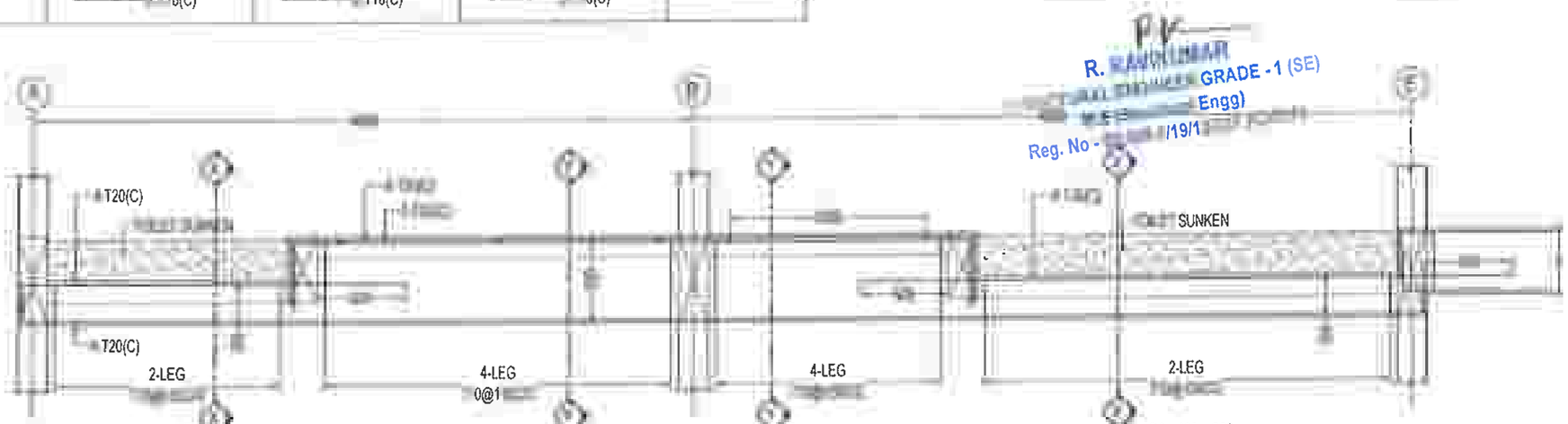
C - CONTINUOUS BAR
E - EXTRA BAR



SECTION - X - X
B8 - 400 x 300
L/S DETAILS



SECTION - Y - Y
B8a - 400 x 600
L/S DETAILS



B8 - 400 x
L/S DETAILS

B8a - 400 x 600
L/S DETAILS

B8a - 400 x 600
L/S DETAILS

B8 - 400 x 300
L/S DETAILS

R. RAMKUMAR
GRADE - 1 (SE)
Engg)
Reg. No -
/19/1

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS = 1½"
B PILE = 2"
C PILE CAP = 2"
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THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

NTS FOR RE

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 7 & 8)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

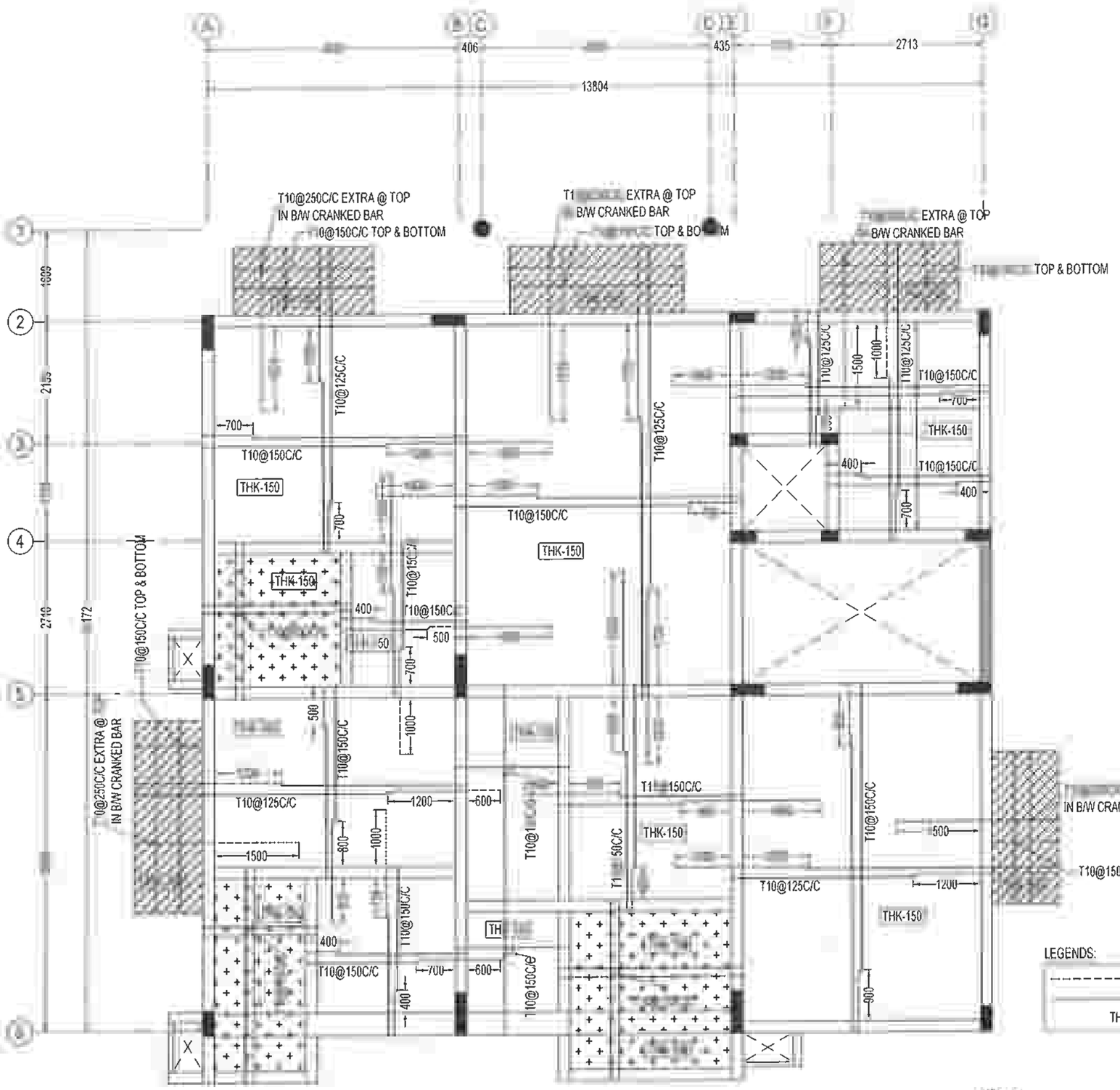
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET NO
R1	1	ST-2025-09-04	11



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

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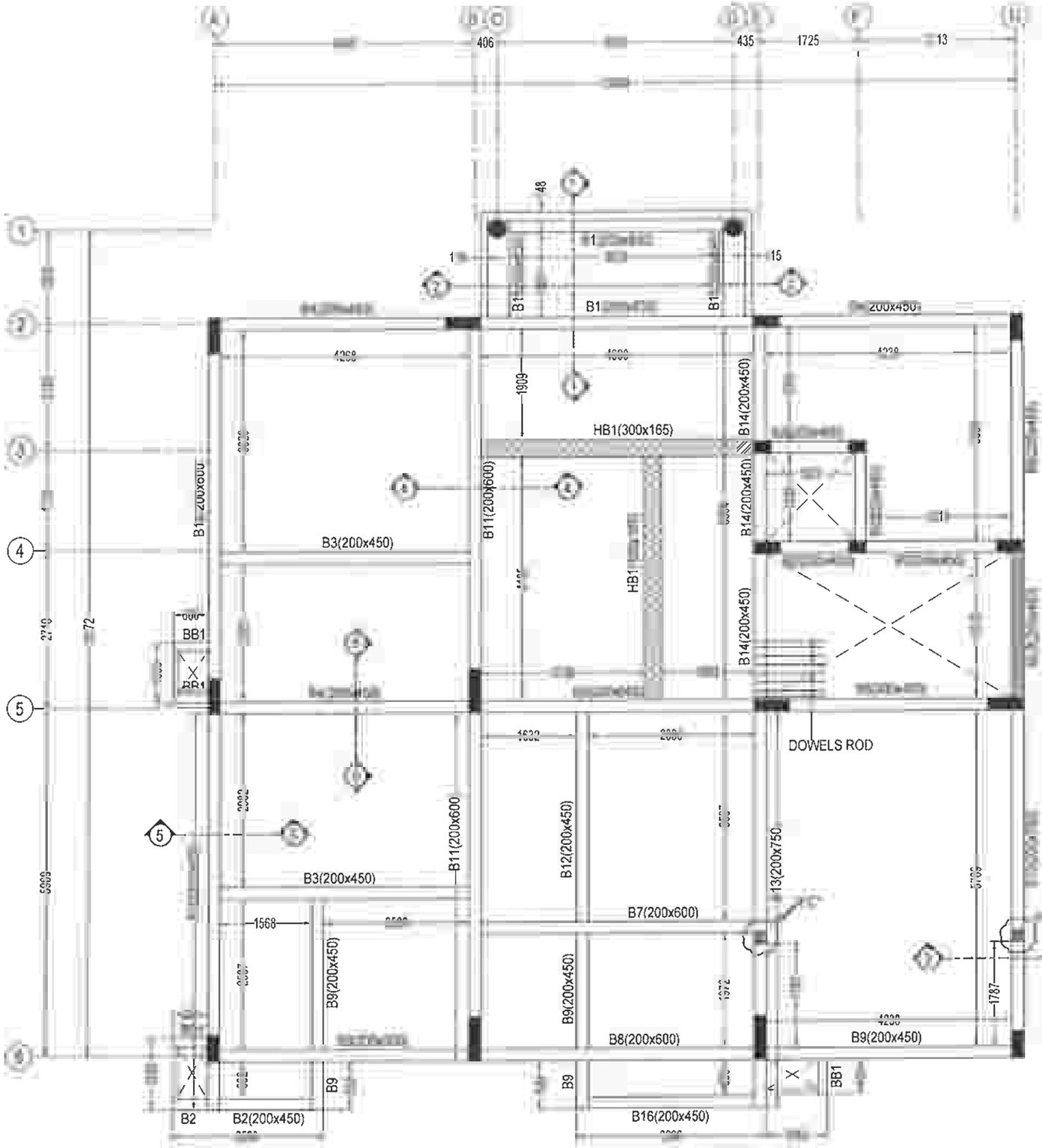
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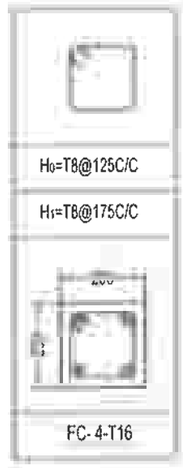
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	6/11/2	ST-2025-09-04	12





HB1 - 300 X 165
C/S DETAILS

LEGENDS:

- BB - BRACKET BEAM
- FC - FLOATING COLUMN
- HB - HIDDEN BEAM
- OPENING
- MLB - MID LANDING BEAM

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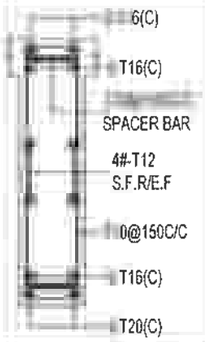
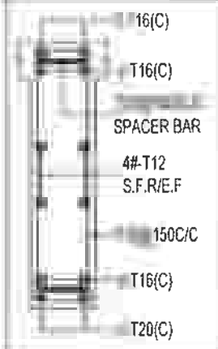
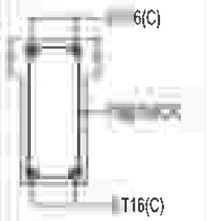
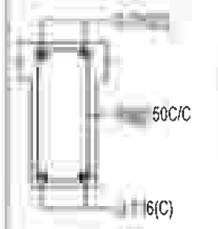
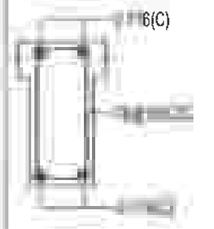
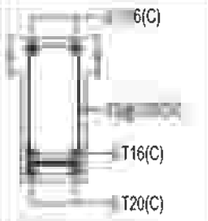
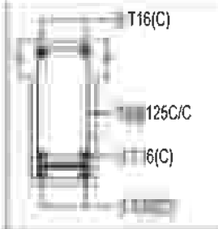
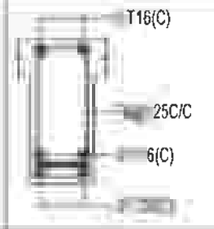
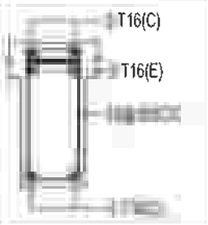
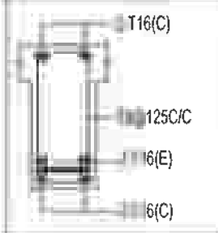
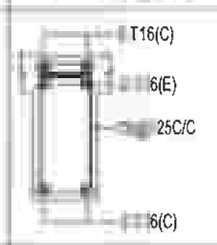
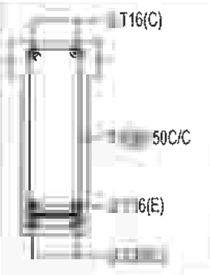
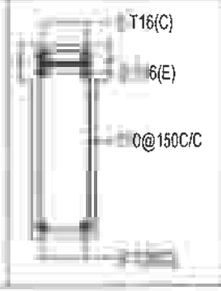
DRAWING NAME

TERRACE BEAM LAYOUT

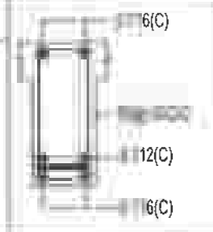
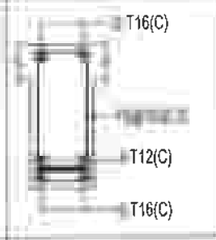
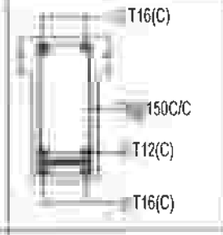
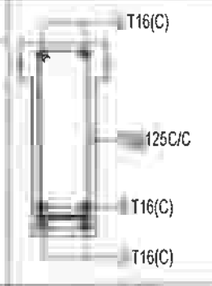
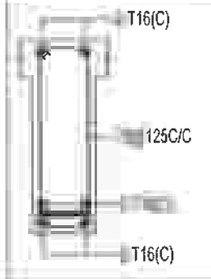
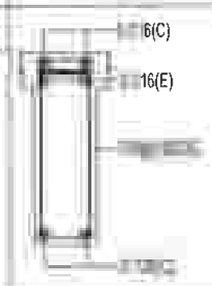
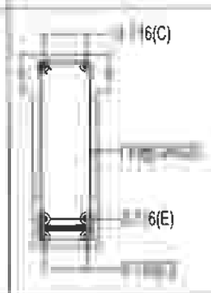
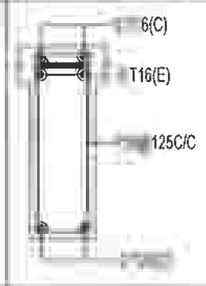
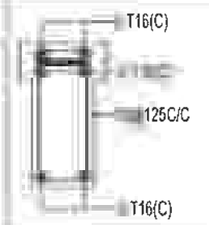
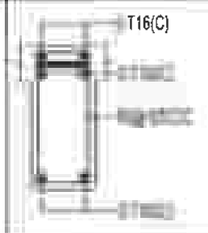
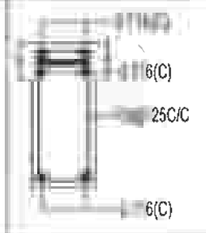
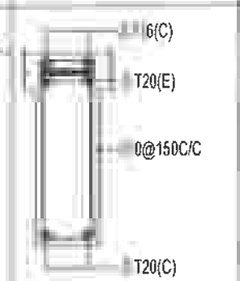
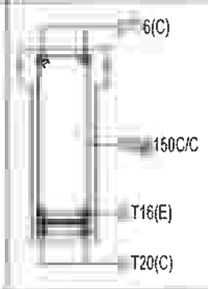
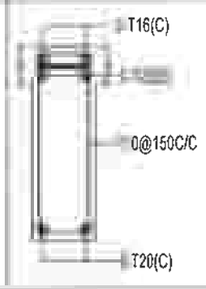
REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-04	13

R.
STRUCTURAL
M.E

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 830) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 600) B5				

TERRACE BEAM [illegible] SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 600) B7				
(200 X 600) B8				
(200 X 450) B9				
(200 X 600) B10				

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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iii) [illegible] BE PROVIDED AT TH[illegible]

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SHEET	A3	☐ CONSTRUCTION

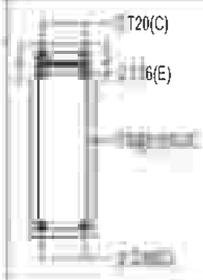
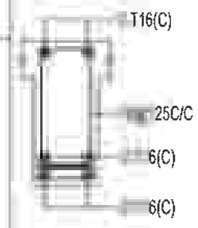
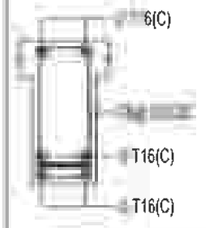
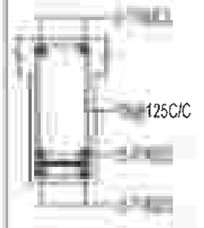
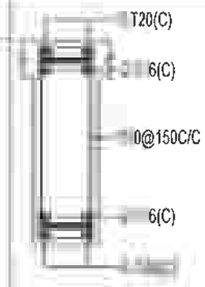
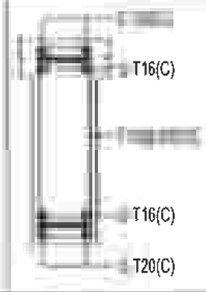
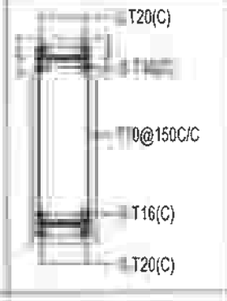
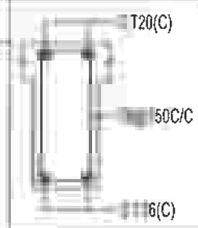
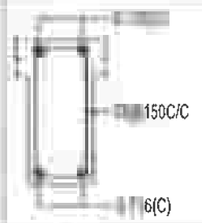
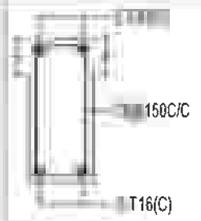
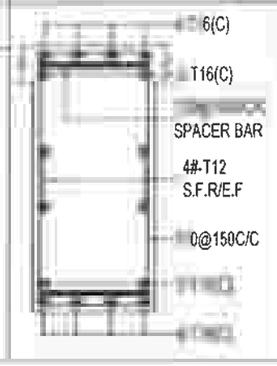
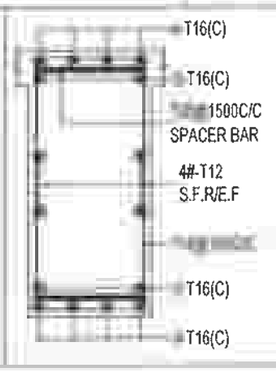
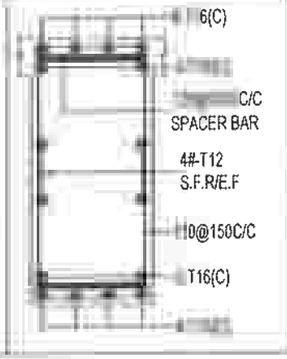
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TERRACE BEAM DETAILS - 1

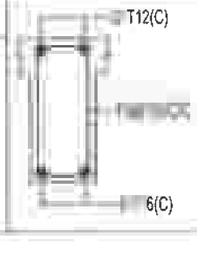
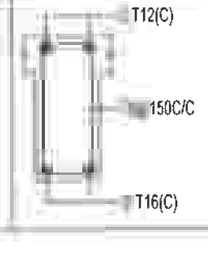
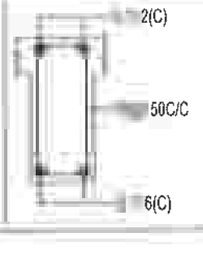
REV	DATE	PROJECT NO	SHEET.NO
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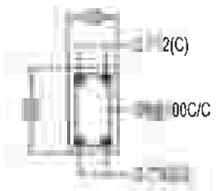
R. RAVIKUMAR [illegible] - 1 (SE)
M.E [illegible]
Reg. No - [illegible]/19/12/231 (CMDA)

TERRACE BEAM REINFORCEMENT SCHEDULE:

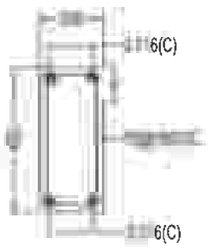
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B11				
(200 X 450) B12				
(200 X 750) B13				
(200 X 450) B14				
(380 X 830) B15				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B16				



BB1 - 150 X 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

ORG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY TO RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS ORG ARE FOR THIS PROJECT ONLY

TECHNICAL NOTES

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EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND
ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE
"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 1985
CLEAR COVER TO REINFORCEMENT.
- A. COLUMNS = 1½"
- B. PILE = 2"
- C PILE CAP = 2"
- D. TIE BEAM = 1"
- E. PLINTH BEAM = 1"
- F. ROOF BEAM = 1"
- G ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.
LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

R REINFORC

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 7 & 8)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

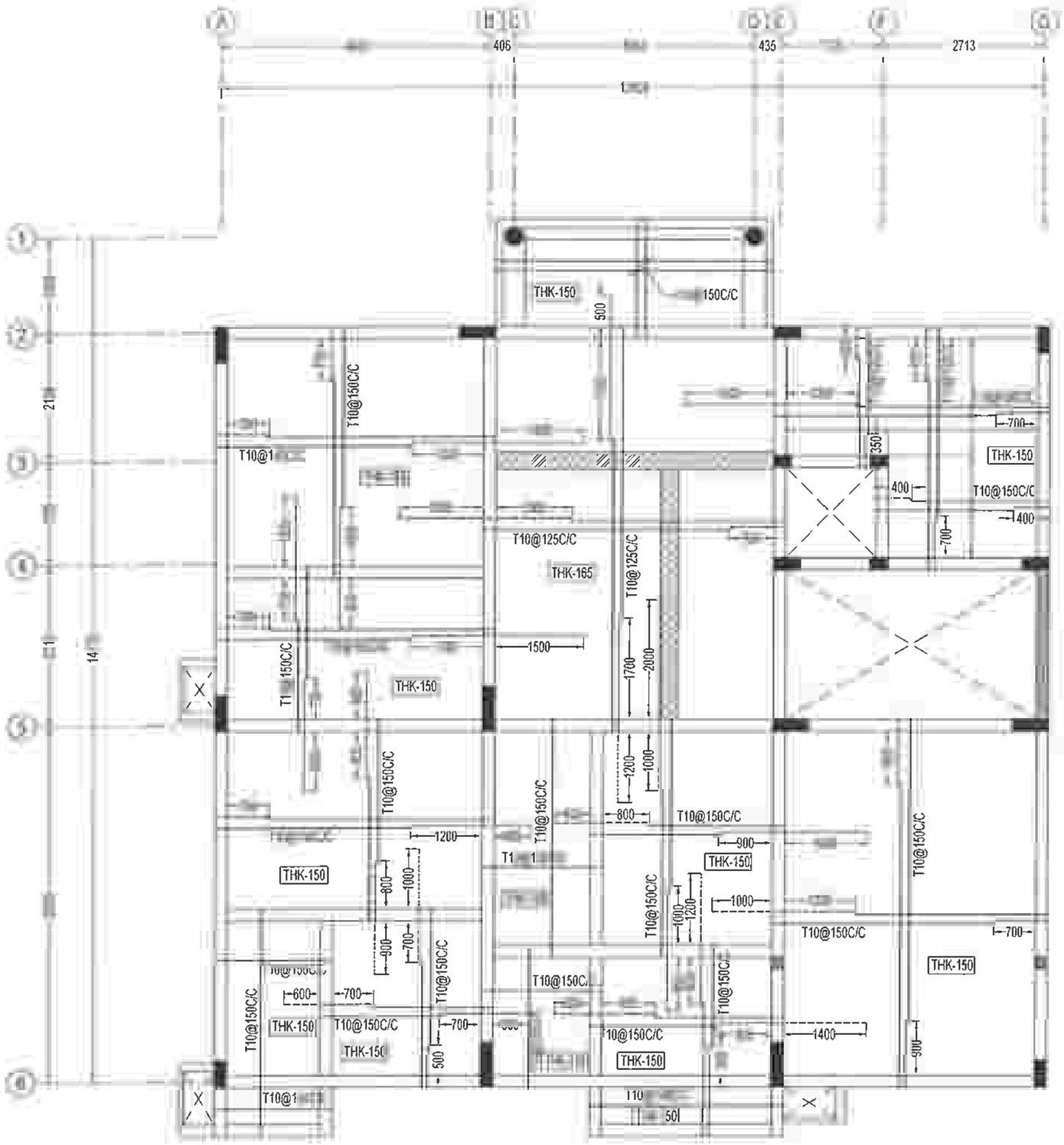
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET.N
R1		ST-2025-09-04	15



TERRACE SLAB LAYOUT & DETAILS

LEGENDS:

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

THIS DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT LTD AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY SSC TO RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR PART WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS DRG ARE FOR THIS PROJECT ONLY

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   - A. COLUMNS = 1½"
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11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

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iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 7 & 8)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

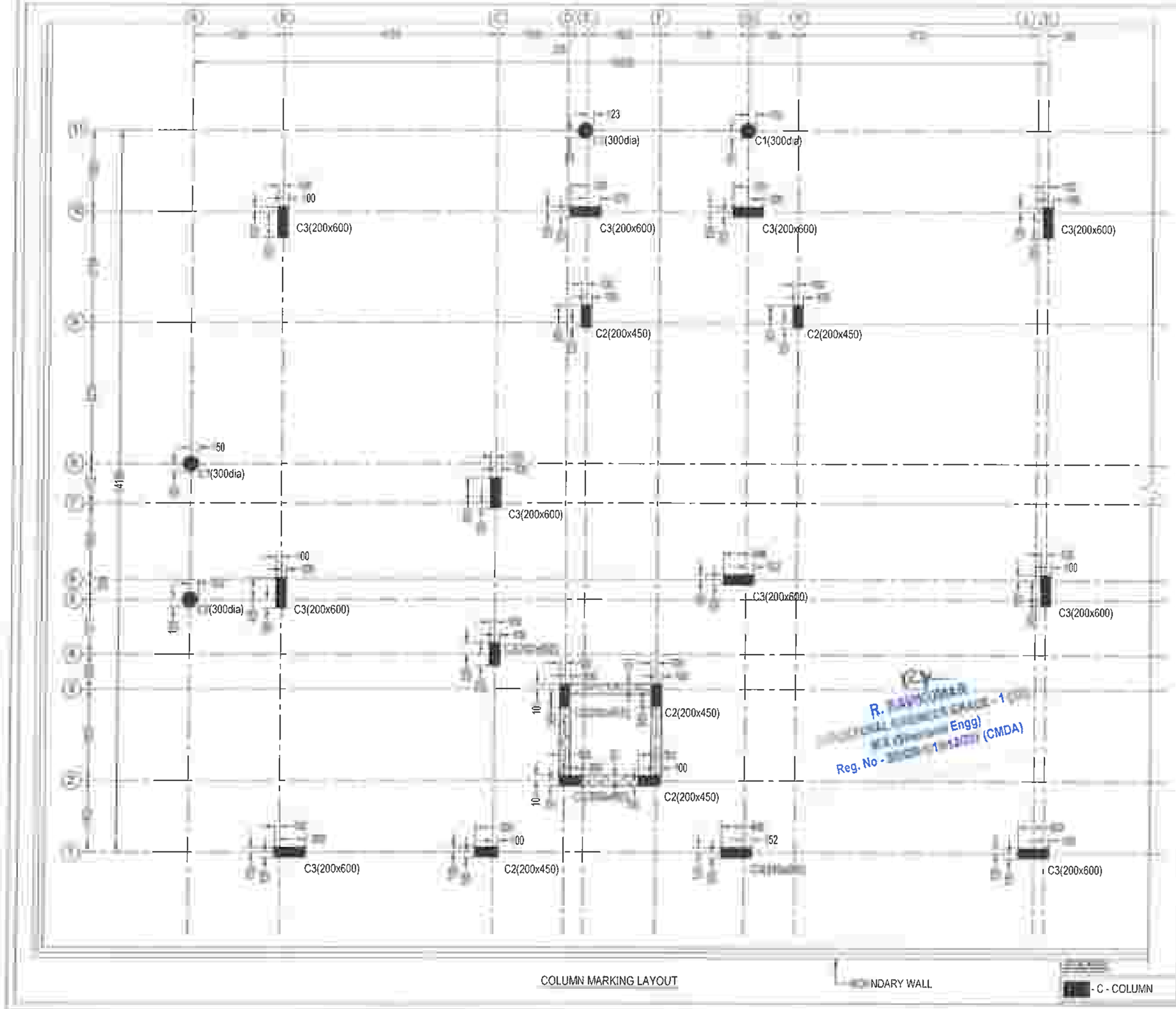
SAFE STRUCTURAL CONSULTANCY
NE D NO 2/1486, 200 FEET ROAD,
EA NNA NAGAR, KOVILAMBAKKAM,
CH 7.
Safe Structural Consultancy
CT. : 7
ctural com
www ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	1/2	ST-2025-09-04	16



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7 "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.
A. ROOF BEAM = 30mm
B. ROOF SLAB = 20mm

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/58, OLD NO 2/1455, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 [illegible] 17.
CONTACT : 9087725267
safestructureschennai@gmail.com
We

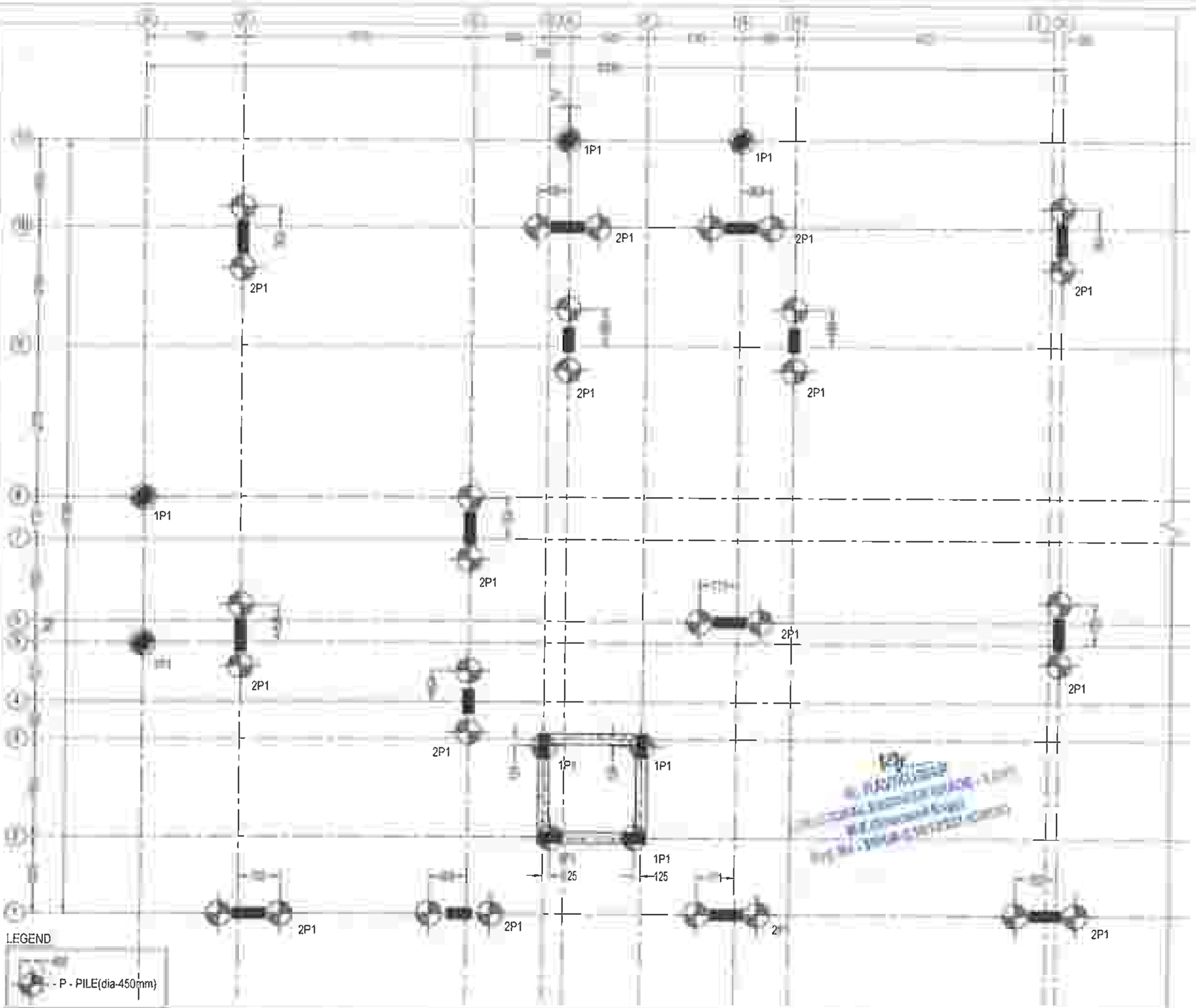
R. [illegible]
[illegible] Engg)
Reg. No - [illegible] (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	7/1	ST-2025-09-06	01



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M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

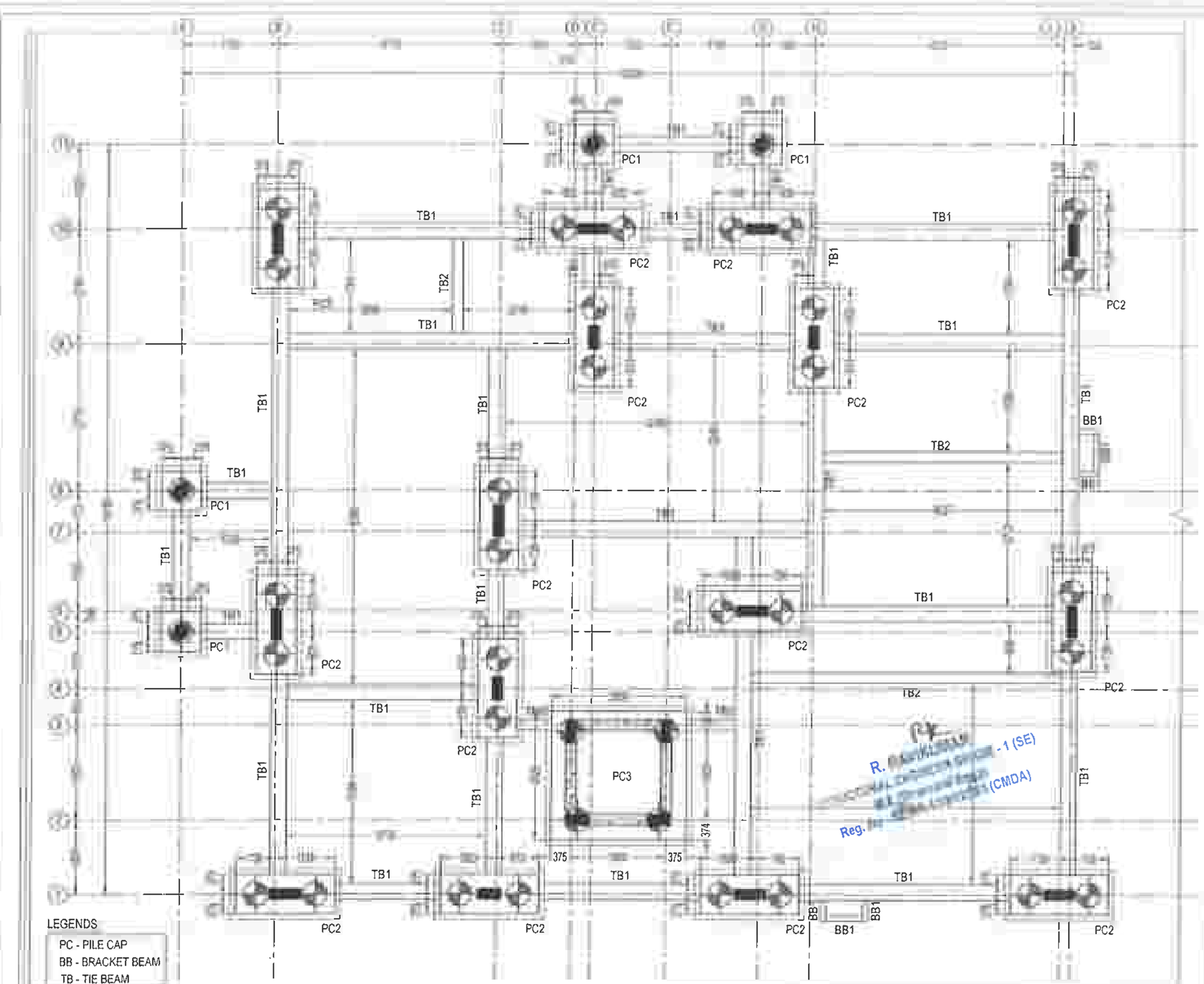
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1456, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	[illegible]	ST-2025-09-06	02



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NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

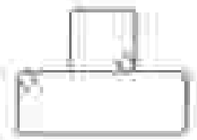
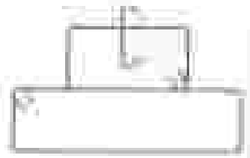
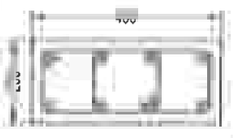
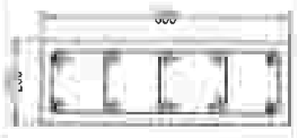
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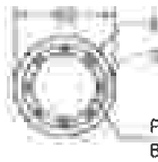
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-06	03

R. [illegible] - 1 (SE)
[illegible] (CMDA)
Reg. [illegible]

COLUMN REINFORCEMENT SCHEDULE:

TERRACE LEVEL TO FOOTING ⊙ T16 ⊕ T12			
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
			
	6-T16	8-T16	4-T20 + 6-T16
COLUMN MARKED	C1	C2	C3



T12

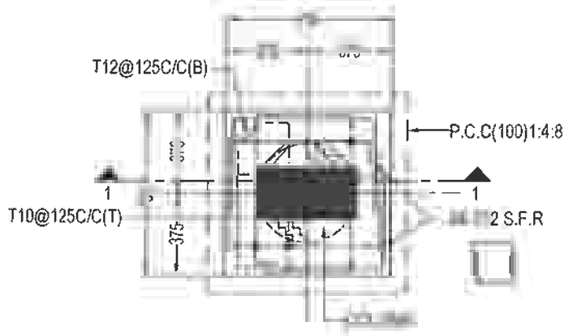
50C/C

PILE LIFTING ROD
BUNDLE BAR 2-T12@(1500 INTERVAL)

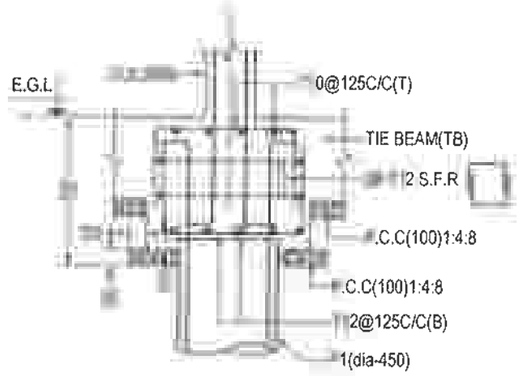
PILE (P1) - PLAN

LEGENDS:

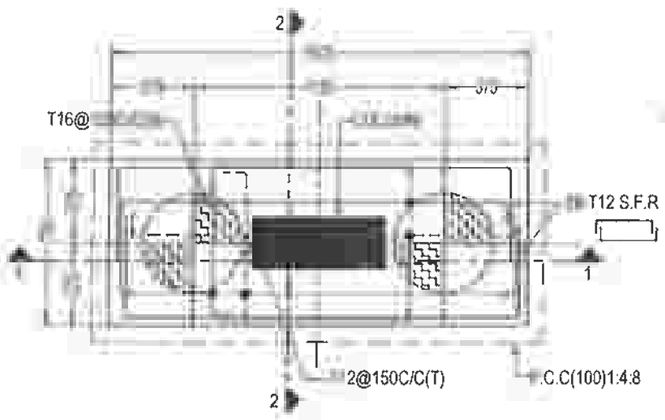
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



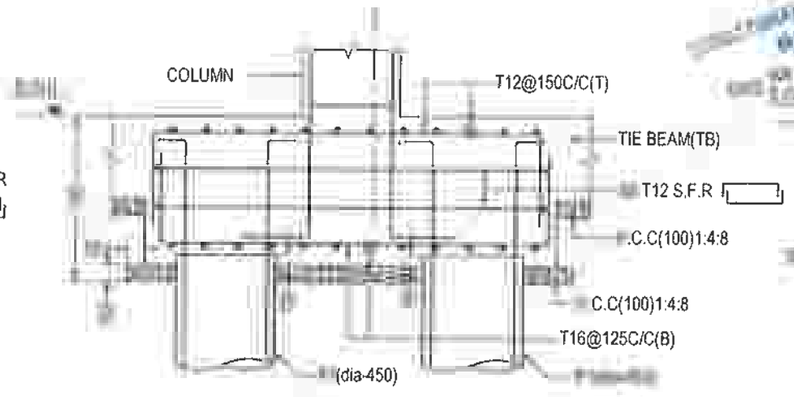
PC1 - PLAN



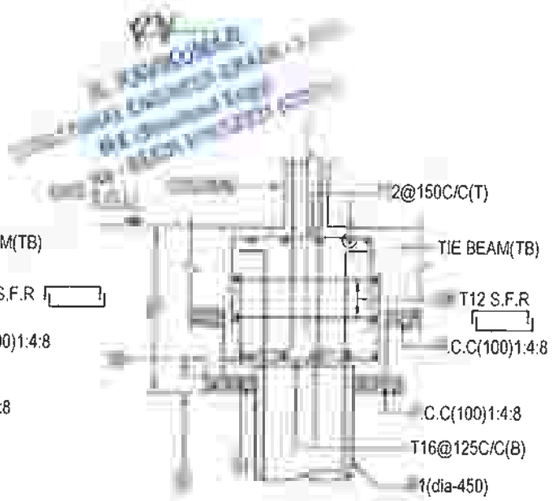
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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JOINTS FOR [illegible]

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

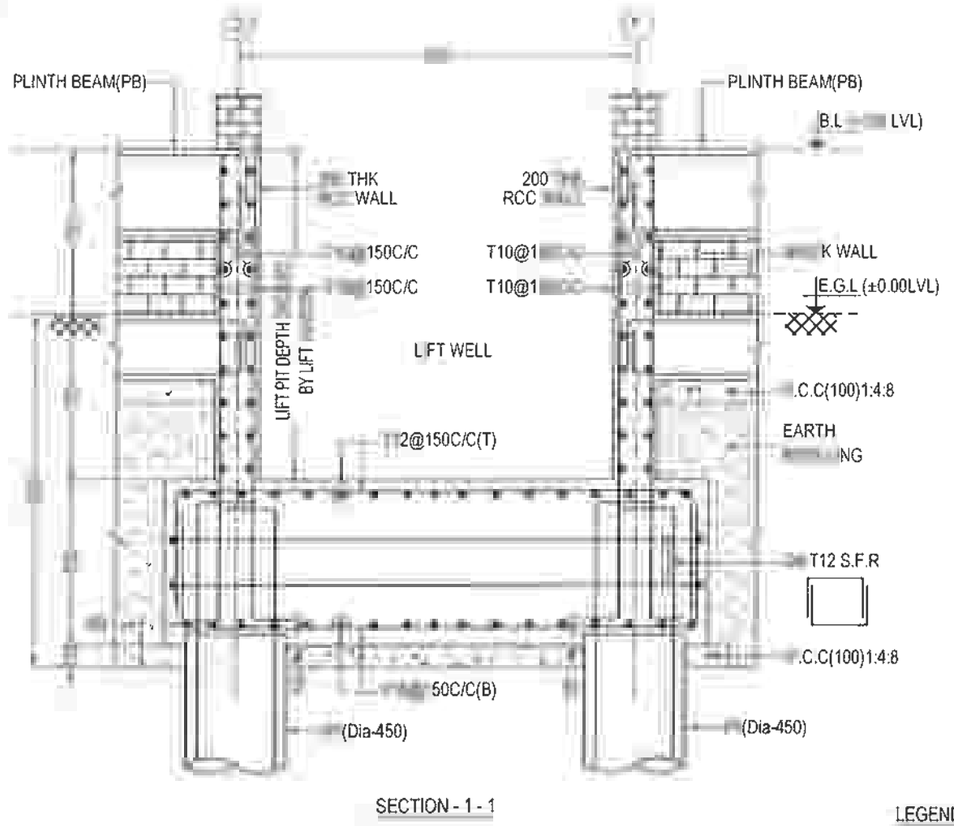
SAFE STRUCTURAL CONSULTANCY
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EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructurakchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR	
DETAILED	MV	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

DRAWING NAME

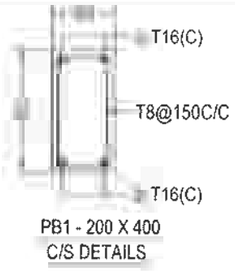
COLUMN , PILE & PILE CAP DETAILS

REV	DATE	PROJECT [illegible] NO
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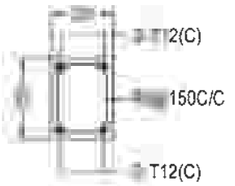


SECTION - 1 - 1

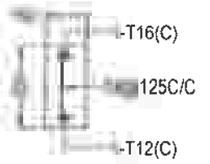
** S.F.R - SIDE FACE REINFORCEMENT



PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS



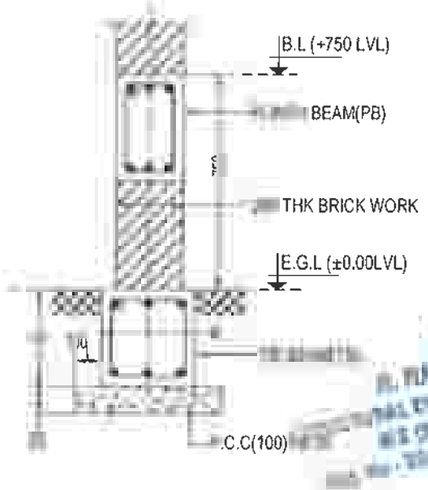
BB1 - 100 X 300
C/S DETAILS

LEGENDS:

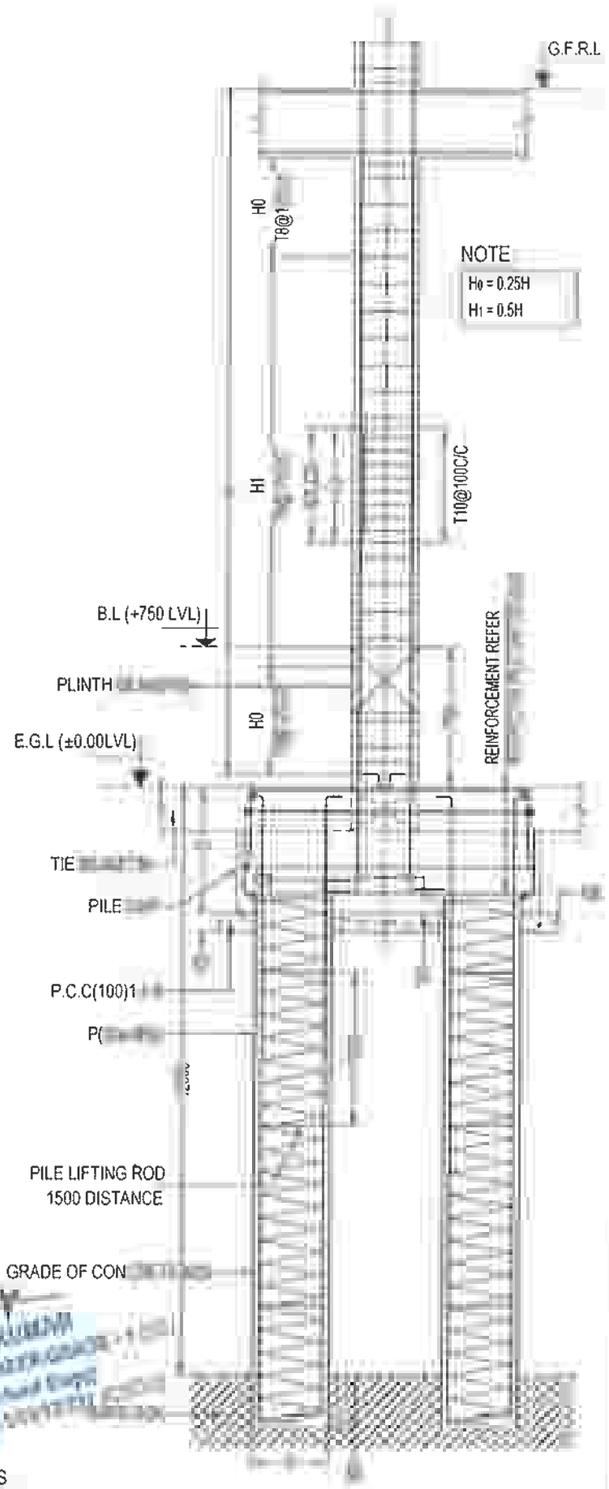
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

TIE BEAM (TB) REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	T16(C) 50C/C .C.C T16(C)	T16(C) 50C/C .C.C 6(C)	T16(C) 50C/C .C.C 16(C)
(200 X 300) TB2	T12(C) 50C/C .C.C T12(C)	T12(C) 150C/C .C.C 12(C)	T12(C) 150C/C .C.C 12(C)



TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



TYPICAL COLUMN & PILE
CONFINING DETAILS

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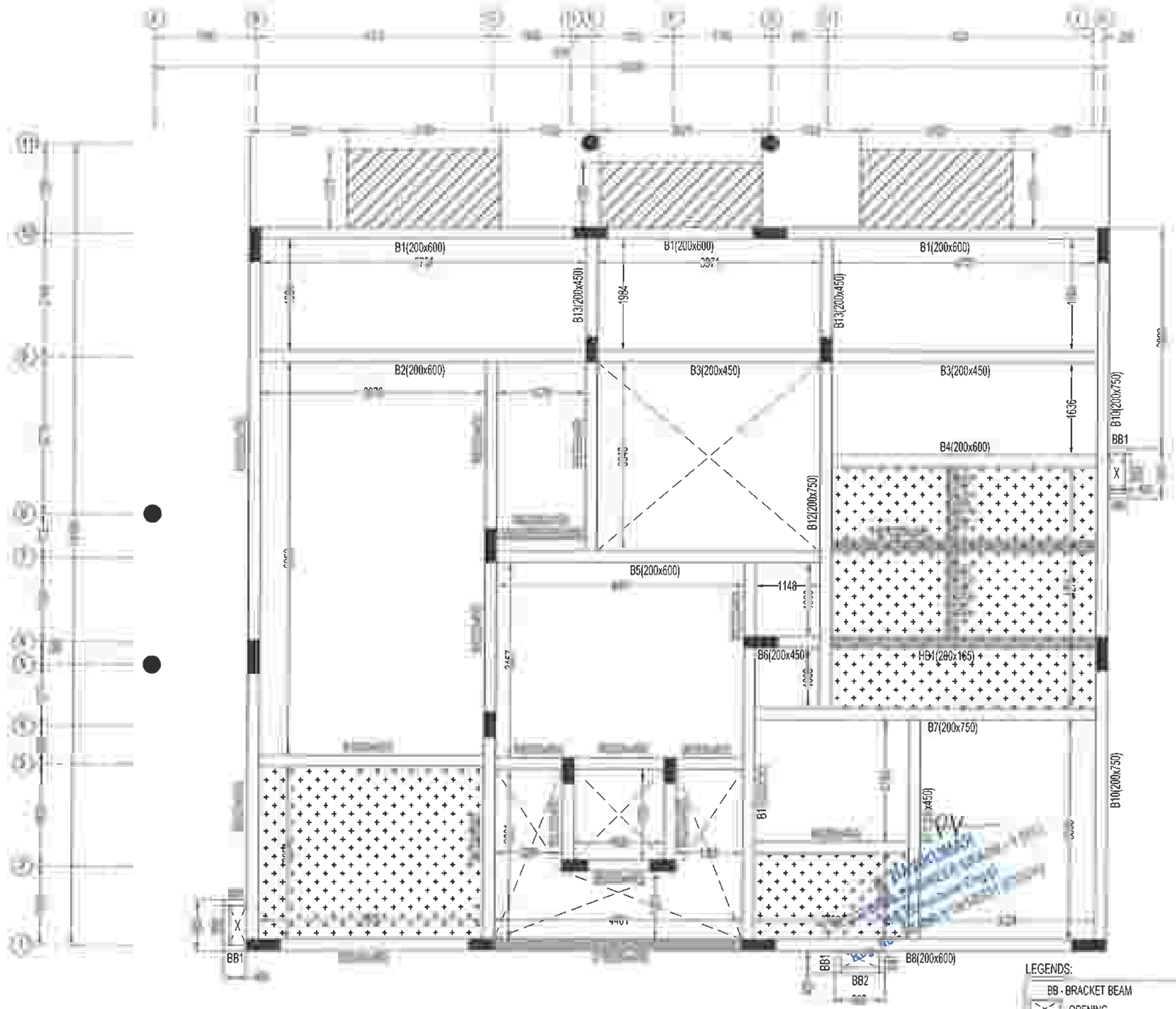
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CONTACT : +91 9087725267
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Web.:

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE & PILE CAP DETAILS & TIE BEAM DETAILS

REV	DATE	PROJECT NO/DWT NO
R1	11/2	ST-2025-09-06 05



GROUND FLOOR ROOF BEAM LAYOUT

LEGENDS:

- BB - BRACKET BEAM
- OPENING
- STB - STRINGER BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN

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PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] D [illegible] 200 FEET ROAD,
EACHAN [illegible] N [illegible] KOVILAMBAKKAM,
CHENNA [illegible] 7 [illegible]
Safe [illegible] 7
Structural Consultancy. [illegible] com
[illegible] rafconsultancy.com

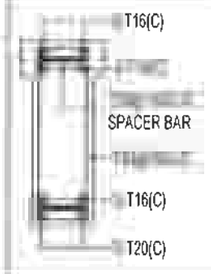
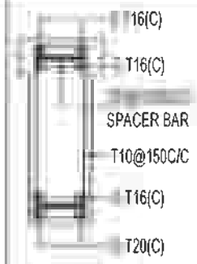
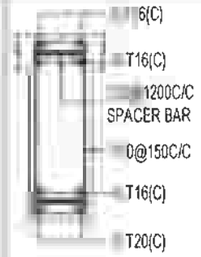
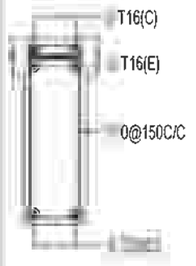
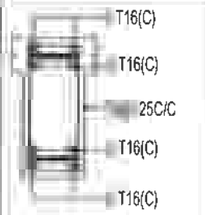
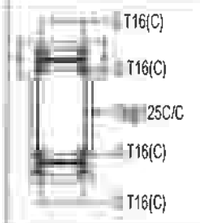
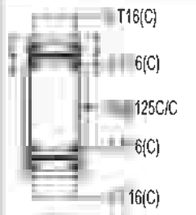
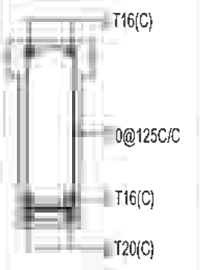
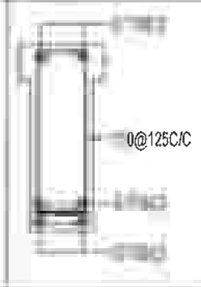
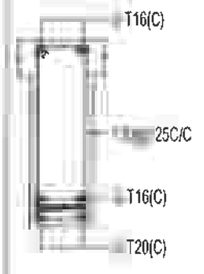
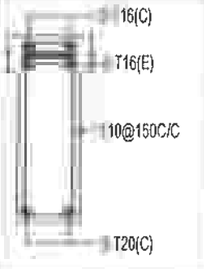
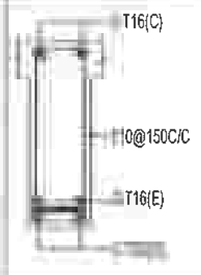
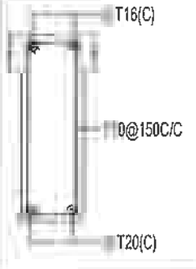
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SHEET	A3	☐ CONSTRUCTION

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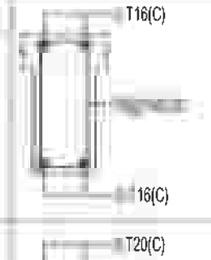
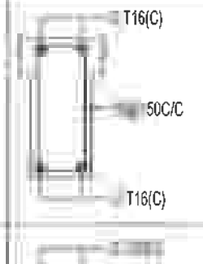
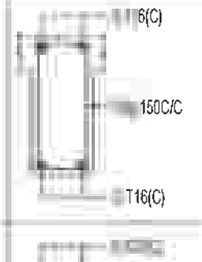
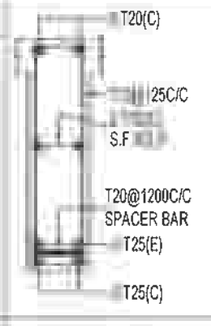
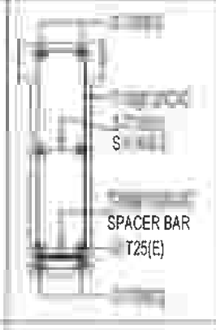
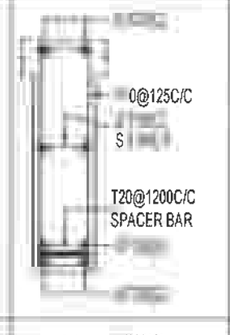
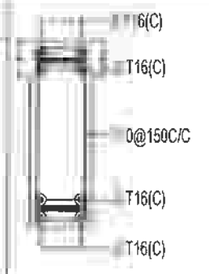
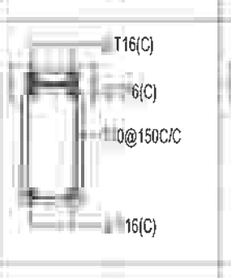
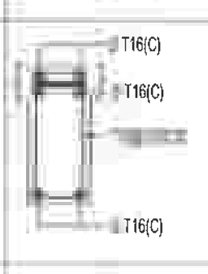
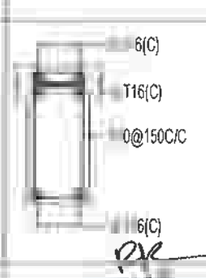
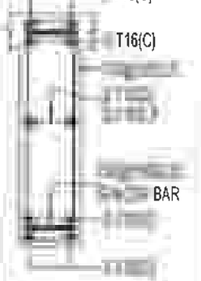
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]/1 [illegible]	ST-2025-09-06	06

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 600) B4				
(200 X 600) B5				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 750) B7				
(200 X 600) B8				
(200 X 450) B9				
(200 X 750) B10				

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ARCHITECT

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SAFE STRUCTURAL CONSULT[illegible]
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

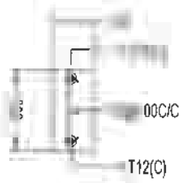
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GROUND FLOOR ROOF BEAM DETAILS - 1

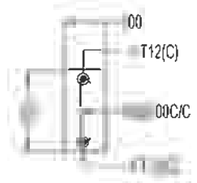
REV	DATE	PROJECT NO[illegible]	SHEET NO
R1	[illegible]	ST-2025-09-06	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

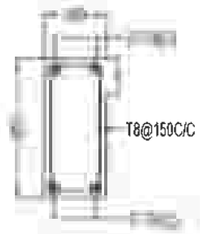
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B11	T16(C), T16(C), T16(C)	6(C), T8@125C/C, 6(C), 6(C)	6(C), 25C/C, T16(C)	
(200 X 750) B12	T20(C), 0@125C/C, S	T20(C), 125C/C, S.F, 1200C/C BAR, T20(E), T25(C)	T20(C), 0@125C/C, 2(C), S.F.R/E.F, T25(C)	
(200 X 450) B13	T20(C), 125C/C, 6(C)	T20(C), 125C/C, 6(C)	T20(C), 125C/C, 16(C)	



BB1 - 100 X 300
C/S DETAILS



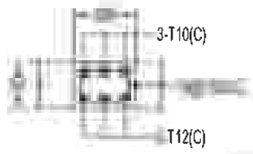
BB2 - 100 X 300
C/S DETAILS



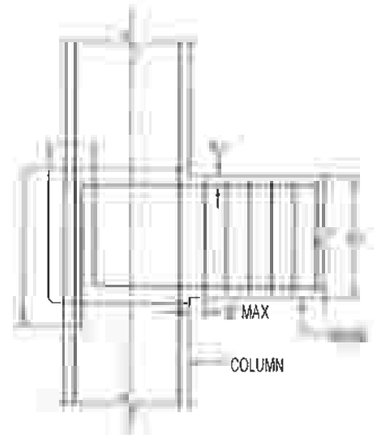
STB - 200 X 450
C/S DETAILS



HB1 - 200 x 165
C/S DETAILS

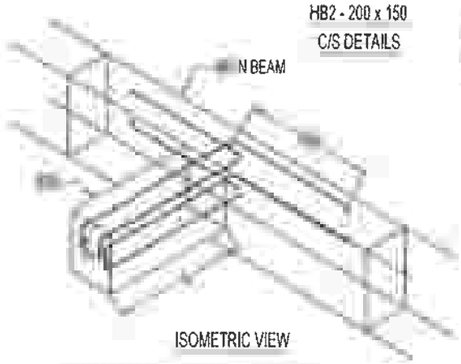


HB2 - 200 x 150
C/S DETAILS



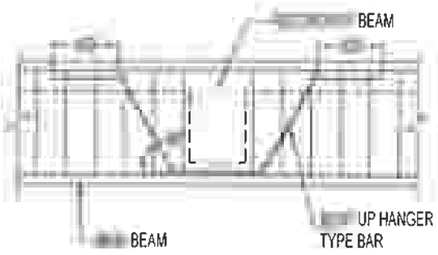
TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION

(Ld-45 Times of dia Bar)



ISOMETRIC VIEW

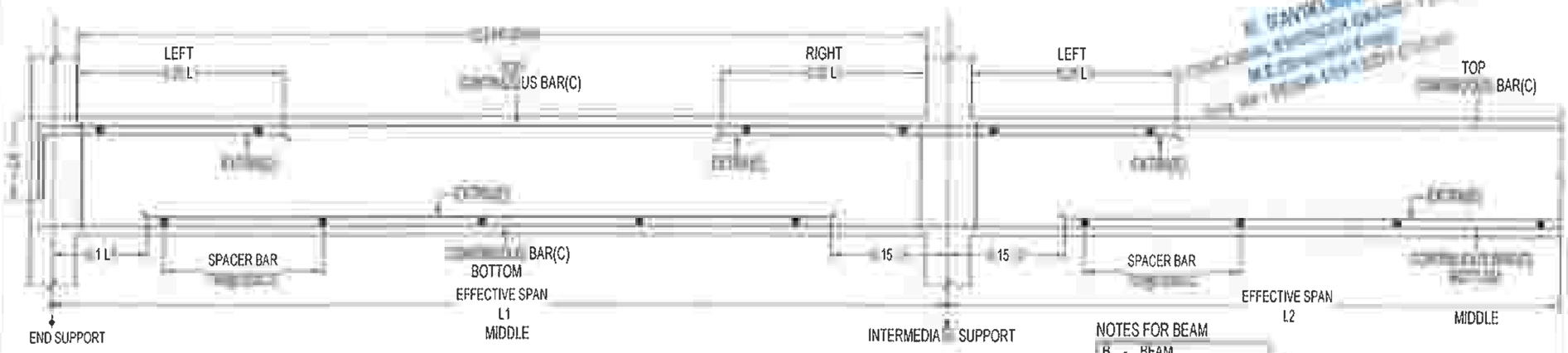
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM

B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

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- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
  ALL RCC MEMBERS IN M25 GRADE
- "@" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT.
  A. ROOF BEAM = 30mm
  B. ROOF SLAB = 20mm
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

b) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

c) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
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ARCHITECT

ADITYARAM GROUP

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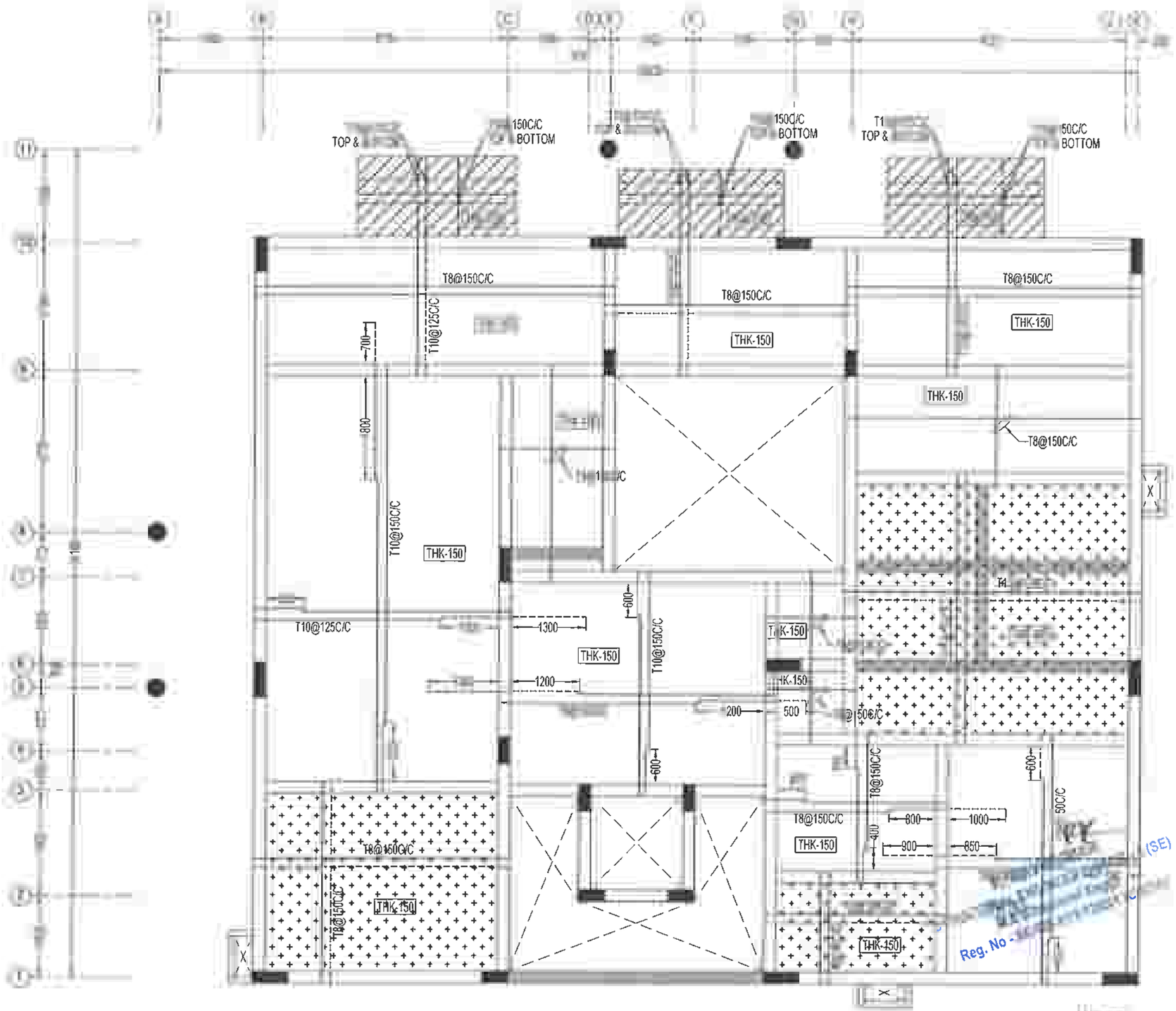
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
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CHENNAI - 600 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-06	08



GROUND FLOOR ROOF SLAB LAYOUT

- TOP ROD
- BOTTOM ROD
THK - THICKNESS

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8. CLEAR COVER TO REINFORCEMENT
   A. ROOF BEAM = 30mm
   B. ROOF SLAB = 20mm
9. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

REINFORCEMENT BARS

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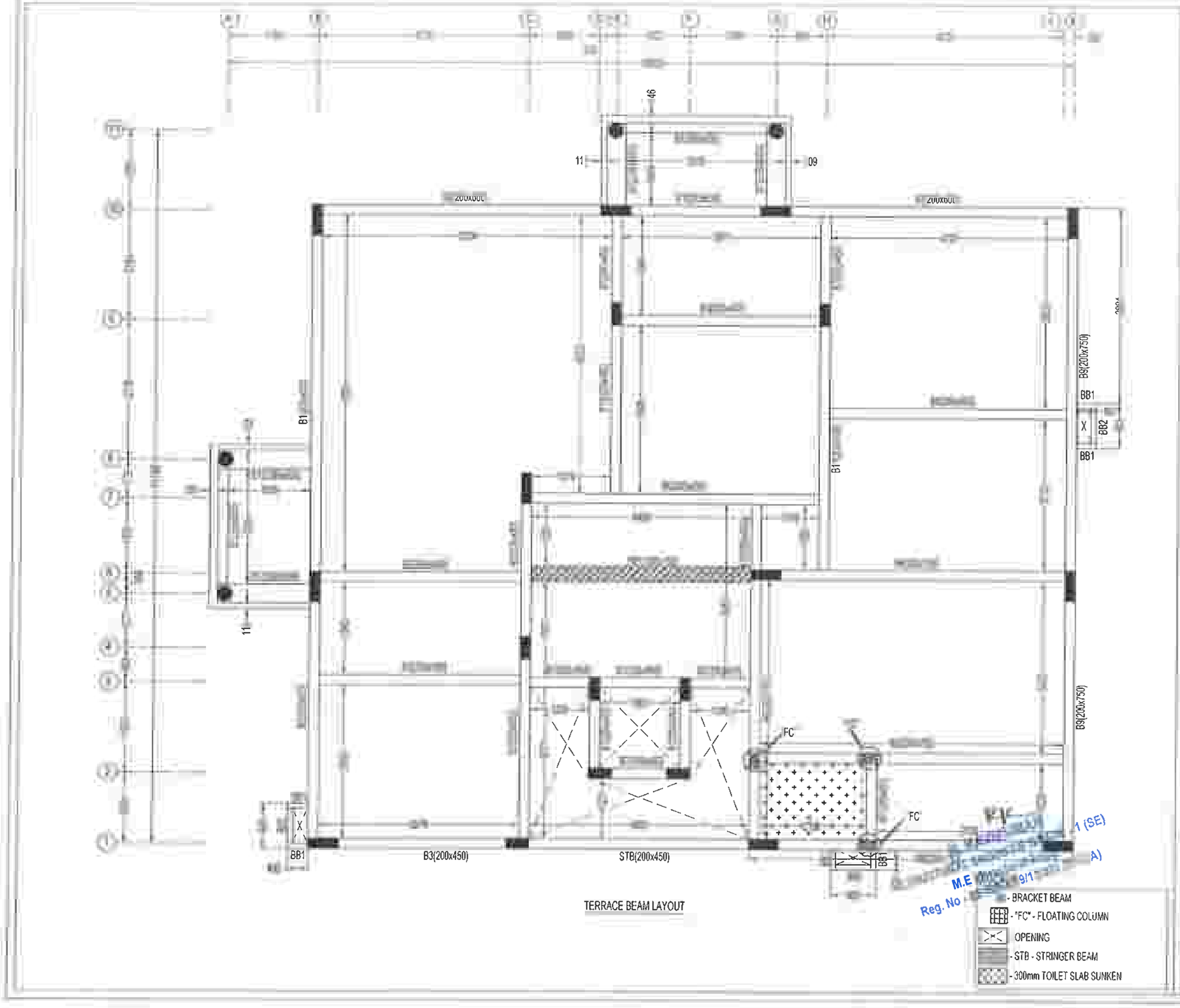
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safestructuralchennai@gmail.com
Web :

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB LAYOUT

REV.	DATE	PROJECT NO	SHEET NO
R1	7/11	ST-2025-09-06	09



TERRACE BEAM LAYOUT

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CLEAR COVER TO REINFORCEMENT
A ROOF BEAM = 30mm
B ROOF SLAB = 20mm

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

FORCEMENT BARS

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7
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ralconsultancy.com

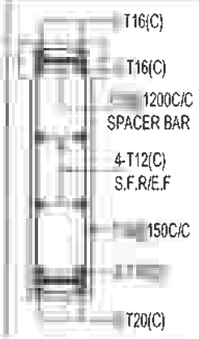
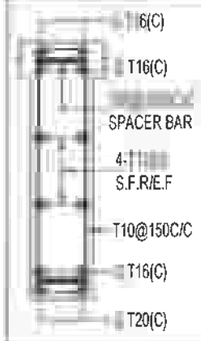
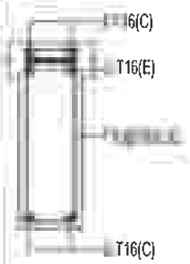
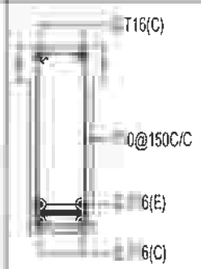
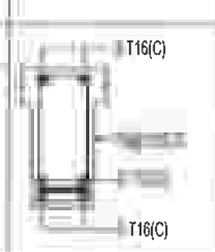
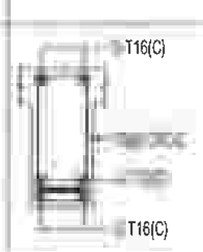
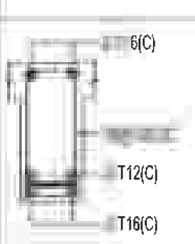
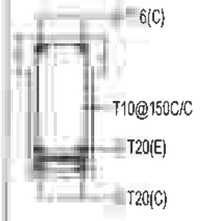
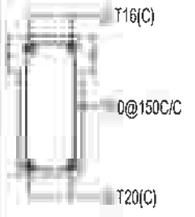
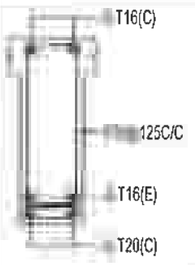
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

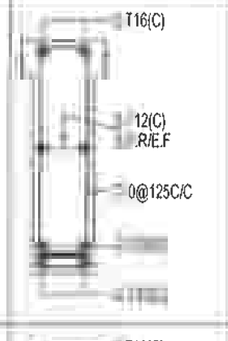
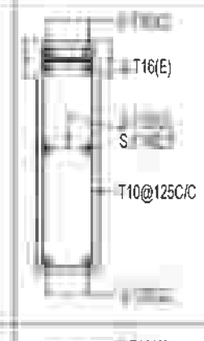
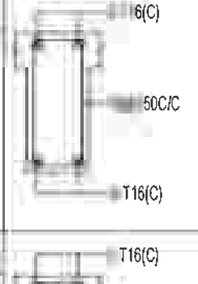
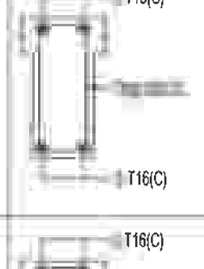
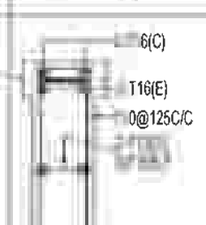
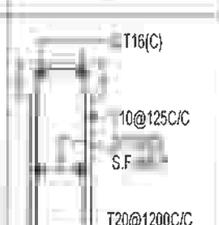
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	1	ST-2025-09-06	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 830) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 600) B5				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 750) B6				
(200 X 450) B7				
(200 X 750) B8				
(200 X 750) B9				
(200 X 450) B10				

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-06	11

TERRACE BEAM REINFORCEMENT SCHEDULE:

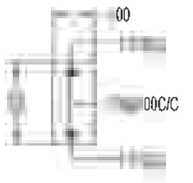
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 750) B11	T16(C) … S … 0@125C/C	T16(C) … 0@125C/C … T20@1200C/C SPACER BAR	T16(C) … E) … S.F … 0@125C/C	

TERRACE BEAM REINFORCEMENT SCHEDULE:

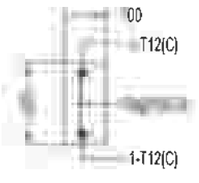
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 830) B3	T16(C) … T16(C) … 500C/C SPACER BAR … 4#-T12 S.F.R/E.F … 0@150C/C … T16(C) … 6(C)	(C) … T16(C) … 500C/C SPACER BAR … 4#-T12 S.F.R/E.F … 10@150C/C … T16(C) … T16(C)	T16(C) … 6(C) … 500C/C SPACER BAR … 4#-T12 S.F.R/E.F … T0@150C/C … T16(C) … T16(C)

LEGENDS:

C - CONTINUOUS BAR
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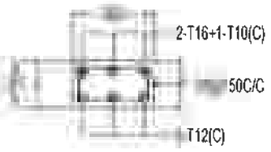
BB1 - 100 X 300
C/S DETAILS



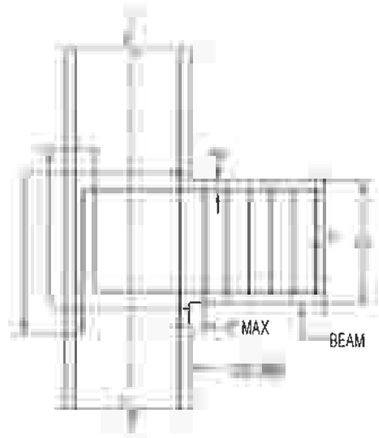
BB2 - 100 X 300
C/S DETAILS



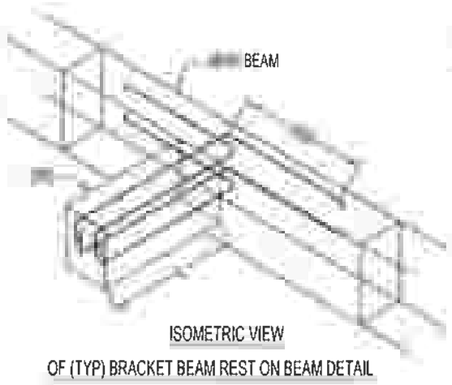
STB - 200 X 450
C/S DETAILS



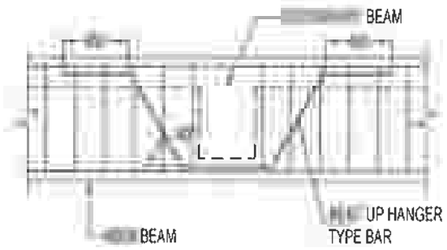
HB1 - 300 x 150
C/S DETAILS



TYPICAL EXTERNAL JOINT DETAILS AT
BEAM COLUMN JUNCTION
(Ld-45 Times of dia Bar)

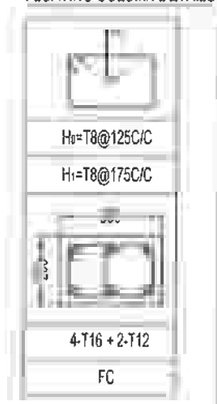


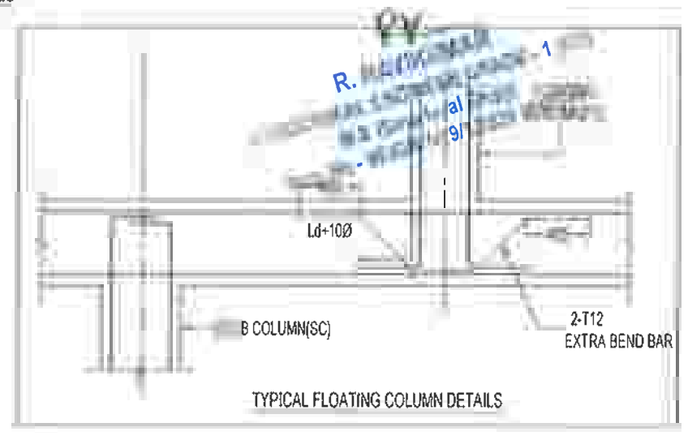
ISOMETRIC VIEW
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE
PROVIDED AT 2-T16

FLOATING COLUMN DETAILS





TYPICAL FLOATING COLUMN DETAILS

DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT TO AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY

TECHNICAL NOTES

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- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
  ALL RCC MEMBERS IN M25 GRADE
- "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT
  A ROOF BEAM = 30mm
  B ROOF SLAB = 20mm
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

- LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

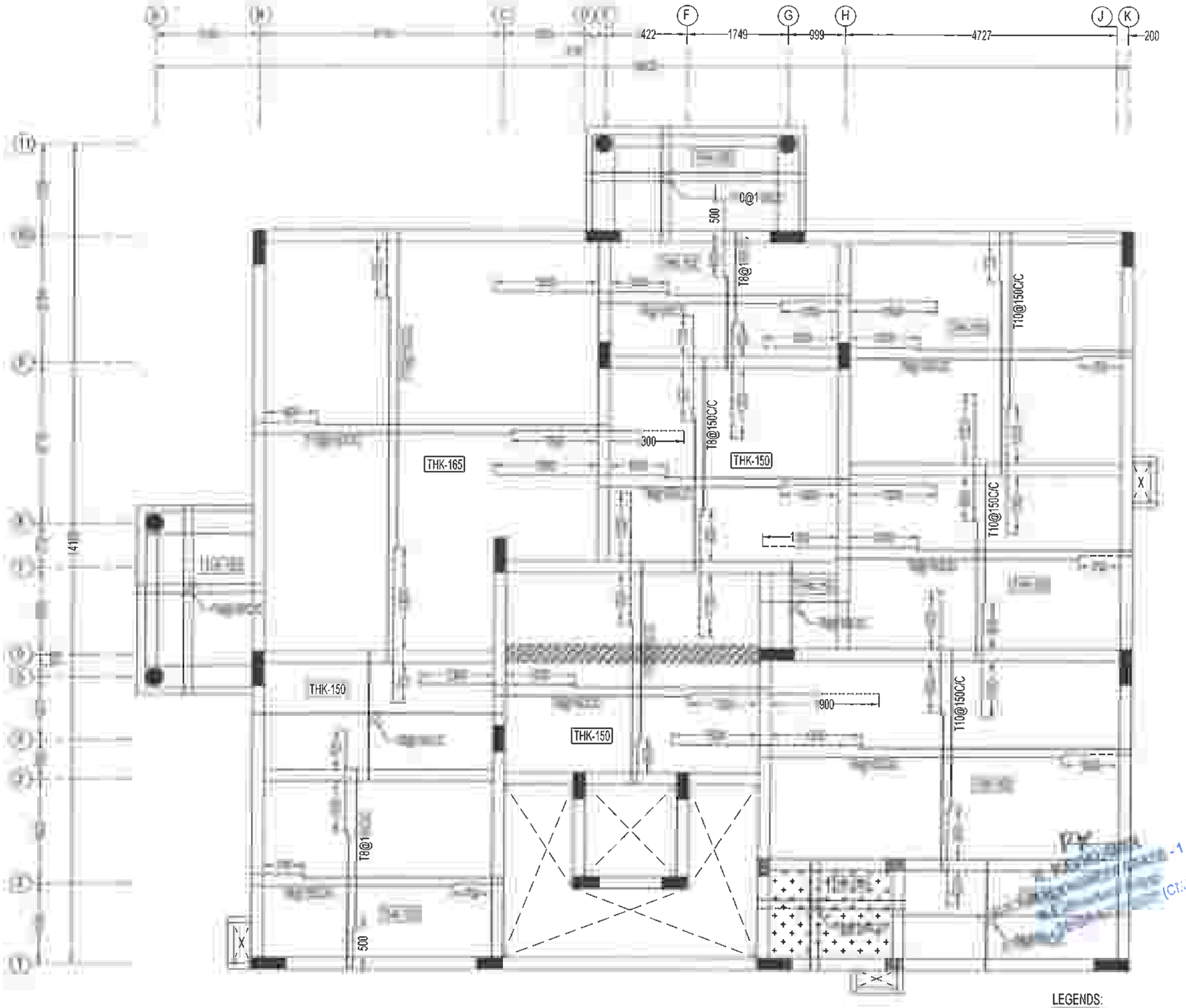
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1486, 200 FEET
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET NO
R1	7/1	ST-2025-09-06	12



TERRACE SLAB LAYOUT

DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT LTD AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY TO RECIVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS DRG ARE FOR THIS PROJECT ONLY.

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

'Ø' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

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B. ROOF SLAB = 20mm

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

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CLIENT

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PROJECT

ADITYARAM PALACE CITY,(VILLA 9 & 10)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1456, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1	7/11	ST-2025-09-06	13

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   - F. RCC WALL = 1"
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
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COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

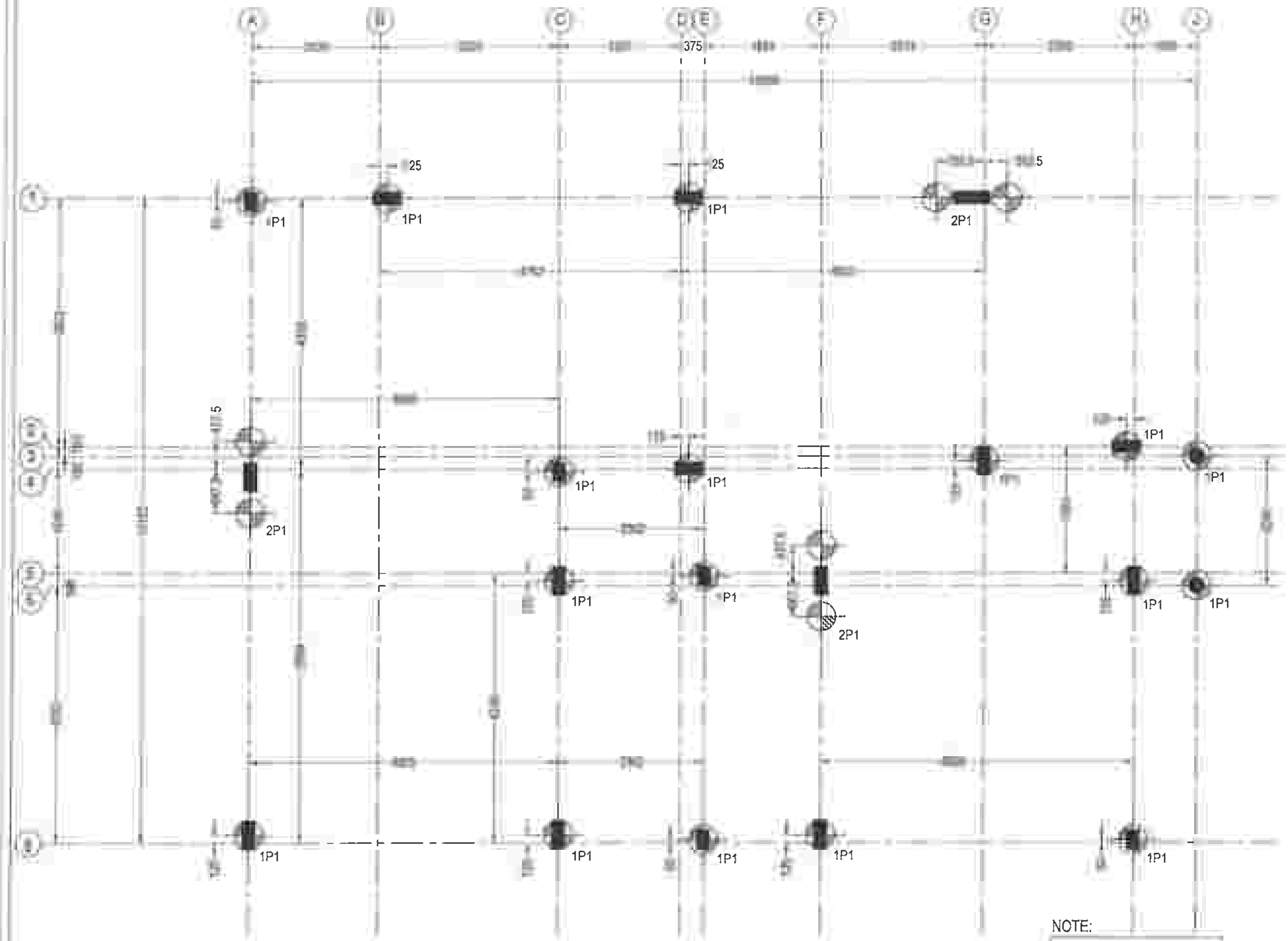
STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	01



PILE(P) MARKING LAYOUT

R. [illegible]
STRUCTURAL [illegible]
M.E [illegible]

NOTE:

NO.OF PILE - 23 NOS

LEGENDS:

P1 - PILE (450dia)

DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT. IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR SSC'S PRIOR PERMISSION. THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY

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- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.
- [illegible]
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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
[illegible]uralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	8/02/2[illegible]	ST-2024-18-09	02

THIS DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT LTD AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY SSC TO RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR PART WITHOUT SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS DRG ARE FOR THIS PROJECT ONLY

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ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

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@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
R.
structuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

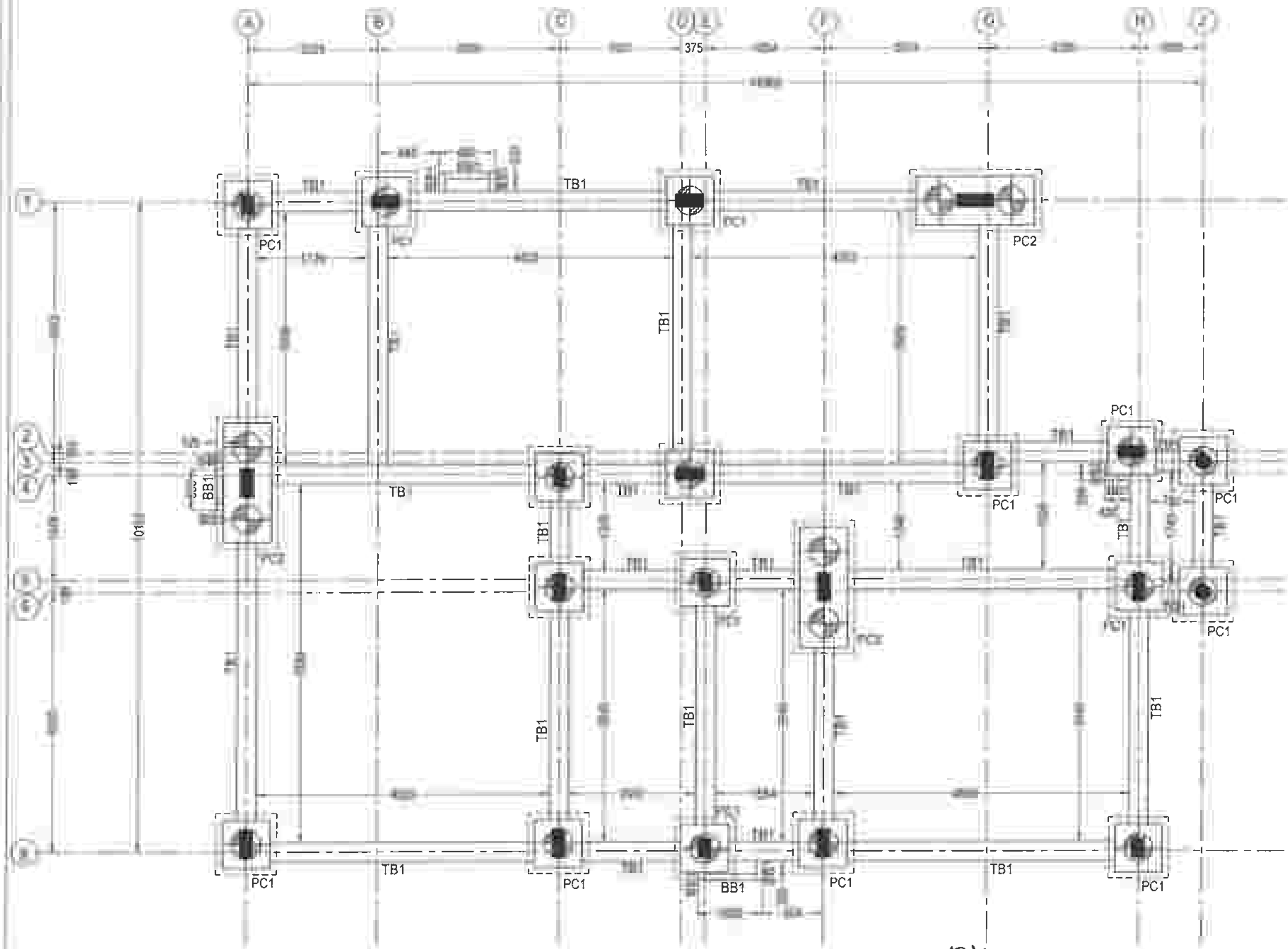
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2024-18-09	03

PILE CAP(PC) MARKING LAYOUT

R.
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS

PC - PILE CAP



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

RK
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS

PC - PILE CAP
TB - TIE BEAM
BB - BRACKET BEAM

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NAGAR, CHENNAI - 600 119.

PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

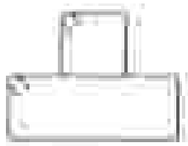
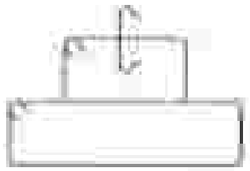
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

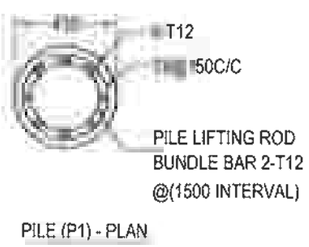
DRAWING NAME

TIE LAYOUT

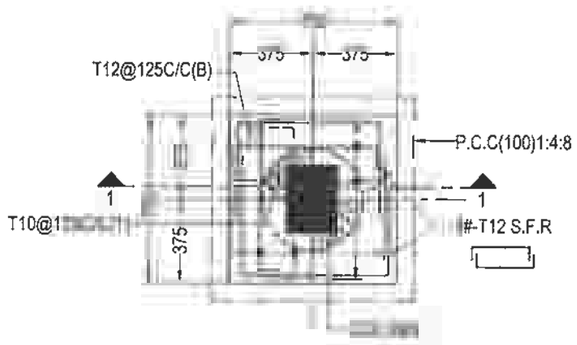
REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2024-18-09	04

COLUMN REINFORCEMENT SCHEDULE

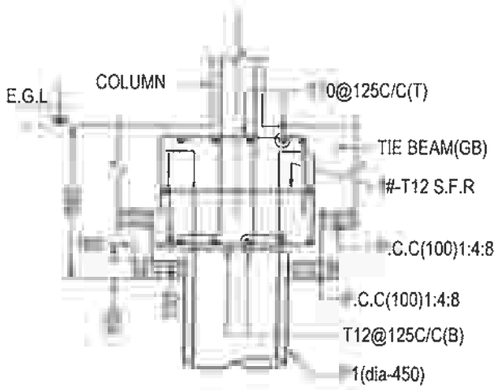
TERRACE FLOOR ROOF LEVEL TO FOOTING MIX-M30 ⊙- T16 ⊕- T12				
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
	4-T16 + 2-T12	8-T16	10-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3	C4



PILE (P1) - PLAN



PC1 - PLAN



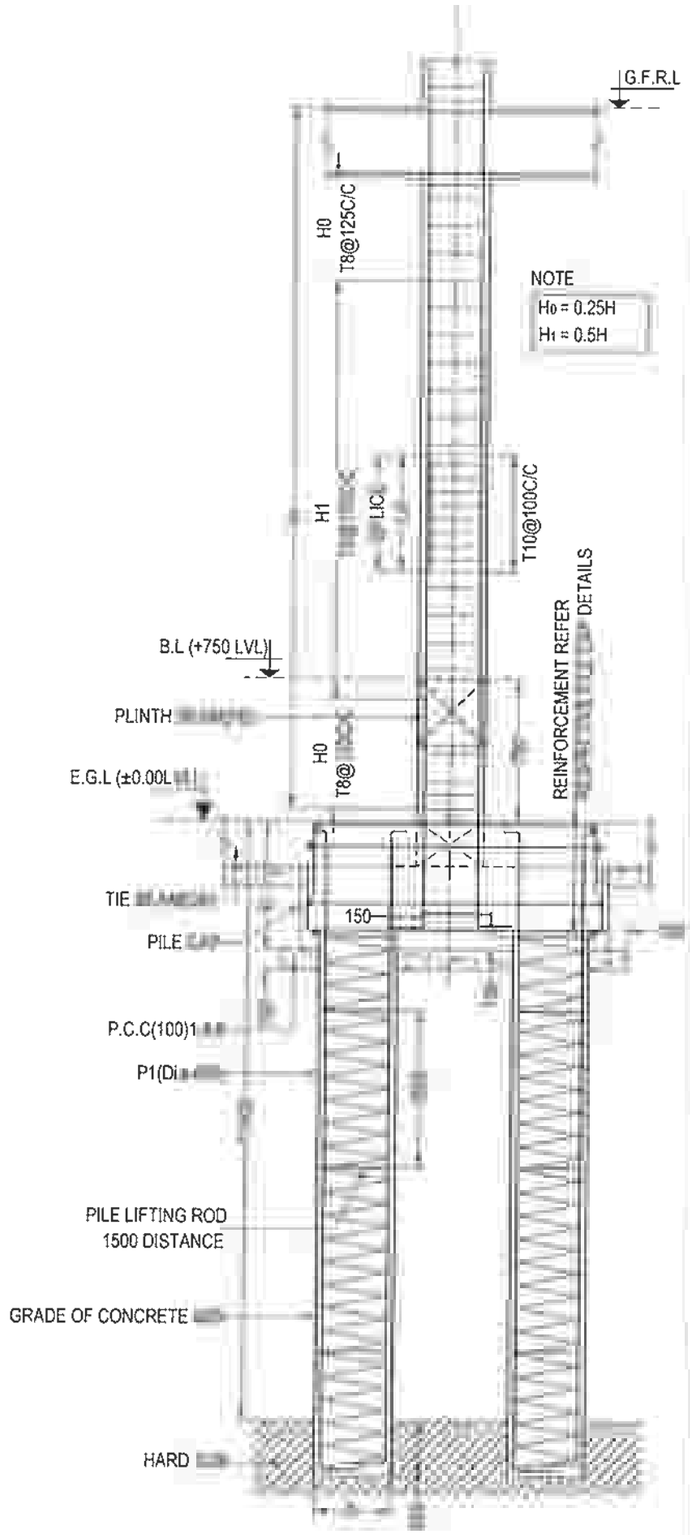
SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

R. RAVI
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL COLUMN & PILE CONFINING DETAILS

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, EAST COAST ROAD, PANAIYUR,
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PROJECT

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ARCHITECT

ADITYARAM GROUP

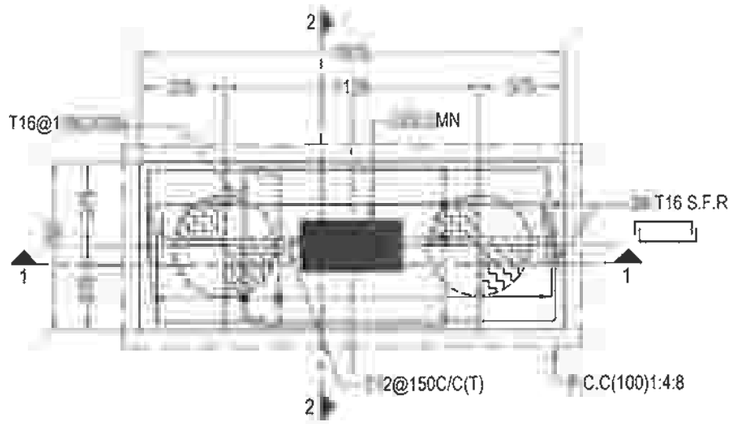
STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

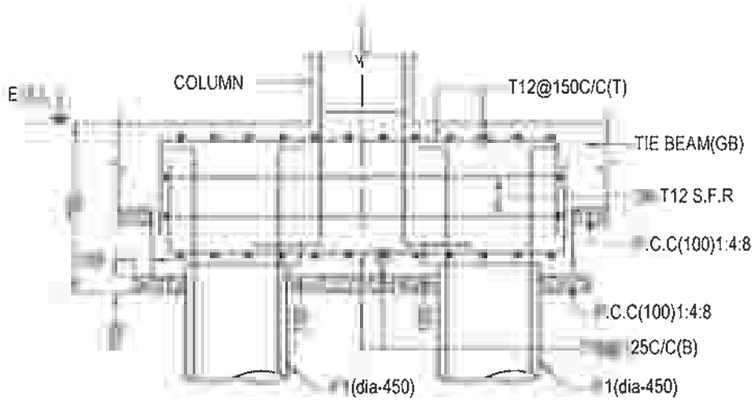
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

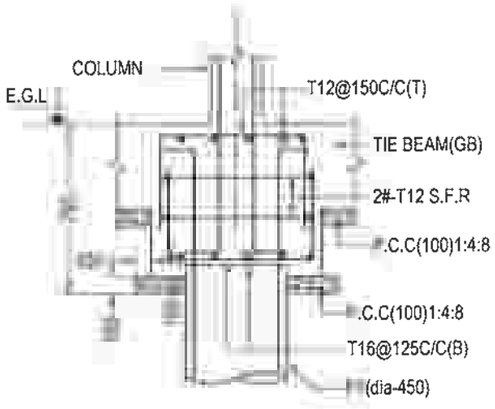
REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	05



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   ALL RCC MEMBERS IN M25(1:1:2) GRADE
7. "0" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500
   CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A COLUMNS = 1½"
   - B FOUNDATION = 2"
   - C. GRADE BEAM = 1"
   - D FLOOR BEAM = 1"
   - E. FLOOR SLAB = ¾"
   - F. RCC WALL = 1"
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11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
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LAP JOINTS FOR REINFORCEMENT BARS :

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R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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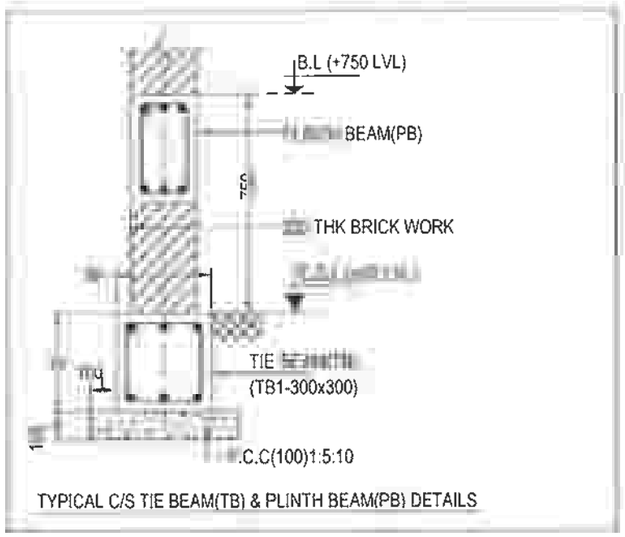
DRAWING NAME

PILE CAP SECTION DETAILS

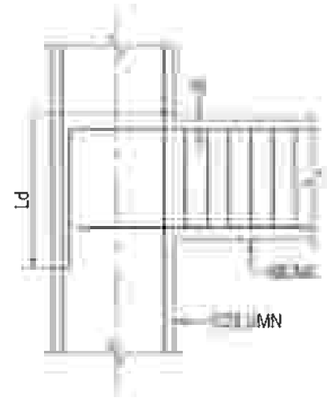
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2024-18-09	06

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	6(C), 150C/C, C.C, T16(C)	16(C), 150C/C, C.C, 16(C)	16(C), 50C/C, C.C, 16(C)
(100 X 300) BB1	-T12(C), 50C/C, C.C, -T12(C)	-T12(C), 150C/C, C.C, 2(C)	-T12(C), 150C/C, C.C, -T12(C)
(200 X 300) BB2	T12(C), 50C/C, C.C, 2(C)	2(C), 150C/C, C.C, 2(C)	T12(C), 50C/C, C.C, T12(C)



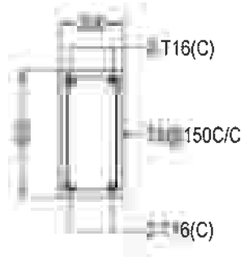
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



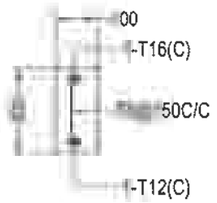
TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

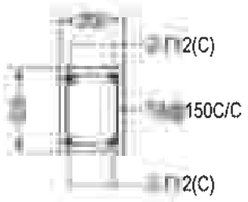
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



PB1 - 200 X 400
C/S DETAILS

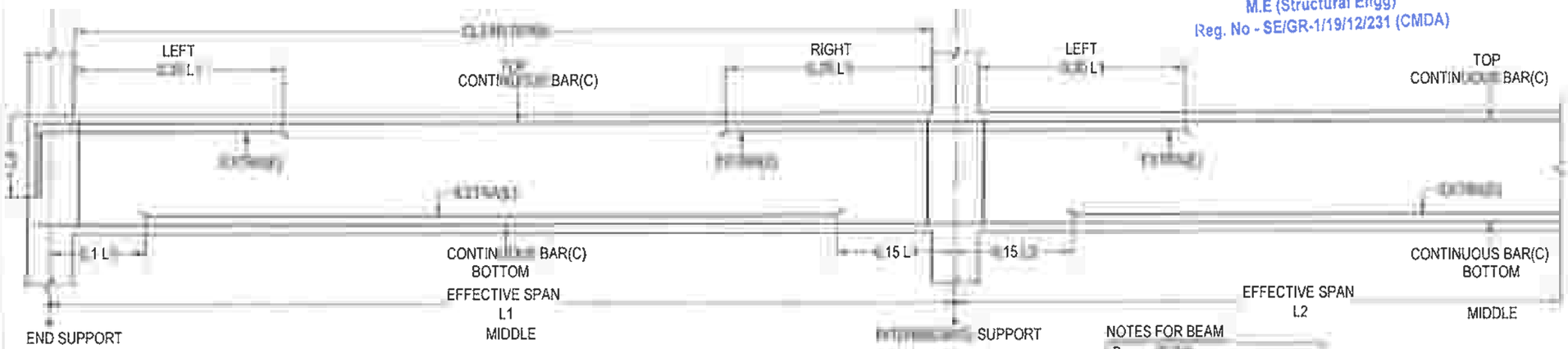


BB1 - 100 X 300
C/S DETAILS



BB2 - 200 X 300
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM
B
C CONTINUOUS BAR
E EXTRA BAR

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NO-50, EAST COAST ROAD, PANAIYUR,
NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

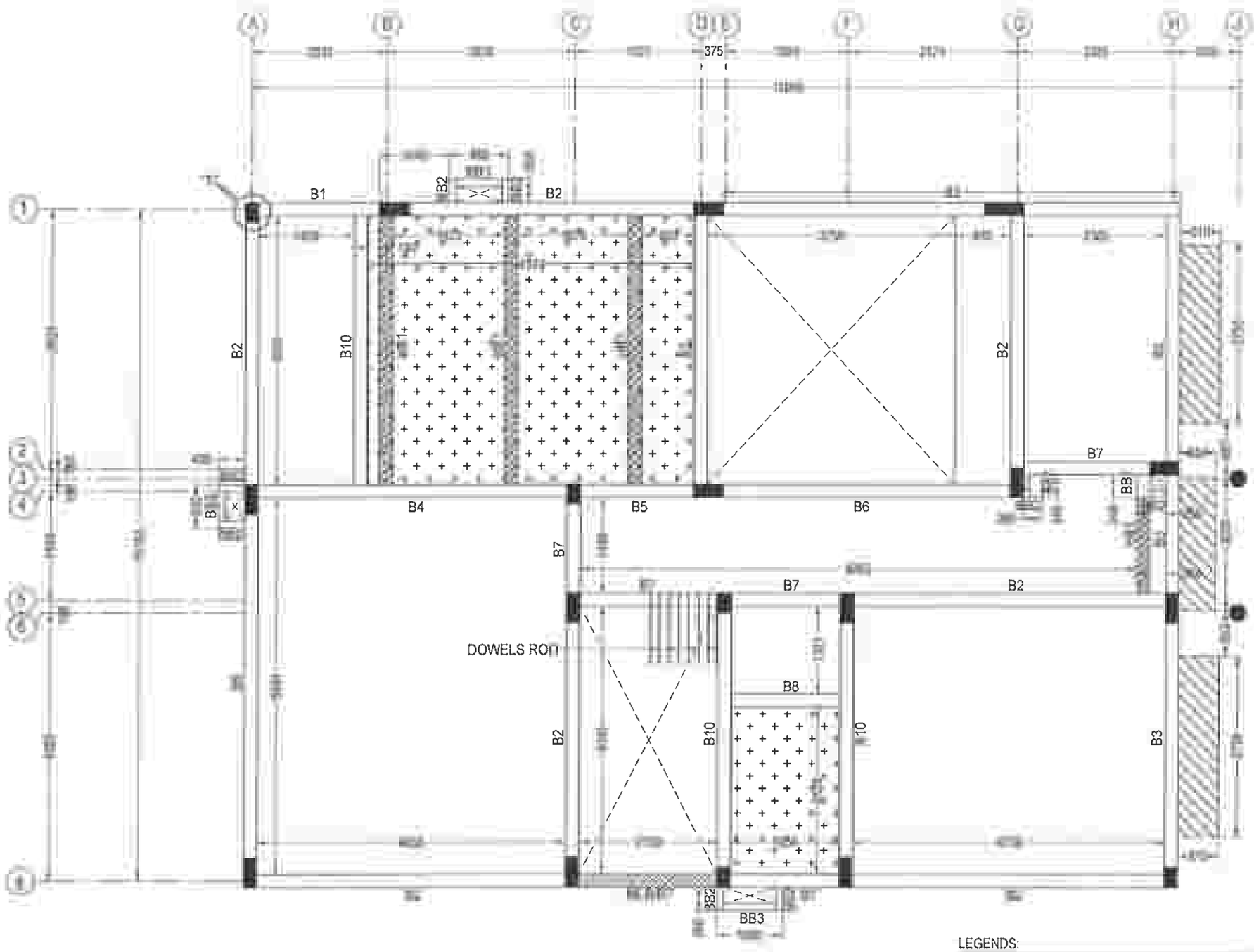
STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM(TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2024-18-09	07



GROUND FLOOR ROOF BEAM LAYOUT

LEGENDS:

- T - COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- BB - BRACKET BEAM
- - TOILET SUNKEN
- - OPENING
- - HB - HIDDEN BEAM
- - MLB - MID LANDING BEAM
- - 100mm SLAB SUNKEN

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C. GRADE BEAM = 1"
D. FLOOR BEAM = 1"
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F. RCC WALL = 1"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

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CLIENT

ADITYARAM HOUSING PRIVATE LIMITED
NO.44, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
A BLOCK PLOT NO.22 ,
MANIMEGALAI NAGAR,
3RD STREET,S KOLATHUR,
CHENNAI - 600 117
CONTACT : +91 9087725267
safestructureschennai@gmail.com
Web. :

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	08

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1	T16(C) T8@125C/C T12(C) T16(C)	2-T16(C) T8@125C/C T12(C) T16(C)	T16(C) 125C/C T12(C) T16(C)	
(200 X 450) B2	T16(C) T16(E) 25C/C 6(C)	T16(C) 75C/C 6(C)	T16(C) T16(E) 125C/C T16(C)	
(200 X 830) B3	T20(C) T20(C) 1500C/C BAR T12 S.F.R/E.F 10@125C/C T20(C)	T20(C) 1500C/C BAR T12 S.F.R/E.F 10@125C/C T20(C)	T20(C) 1500C/C BAR T12 S.F.R/E.F T10@125C/C	
(200 X 450) B4	T16(C) T16(E) T10@125C/C 6(C)	T16(C) 0@175C/C T20(E) T16(C)	2-T16(C) 6(E) 0@125C/C T16(C)	
(200 X 450) B5	T16(C) T16(C) 150C/C T16(C)	6(C) T16(C) 150C/C T16(C)	T16(C) 2-T16(C) 8@150C/C T16(C)	
(200 X 450) B6	T16(C) T16(E) 25C/C T16(C)	T16(C) 75C/C T12(E) T16(C)	6(C) 2(E) T8@125C/C T16(C)	

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7	T16(C) 25C/C T16(C)	6(C) 125C/C T16(C)	T16(C) T8@125C/C 6(C)	
(200 X 450) B8	T12(C) @150C/C 6(C)	2(C) 150C/C T16(C)	T12(C) T8@150C/C 6(C)	
(200 X 600) B9	T16(C) 2(E) T8@125C/C 6(C)	6(C) T16(E) T16(C)	T16(C) 2(E) 125C/C T16(C)	
(200 X 450) B10	T16(C) 125C/C T16(C)	T16(C) T8@175C/C 6(E) 6(C)	6(C) 25C/C T16(C)	

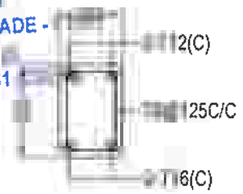
150 THK FLOOR SLAB



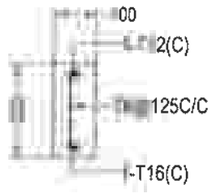
HB1 - 200 X 150
C/S DETAILS

LEGENDS:

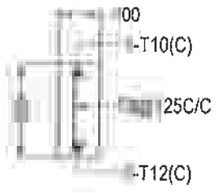
C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



BB1 - 200 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



BB3 - 100 X 300
C/S DETAILS

R. R. [illegible]
STRUCTURAL ENGINEER GRADE - I
M.E (Structural Engg.)
Reg. No - SE/[illegible]/19/12/231

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE
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ADITYARAM NAGAR, CHENNAI - 600 119.

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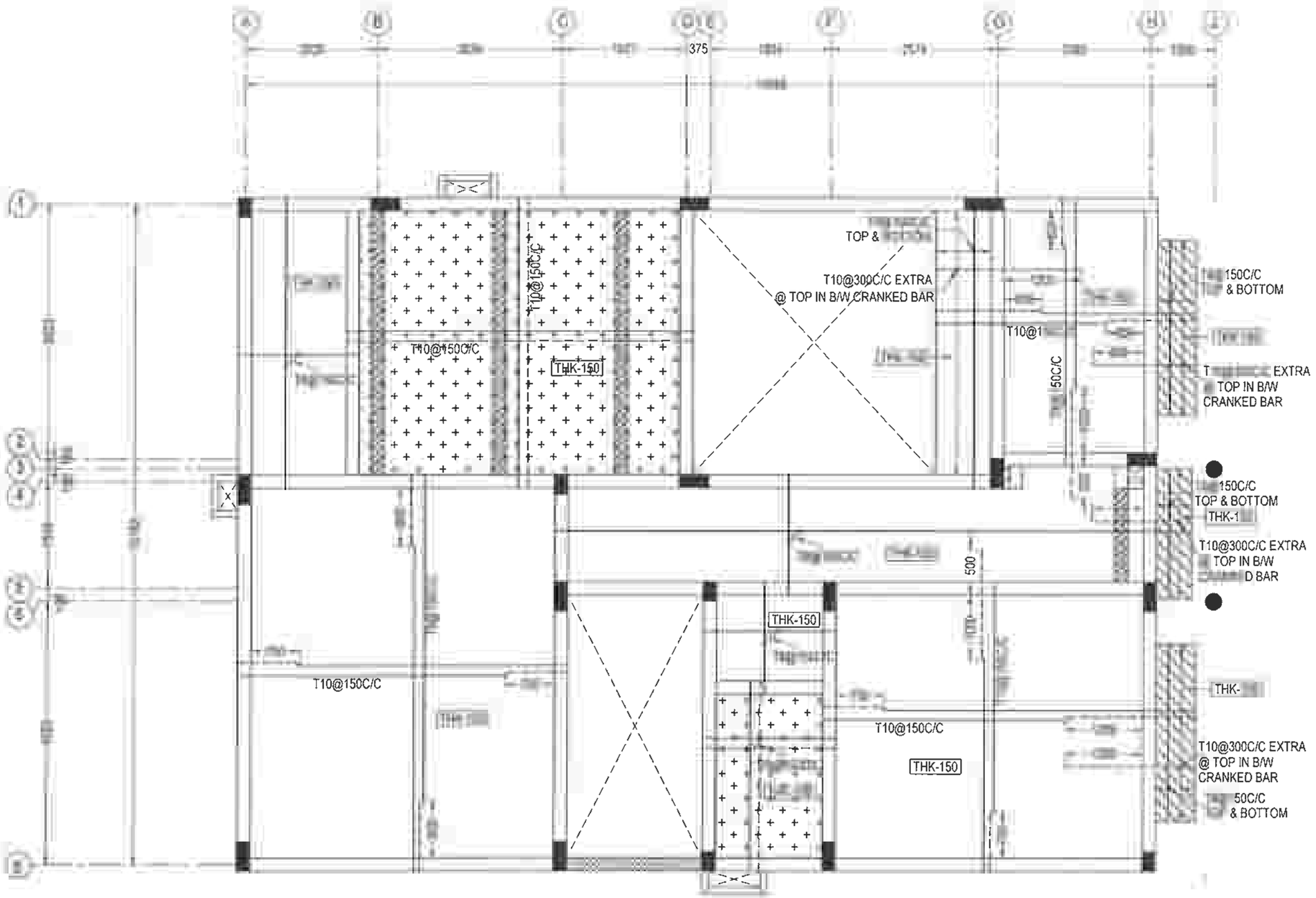
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SCALE	1:100	☑ APPROVAL
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DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	8/02/2[illegible]	ST-2024-18-09	09



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

LEGENDS:

——————— - BOTTOM ROD

– – – – – – – – – - TOP ROD

THK - THICKNESS

R. RAVI
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - S 9/12/231 (CMDA)

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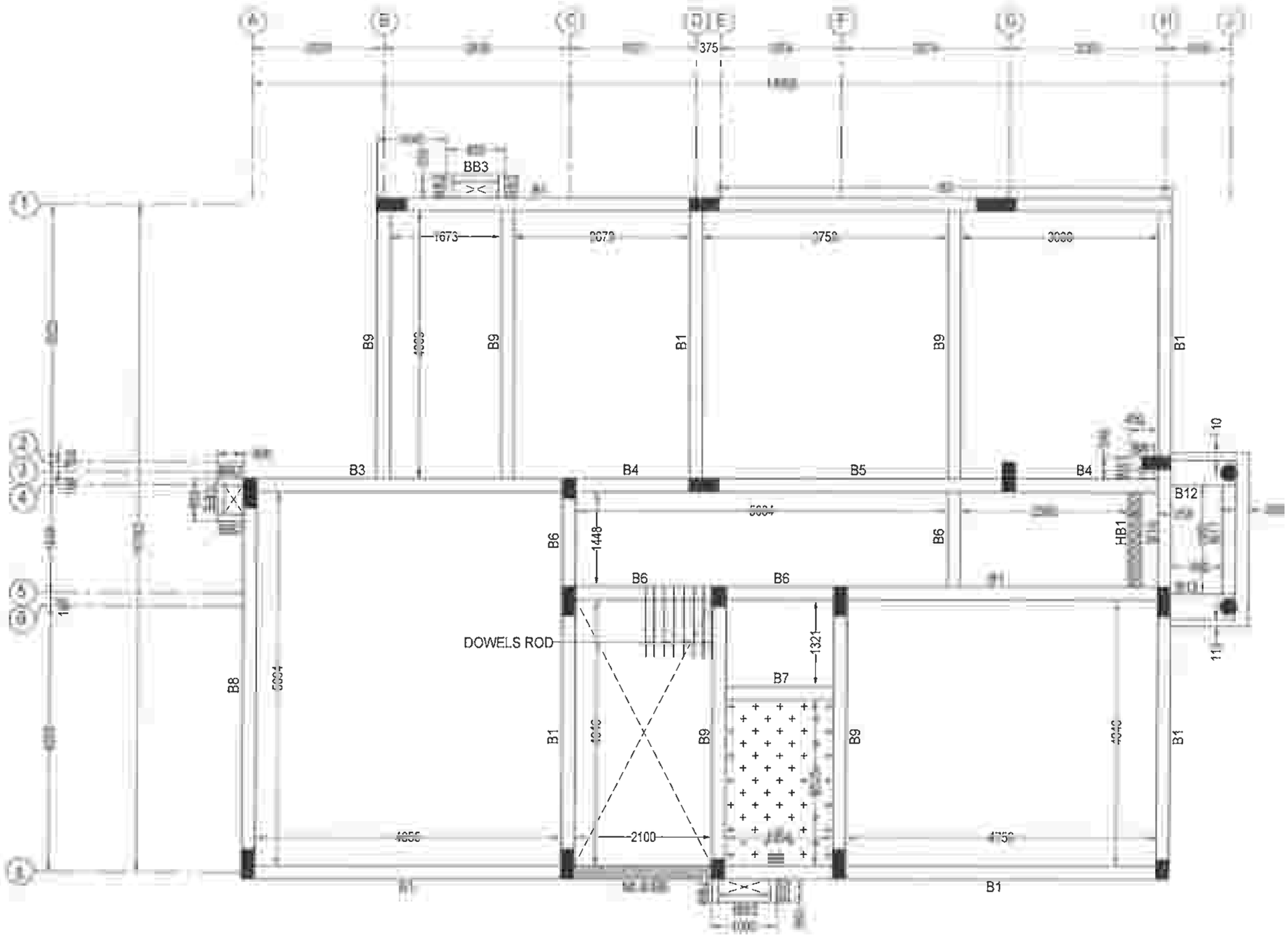
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DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	10



LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - HB - HIDDEN BEAM
- - MLB - MID LANDING BEAM
- - TOILET SUNKEN

TERRACE BEAM LAYOUT

R. KAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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- "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
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  - A. COLUMNS = 1½"
  - B. FOUNDATION = 2"
  - C. GRADE BEAM = 1"
  - D. FLOOR BEAM = 1"
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O-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

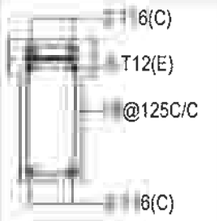
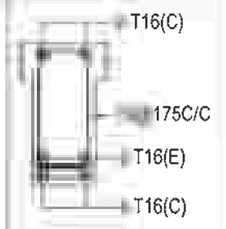
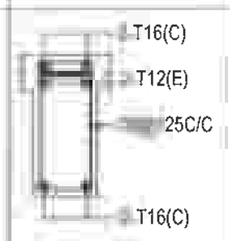
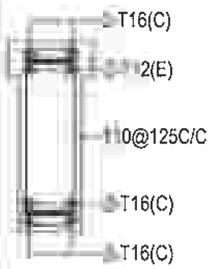
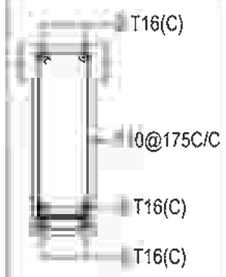
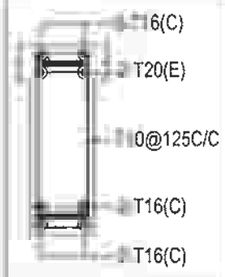
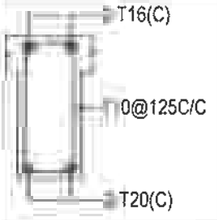
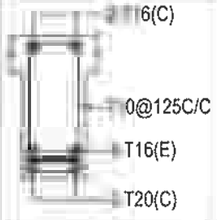
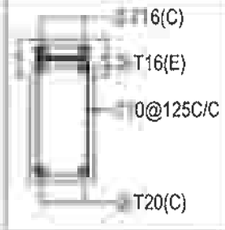
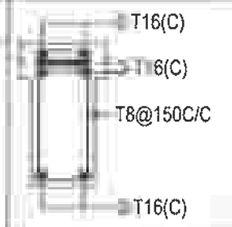
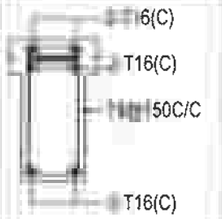
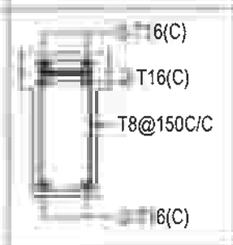
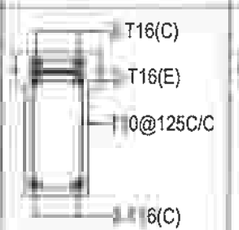
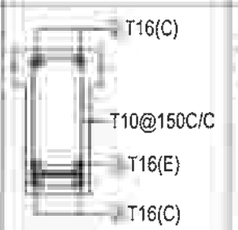
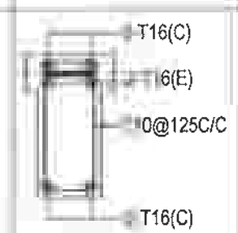
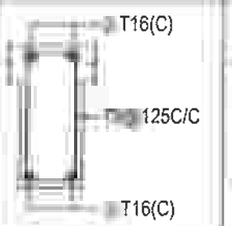
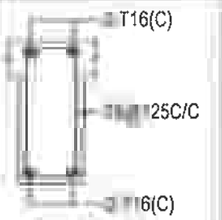
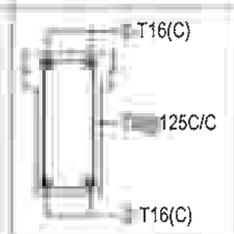
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

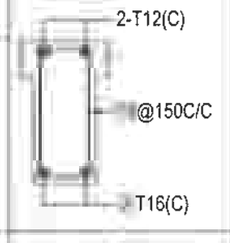
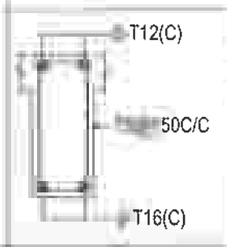
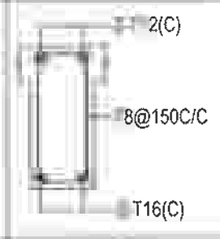
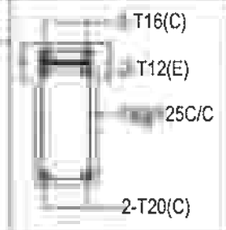
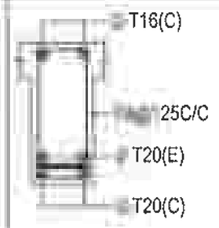
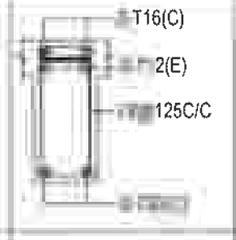
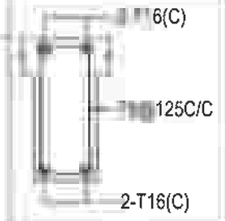
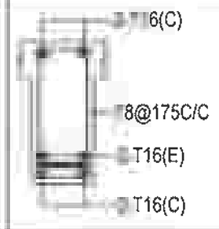
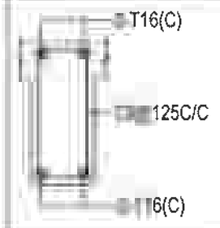
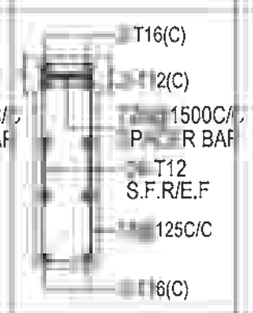
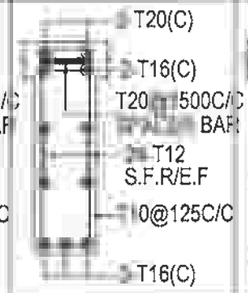
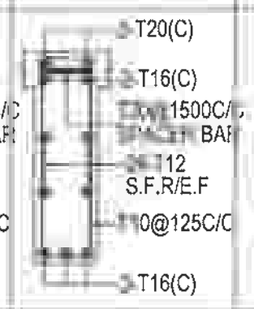
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	11

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 450) B8				
(200 X 450) B9				
(200 X 830) B10				
(200 X 830) B11				

R. [illegible]
STRUCTURAL [illegible]
M.E [illegible]

LEGENDS

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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ARCHITECT

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CONTACT : +91 9087725367
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Web.:

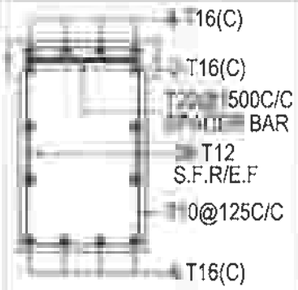
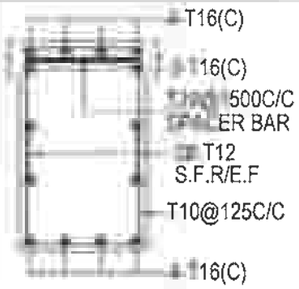
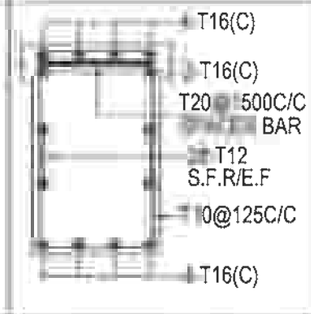
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

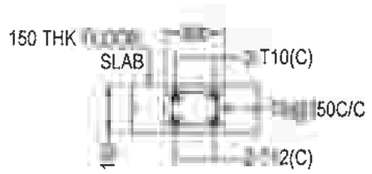
DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2024-18-09	12

TERRACE BEAM REINFORCEMENT SCHEDULE:

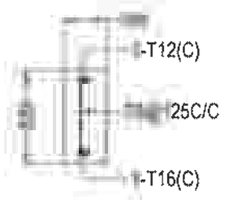
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 830) B12			



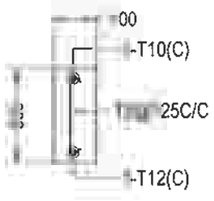
H81 - 200 X 150
C/S DETAILS



BB1 - 200 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



BB3 - 100 X 300
C/S DETAILS

RK
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

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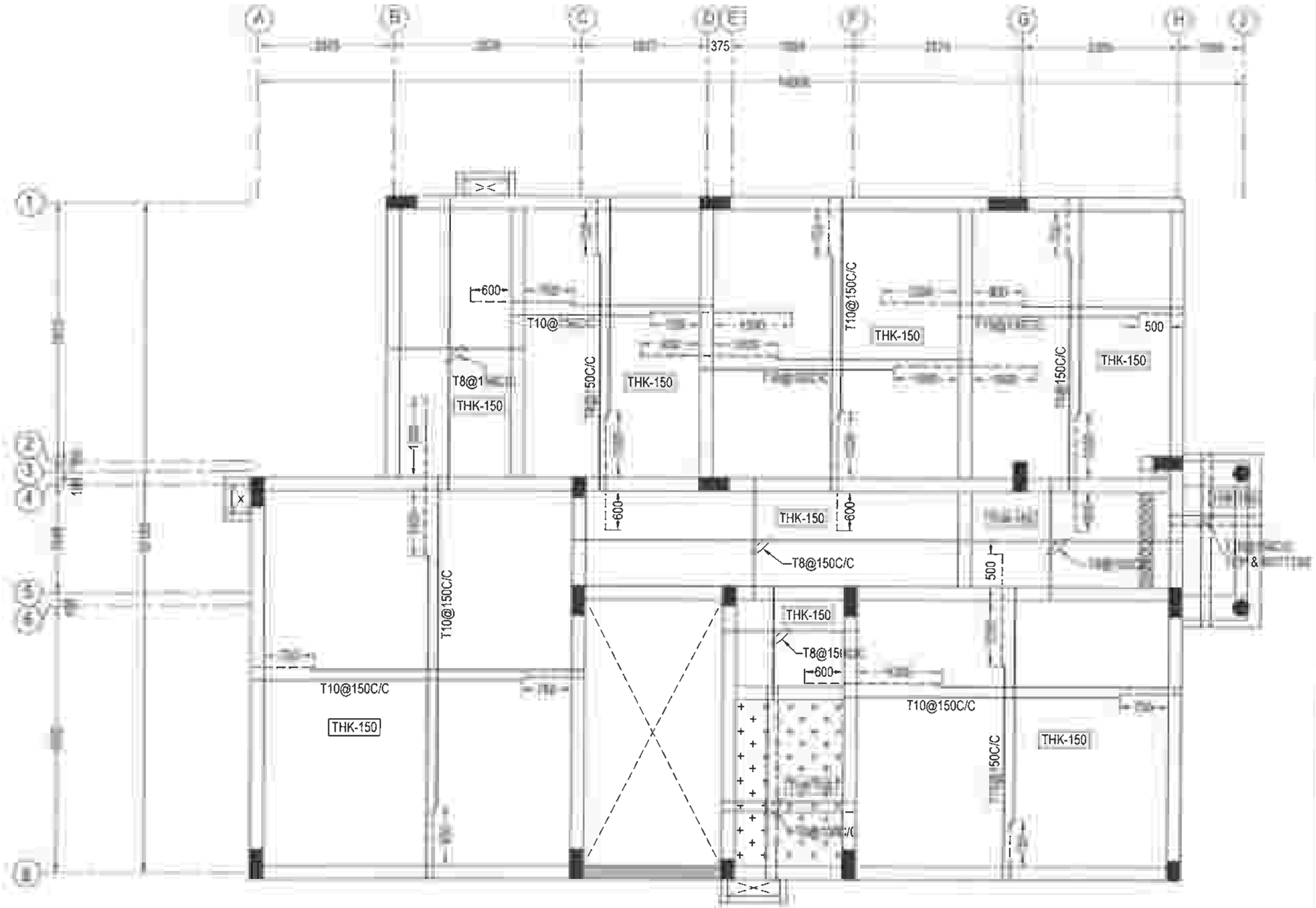
STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	13



TERRACE SLAB DETAILS

LEGENDS:

- BOTTOM ROD
- TOP ROD
- THK - THICKNESS

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- CLEAR COVER TO REINFORCEMENT
  - A. COLUMNS = 1½"
  - B. FOUNDATION = 2"
  - C. GRADE BEAM = 1"
  - D. FLOOR BEAM = 1"
  - E. FLOOR SLAB = ¾"
  - F. RCC WALL = 1"
- 0. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
- 1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FO REINFORCEMENT

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

- LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

ADITYARAM HOUSING PRIVAE LIMI
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 26)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

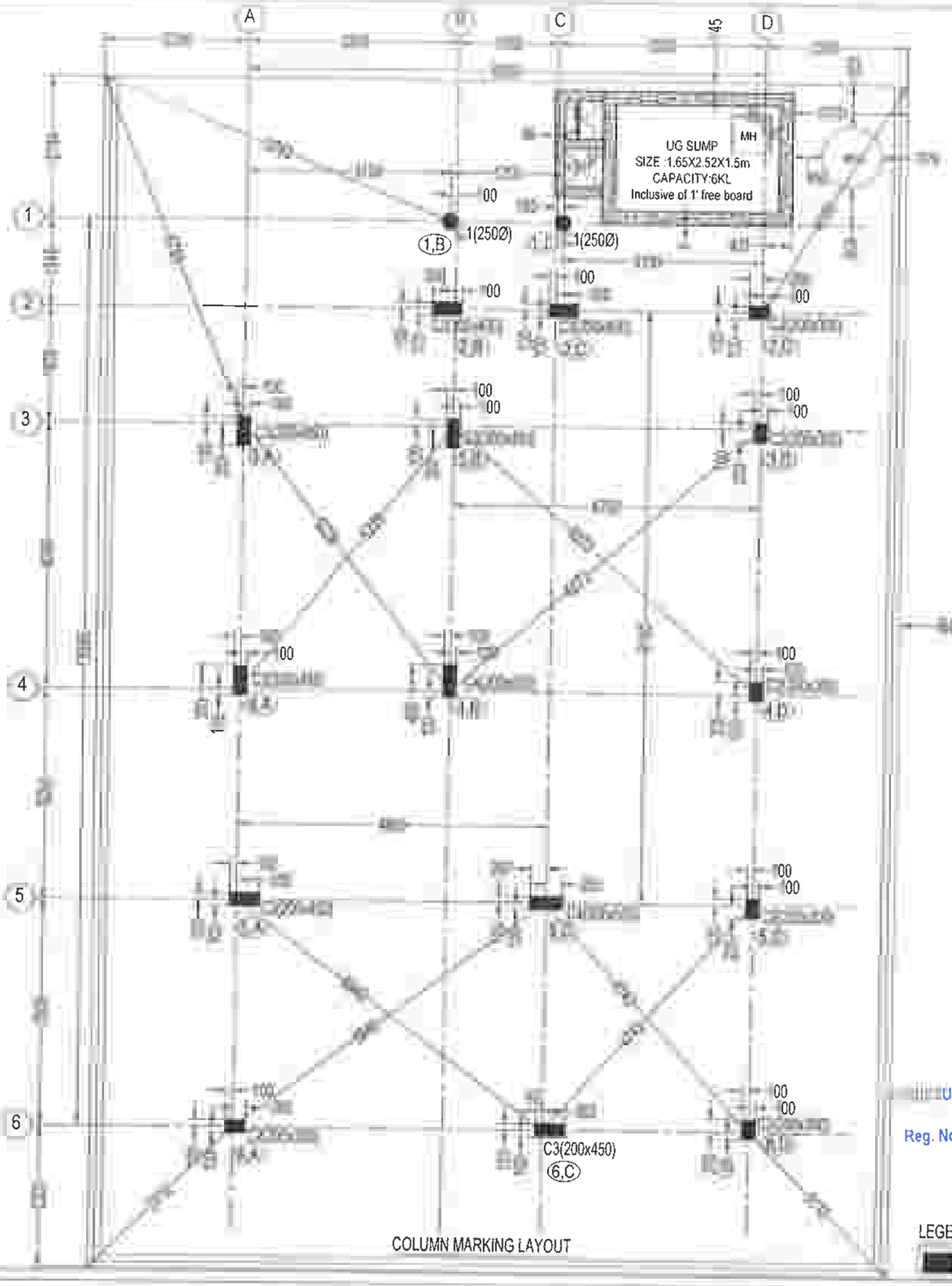
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-09	14



COLUMN MARKING LAYOUT

BOUNDARY LINE

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:
- C - COLUMN

DRG IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT TO AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR SSC'S PRIOR PERMISSION THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY

TECHNICAL NOTES

ALL DIMENSIONS ARE IN MILLIMETER & METER UNLESS OTHER WISE SPECIFIED

ONLY WRITTEN DIMENSION TO BE FOLLOWED.

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ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M30 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS	= 40mm
B. PILE	= 40mm
C. PILE CAP	= 50mm
D. TIE BEAM	= 30mm
E. FLOOR BEAM	= 30mm
F. FLOOR SLAB	= 20mm

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1.THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

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FOR ENT BA

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CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 30)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

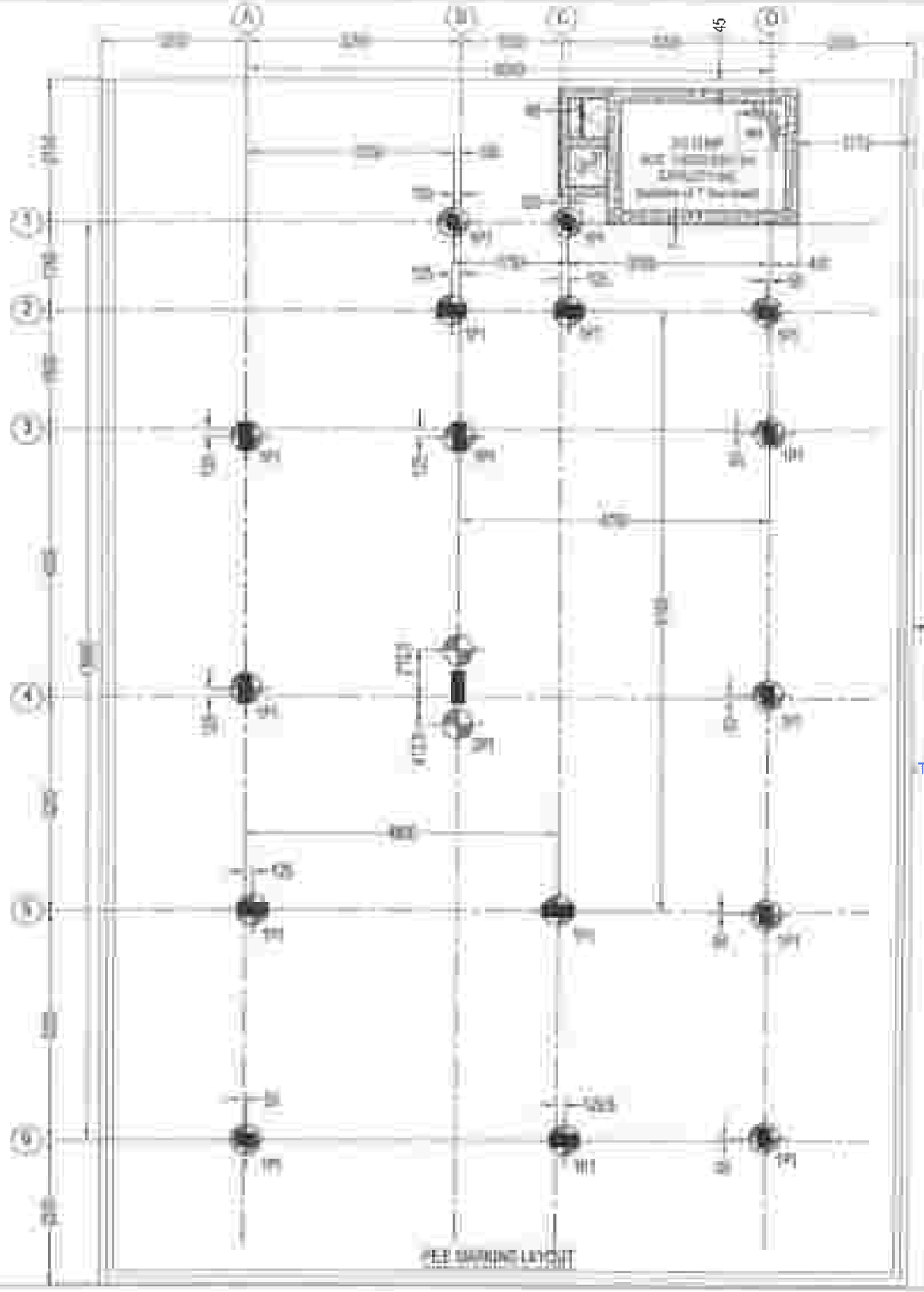
SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO 22, MANIMEGALAI NAGAR, 3RD STREET,S KOLATHUR, CHENNAI 600 217
TC/RA 22,VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, COCHIN-682 301
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R2	1	ST-2023-18-01	01



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   - C PILE CAP = 50mm
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BOUNDARY LINE

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



PILE (P1) - PLAN

NOTE:
NO.OF PILE -18 NOS

LEGENDS
P -PILE (450mmdia)

CLIENT
M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT
ADITYARAM PALACE CITY,(VILLA 30)
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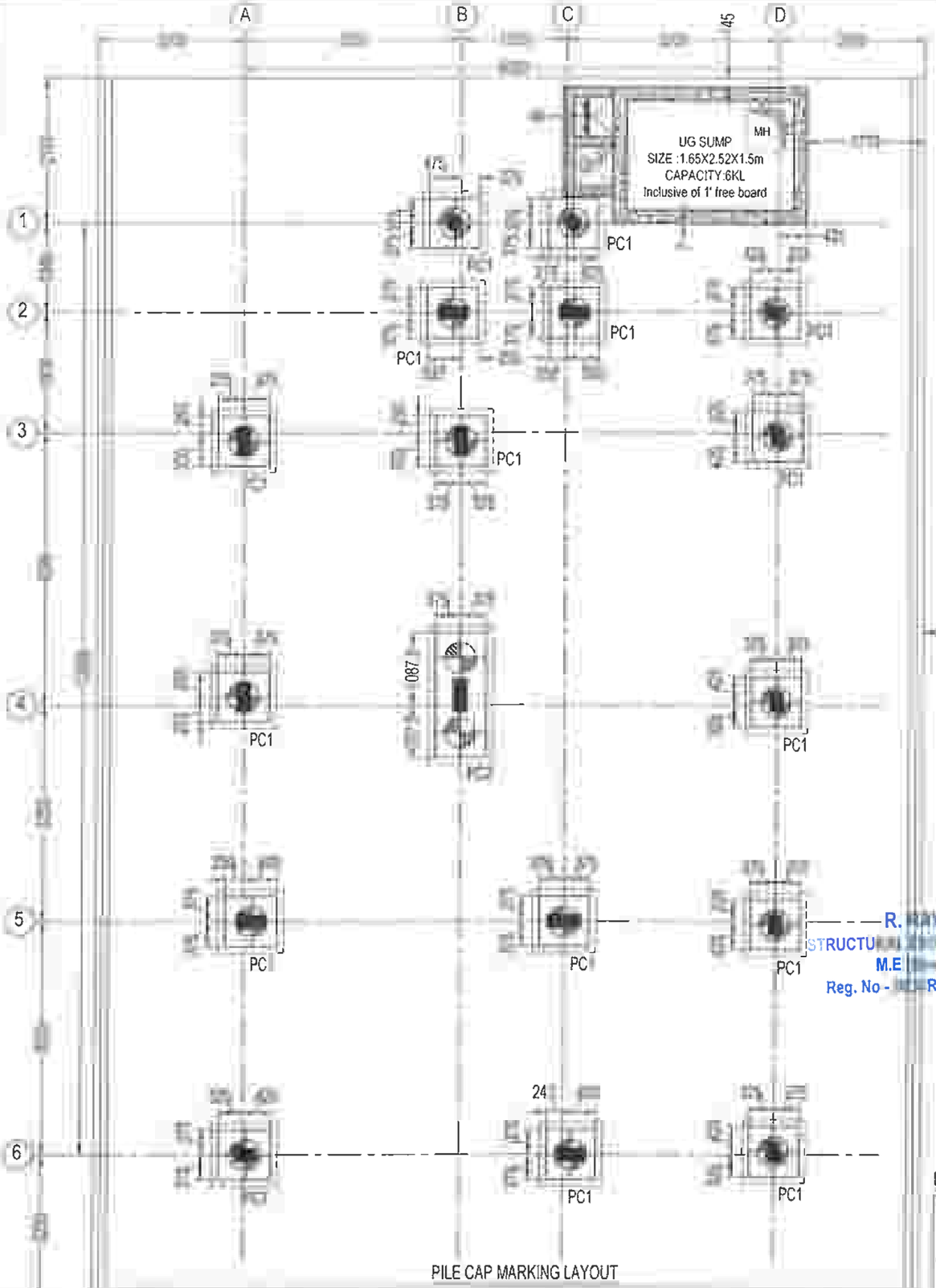
ARCHITECT
ADITYARAM GROUP

STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

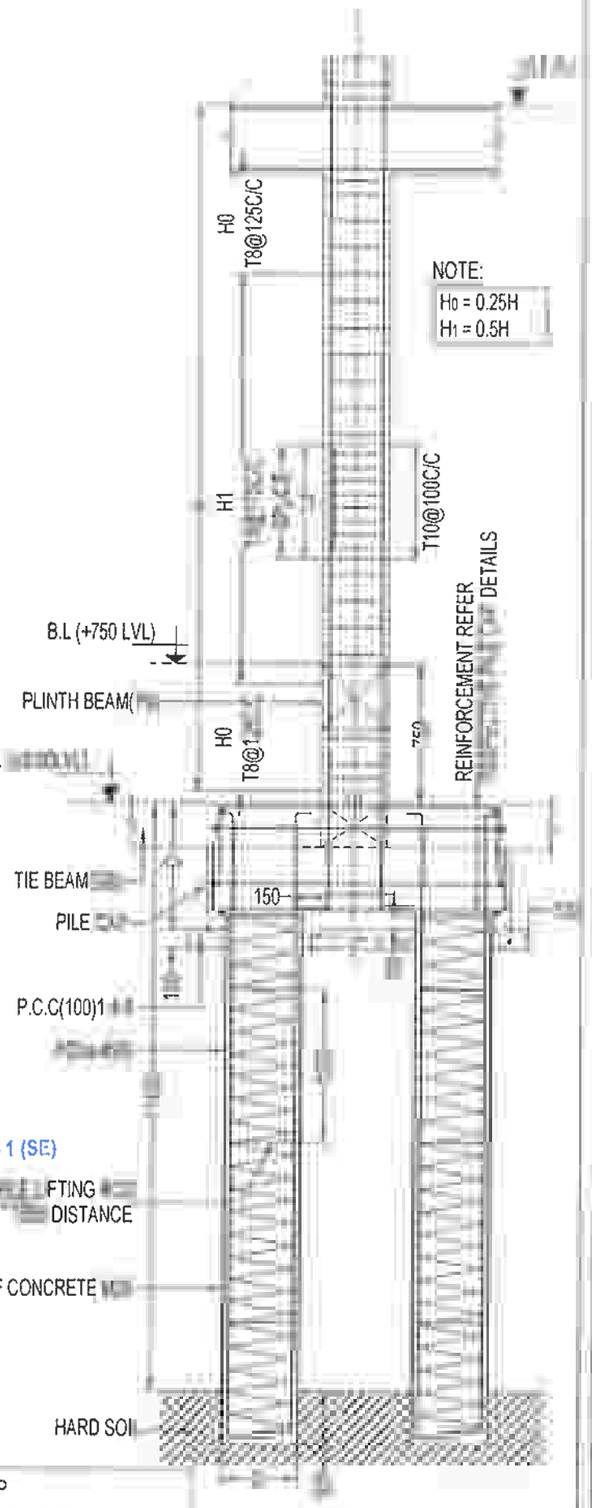
DRAWING NAME
PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	02



BOUNDARY LINE

R. KUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E Engg)
Reg. No - R-1/19/12/231 (C



NOTE:
$H_0 = 0.25H$
$H_1 = 0.5H$

LEGENDS

PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

TYPICAL COLUMN & PILE CONFINING DETAILS

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PROJECT

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@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

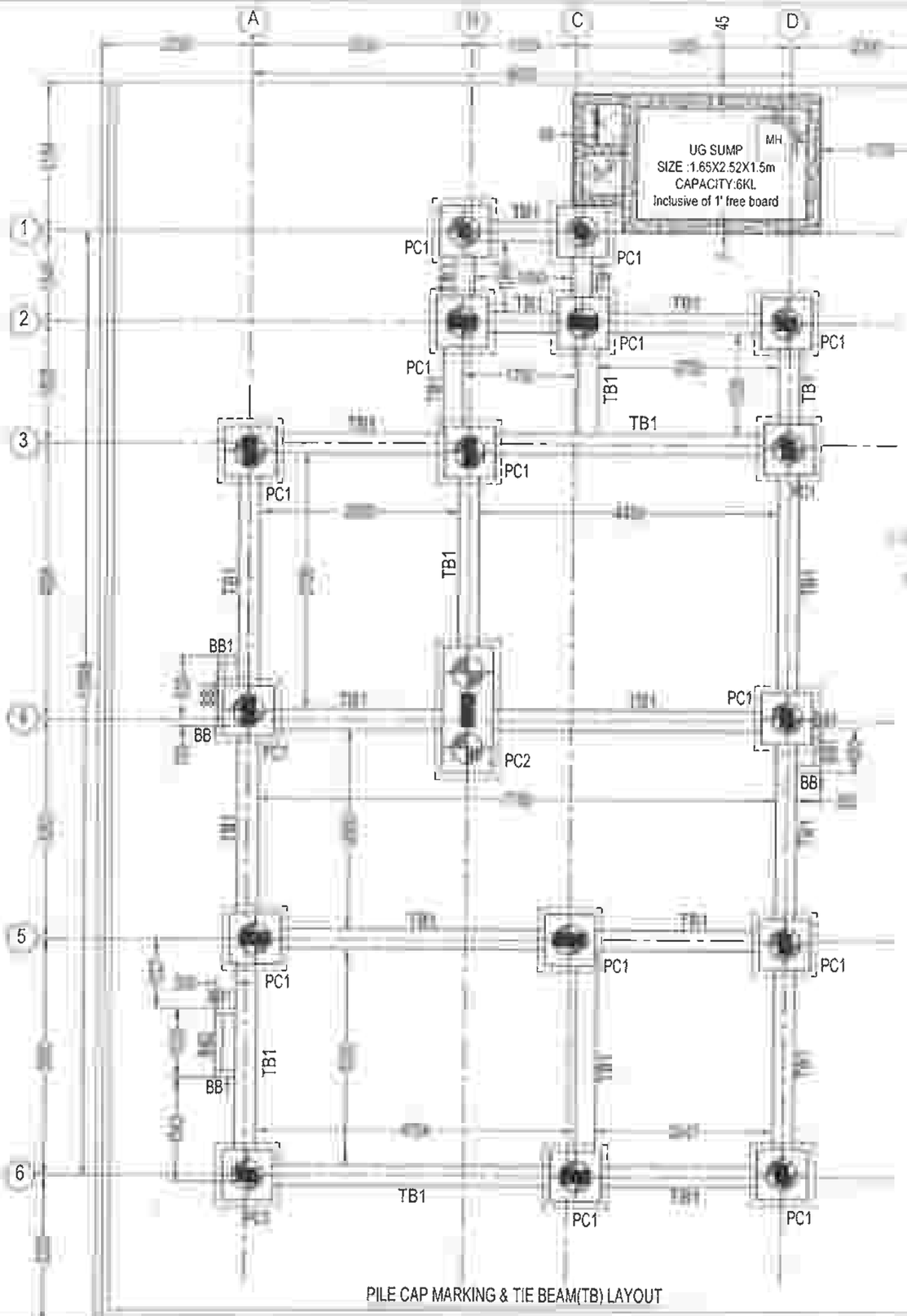
STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R2		ST-2023-18-01	03



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JOINTS FOR [illegible] BARS

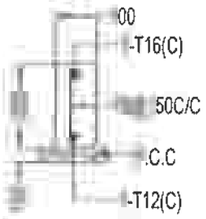
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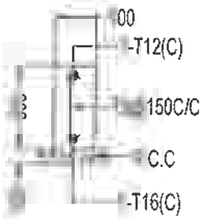
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[illegible]
ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

[illegible] LINE



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS

LEGENDS

P - PILE CAP
BB1 - BRACKET BEAM
TB - TIE BEAM

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 30)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
A BLOCK,PLOT NO 22 , MANIMEGALAI NAGAR, 3RD STREET,S KOLATHUR, CHENNAI-600 12?
TCRA 22,VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, COCHIN 682 301
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

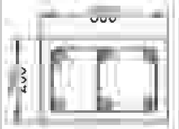
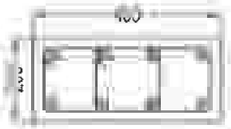
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

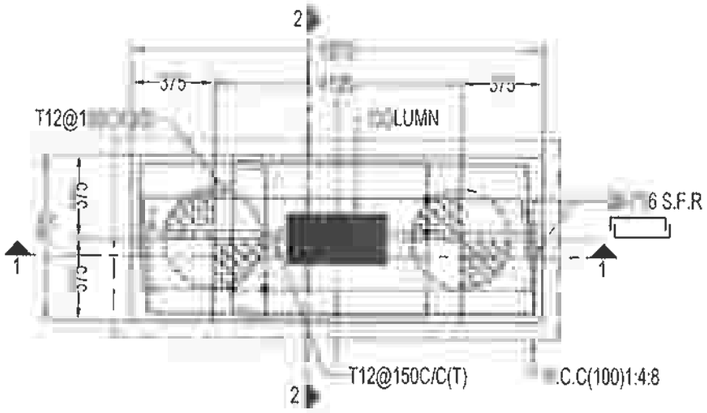
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) LAYOUT

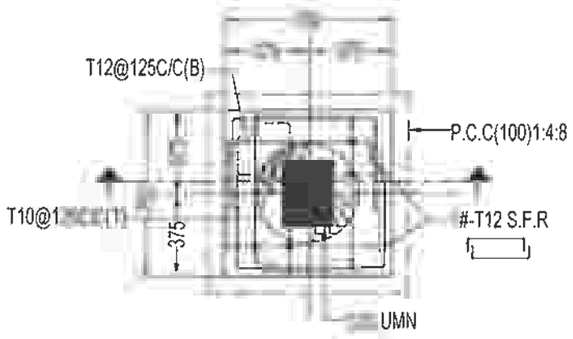
REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	04

COLUMN REINFORCEMENT SCHEDULE:

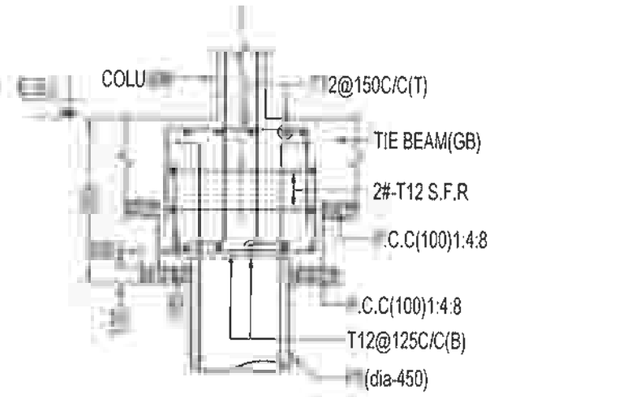
TERRACE FLOOR ROOF LEVEL TO FOOTING MIX-M30 ⊕ - T12 ⊙ - T16				
	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
				
	3-T16 + 3-T12	6-T12	4-T16 + 4-T12	4-T16 + 6-T12
COLUMN MARKED	C1	C2	C3	C4



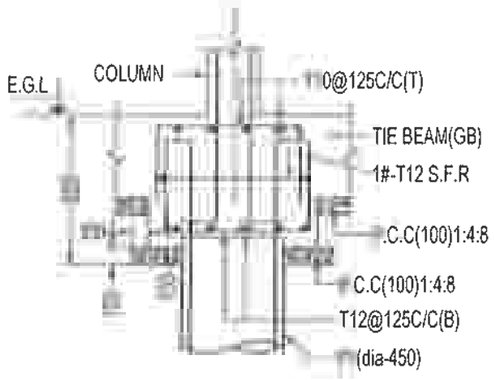
PC2 - PLAN



PC1 - PLAN

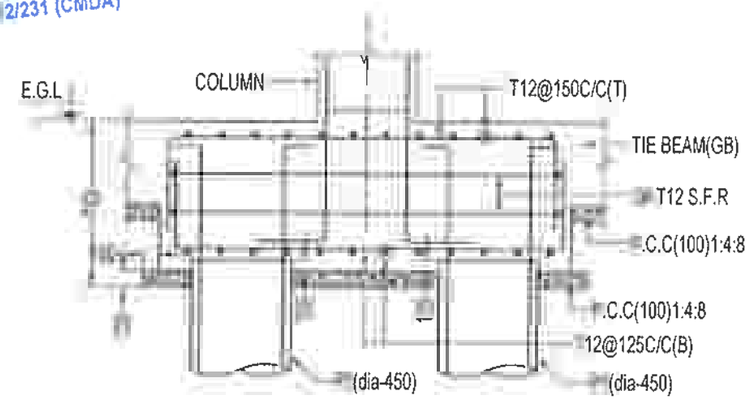


SECTION - 2 - 2



SECTION - 1 - 1

R. RAVIKUMAR
STRUCTURAL [illegible]NEER GRADE - 1 (SE)
M.E [illegible]Engg)
Reg. No - SE/GR-[illegible]2/231 (CMDA)



SECTION - 1 - 1

LEGENDS

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

** S.F.R - SIDE FACE REINFORCEMENT

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PROJECT

ADITYARAM PALACE CITY,(VILLA 30)
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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
A BLOCK, PLOT NO 22, MANIMEGALAI NAGAR, 3RD STREET, S KOLATHUR, CHENNAI-600 117
TUP& 22, VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, [illegible]
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
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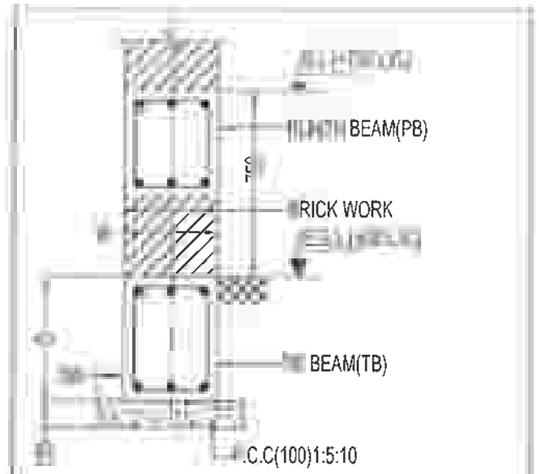
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

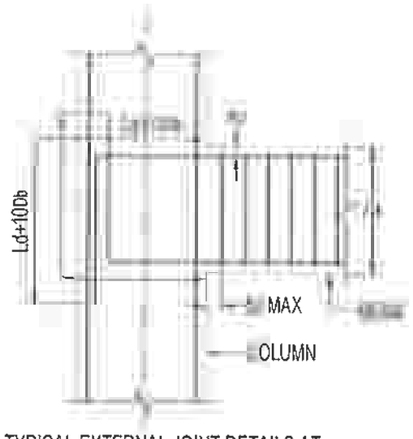
REV	DATE	PROJECT NO	SHEET NO
R2	[illegible]	ST-2023-18-01	05

TIE BEAM (TB) REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 x 400) TB1	T16(C) 150C/C C.C 2-T16(C)	T16(C) 150C/C C.C T16(C)	T16(C) 150C/C C.C T16(C)



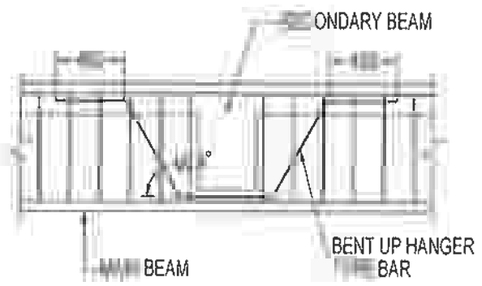
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION

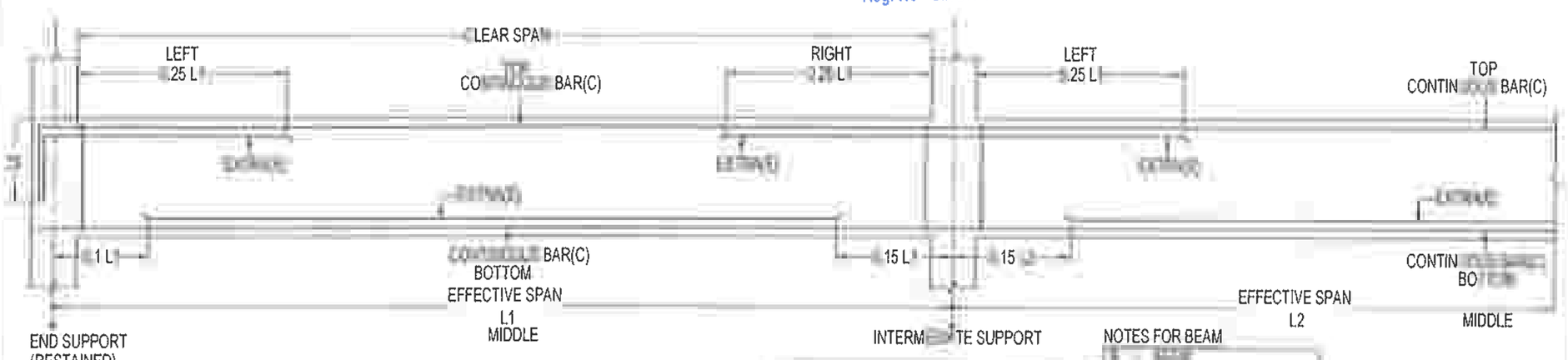
LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM

C - CONTINUOUS BAR
E - EXTRA BAR

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5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   ALL RCC MEMBERS IN M30 GRADE
7. "Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
   A COLUMNS = 40mm
   B. PILE = 40mm
   C PILE CAP = 50mm
   D TIE BEAM = 30mm
   E. FLOOR BEAM = 30mm
   F FLOOR SLAB = 20mm
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

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iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE.,
NO-50, EAST COAST ROAD, PANAIYUR,
ADITYARAM NAGAR, CHENNAI - 600 119.

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ADITYARAM PALACE CITY,(VILLA 30)
@ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

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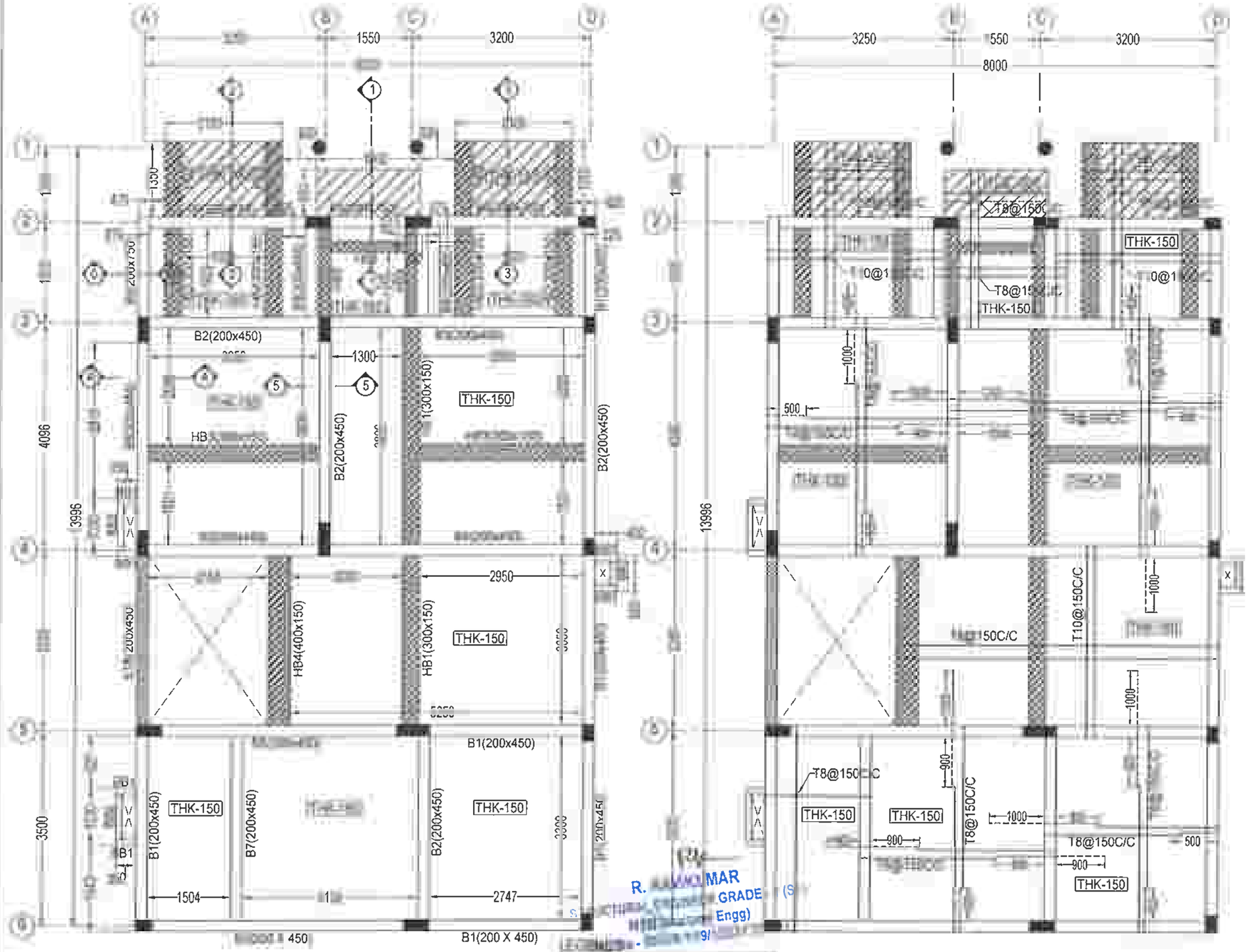
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TLRA 22,VYSHNAVIKA, SN JUNCTION, THARAPARAMBIL LANE, COCHIN 682 301
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM(TB) DETAILS

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	06



- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- 100mm SLAB SUNKEN

GROUND FLOOR ROOF BEAM LAYOUT

GROUND FLOOR ROOF SLAB DETAILS

LEGENDS:

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

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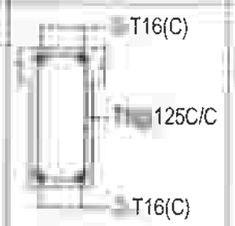
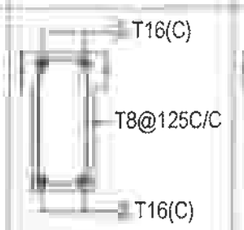
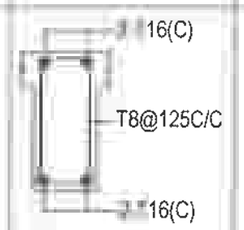
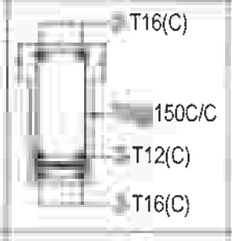
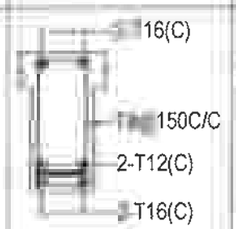
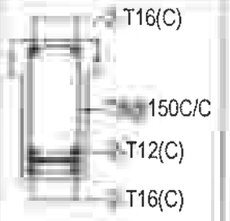
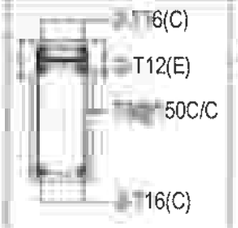
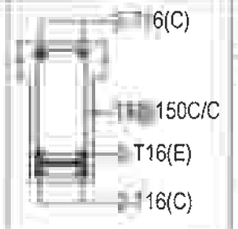
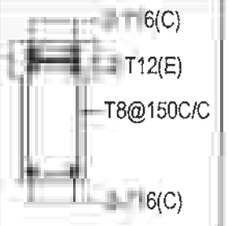
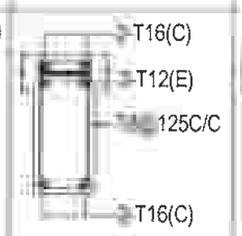
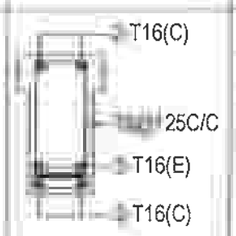
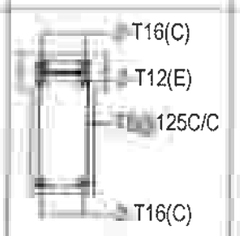
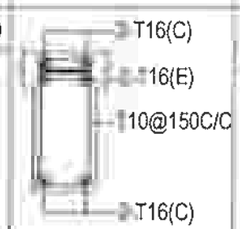
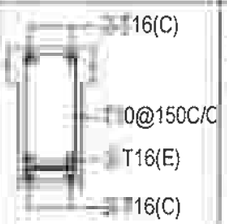
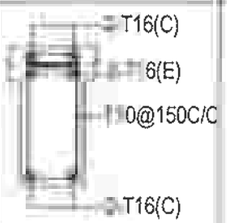
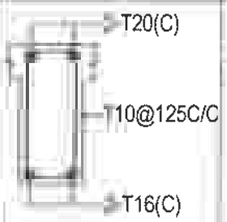
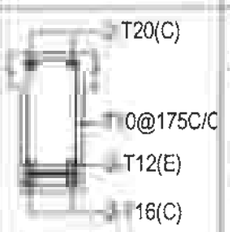
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CHENNAI-600 99 / COCHIN-682 301
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

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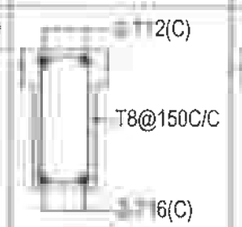
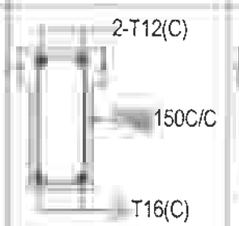
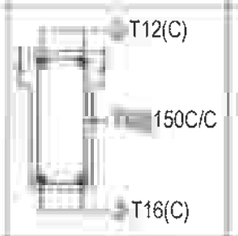
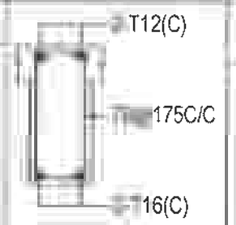
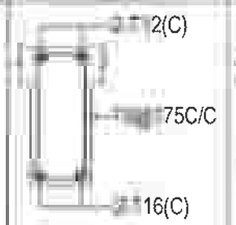
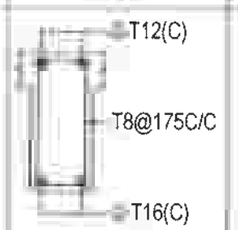
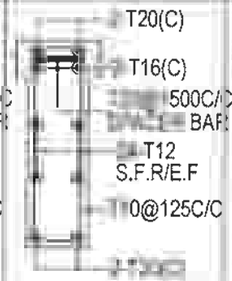
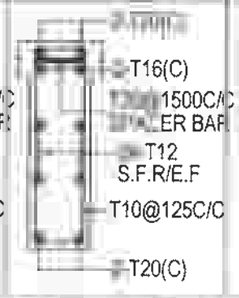
DRAWING NAME
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

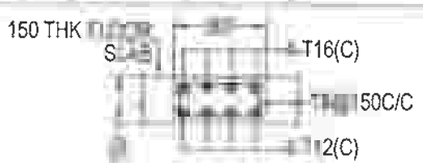
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 450) B8				
(200 X 750) B9				



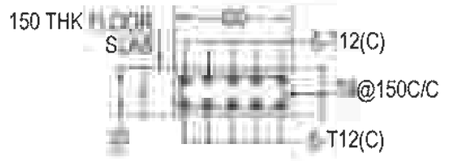
HB1 - 300 X 150
C/S DETAILS



HB2 - 300 X 150
C/S DETAILS



HB3 - 300 X 150
C/S DETAILS

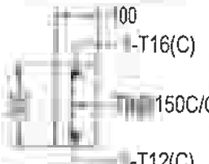


HB4 - 400 X 150
C/S DETAILS

R RAVIKUMAR
STRUCTURAL ENGINEER
M.E (Structural Engg)
Reg. No - R-1/19/12/231 (CMDA)

LEGENDS:

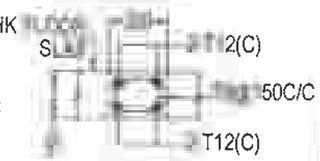
- C- CONTINUOUS BAR
- E- EXTRA BAR
- S.F.R- SECONDARY FACE REINFORCEMENT
- F.F - FOOT FACE



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



HB5 - 200 X 150
C/S DETAILS

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PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

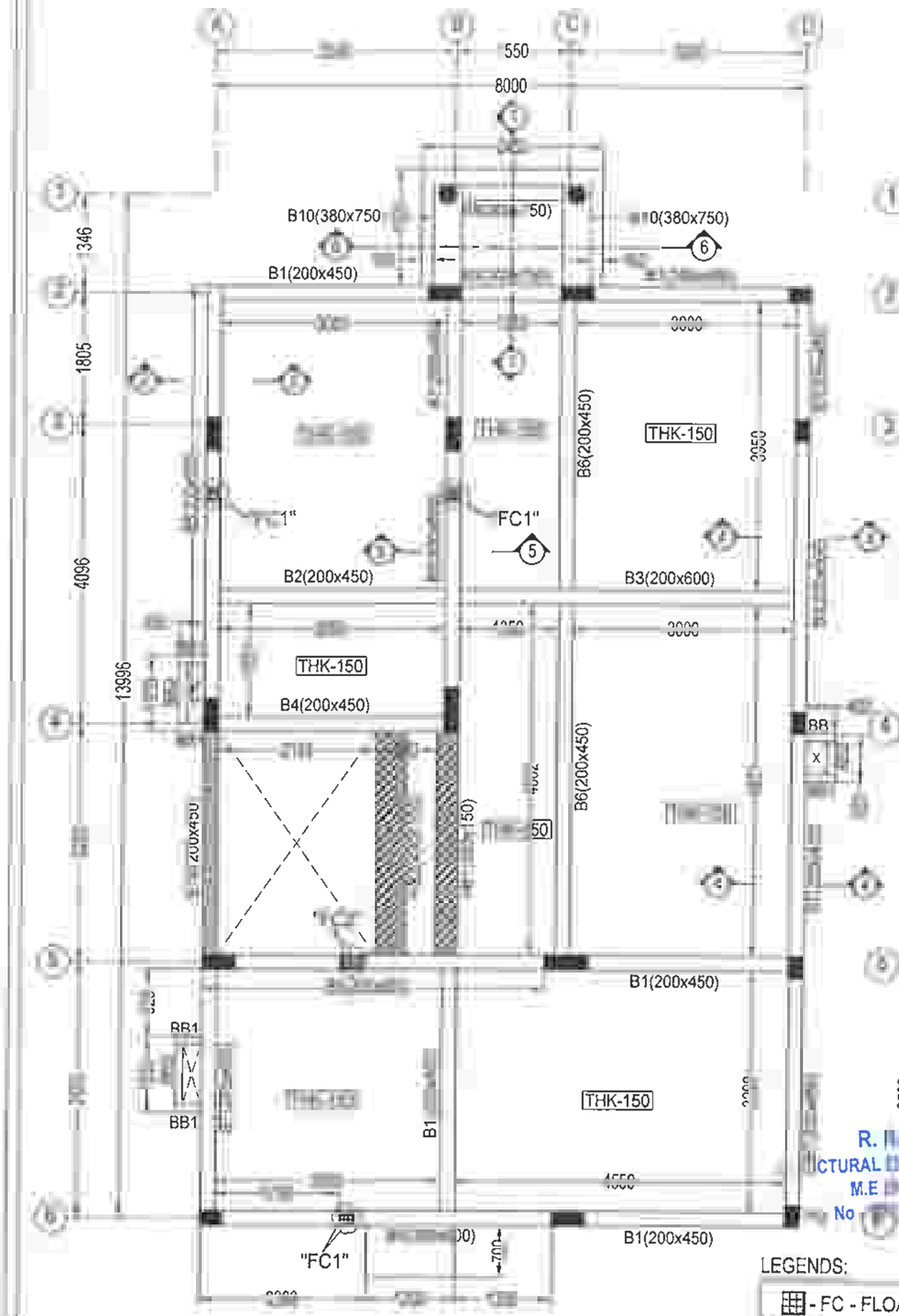
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

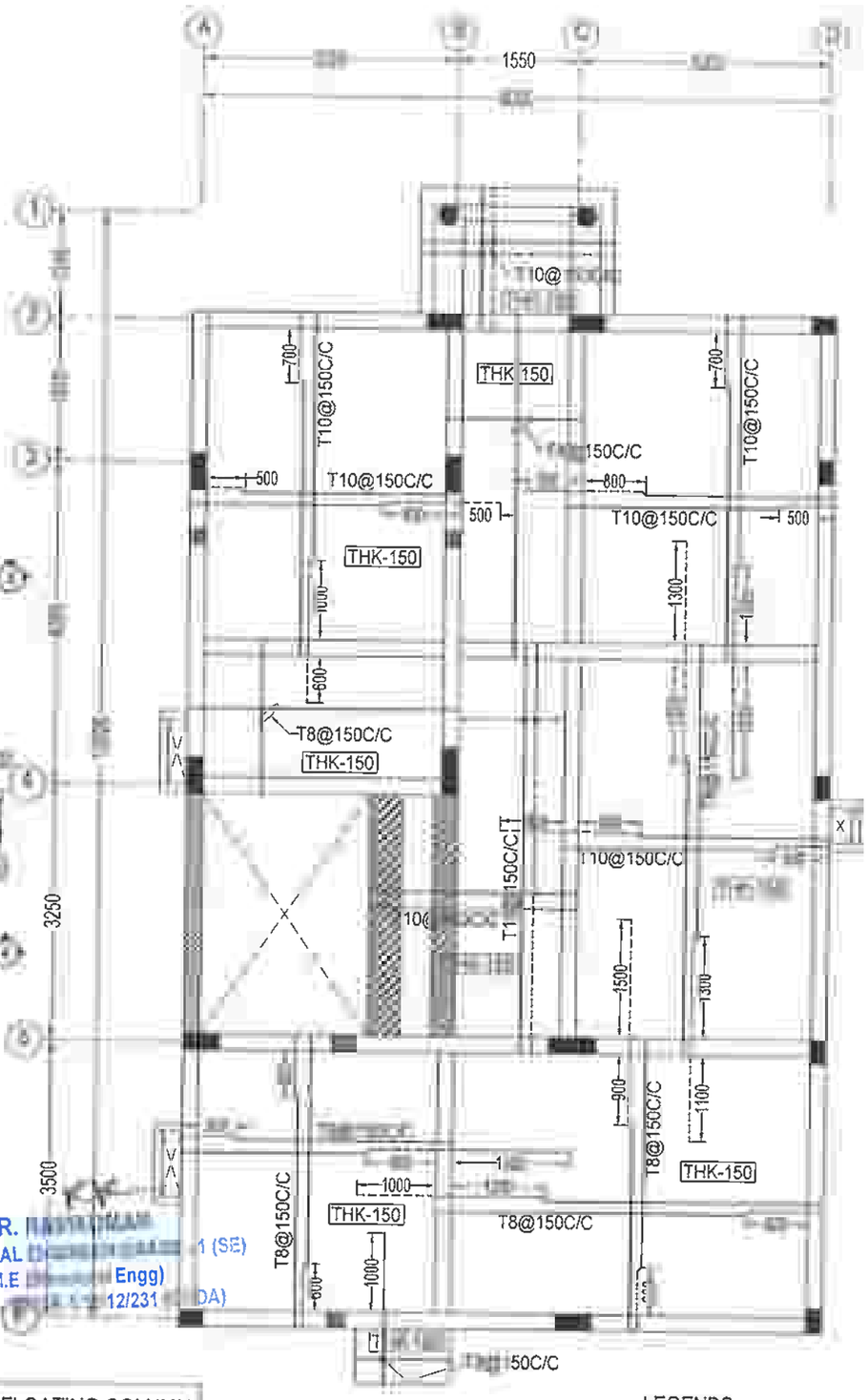
REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	08



TERRACE BEAM LAYOUT

LEGENDS:

- FC - FLOATING COLUMN
- HB - HIDDEN BEAM
- STB - STRINGER BEAM



TERRACE SLAB DETAILS

LEGENDS:

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

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ONLY WRITTEN DIMENSION TO BE FOLLOWED

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M30 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

- A. COLUMNS = 40mm
- B. PILE = 40mm
- C. PILE CAP = 50mm
- D. TIE BEAM = 30mm
- E. FLOOR BEAM = 30mm
- F. FLOOR SLAB = 20mm

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1.THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

1. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

EINFORCEMENT

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

M/S ADITYARAM HOUSING PRIVAE LIMITE., NO-50, EAST COAST ROAD, PANAIYUR, ADITYARAM NAGAR, CHENNAI - 600 119.

PROJECT

ADITYARAM PALACE CITY,(VILLA 30) @ ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
CONTACT : +91 9087725167
Web.: www.safestructuralconsultancy.com

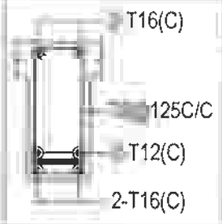
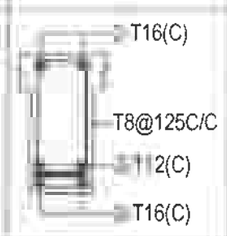
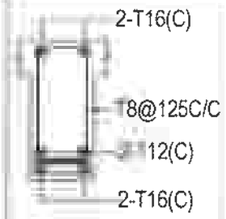
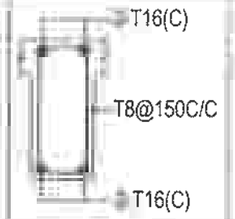
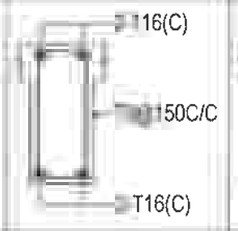
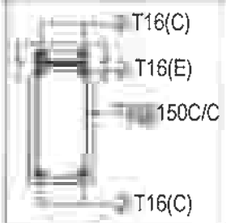
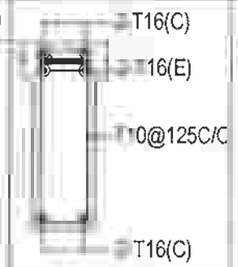
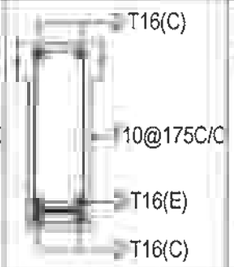
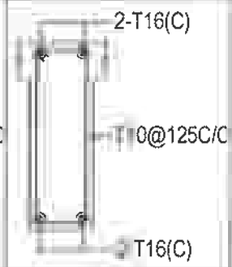
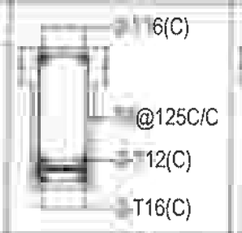
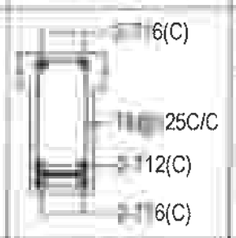
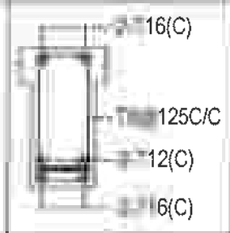
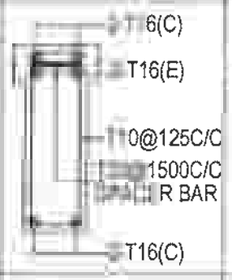
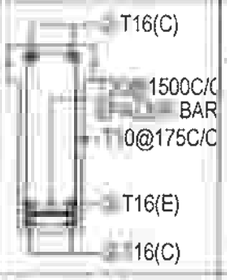
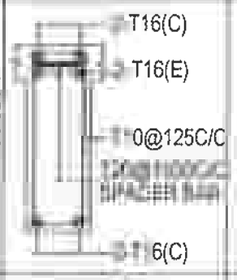
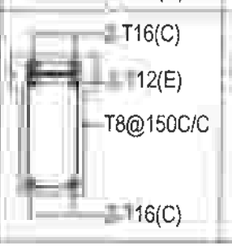
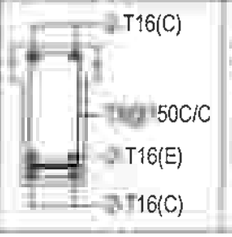
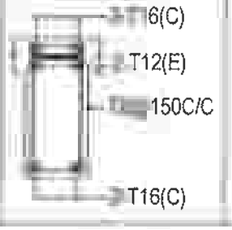
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

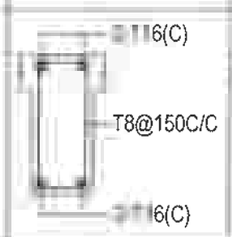
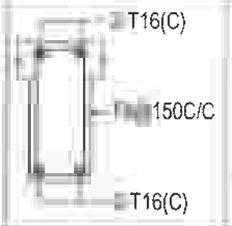
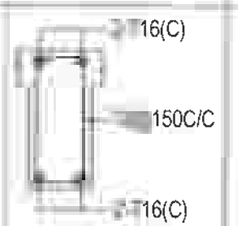
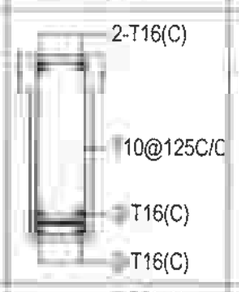
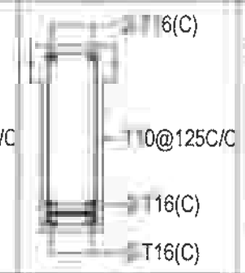
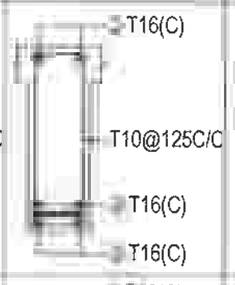
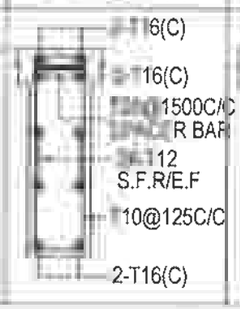
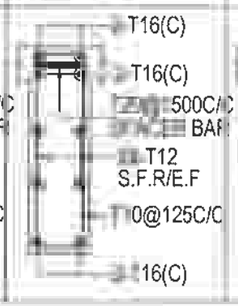
TERRACE BEAM & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R2		ST-2023-18-01	09

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				- - - - -
(200 X 450) B2				- - - - -
(200 X 600) B3				- - - - -
(200 X 450) B4				- - - - -
(200 X 600) B5				- - - - -
(200 X 450) B6				- - - - -

TERRACE BEAM REINFORCEMENT SCHEDULE

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(200 X 450) B7				- - - - -
(200 X 600) B8				- - - - -
(200 X 750) B9				- - - - -

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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CONTACT : +91 9087725267
safestructuralchennai@gmail.com
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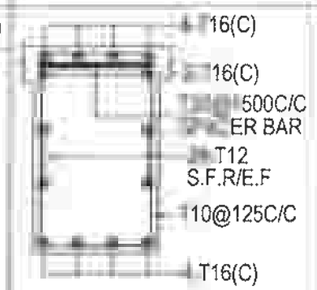
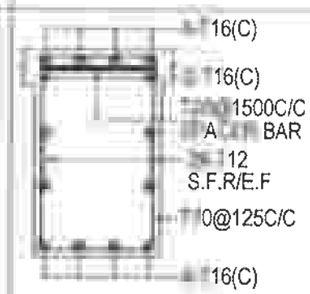
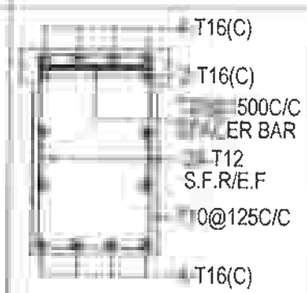
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DETAILED	MV	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET NO
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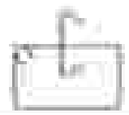
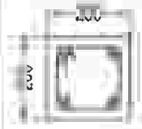
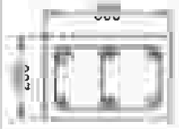
TERRACE BEAM REINFORCEMENT SCHEDULE

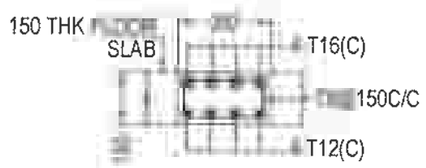
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 750) B10			

LEGENDS:

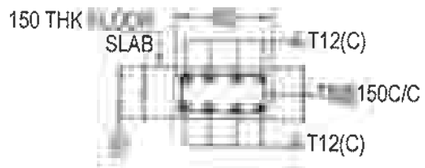
C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

COLUMN REINFORCEMENT SCHEDULE:

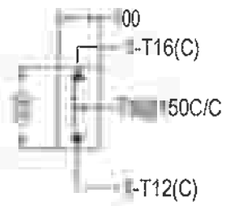
	
H0=T8@125C/C	H0=T8@125C/C
H1=T8@175C/C	H1=T8@175C/C
	
4-T12	4-T16 + 2-T12
FC1	FC2



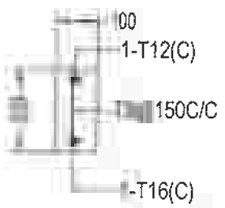
HB1 - 300 X 150
C/S DETAILS



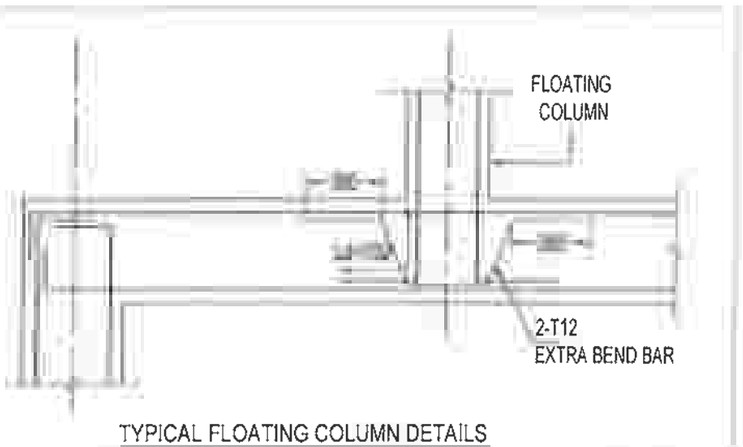
HB2 - 400 X 150
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



TYPICAL FLOATING COLUMN DETAILS

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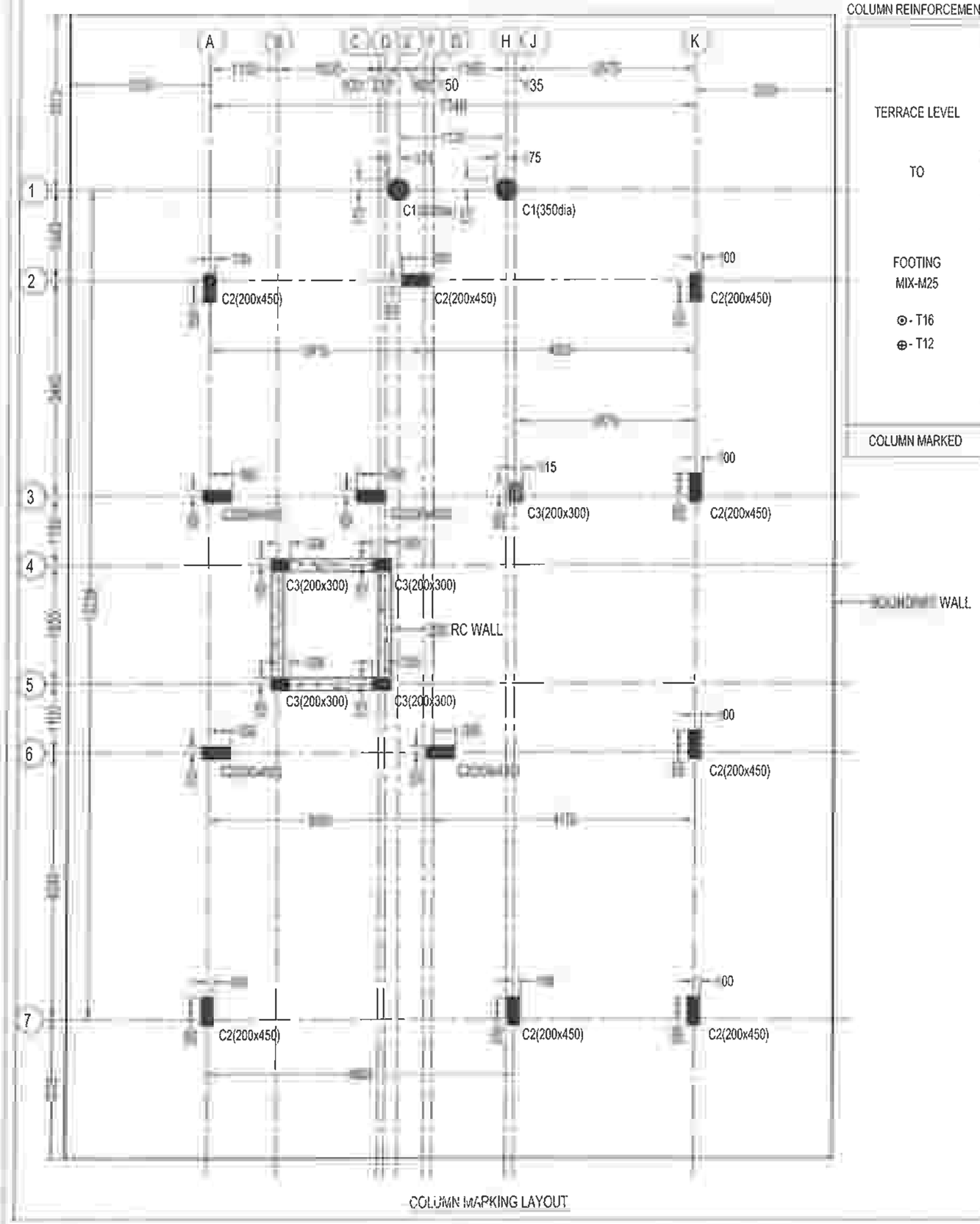
SAFE STRUCTURAL CONSULTANCY
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P,
CONTACT : +91 9087725267
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT	SHEET.NO
R2		ST-2023-18-01	11



COLUMN MARKING LAYOUT

COLUMN REINFORCEMENT SCHEDULE:

TERRACE LEVEL			
TO	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
FOOTING MIX-M25 ⊙- T16 ⊕- T12			
	3-T16 + 3-T12	8-T16	4-T16 + 2-T12
COLUMN MARKED	C1	C2	C3

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:
- C - COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 31-36 & 53-55)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

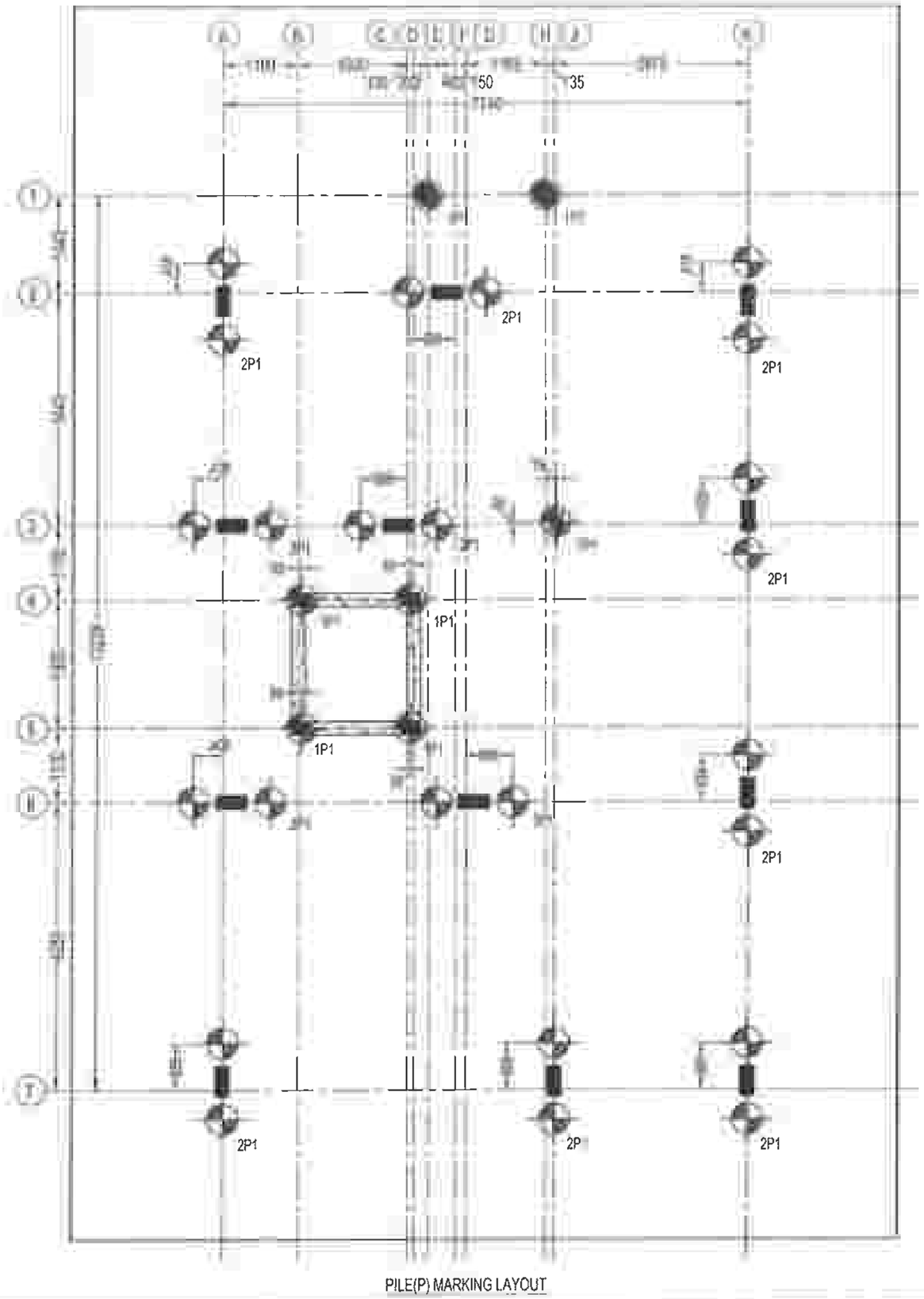
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] NO 2/1466, 200 FEET ROAD,
EACHAN [illegible] NA NAGAR, KOVILAMBAKKAM,
CHENNA [illegible]
[illegible] .com
Safe
Structural Consultancy [illegible] rslconsultancy.com

DESIGNED	RK	RELEASED FOR	
DETAILED	SG	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

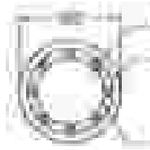
DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2026-06-15	01



PILE(P) MARKING LAYOUT



T16 + 4-T12

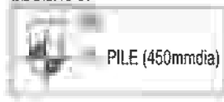
150C/C

PILE LIFTING ROD
BUNDLE BAR 2-T12@(1500 INTERVAL)

PILE (P1) - PLAN

R. [illegible]
STRUCTURAL [illegible] CODE - 1 (CH)
M.E [illegible]ural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:



PILE (450mmdia)

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PROJECT

ADITYARAM PALACE CITY,
(VILLA 31-36 & 53-55)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

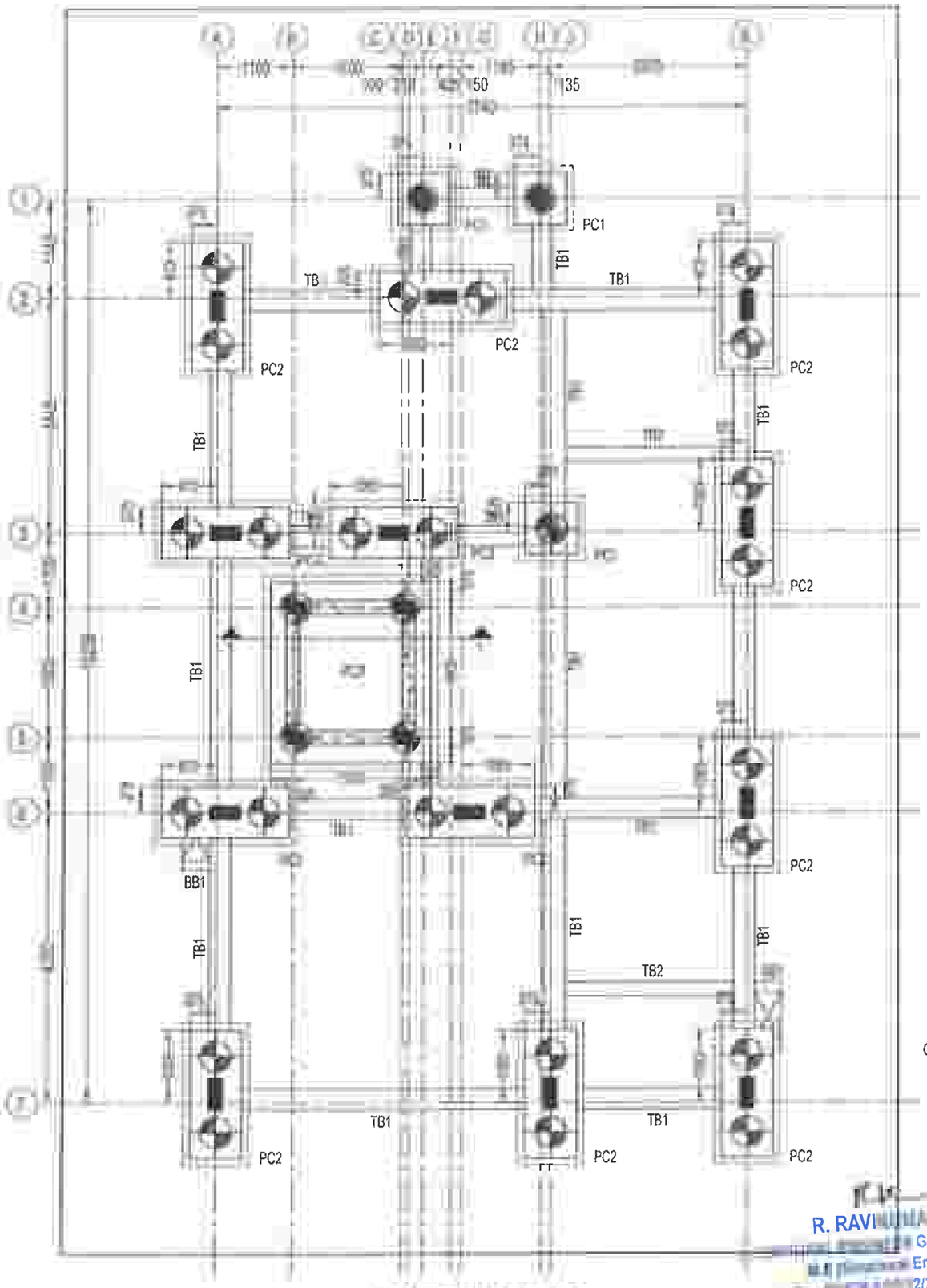
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/58, OLD NO 2/1468, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI 117
CONTACT +91 9087725267
safestructurechennai@gmail.com
Web. www

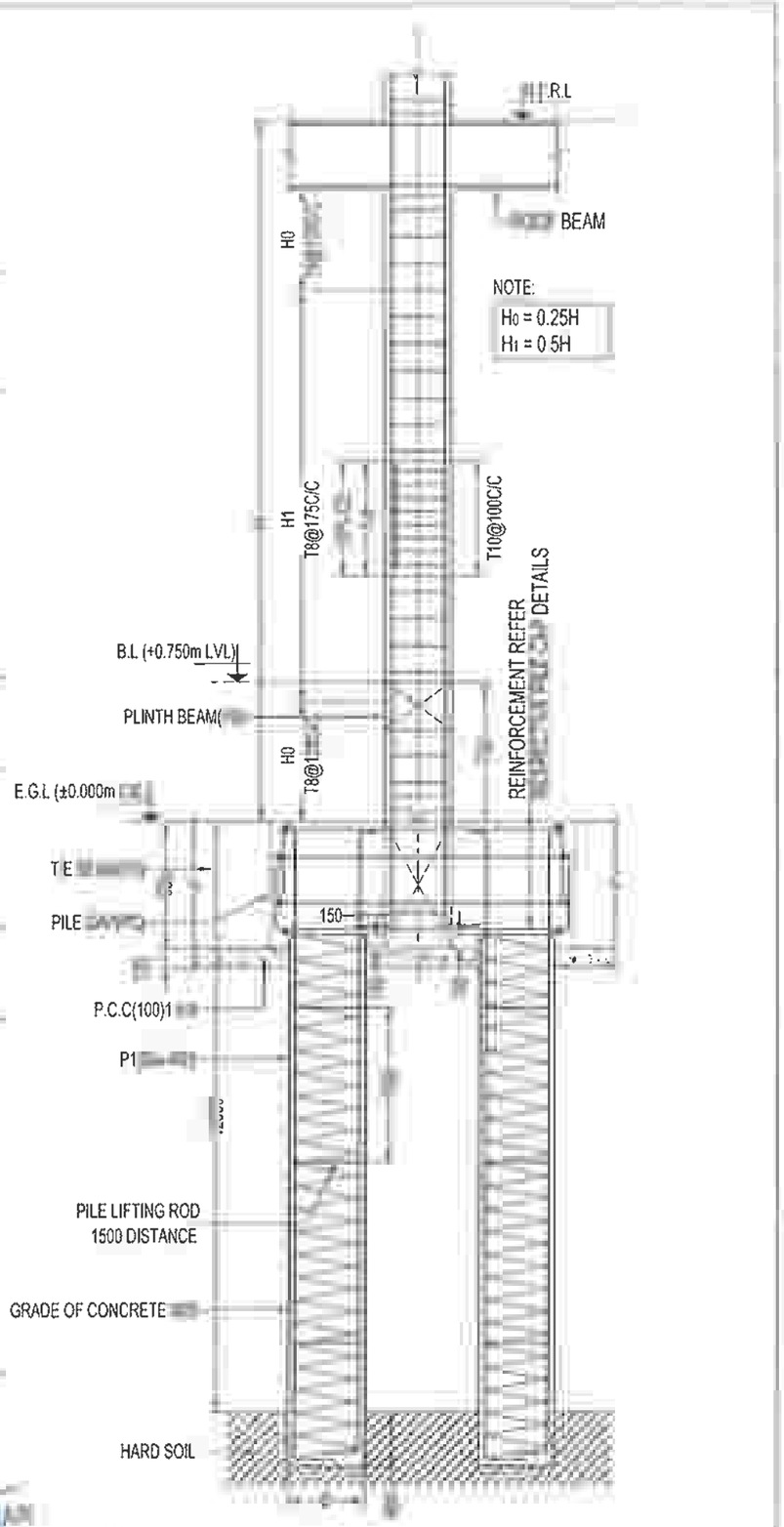
DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-15	02





TYPICAL COLUMN & PILE CONFINING DETAILS

LEGENDS:

PC - PILE CAP

R. RAVI
GRADE - 1 (SE)
Engg)
2/231 (CMDA)
Reg.

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SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] NO 2/1466, 200 FEET ROAD,
EACHAN[illegible]NA NAGAR, KOVILAMBAKKAM,
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Structural Consultancy
[illegible].com
ratconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

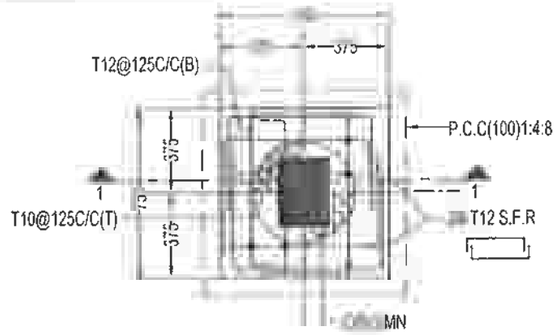
PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
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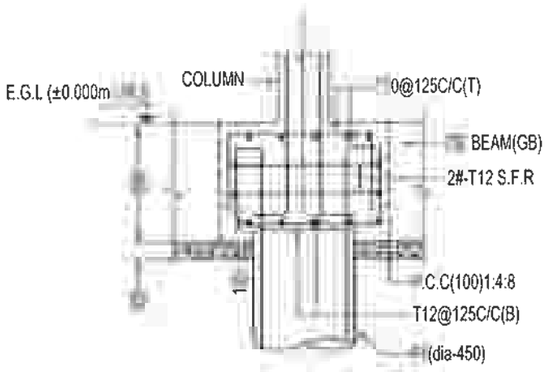
** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

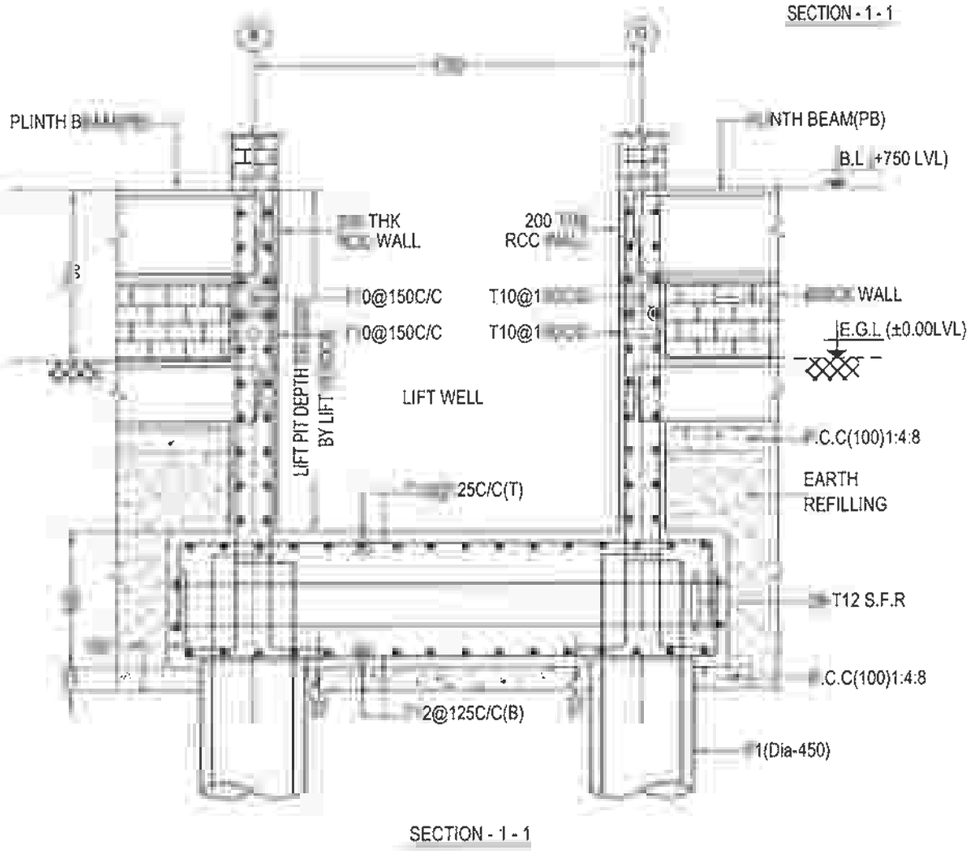
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



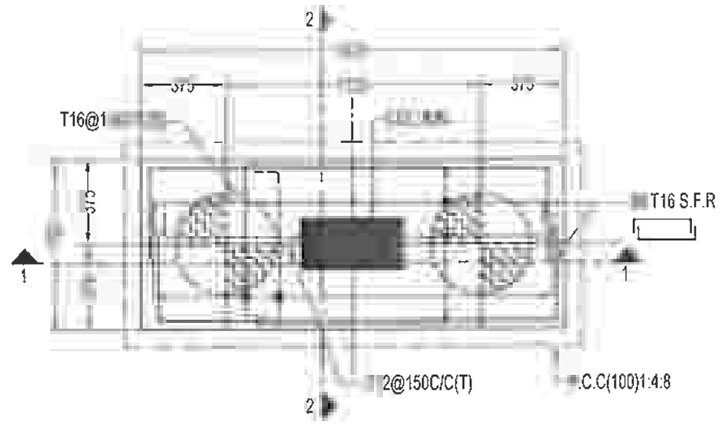
PC1 - PLAN



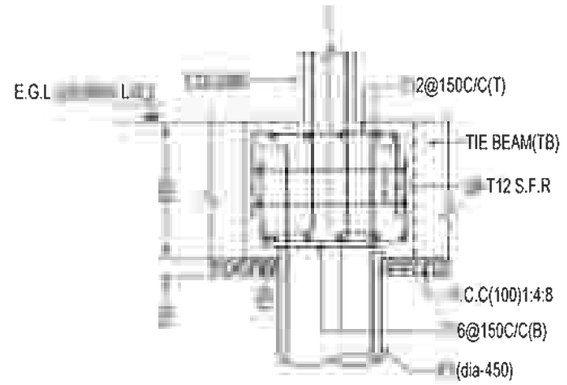
SECTION - 1 - 1



SECTION - 1 - 1

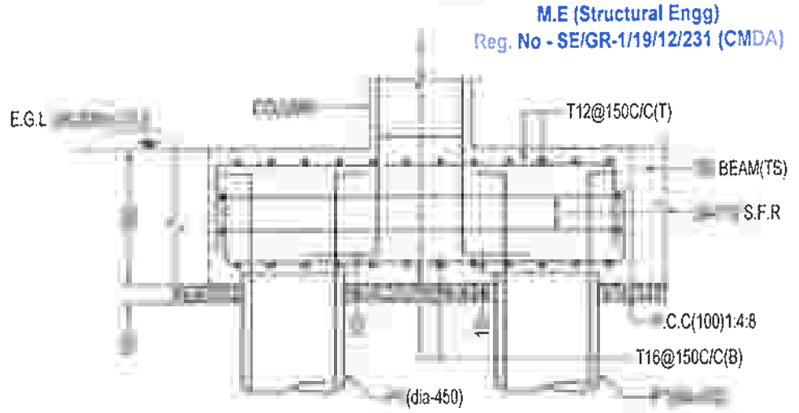


PC2 - PLAN



SECTION - 2 - 2

R. [illegible]
STRUCTURAL ENGINEER GRADE - 1 (SG)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



SECTION - 1 - 1

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

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PROJECT

ADITYARAM PALACE CITY,
(VILLA 31-36 & 53-55)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

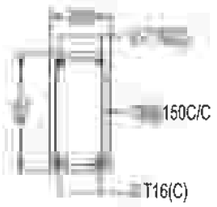
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

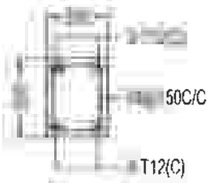
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-15	04

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

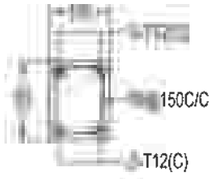
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	T16(C) 150C/C S.F.R/E.F C.C T16(C)	T16(C) 150C/C T12(C) S.F.R/E.F C.C T16(C)	T16(C) 150C/C T12(C) S.F.R/E.F C.C T16(C)
(200 X 750) TB2	T16(C) 50C/C T12(C) S.F.R/E.F C.C T16(C)	T16(C) 150C/C T12(C) S.F.R/E.F C.C T16(C)	T16(C) 50C/C T12(C) S.F.R/E.F C.C T16(C)
(150 X 300) BB1	150C/C C.C T12(C)	T12(C) 50C/C C.C T12(C)	T12(C) 50C/C C.C T12(C)



PB1 - 200 X 400
C/S DETAILS



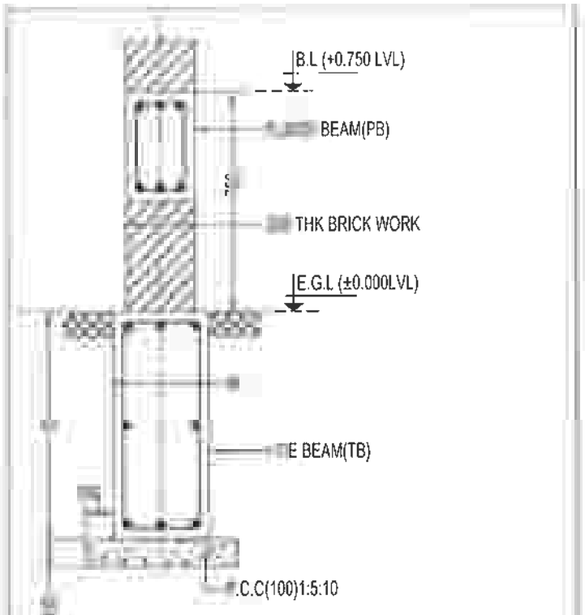
PB2 - 200 X 300
C/S DETAILS



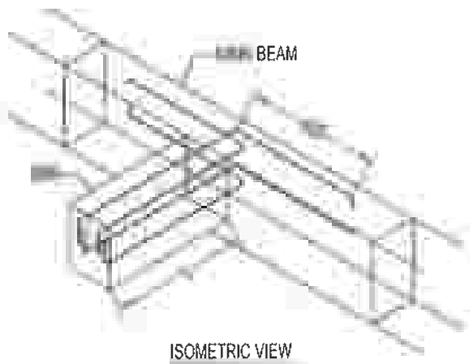
BB1 - 150 X 300
C/S DETAILS

LEGENDS:

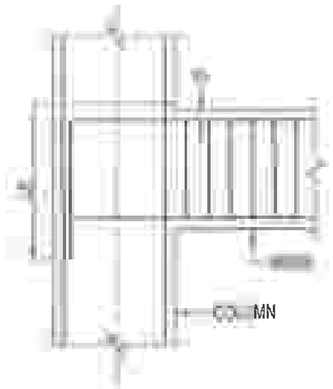
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



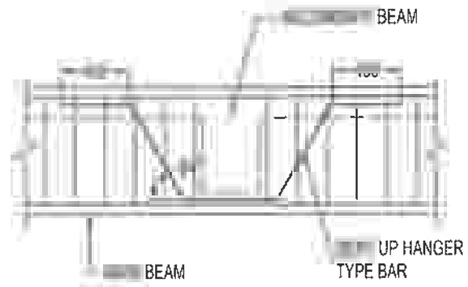
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



ISOMETRIC VIEW
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



TYPICAL ANCHORAGE OF BEAM
BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR



WHERE CROSS BEAM, SHEAR ROD SHOULD BE
PROVIDED AT 2-T16

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (3[illegible])
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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PROJECT

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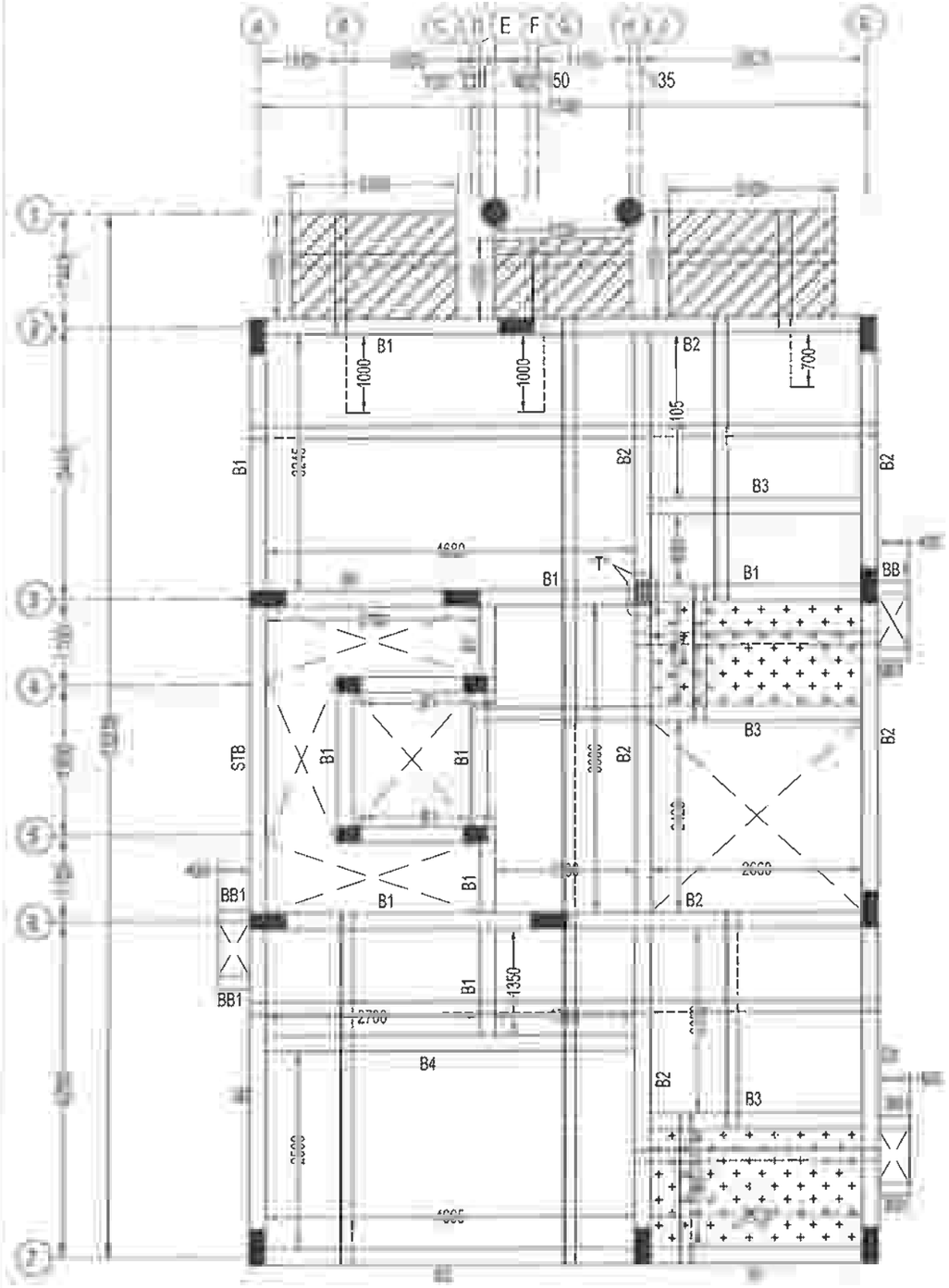
SAFE STRUCTURAL CONSULTANCY
D NO 2/1466, 200 FEET ROAD,
NNA NAGAR, KOVILAMBAKKAM,
7.
91 908 7
hsunei .com
.safes ralconsultancy.com

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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) REINFORCEMENT DETAILS

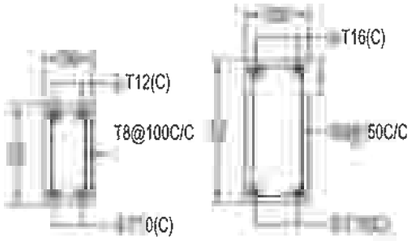
REV	DATE	PROJECT NO	SHEET NO
R0	19/05/	ST-2026-06-15	05



GROUND FLOOR ROOF BEAM LAYOUT

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	6(C) 50C/C 6(C)	T16(C) 150C/C T16(C)	6(C) 50C/C 6(C)
(200 X 450) B2	T16(C) T16(C) 0@125C/C T16(C) T20(C)	T16(C) T10@125C/C T20(C)	T16(C) 6(C) 0@125C/C T16(C) T20(C)
(200 X 450) B3	2(C) 50C/C	T12(C) 150C/C T16(C)	T16(C)
(200 X 450) B4	T16(C) 25C/C 6(C) 6(C)	T16(C) T16(C) T16(C)	T16(C) T16(C)



BB1-150 x 300 C/S DETAILS

STB - 200 X 450 C/S DETAILS

LEGENDS:

TOP ROD
BOTTOM ROD
THK - THICKNESS

LEGENDS:

BB - BRACKET BEAM
- OPENING
- STB - STRINGER BEAM
- BALCONY SLAB SUNKEN
- TOILET SLAB SUNKEN
T - COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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TECHNICAL NOTES

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5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25 GRADE
7. "Θ" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
   - A COLUMNS = 40
   - B PILE = 40
   - C. PILE CAP = 50
   - D TIE BEAM = 30
   - E PLINTH BEAM = 30
   - F ROOF BEAM = 30
   - G ROOF SLAB = 20
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 31-36 & 53-55)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

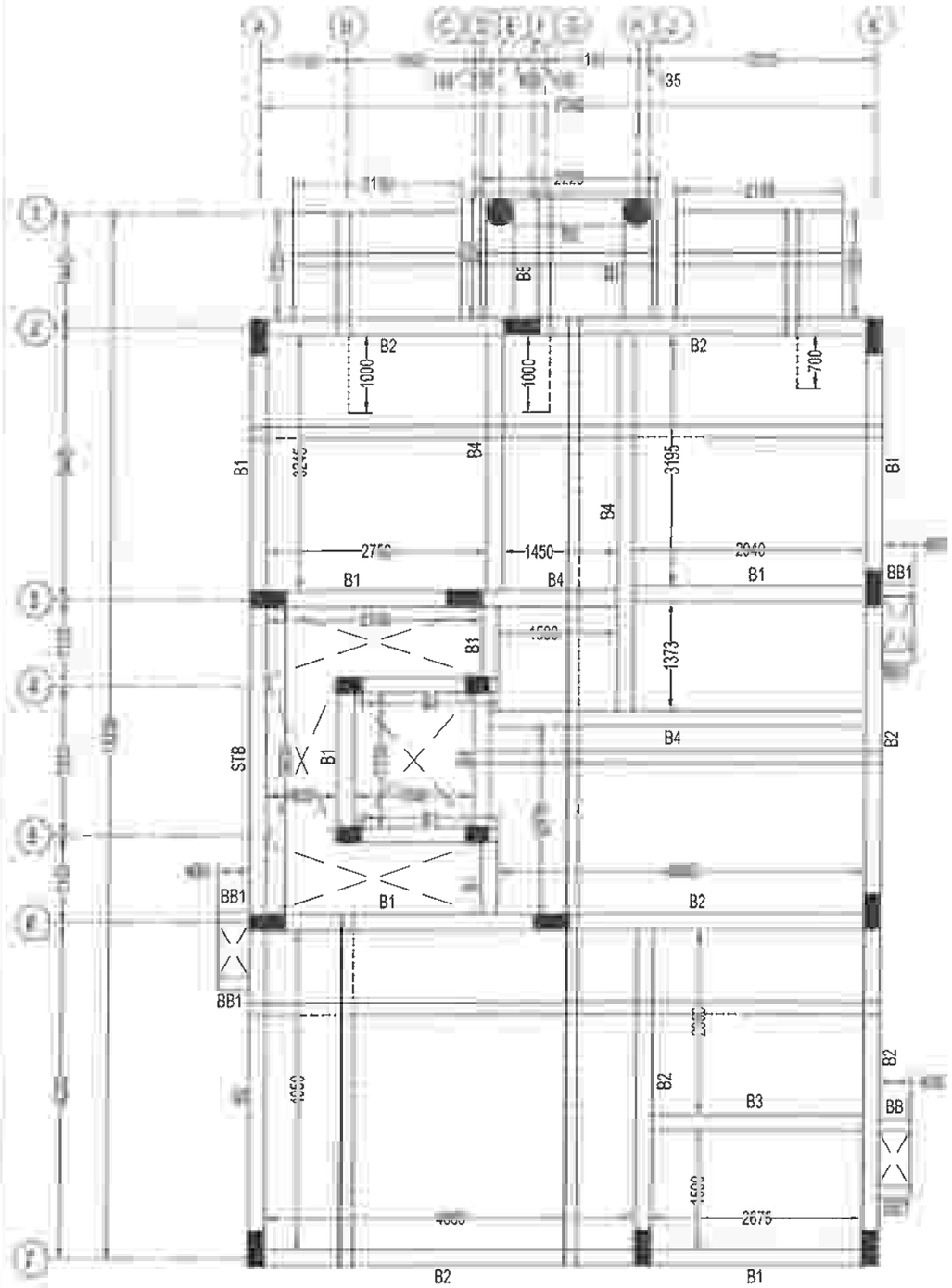
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT, DETAILS & ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-15	06

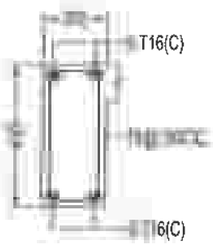


TERRACE BEAM LAYOUT

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) 150C/C T16(C)	6(C) 150C/C T16(C)	T16(C) T16(C)
(200 X 450) B2	T16(C) 0@125C/C	T16(C) 6(C) 0@125C/C 6(C)	T16(C) 25C/C T16(C) T20(C)
(200 X 450) B3	T12(C) 150C/C T16(C)	T12(C) T16(C)	50C/C
(200 X 450) B4	6(C) 25C/C	25C/C	T16(C) T16(C) T16(C)
(350 X 450) B5	T8@150C/C	T8@150C/C	6(C) T8@150C/C T16(C)





LEGENDS:
- BB - BRACKET BEAM
- - OPENING
- - STB - STRINGER BEAM

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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REINFORCEMENT BARS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 31-36 & 53-55)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

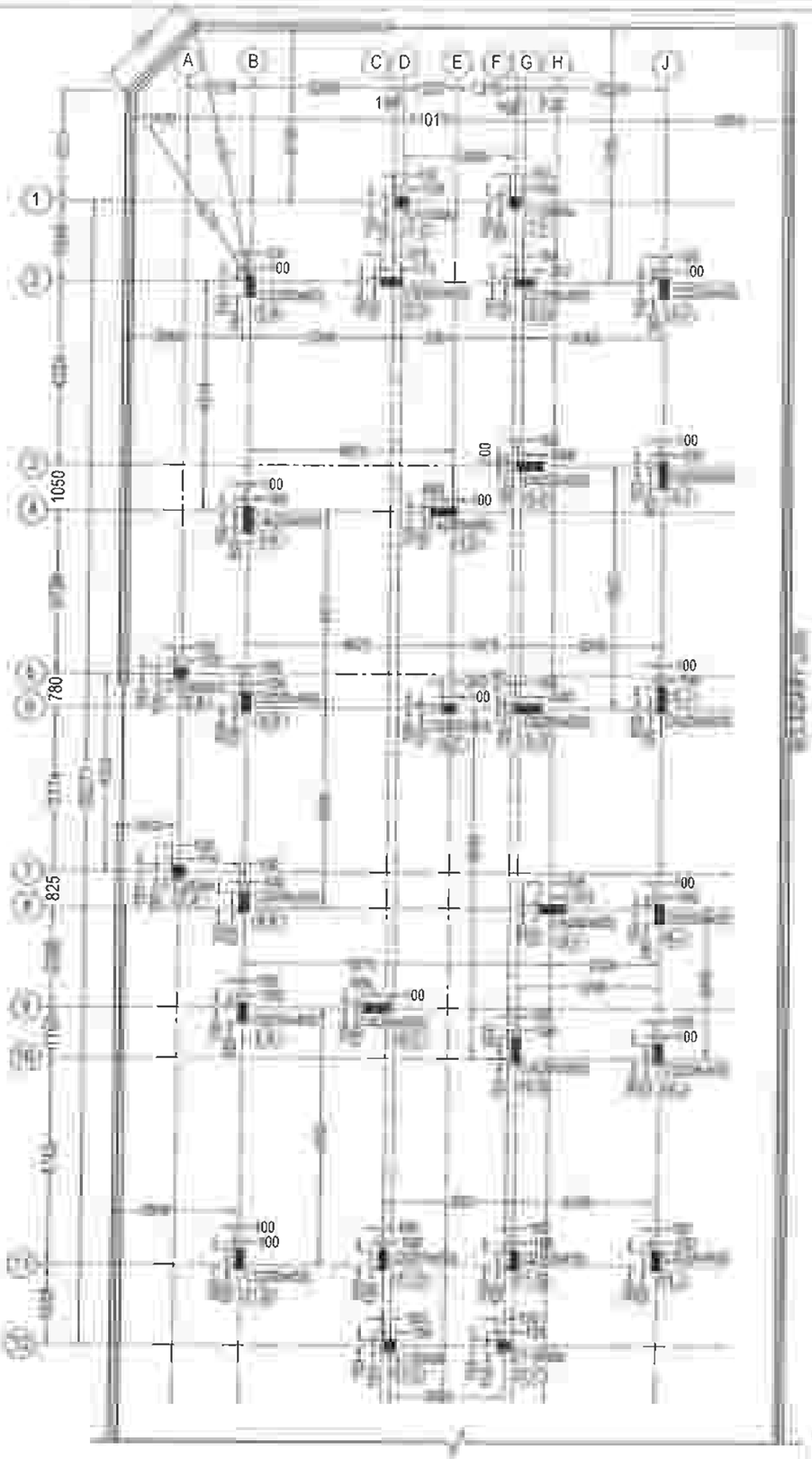
NEW NO 3/66, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.:

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

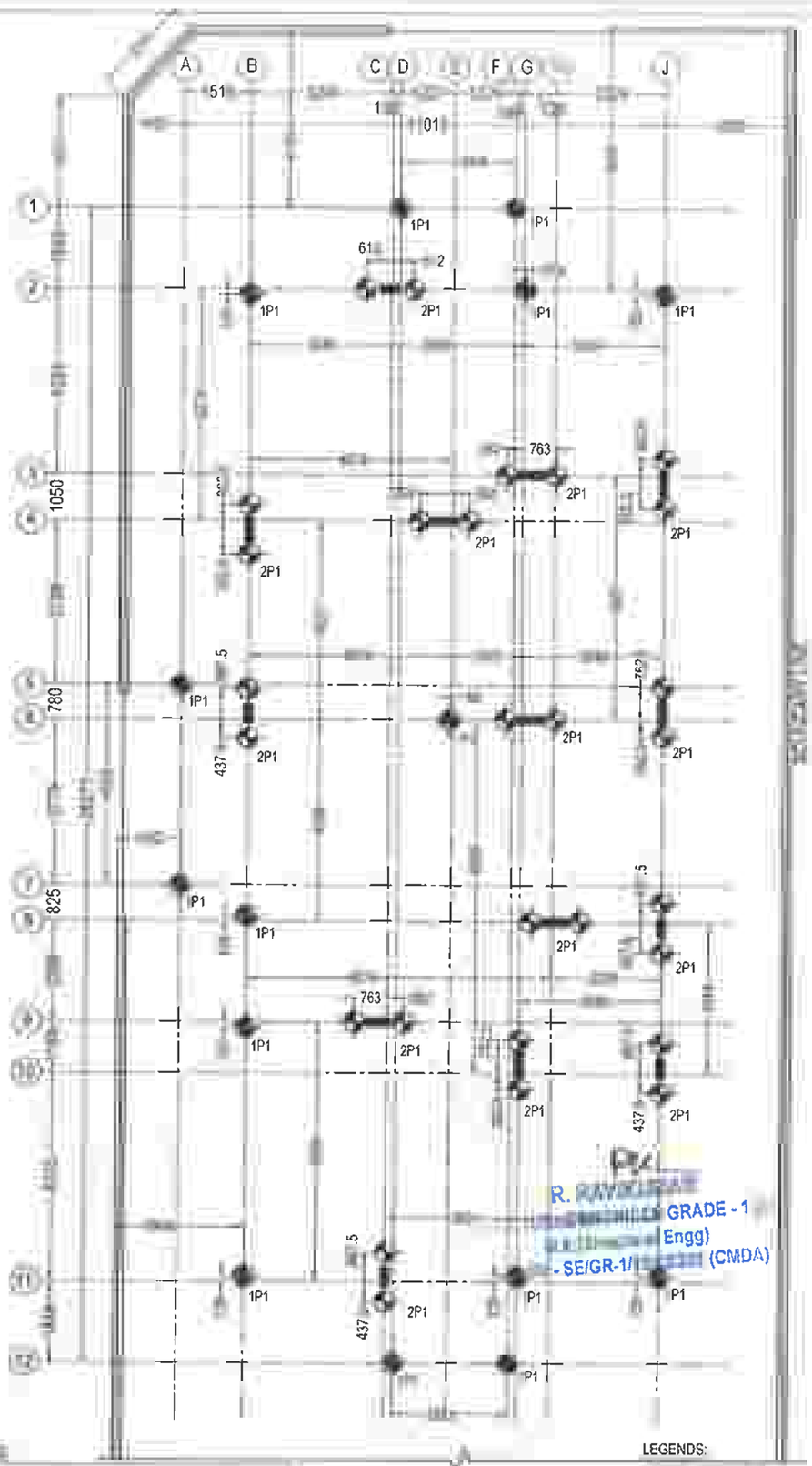
DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-15	07



COLUMN MARKING LAYOUT



PILE MARKING LAYOUT

C - COLUMN
COLUMN CUT @ GROUND FLOOR ROOF LEVEL

LEGENDS:
50 - PILE

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PROJECT

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ARCHITECT

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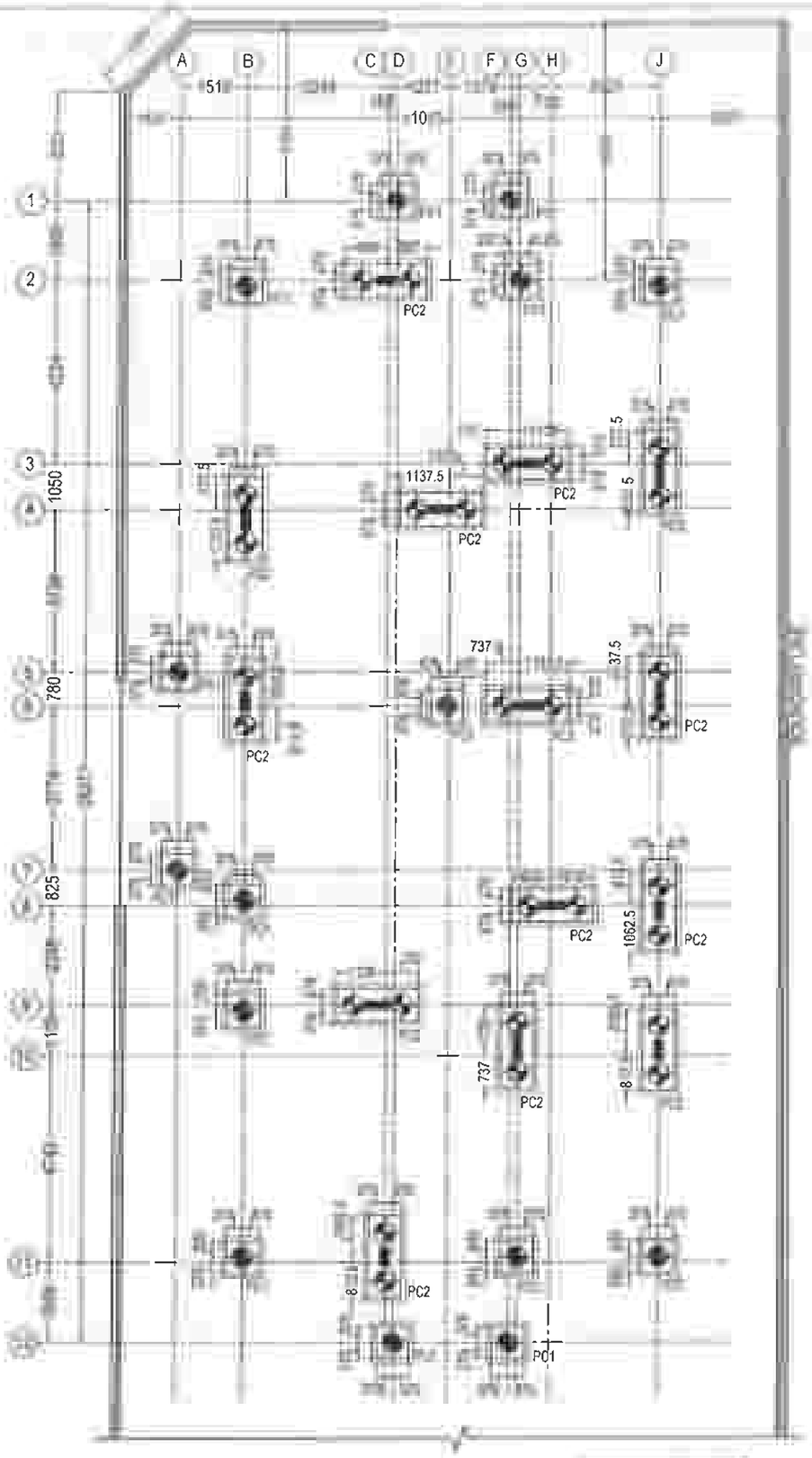
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN & PILE MARKING LAYOUT

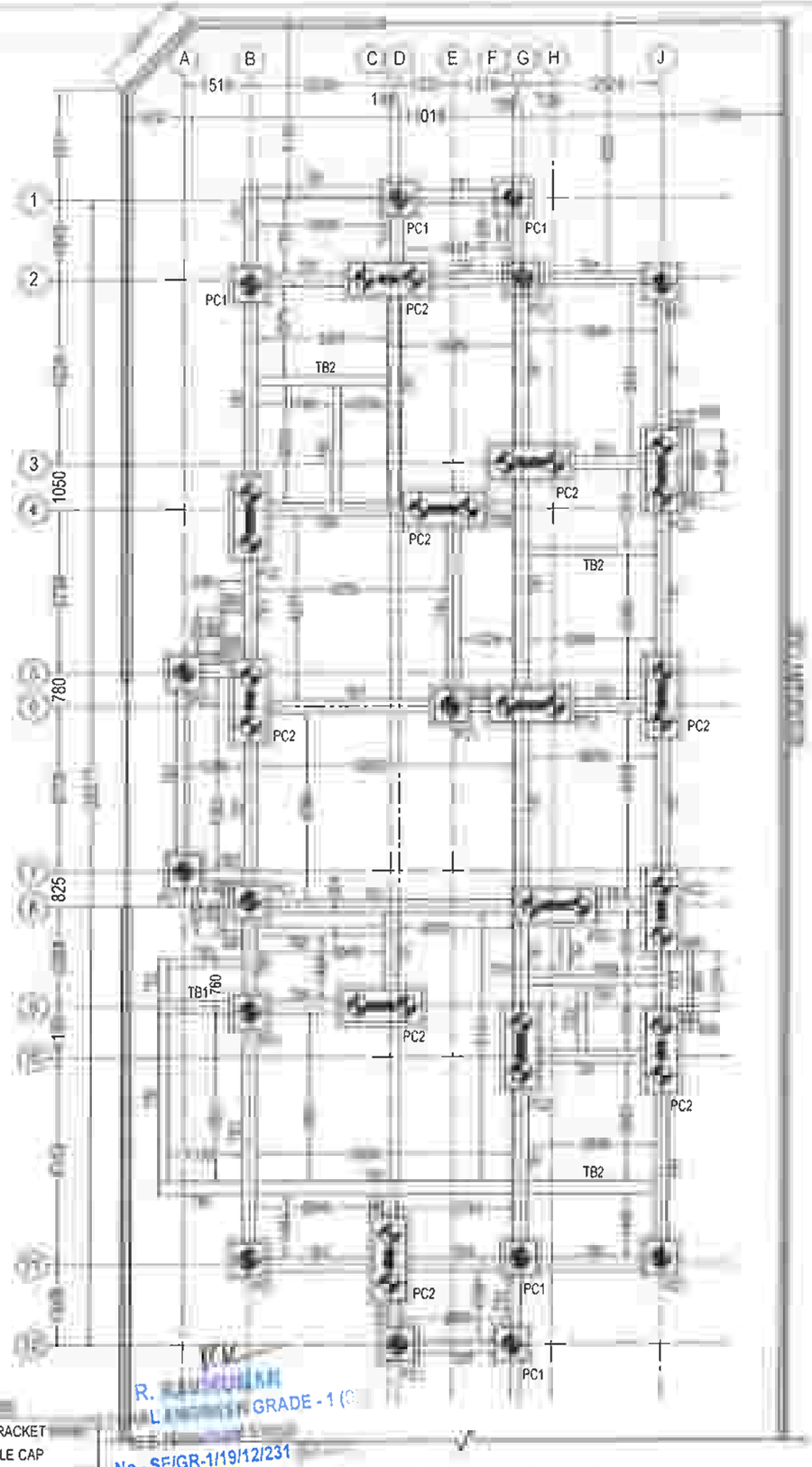
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-05	01



PILE CAP(PC) MARKING LAYOUT

NO.OF PILE CAP - 43 NOS

BB - BRACKET
PC - PILE CAP
TB - TIE BEAM



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

R. [illegible] GRADE - 1 (C[illegible]
No - SE/GR-1/19/12/231

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CLEAR COVER TO REINFORCEMENT

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PROJECT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

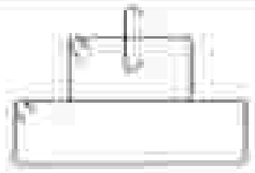
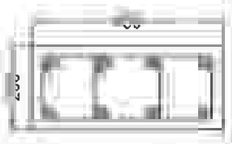
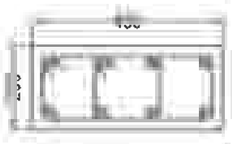
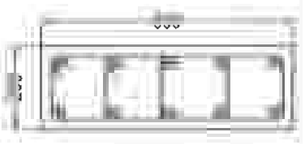
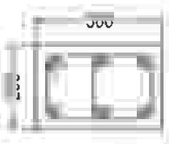
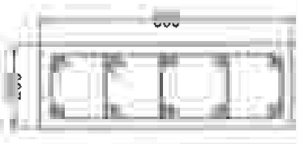
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SHEET	A3	☐ CONSTRUCTION

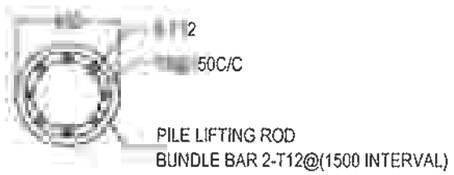
DRAWING NAME

PILE CAP MARKING & TIE BEAM LAYOUT

EV	DATE	PROJECT NO	SHEET.N
R0		ST-2025-09-05	02

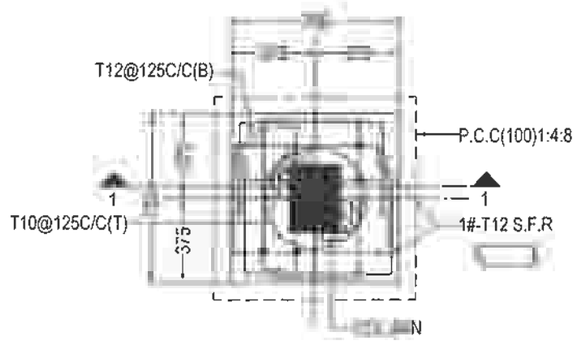
COLUMN REINFORCEMENT SCHEDULE:

TERRACE FLOOR ROOF LEVEL TO						
	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING ⊙- T16 ⊕- T12						
	6-T16	4-T16 + 4-T12	8-T16	8-T16 + 2-T12	4-T16 + 2-T12	10-T16
COLUMN MARKED	C1	C2	C3	C4	C5	C6

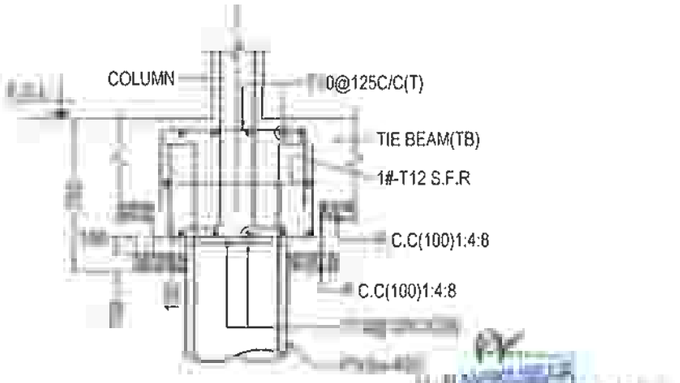


PILE (P1) - PLAN

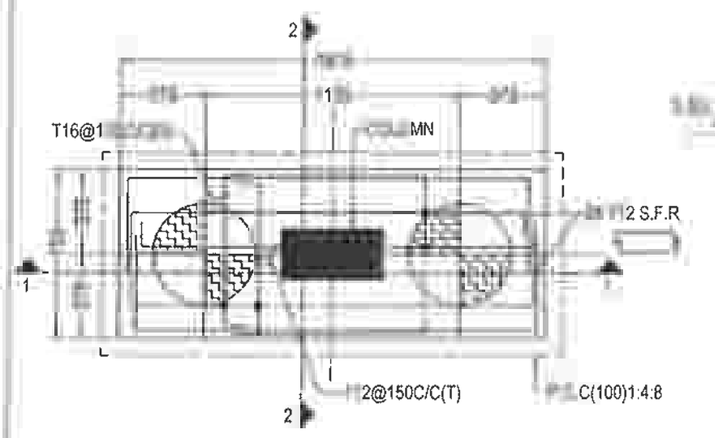
** S.F.R - SIDE FACE REINFORCEMENT



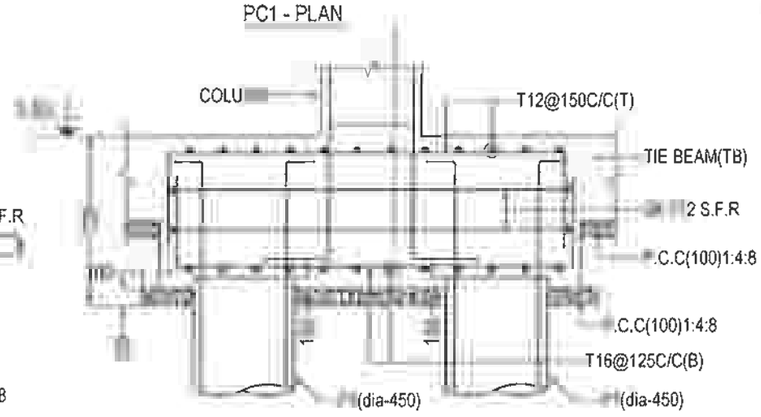
PC1 - PLAN



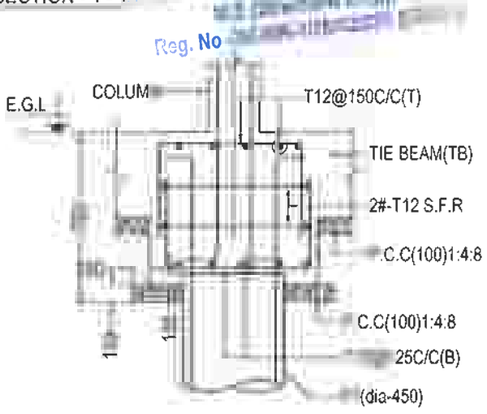
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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CLIENT

PROJECT

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/55, OLD NO 2/1466, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI 600 117
CONTACT. +91 9087725267
safestructurelchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
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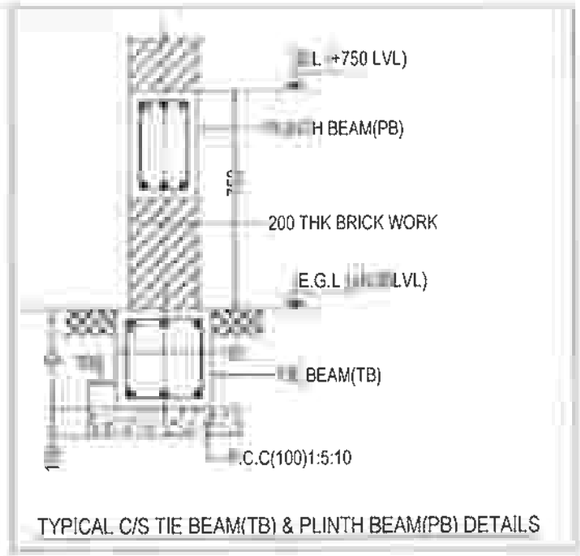
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

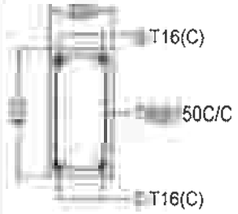
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-05	03

TIE BEAM (TB) REINFORCEMENT SCHEDULE

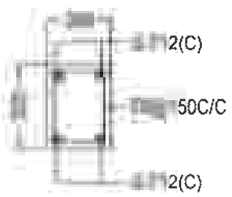
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	T16(C) 50C/C .C.C 16(C)	16(C) 150C/C .C.C 16(C)	T16(C) 50C/C .C.C T16(C)
(200 X 300) TB2	T12(C) 50C/C .C.C T12(C)	T12(C) 50C/C .C.C T12(C)	12(C) 150C/C C.C 12(C)
(100 X 300) BB1	T12(C) 50C/C .C.C -T12(C)	T12(C) 50C/C .C.C T12(C)	-T12(C) 50C/C .C.C -T12(C)



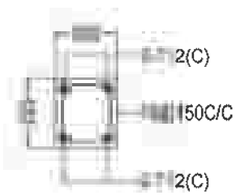
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



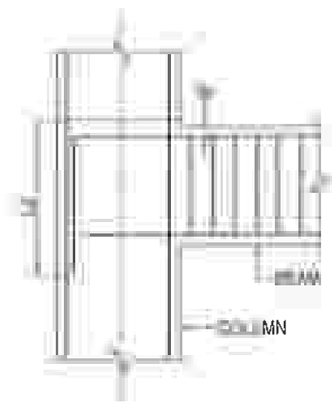
PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS



PB3 - 200 X 250
C/S DETAILS



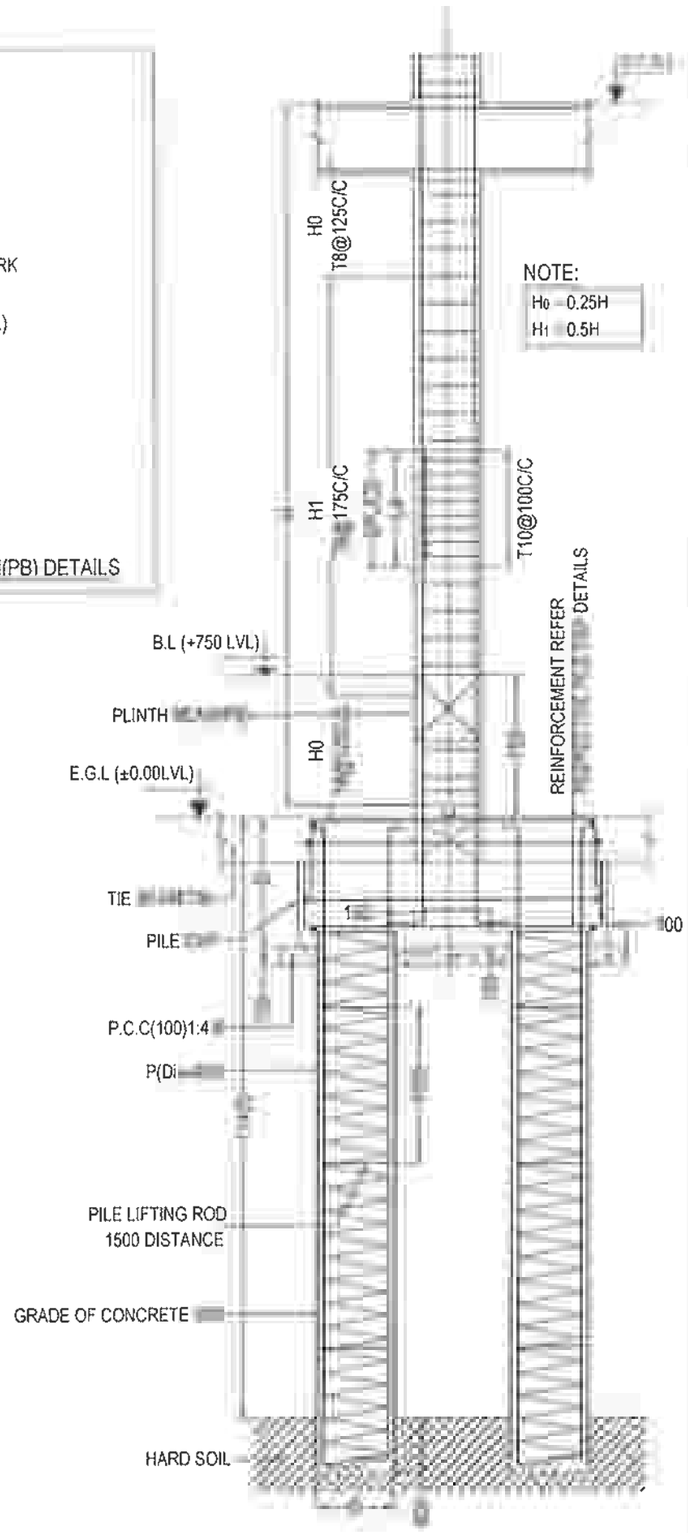
TYPICAL ANCHORAGE OF BEAM
BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



TYPICAL COLUMN & PILE
CONFINING DETAILS

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- EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND.
- ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25 GRADE
- "@" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT.
  - A. COLUMNS = 40
  - B. PILE = 40
  - C. PILE CAP = 50
  - D. TIE BEAM = 30
  - E. PLINTH BEAM = 30
  - F. ROOF BEAM = 30
  - G. ROOF SLAB = 20
- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
- 1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDA
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REI ENT BARS

- a) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
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CLIENT

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ADITYARAM PALACE CITY,(VILLA 37 & 41)
AT ECR, CHENNAI.

ARCHITECT

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STRUCTURAL CONSULTANT

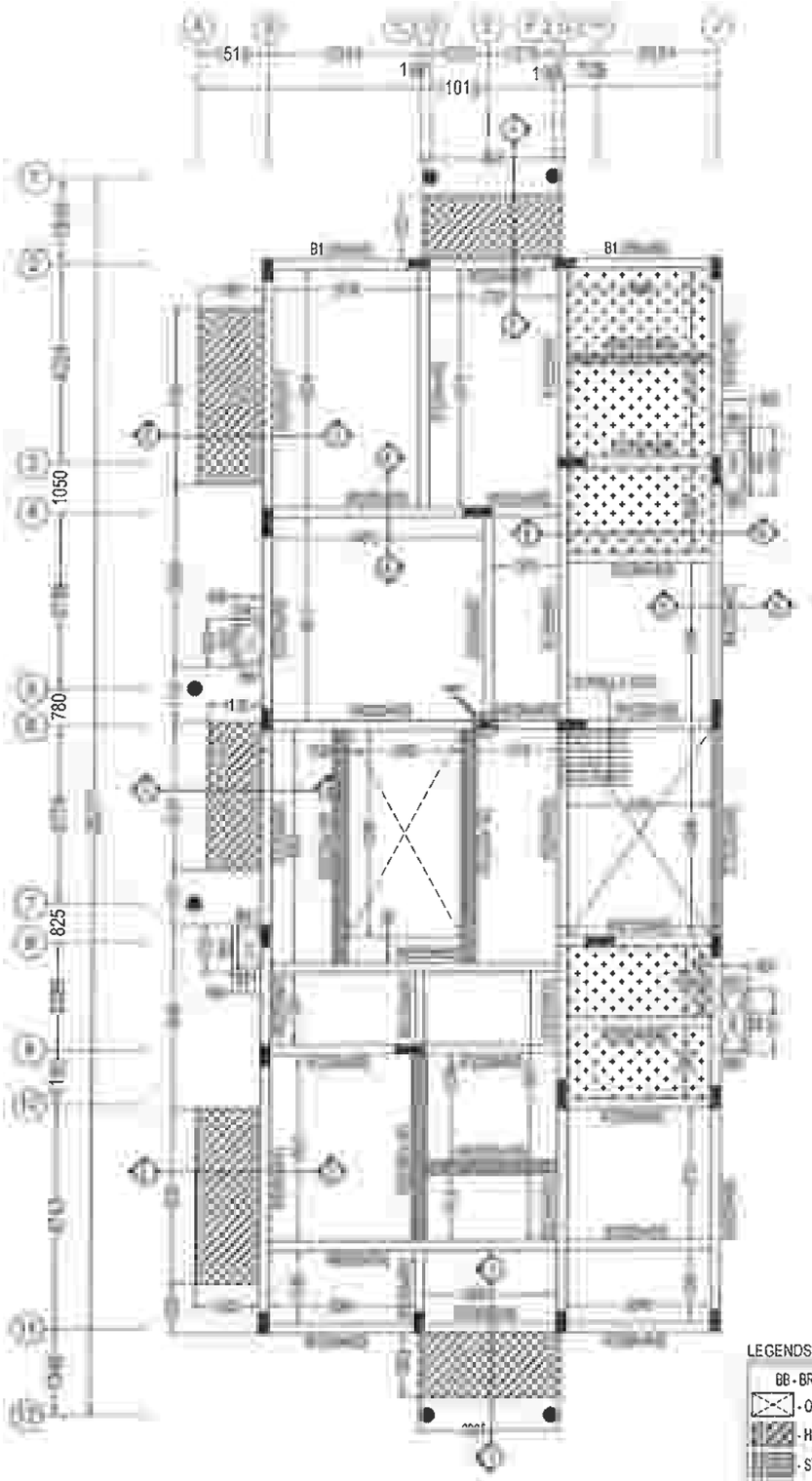
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

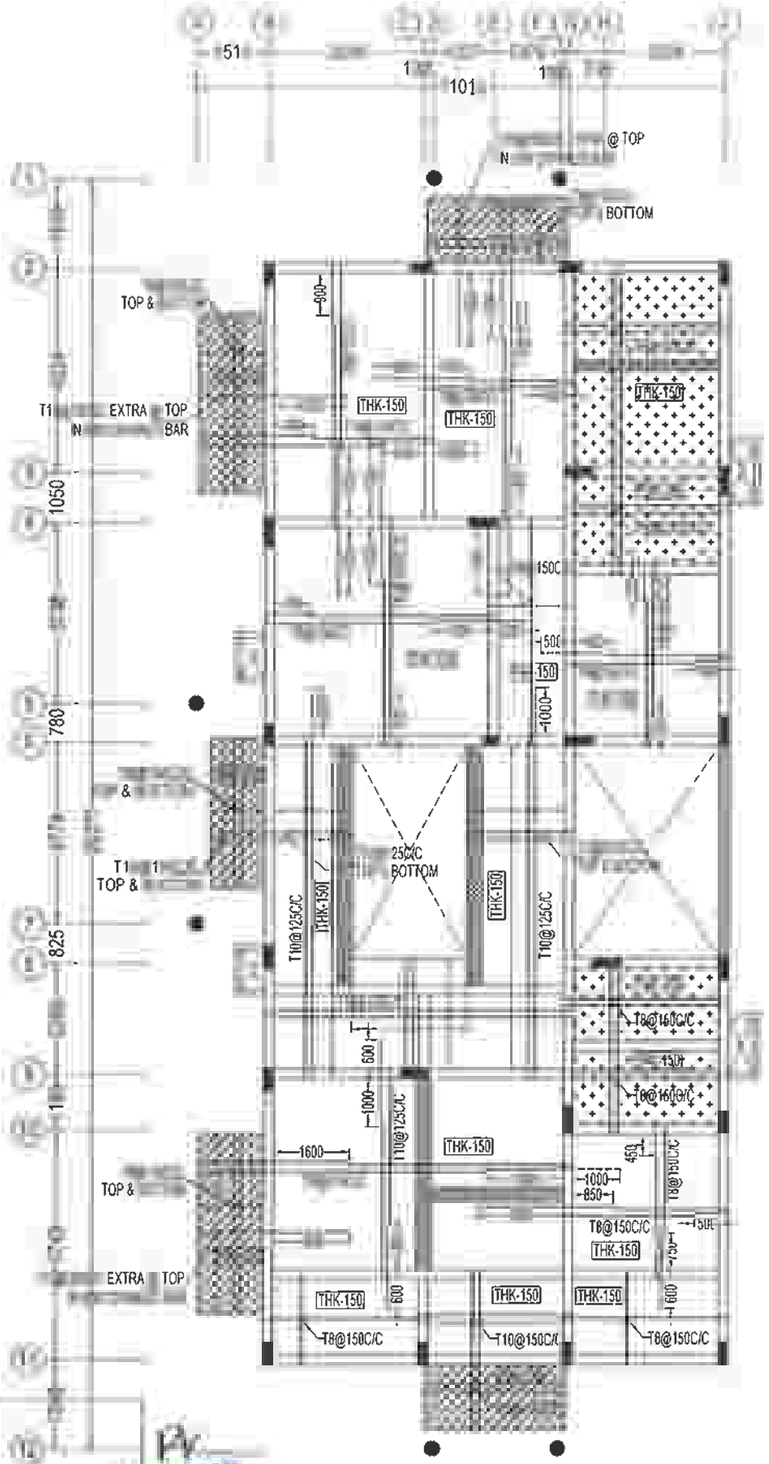
DRAWING NAME

TIE BEAM (TB) DETAILS

REV	DATE	ECT NO	EET
R0		ST-2025-09-05	04



GROUND FLOOR ROOF BEAM LAYOUT



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

LEGENDS:

- BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN
- T - COLUMN CUT @ GROUND LEVEL

- TOP ROD
- BOTTOM ROD

THK - THICKNESS

R. [illegible] - 1 (SE)
M.E [illegible] Engg)
[illegible]/19/12/231 (CMDA)

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CLEAR COVER TO REINFORCEMENT.

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B. PILE	= 40
C. PILE CAP	= 50
D. TIE BEAM	= 30
E. PLINTH BEAM	= 30
F. ROOF BEAM	= 30
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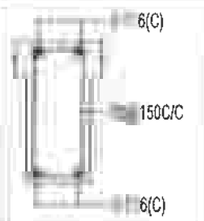
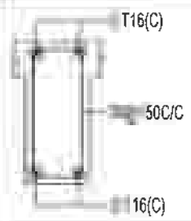
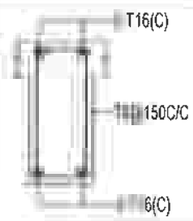
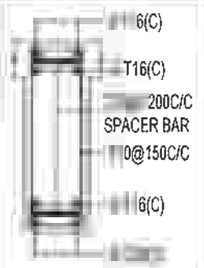
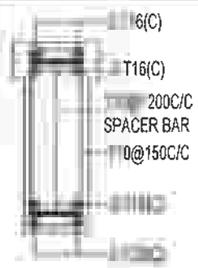
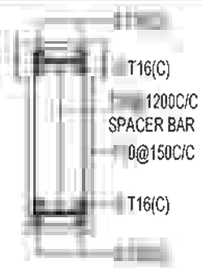
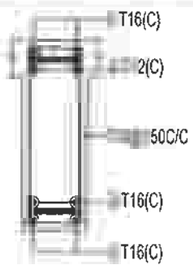
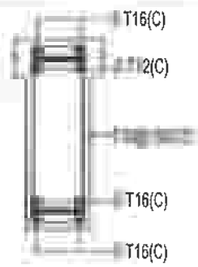
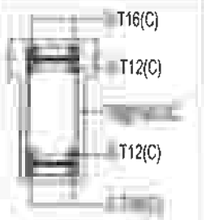
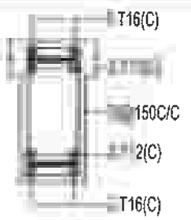
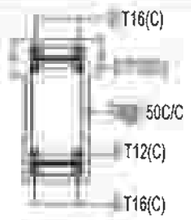
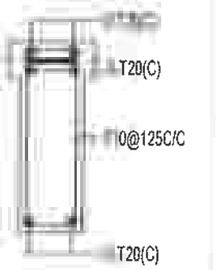
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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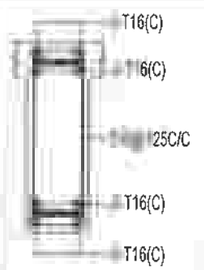
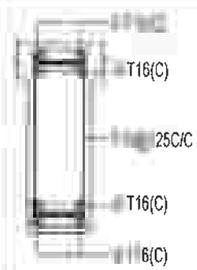
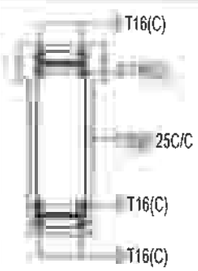
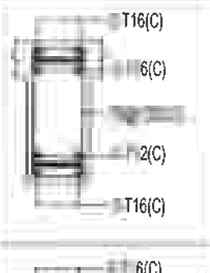
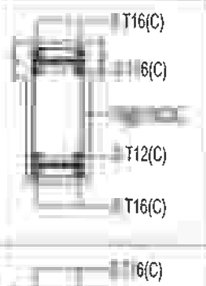
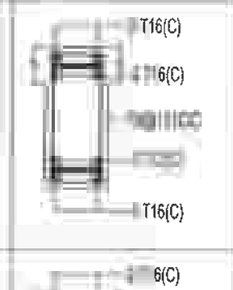
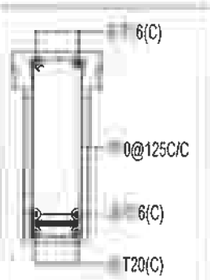
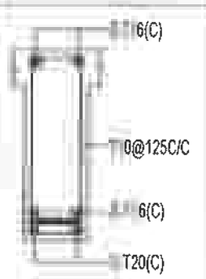
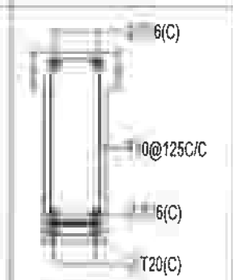
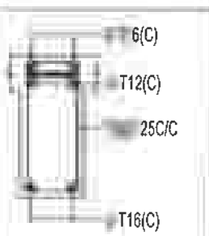
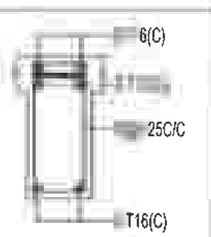
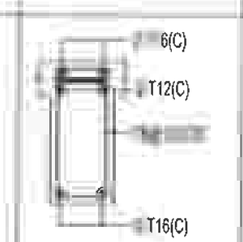
GROUND FLOOR ROOF BEAM LAYOUT
& SLAB DETAILS

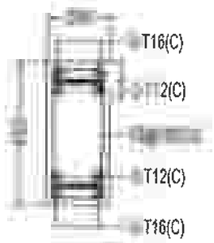
REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-09-05	05

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

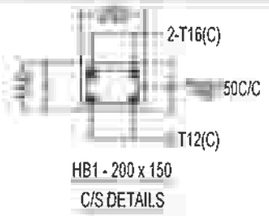
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 600) B3				
(200 X 450) B4				
(200 X 600) B5				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B6				
(200 X 450) B7				
(200 X 600) B8				
(200 X 450) B9				



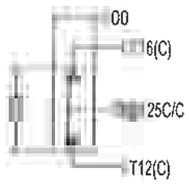
STB - 200 X 450
C/S DETAILS



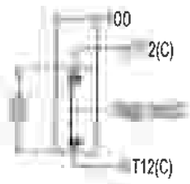
HB1 - 200 x 150
C/S DETAILS



HB2 - 300 x 150
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS

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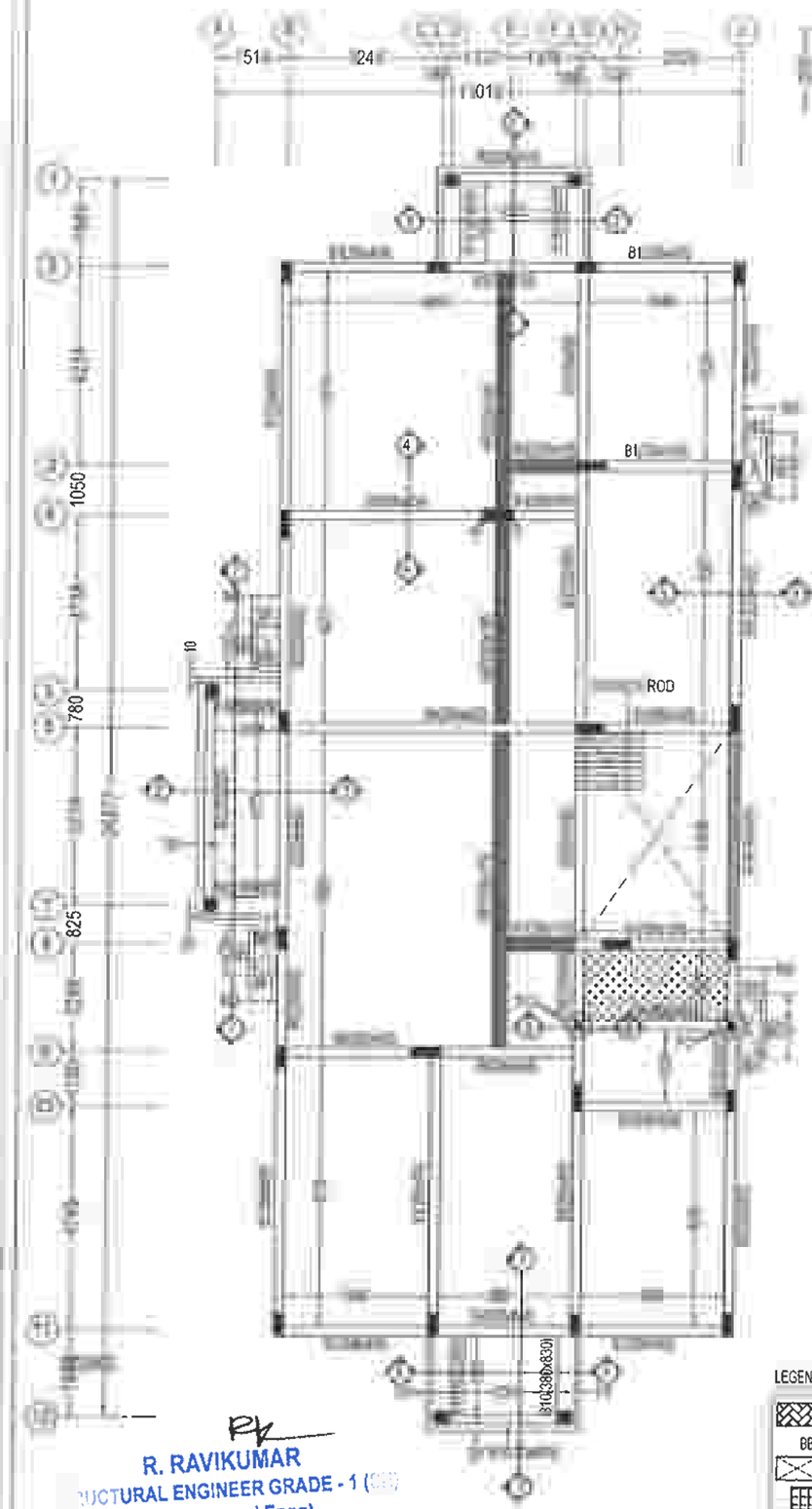
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

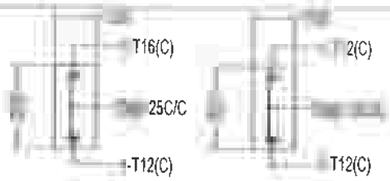
DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	2/2	ST-2025-09-05	06

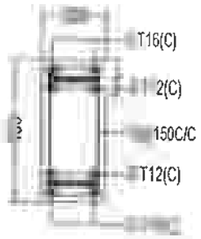


TERRACE BEAM LAYOUT

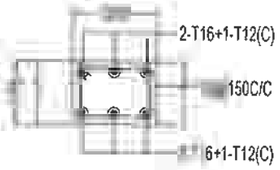


BB1 - 100 X 300
C/S DETAILS

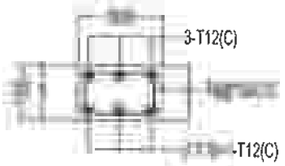
BB2 - 100 X 300
C/S DETAILS



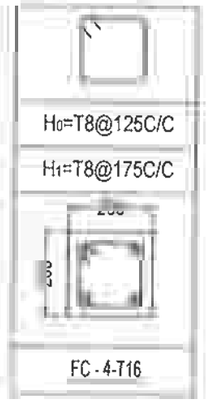
STB - 200 X 450
C/S DETAILS



HB1 - 300 x 175
C/S DETAILS



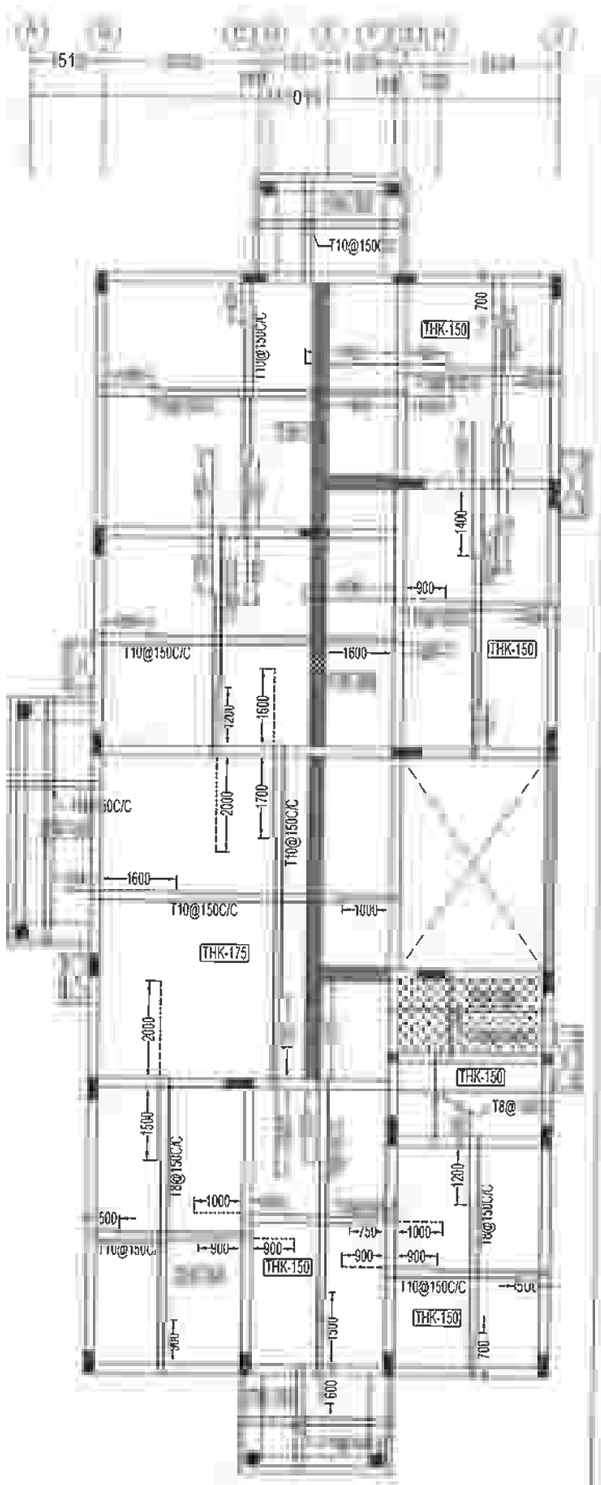
HB2 - 300 x 165
C/S DETAILS



LEGENDS:

- T - COLUMN CUT @ TOP OF TERRACE LEVEL
- BB - BRACKET BEAM
- OPENING
- 'FC' - FLOATING COLUMN
- STB - STRINGER BEAM
- 300mm TOILET SLAB SUNKEN





- TOP ROD
- BOTTOM ROD

THK - THICKNESS

TERRACE SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Regd. No - SE/GR-1/19/12/231 (CMDA)

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 37 & 41)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

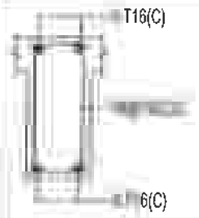
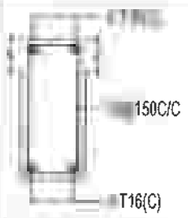
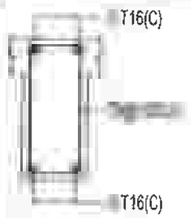
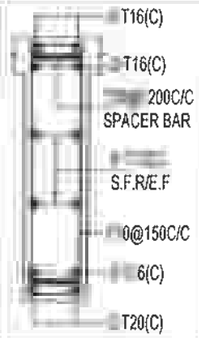
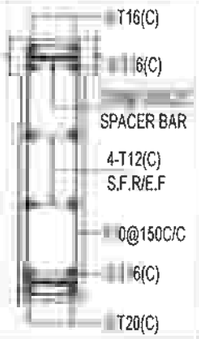
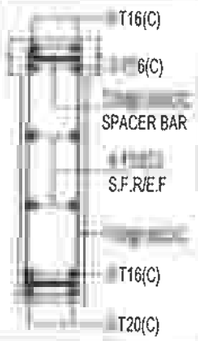
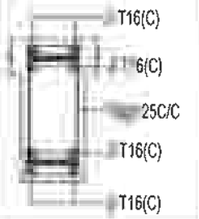
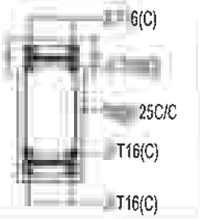
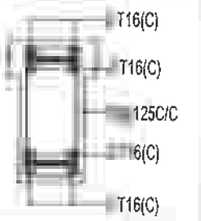
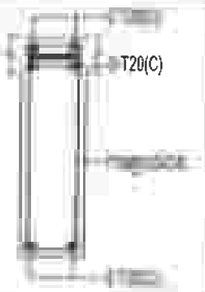
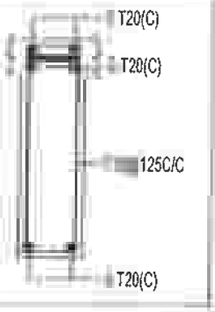
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
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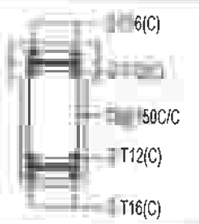
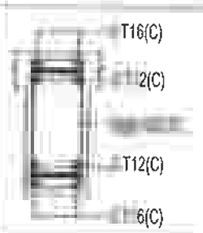
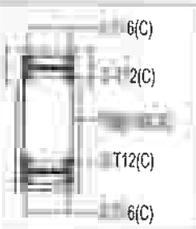
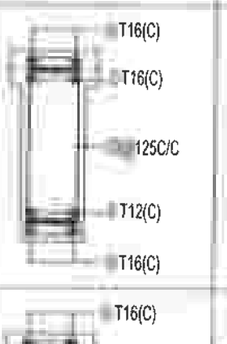
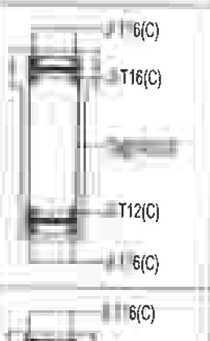
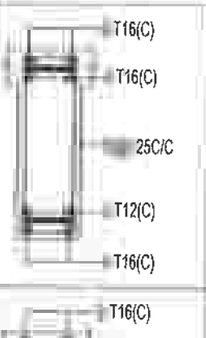
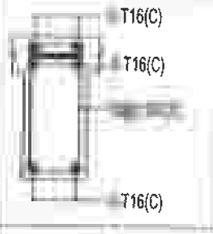
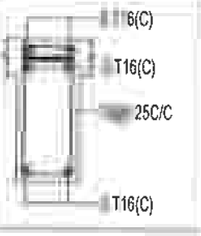
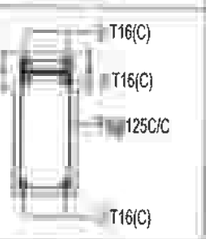
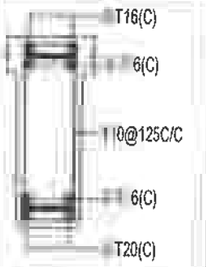
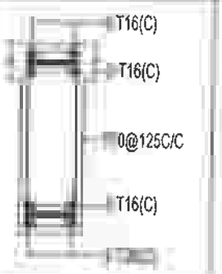
TERRACE BEAM REINFORCEMENT SCHEDULE

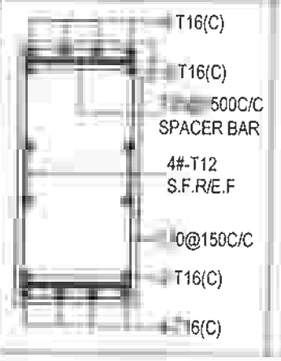
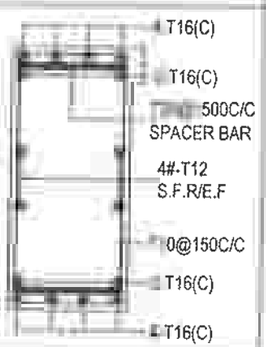
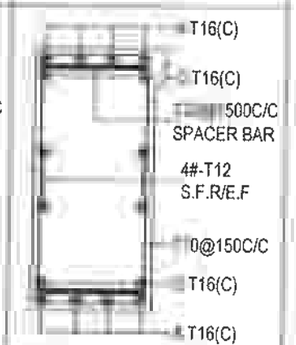
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 830) B2				
(200 X 450) B3				
(200 X 600) B4				
(200 X 700) B5				

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 600) B7				
(200 X 450) B8				
(200 X 600) B9				

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @	DETAIL @ RIGHT
(380 X 830) B10			

STRUCTURAL ENGINEER - 1 (SE)
M.E (Structural Eng)
Reg. No - SE/GR-1/19/12/23

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 37 & 41) AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

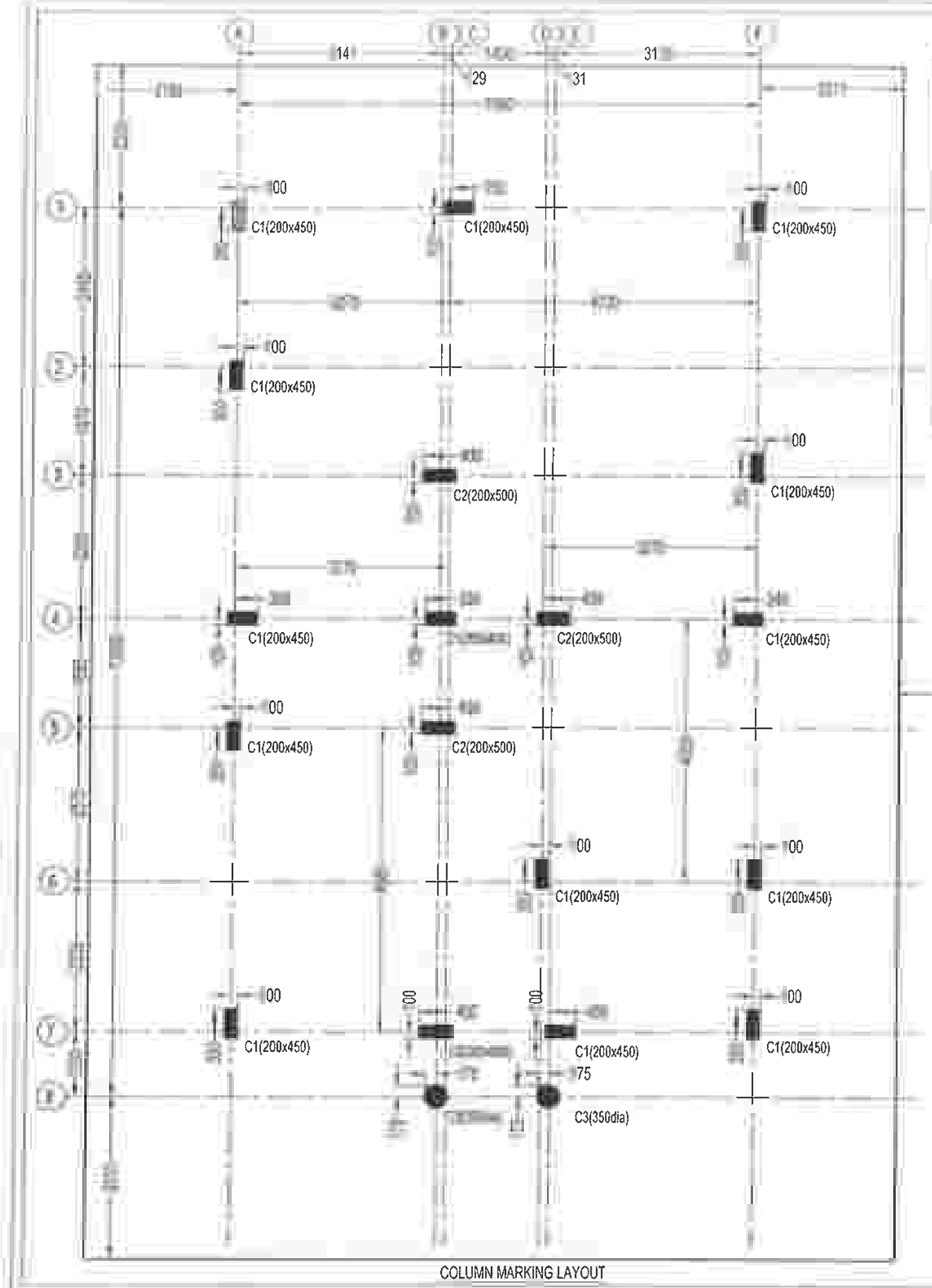
SAFE STRUCTURAL CONSULTANT
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, CHENNAI 17.
CONTACT 9087725287
safestructurelchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-09-05	08



COLUMN MARKING LAYOUT

COLUMN REINFORCEMENT SCHEDULE

TERRACE LEVEL			
TO	H0=T8@125C/C H1=T8@175C/C	H0=T8@125C/C H1=T8@175C/C	H0=T8@125C/C H1=T8@175C/C
FOOTING MIX-M25 ⊙-T16 ⊕-T12			
	8-T16	10-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3

LEGENDS:

- C - CONTINUOS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL

R. [illegible] DE - 1 (ST)
STRUCTURAL [illegible]
M.E [illegible]tural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 39 & 43-47)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

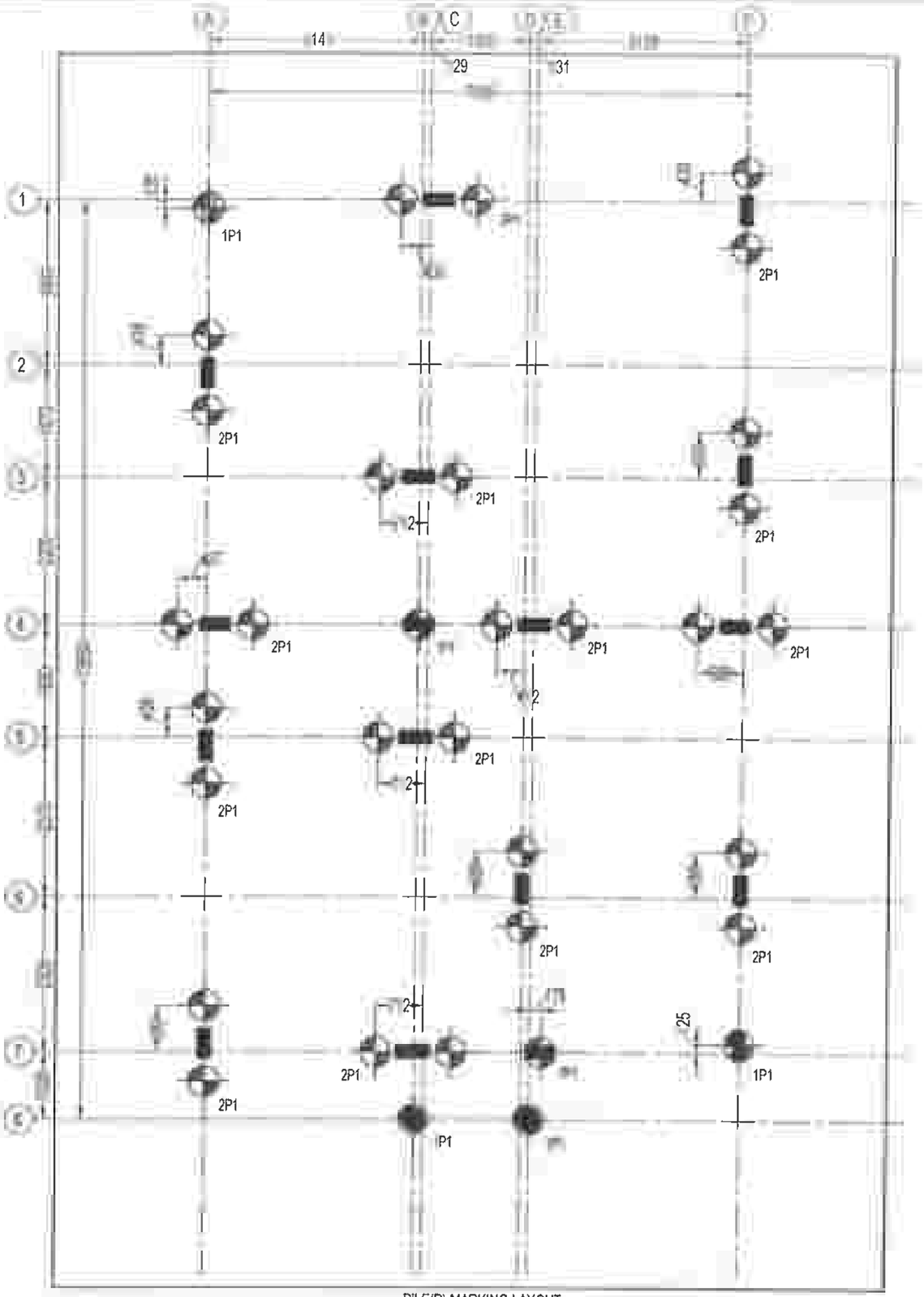
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] NO 2/1466, 200 FEET ROAD, EACHAN[illegible] NA NAGAR, KOVILAMBAKKAM, CHENNA[illegible]
Safe Structural Consultancy
[illegible]7
[illegible].com
ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2026-06-16	01



PILE(P) MARKING LAYOUT



PILE LIFTING ROD
BUNDLE BAR 2-T12@(1500 INTERVAL)

PILE (P1) - PLAN

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C PILE CAP	= 50
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F ROOF BEAM	= 30
G ROOF SLAB	= 20

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 459KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 459KN BY CONSULTING WITH SOIL EXPERTS

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2. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

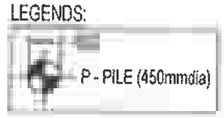
LAP REINFORCEMENT

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

LEGENDS:



R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMC)

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 39 & 43-47)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

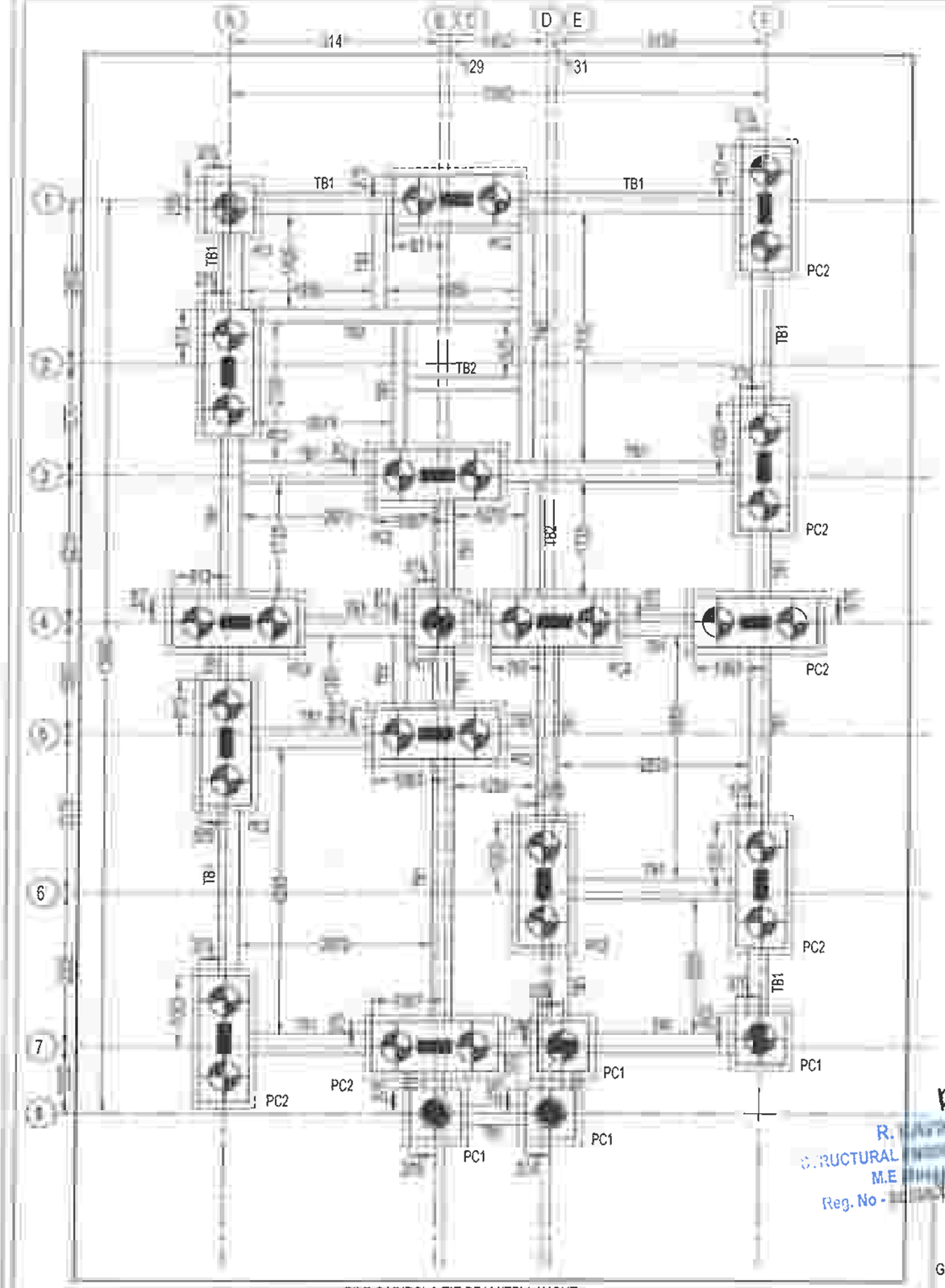
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

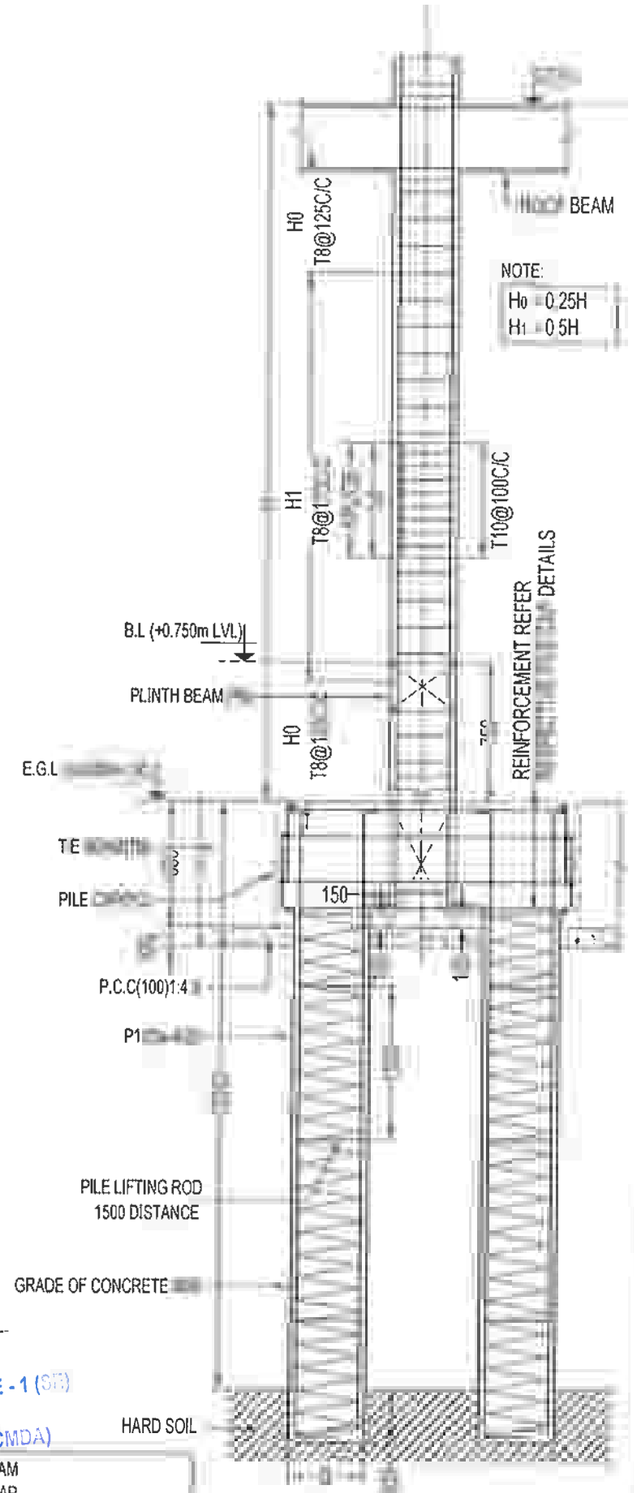
PILE(P) MARKING LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-16		02



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

TB - TIE BEAM
PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE CONFINING DETAILS

RK

R.
STRUCTURAL
M.E
Reg. No -
GRADE - 1 (SR)
99)
CMDA)

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7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
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   - B. PILE = 40
   - C. PILE CAP = 50
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LAP JOINTS FOR [illegible] BARS

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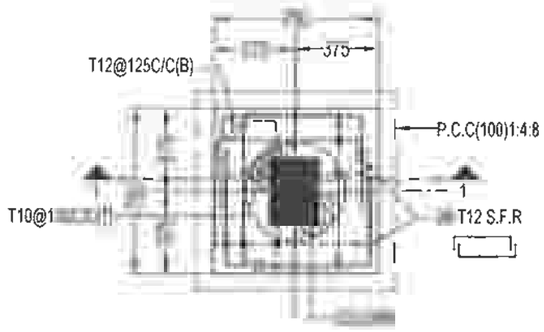
SAFE STRUCTURAL CONSULTANCY
NO 3/56, OLD NO 2/1456, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM,
CHENNAI 600 117
CONTACT +91 9087725267
safestructuralchenna@gmail.com
Web. www.safestructu

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
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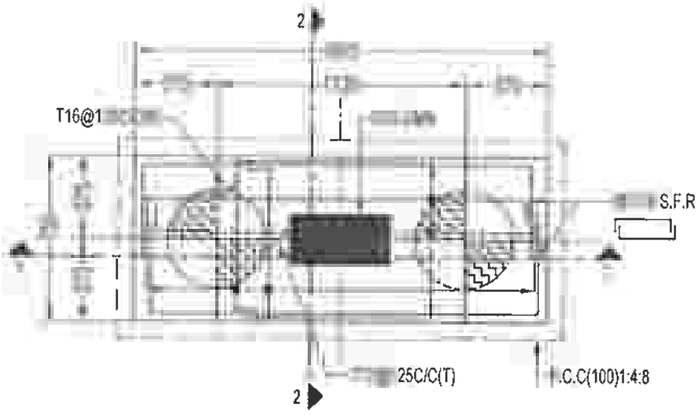
DRAWING NAME

PILE CAP(PC) MARKING LAYOUT & DETAILS

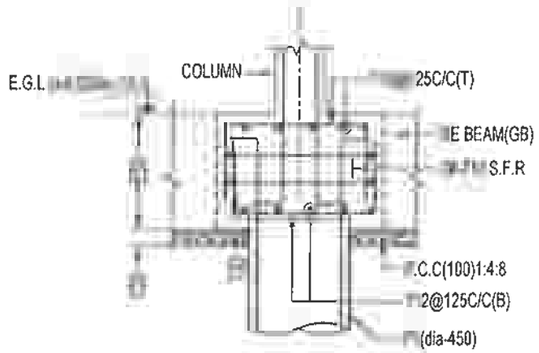
REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2026-06-16	03



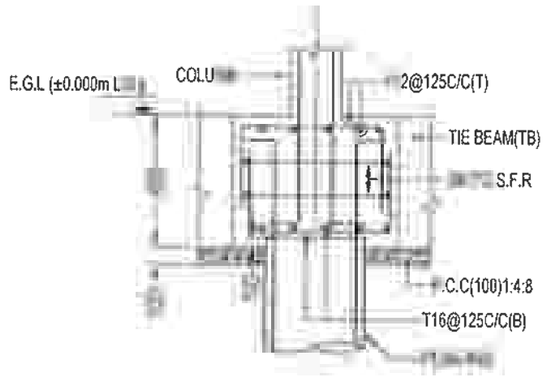
PC1 - PLAN



PC2 - PLAN



SECTION - 1 - 1

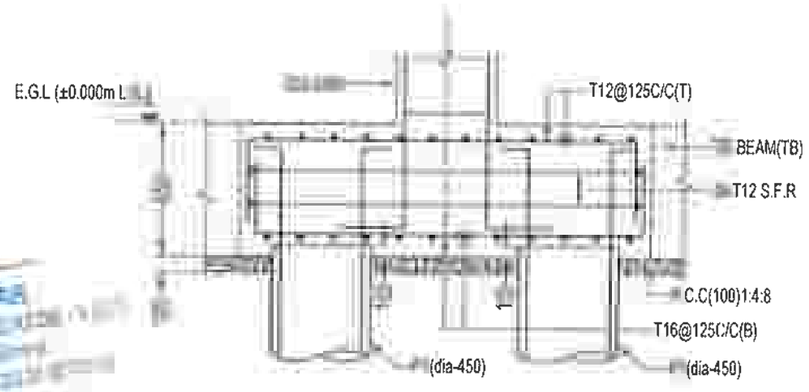


SECTION - 2 - 2

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



SECTION - 1 - 1

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

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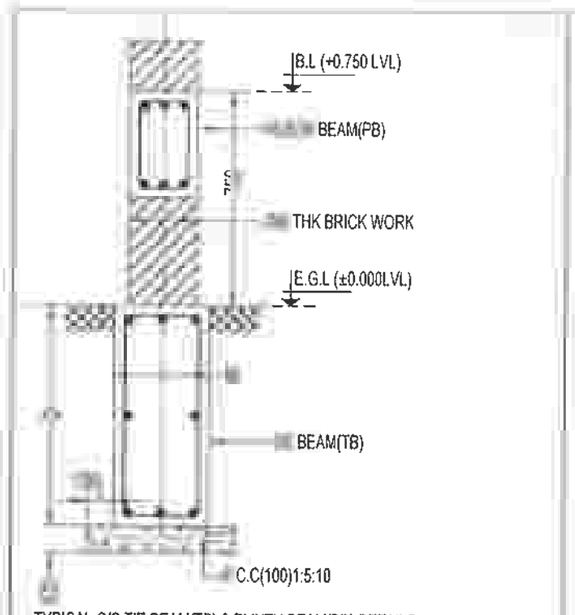
DRAWING NAME

PILE CAP SECTION DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-16	04

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	6(C) T12(C) S.F.R/E.F C.C	T16(C) 50C/C 2(C) S.F.R/E.F C.C	6(C) 50C/C S.F.R/E.F C.C T16(C)
(200 X 750) TB2	6(C) S.F.R/E.F C.C	6(C) 50C/C T12(C) S.F.R/E.F C.C 6(C)	50C/C 2(C) S.F.R/E.F



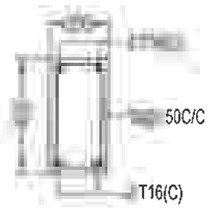
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS


TYPICAL [illegible] OF BEAM BARS IN AN EXTERNAL JOINT

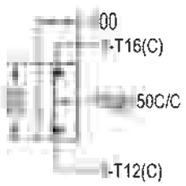
** Ld-45 TIMES DIA OF BAR

LEGENDS:

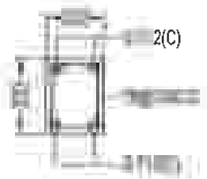
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



PB1 - 200 X 400
C/S DETAILS



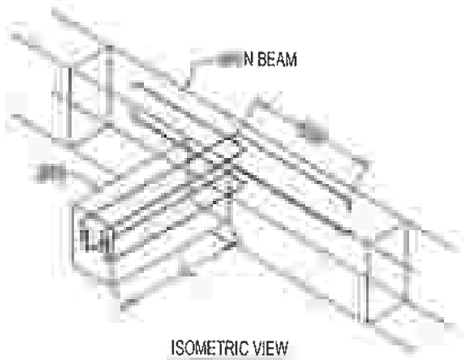
BB1 - 100 X 300
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS

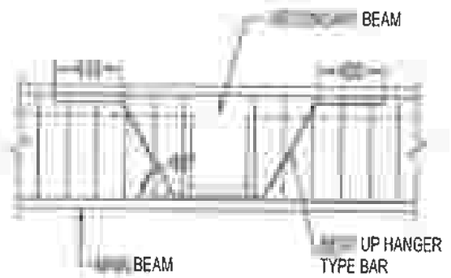
LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



ISOMETRIC VIEW

OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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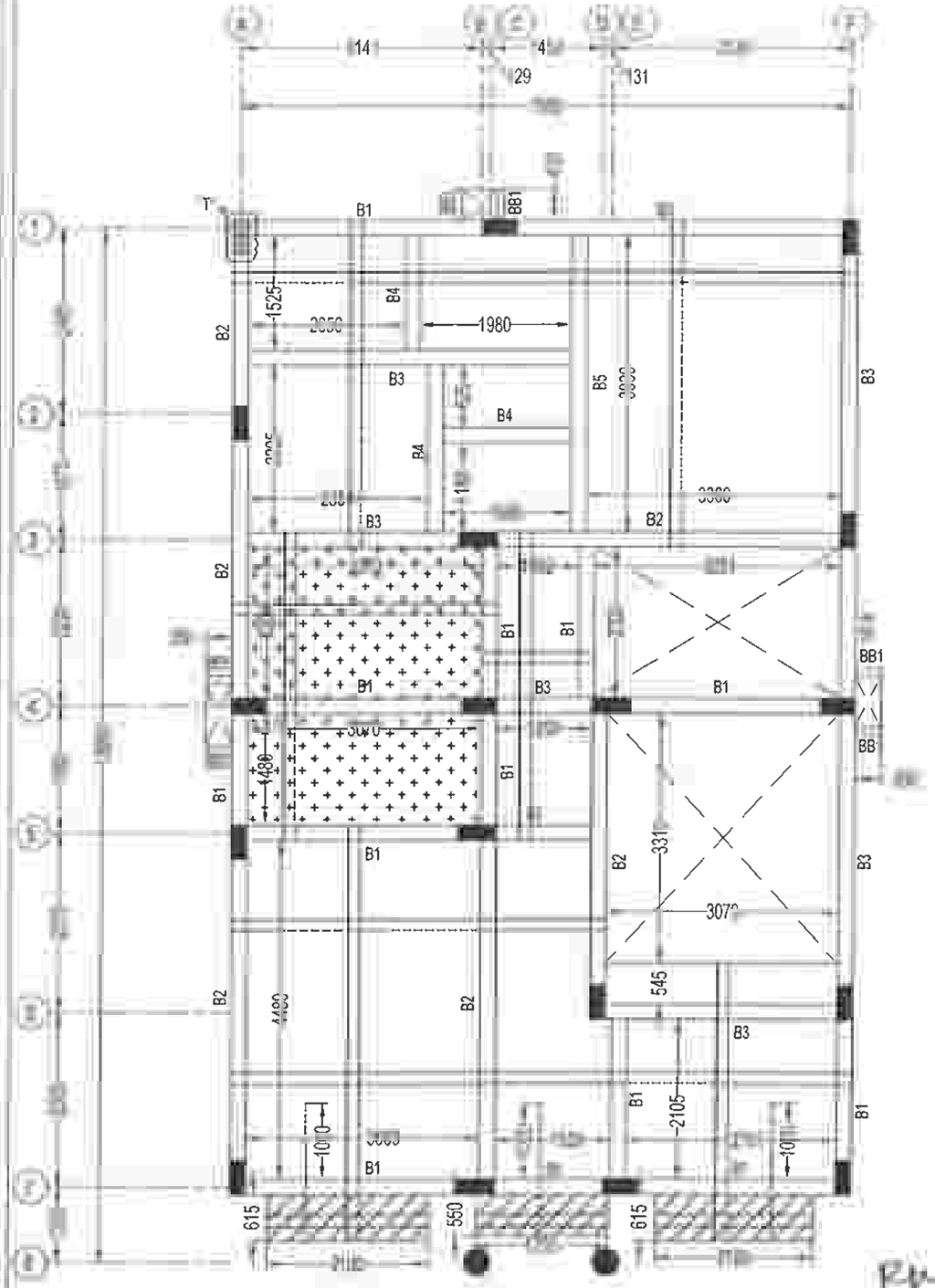
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

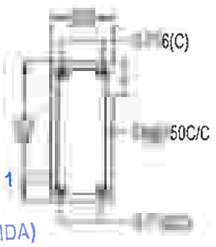
TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2026-06-16	05



GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

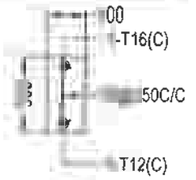
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) 50C/C	T16(C) 50C/C	6(C) 50C/C T16(C)
(200 X 450) B2	T16(C) 6(C) 0@125C/C T16(C) T20(C)	T16(C) 6(C) 25C/C T16(C)	6(C) 0@125C/C 6(C)
(200 X 450) B3	6(C) 0@150C/C 6(C) T16(C)	T16(C) 0@150C/C T16(C) T16(C)	0@150C/C 6(C)
(200 X 450) B4	6(C) T16(C)	2(C) 50C/C T16(C)	6(C)
(200 X 450) B5	6(C) 0@125C/C 6(C) T20(C)	6(C) 0@125C/C T16(C)	0@125C/C 6(C) T20(C)



MLB - 200 X 450
C/S DETAILS

LEGENDS:

C -	CONTINUOUS BAR
E -	EXTRA BAR



BB1 - X 300
C/S DETAILS

LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - MLB - MID LANDING BEAM
- - BALCONY SLAB SUNKEN
- - TOILET SLAB SUNKEN
- T - COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL
- ------ TOP ROD
- ——— BOTTOM ROD
- THK - THICKNESS

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

GROUND FLOOR ROOF BEAM LAYOUT & SLAB LAYOUT & DETAILS

R. RAVI KUMAR
STRUCTURAL ENGINEER GRADE - 1
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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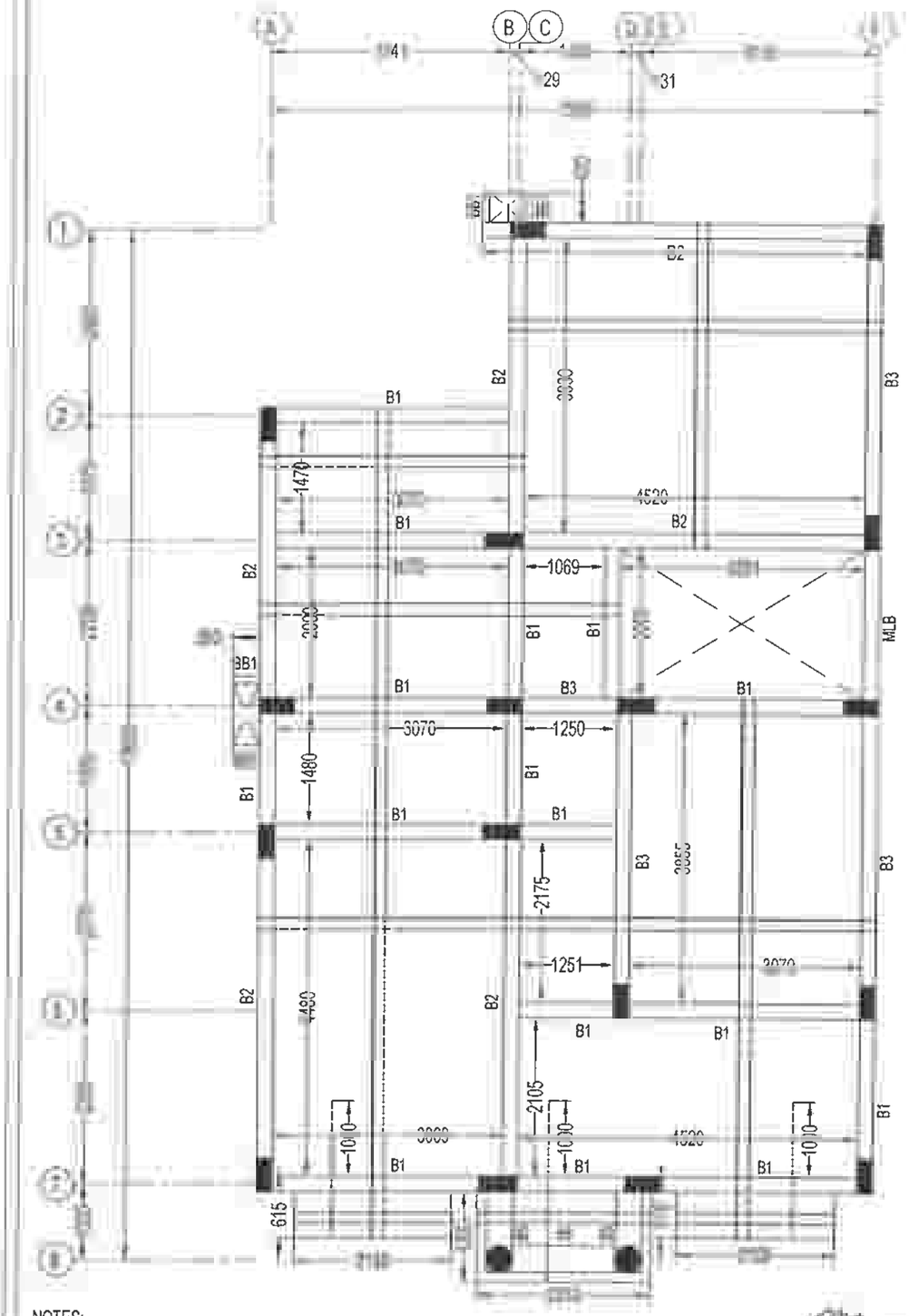
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EACHAN N KOVILAMBAKKAM,
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Safe
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DESIGNED	RK	RELEASED FOR
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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT, DETAILS &

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-16	06



TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	50C/C, T16(C)	T16(C), 50C/C	6(C), 150C/C, T16(C)
(200 X 450) B2	0@125C/C, T16(C), T20(C)	T16(C), 6(C), 25C/C, T16(C)	6(C), 6(C), 25C/C, T16(C)
(200 X 450) B3	T0@150C/C, 6(C), T16(C)	T0@150C/C, 6(C)	T16(C), 50C/C, T16(C), 6(C)
(200 X 450) B4	2(C), 50C/C	6(C)	T12(C), 50C/C, 6(C)
(350 X 450) B5	0@150C/C, T16(C)	T16(C), 6(C)	0@150C/C, T16(C)

NOTES:

ALL SLAB THICKNESS - 150

ALL SLAB RODS :-

SHORTER SPAN - T10@150C/C

LONGER SPAN - T8@150C/C

TERRACE BEAM LAYOUT & SLAB LAYOUT & DETAILS

LB - 200 X 450 C/S DETAILS

50C/C, T16(C)

BB1 - 100 X 300 C/S DETAILS

00, T16(C), 50C/C, T12(C)

LEGENDS:

BB - BRACKET BEAM

OPENING

MLB - MID LANDING BEAM

TOP ROD

BOTTOM ROD

THK - THICKNESS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E Structural Engg
SE/GR-1 9/12/231 (CMDA)

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   - B. PILE = 40
   - C. PILE CAP = 50
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   - F. ROOF BEAM = 30
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REIN

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 39 & 43-47)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

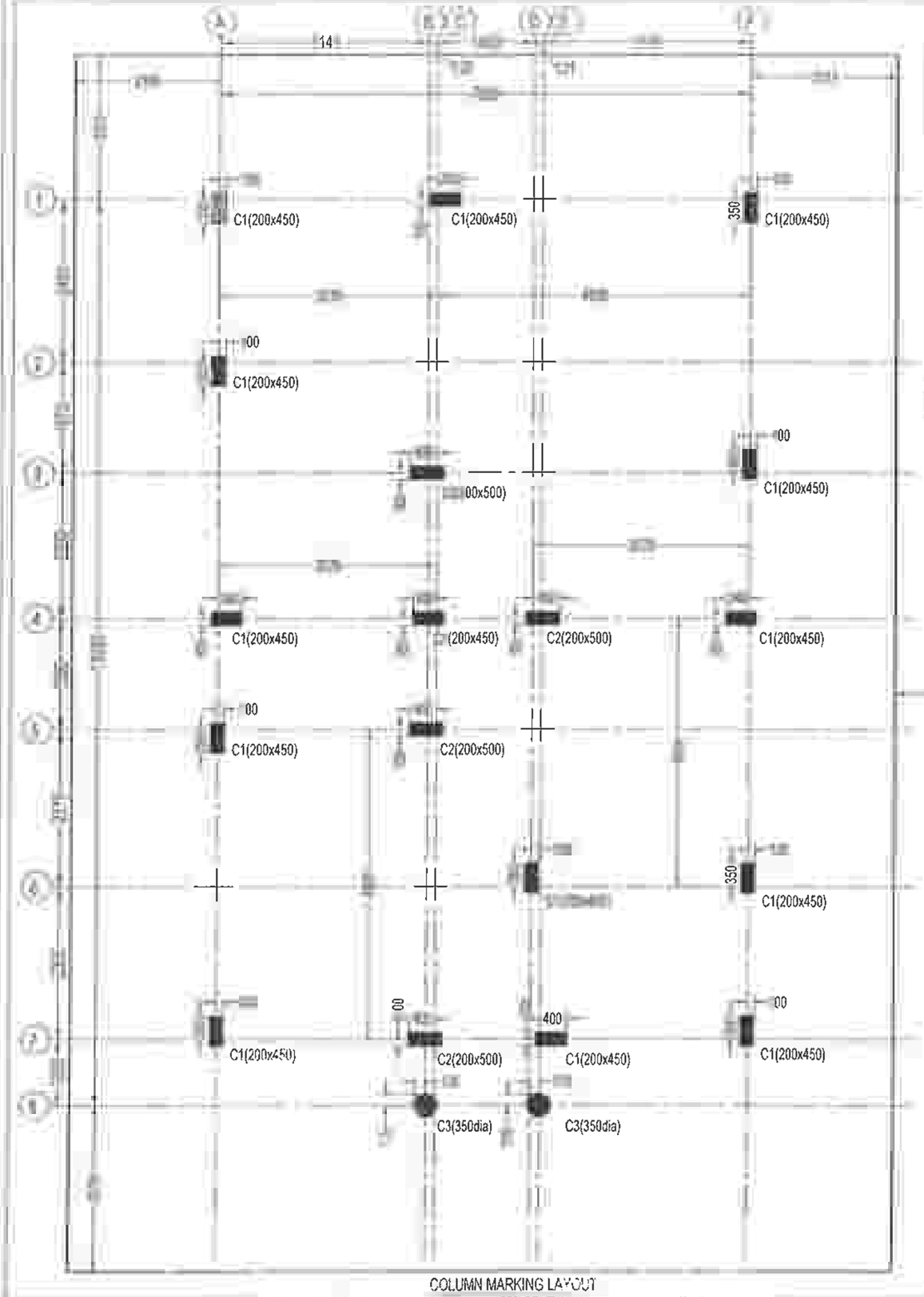
SAFE STRUCTURAL CONSULTANCY
OLD NO 2/1466, 200 FEET ROAD,
ANNA NAGAR, KOVILAMBAKKAM,
600 117.
: +91 9087725267
safestructuralchennai@gmail.com
Web.:

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	ST-2026-06-16		07



COLUMN MARKING LAYOUT

COLUMN REINFORCEMENT SCHEDULE:

TERRACE LEVEL			
TO	H0=T8@125C/C H1=T8@175C/C	H0=T8@125C/C H1=T8@175C/C	H0=T8@125C/C H1=T8@175C/C
FOOTING MIX-M25 ⊙ - T16 ⊕ - T12	8-T16	10-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3

LEGENDS:

- C - COLUMN
- COLUMN C/L @ GROUND FLOOR ROOF BEAM LVL

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STRUCTURAL CONSULTANT

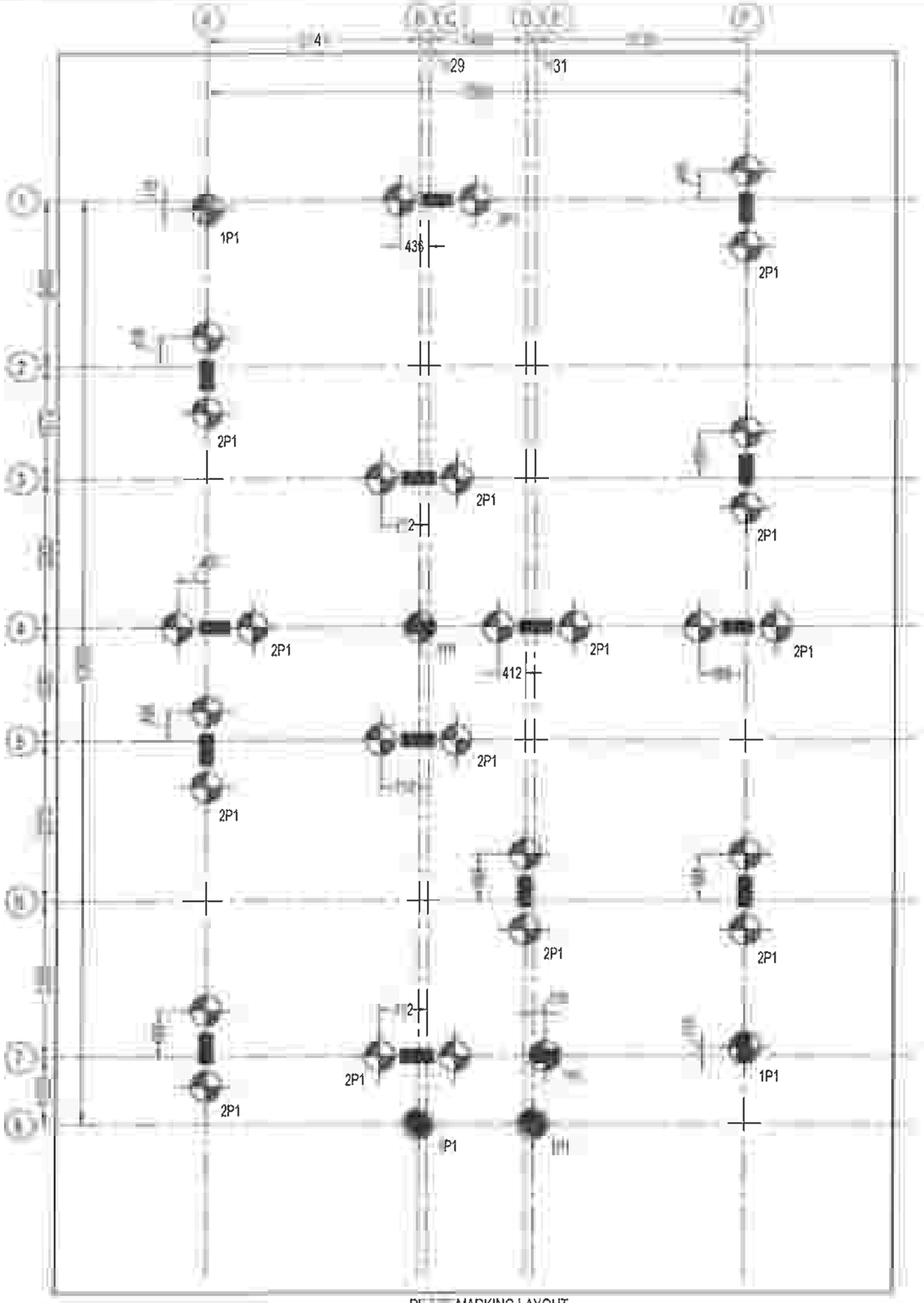
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CHENNAI - 600
CONTACT 9087723267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR	
DETAILED	SG	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET
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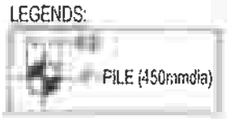


PILE MARKING LAYOUT



PILE (P1) - PLAN

LEGENDS:



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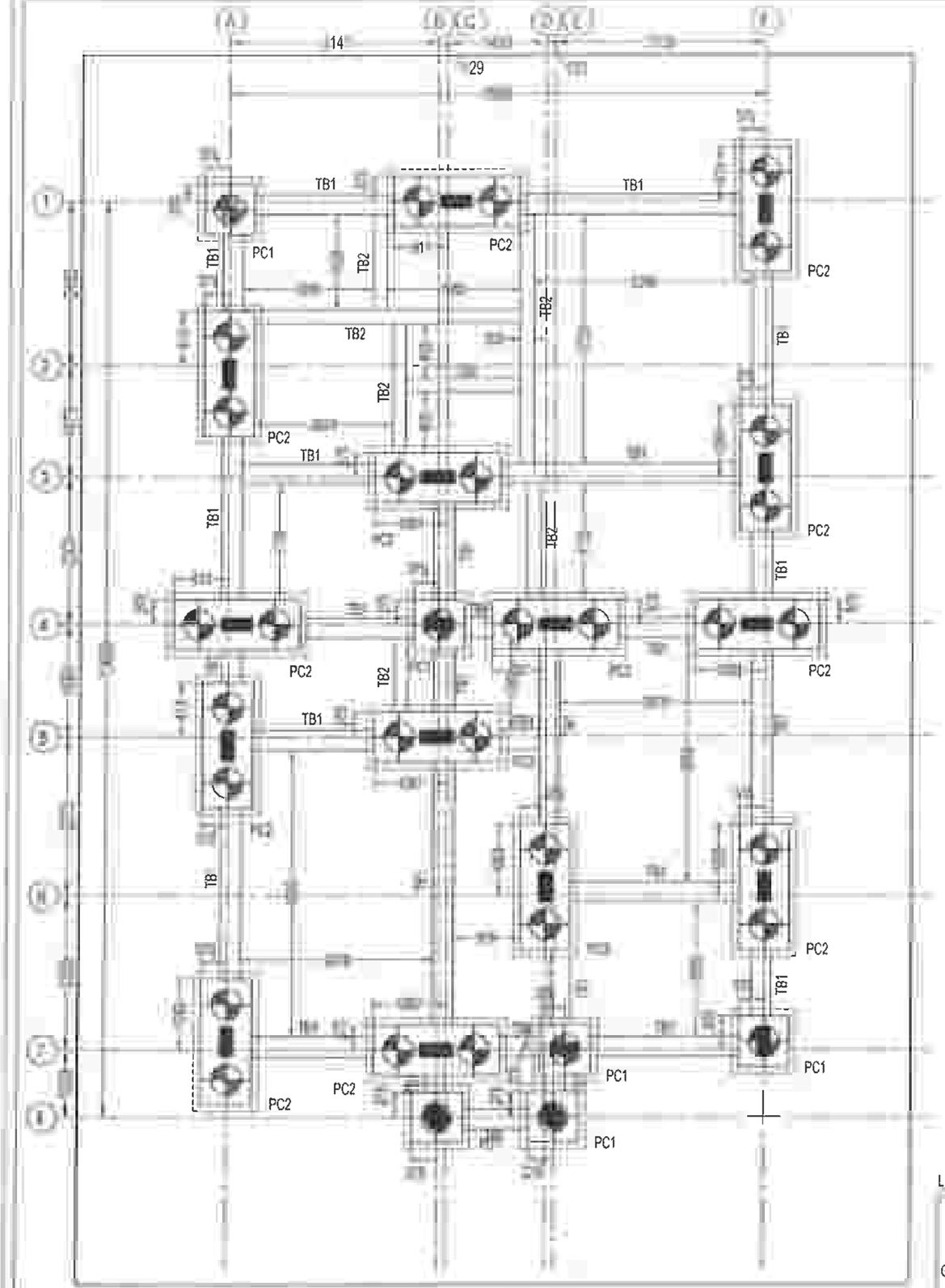
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

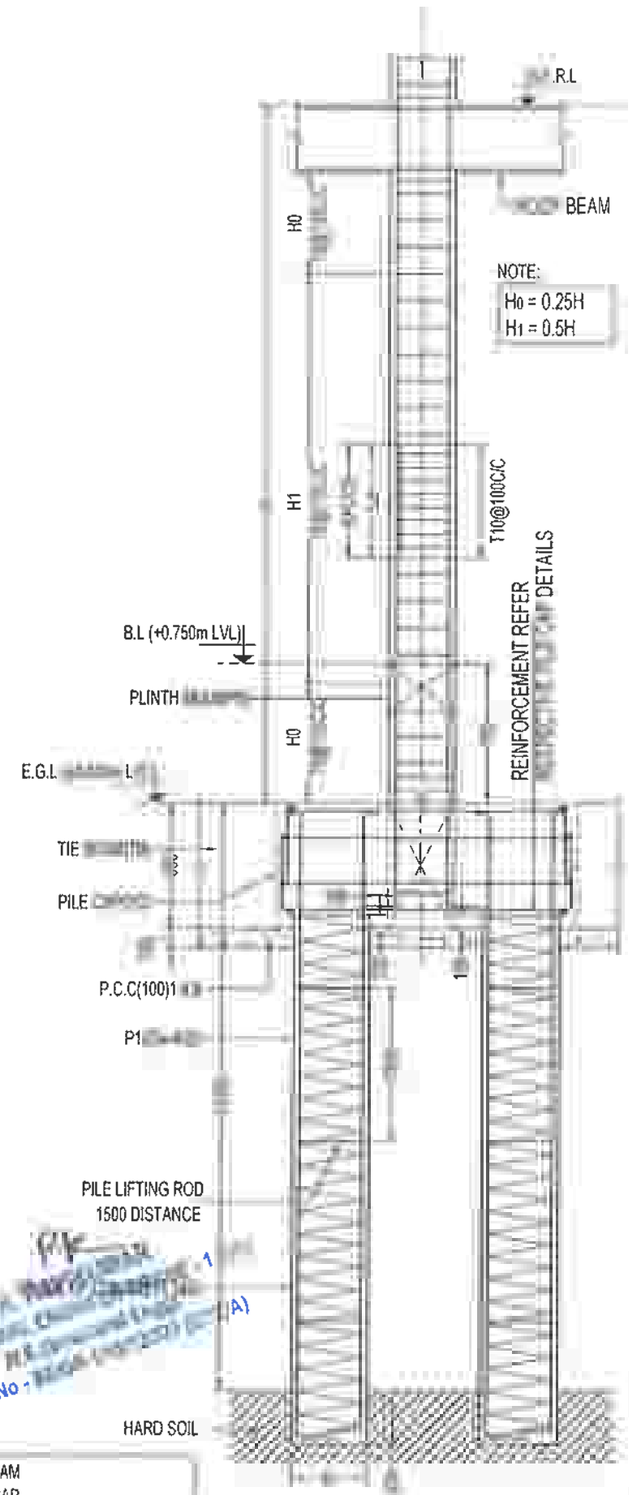
DRAWING NAME

PILE(P) MARKING LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-17		02



PILE CAP(PC) & TIE BEAM(TB) LAYOUT



LEGENDS:

TB - TIE BEAM
PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

TYPICAL COLUMN & PILE CONFINING DETAILS

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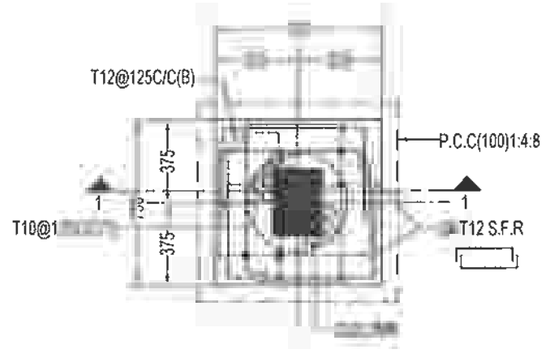
SAFE STRUCTURAL CONSULTANCY
Safe Structural Consultancy
NEW NO [illegible] D [illegible] 200 FEET ROAD,
EACHAN [illegible] N [illegible] KOVILAMBAKKAM,
CHENNA [illegible] 7 [illegible] 7
[illegible] .com
[illegible] ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

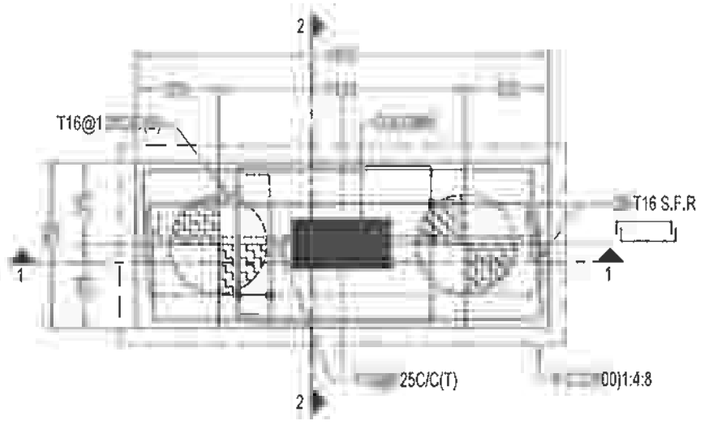
DRAWING NAME

PILE CAP(PC) MARKING LAYOUT & DETAILS

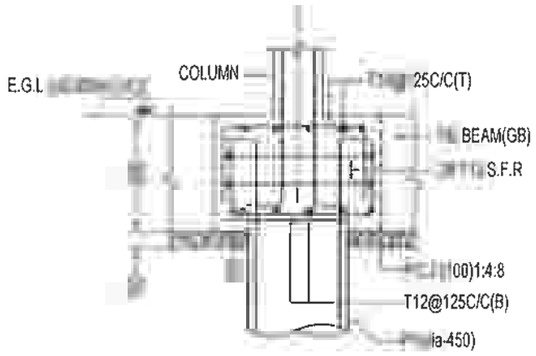
REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2026-06-17	03



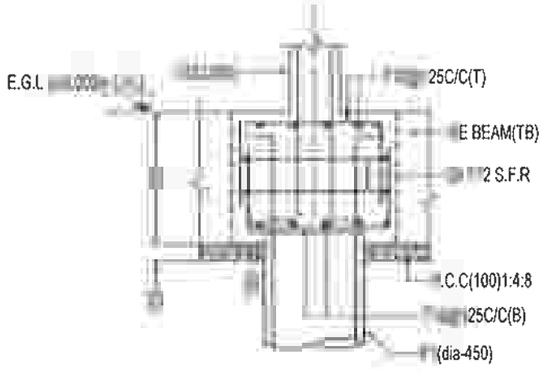
PC1 - PLAN



PC2 - PLAN



SECTION - 1 - 1

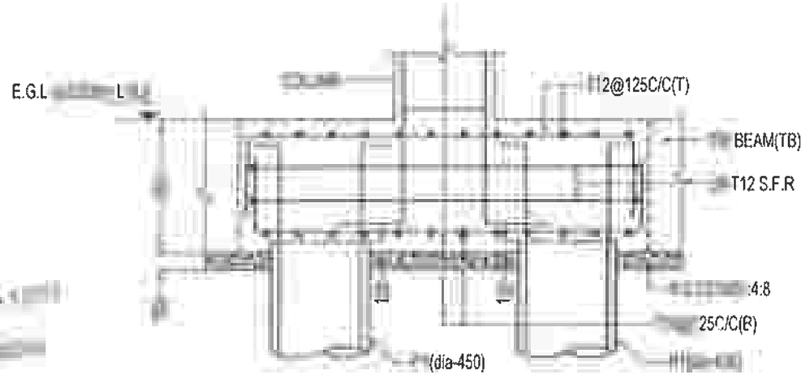


SECTION - 2 - 2

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



SECTION - 1 - 1

R. RAVI KUMAR
STRUCTURAL ENGINEER
M.E (Structural Engg)
Reg. No - SE/GR-

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ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

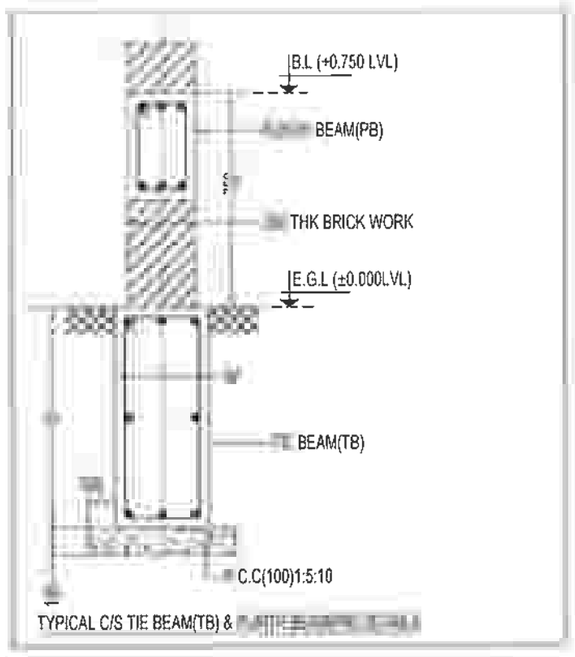
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

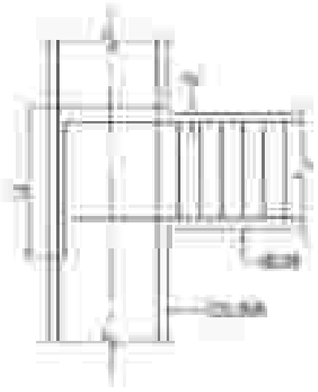
PILE CAP SECTION DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-17	04

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	T16(C), 150C/C, T12(C) S.F.R/E.F, C.C, T16(C)	50C/C, S.F.R/E.F	T16(C), 50C/C, S.F.R/E.F
(200 X 750) TB2	T16(C), 150C/C, T12(C) S.F.R/E.F, C.C	T16(C), 50C/C, T12(C) S.F.R/E.F	T16(C), 50C/C, T12(C) S.F.R/E.F, C.C



TYPICAL C/S TIE BEAM(TB) &


TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT

** Ld-45 TIMES DIA OF BAR

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

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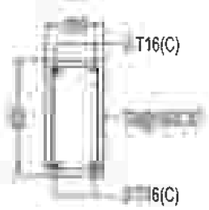
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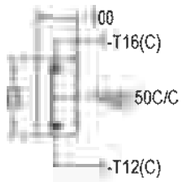
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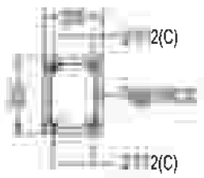
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PB1 - 200 X 400
C/S DETAILS



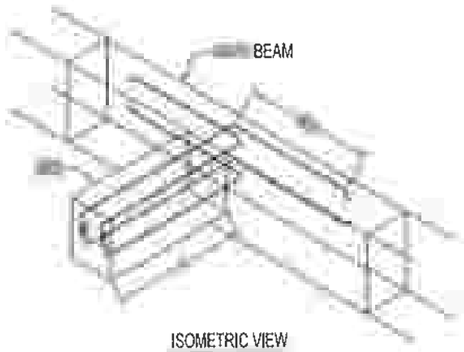
BB1 - 100 X 300
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS

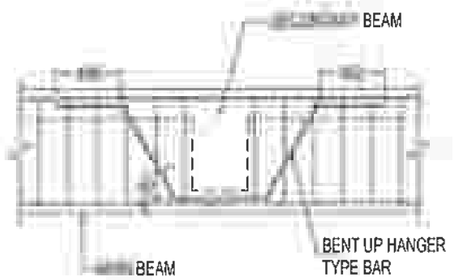
LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



ISOMETRIC VIEW

OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE

PROVIDED AT 2-T16

RK

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(40 & 48)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

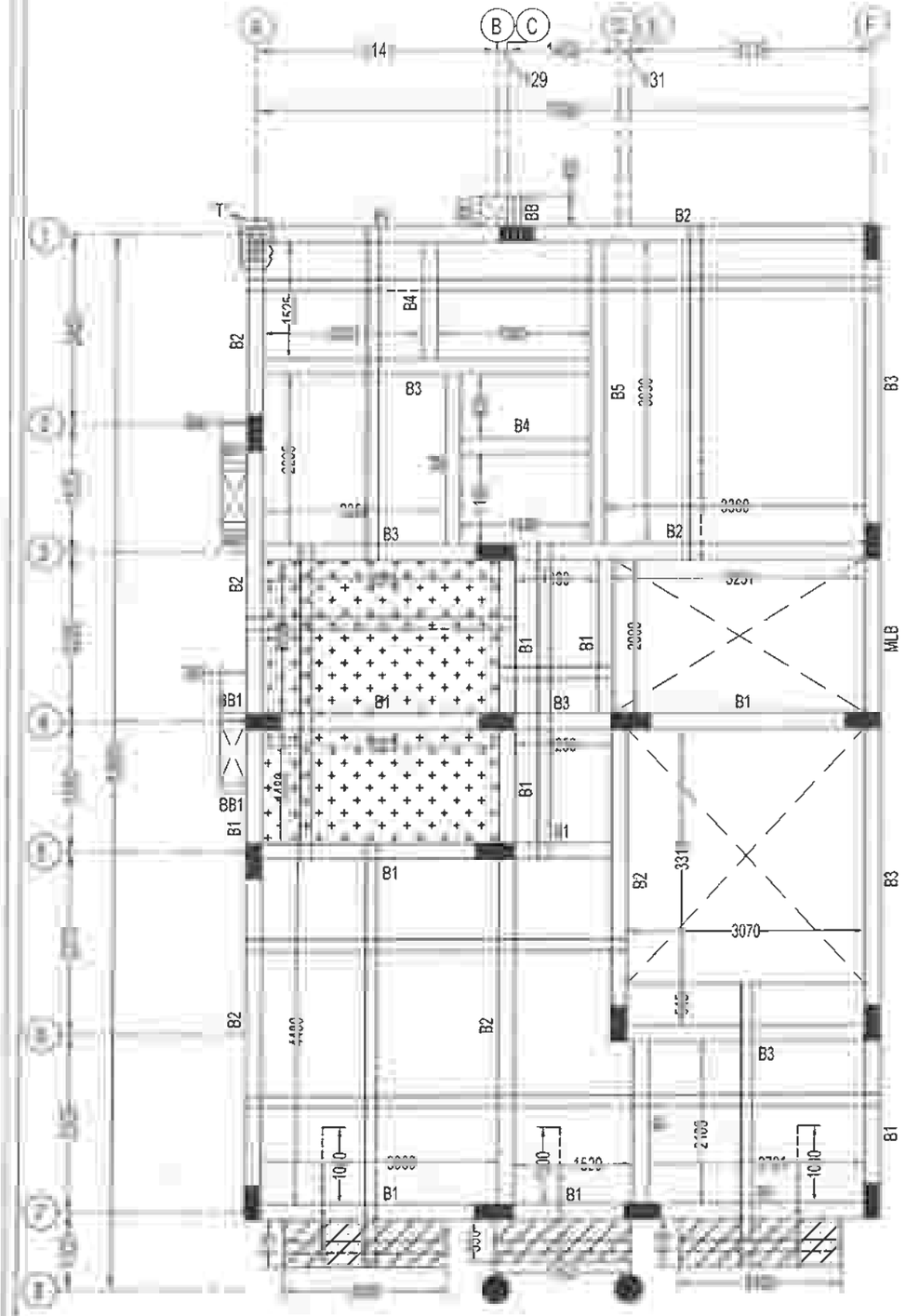
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117
CONTACT. : +91 9087725267
safestructurelchennai@gmail.com
Web. : www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

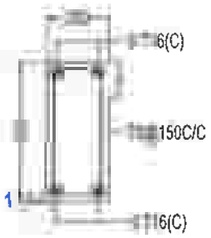
TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-17	05



GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

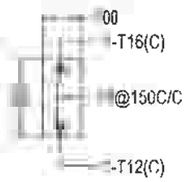
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	50C/C, T16(C), 6(C)	T16(C), 50C/C, 6(C)	6(C), 50C/C
(200 X 450) B2	6(C), 25C/C, 6(C)	T16(C), 6(C), 0@125C/C, 6(C)	6(C), 0@125C/C
(200 X 450) B3	0@150C/C, 6(C), 6(C)	T16(C), 0@150C/C	6(C), 0@150C/C
(200 X 450) B4	2(C), 50C/C, 6(C)	T12(C), 6(C)	2(C), 6(C)
(200 X 450) B5	25C/C, T16(C), T20(C)	T16(C), 0@125C/C, 6(C), T20(C)	T16(C), 0@125C/C, 6(C)



MLB - 200 X 450
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR



BB1 - 100 X 300
C/S DETAILS

LEGENDS

BB - BRACKET BEAM
- OPENING
- MLB - MID LANDING BEAM
- BALCONY SLAB SUNKEN
- TOILET SLAB SUNKEN
T - COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL
- TOP ROD
- BOTTOM ROD
THK - THICKNESS

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

GROUND FLOOR ROOF BEAM LAYOUT & SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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4. EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND
5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   ALL RCC MEMBERS IN M25 GRADE
7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
   A. COLUMNS = 40
   B. PILE = 40
   C. PILE CAP = 50
   D. TIE BEAM = 30
   E. PLINTH BEAM = 30
   F. ROOF BEAM = 30
   G. ROOF SLAB = 20
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS.
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(40 & 48)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

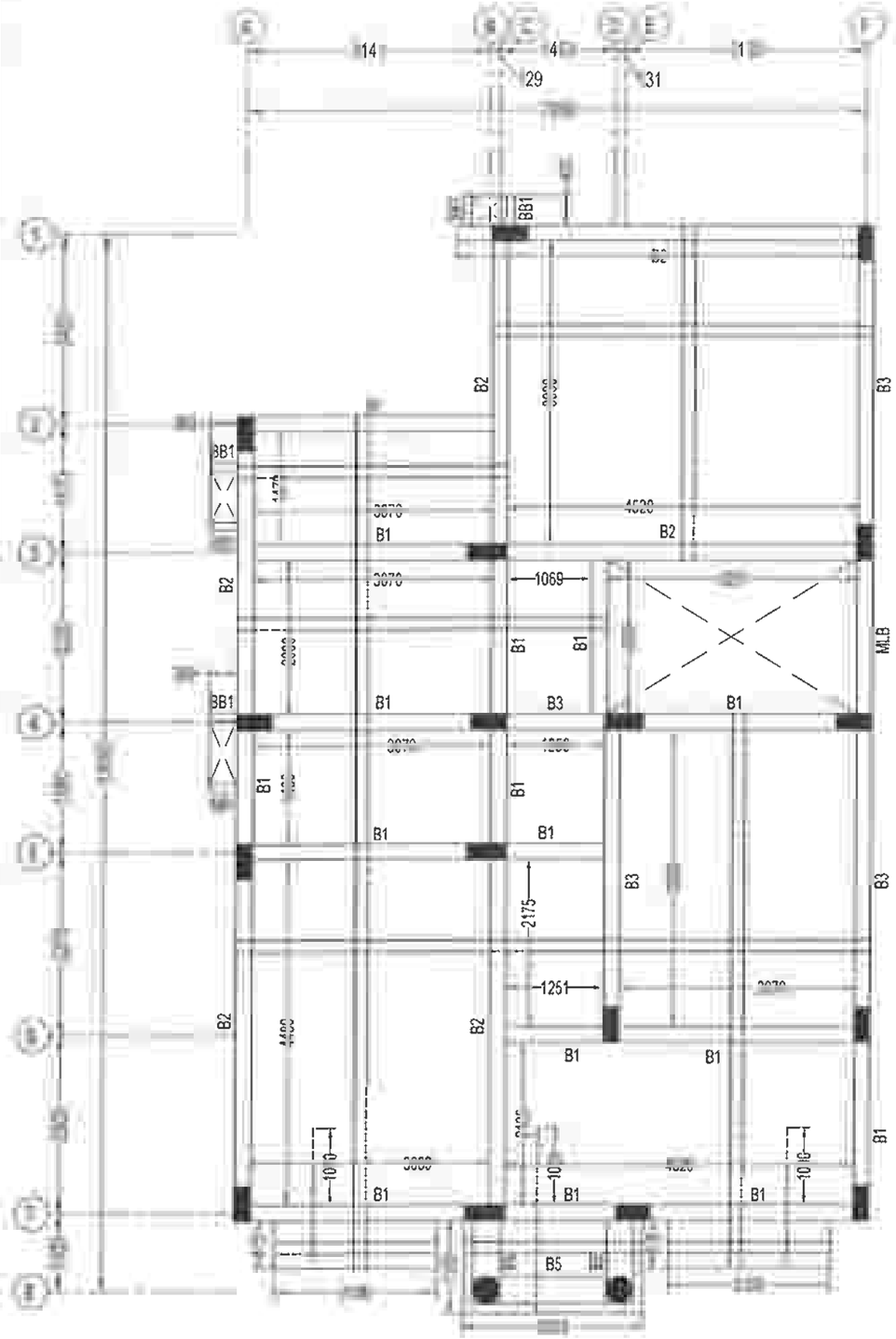
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DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT, DETAILS &

REV	DATE	PROJECT NO	SHEET.N
R0		ST-2026-06-17	06



NOTES:

ALL SLAB THICKNESS - 150

ALL SLAB RODS :-

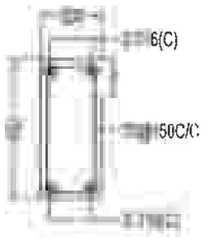
SHORTER SPAN - T10@150C/C

LONGER SPAN - T8@150C/C

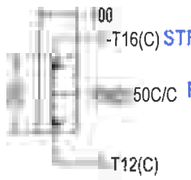
TERRACE BEAM LAYOUT & SLAB LAYOUT & DETAILS

TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	6(C) … 6(C)	6(C) …	T16(C) … 50C/C … 6(C)
(200 X 450) B2	T16(C) … T16(C) … T20(C)	T16(C) … 6(C) … 25C/C … 6(C)	T16(C) … T16(C) … T20(C)
(200 X 450) B3	6(C) … 0@150C/C … 6(C)	6(C) … 0@150C/C	6(C) … 0@150C/C … 6(C)
(200 X 450) B4	… 50C/C …	T12(C) … 50C/C … T16(C)	… 50C/C
(350 X 450) B5	6(C) …	T16(C) … 50C/C … 6(C)	T16(C) … 0@150C/C … T16(C)



MLB - 200 X 450
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS

B8 BEAM
- OPENING
- MLB - MID LANDING BEAM
- TOP ROD
- BOTTOM ROD
THK - THICKNESS

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  ALL RCC MEMBERS IN M25 GRADE
- "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT.
  - A COLUMNS = 40
  - B PILE = 40
  - C. PILE CAP = 50
  - D TIE BEAM = 30
  - E PLINTH BEAM = 30
  - F ROOF BEAM = 30
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- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS
- ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.
- LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(40 & 48)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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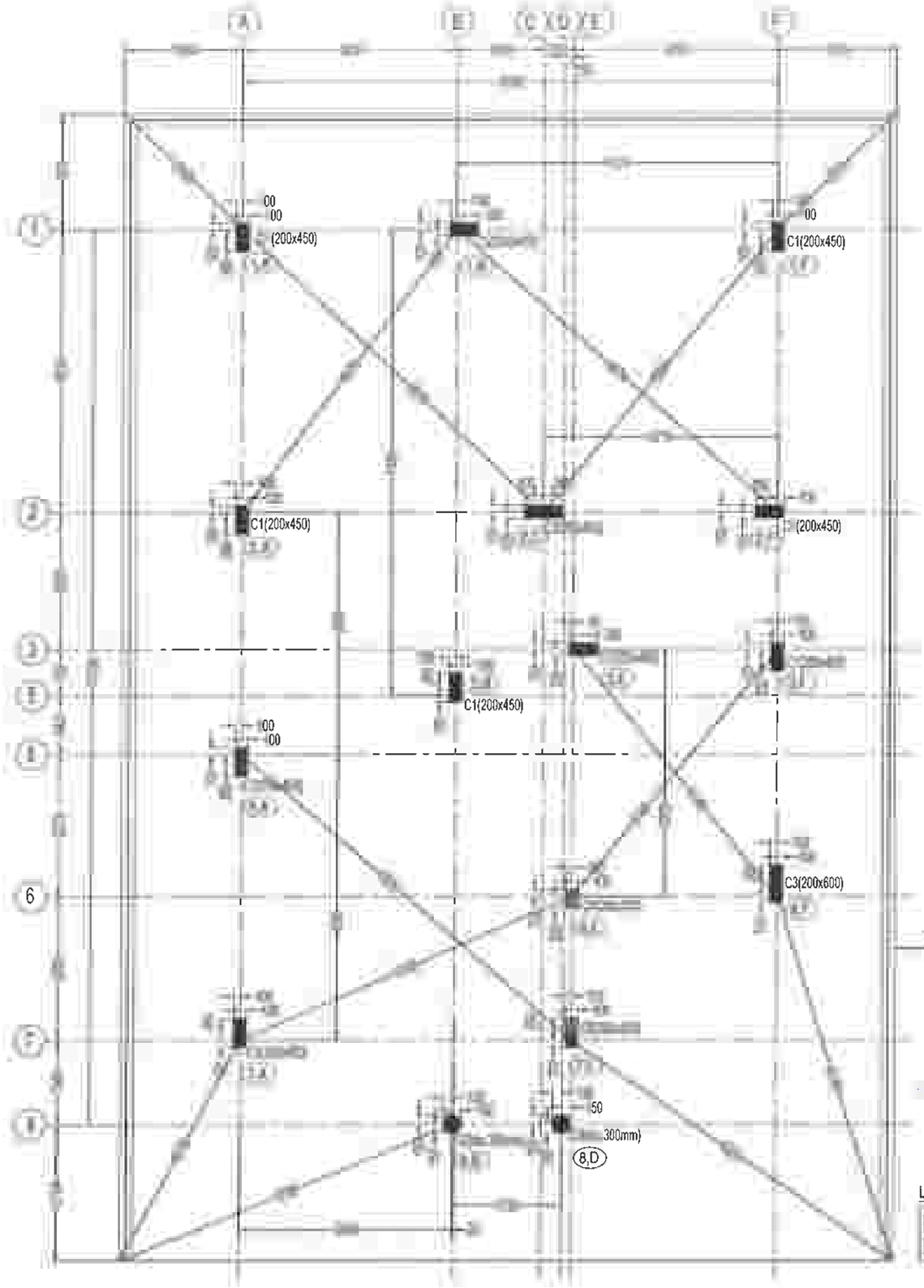
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (
Reg. No - S

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-17	07



COLUMN MARKING LAYOUT

NAME OF COLUMN	NUMBERS OF COLUMN
C1	09
C2	01
C3	02
C4	01
C5	01
C6	02
TOTAL:	16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (CII)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:
- CONTINUOUS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF LEVEL

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25(1:1:2) GRADE

"Φ" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

A. COLUMNS = 1½"
B PILE = 2"
C PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F ROOF BEAM = 1"
G. ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDA

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR REINFORCEMENT

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LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

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PROJECT

ADITYARAM PALACE CITY,(VILLA 42)
AT ECR, CHENNAI.

ARCHITECT

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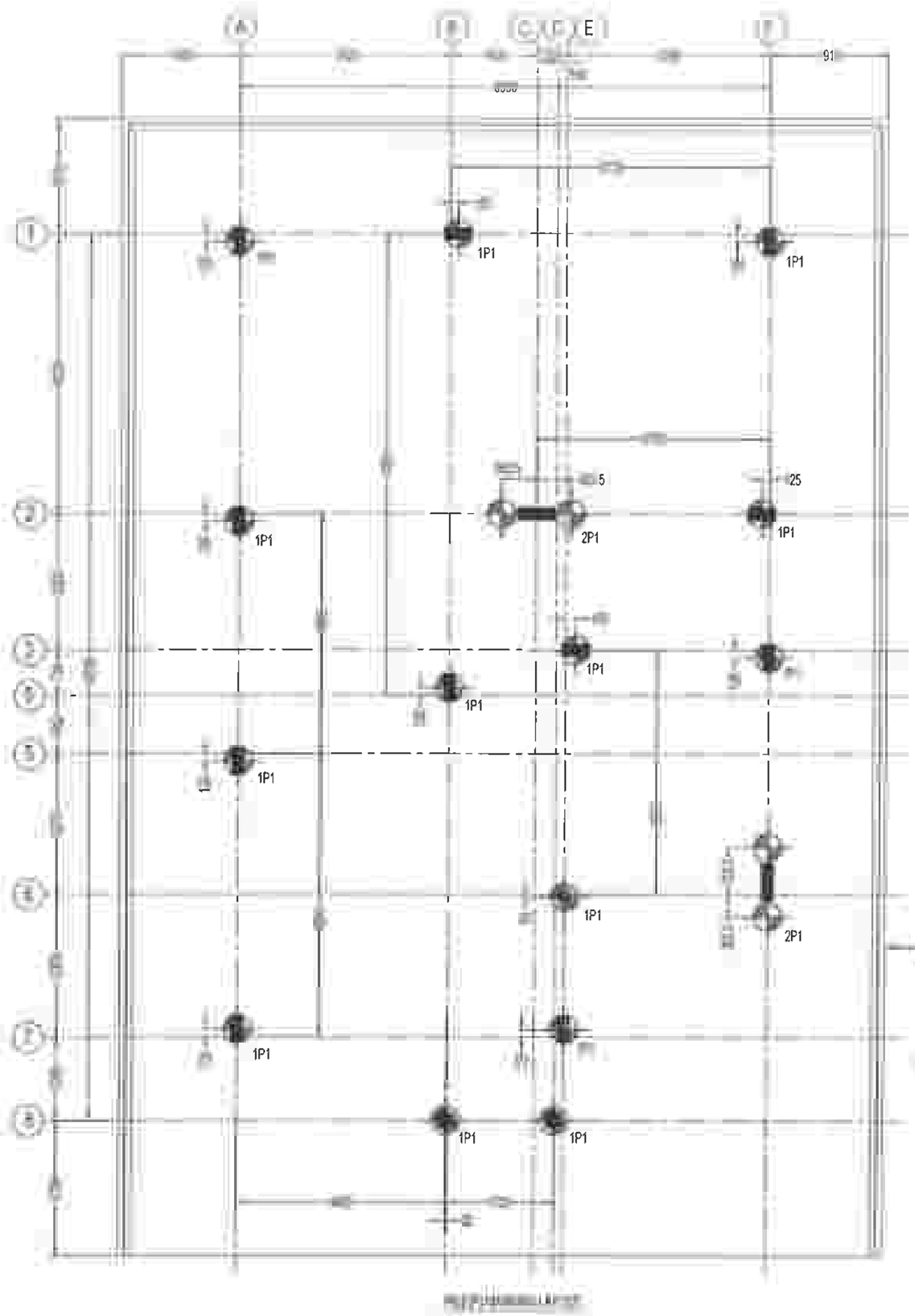
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DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
SHEET	A3	☑ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET
R0	15/11	ST-2025-09-11	01



LEGENDS:

PILE (450Ø)

NOTE:

NO.OF PILE - 18 NOS

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25(1:1:2) GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

- A. COLUMNS = 1½"
- B PILE = 2"
- C PILE CAP = 2"
- D. TIE BEAM = 1"
- E. PLINTH BEAM = 1"
- F ROOF BEAM = 1"
- G ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR

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LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

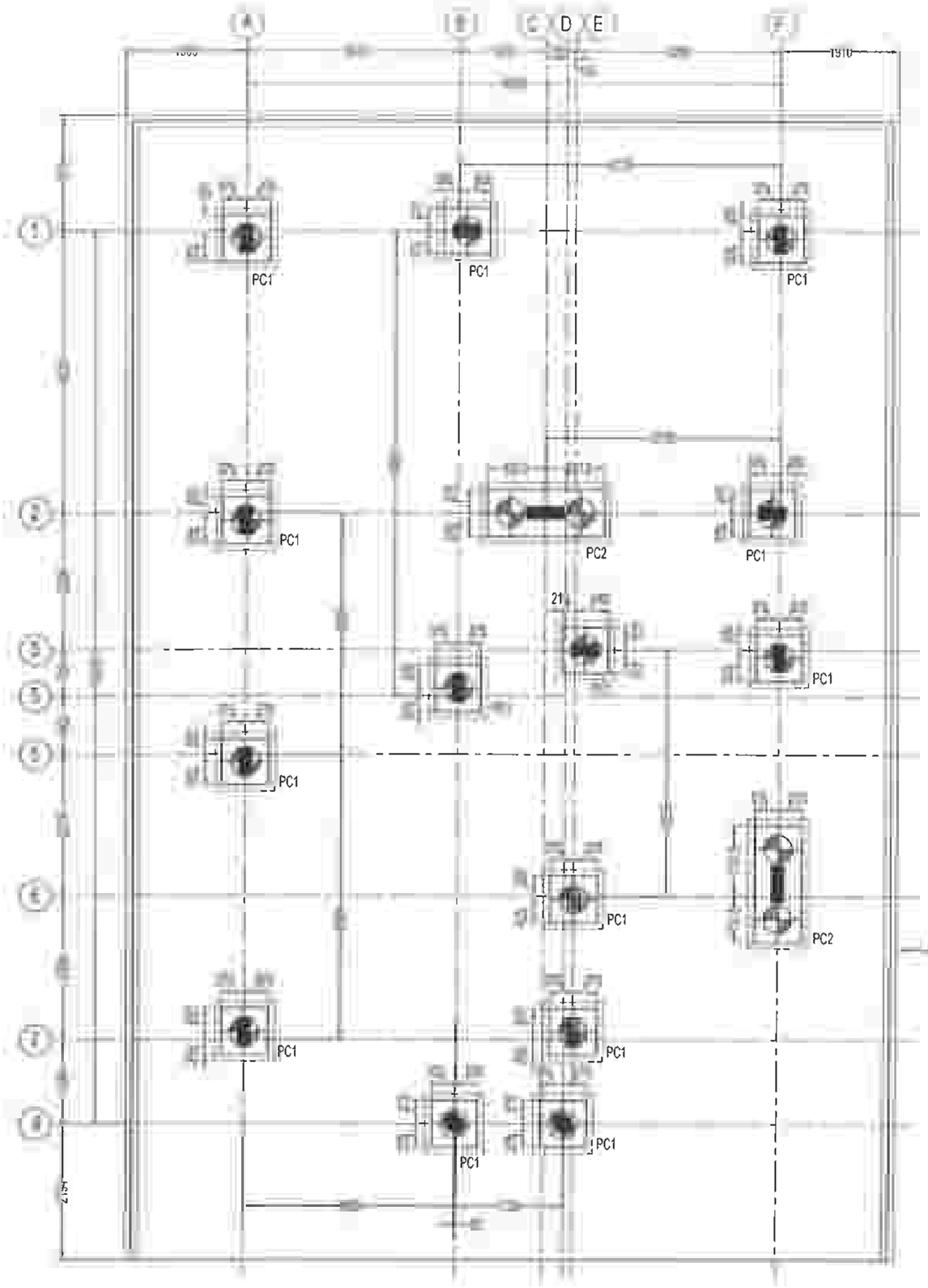
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
SHEET	A3	☑ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	5/11/202	ST-2025-09-11	02



PILE CAP(PC) MARKING LAYOUT

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6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25(1:1:2) GRADE
8. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
9. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 1½"
   - B. PILE = 2"
   - C. PILE CAP = 2"
   - D. TIE BEAM = 1"
   - E. PLINTH BEAM = 1"
   - F. ROOF BEAM = 1"
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10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

LEGENDS:

P - PILE
PC - PILE CAP

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

CLIENT

PROJECT

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ARCHITECT

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STRUCTURAL CONSULTANT

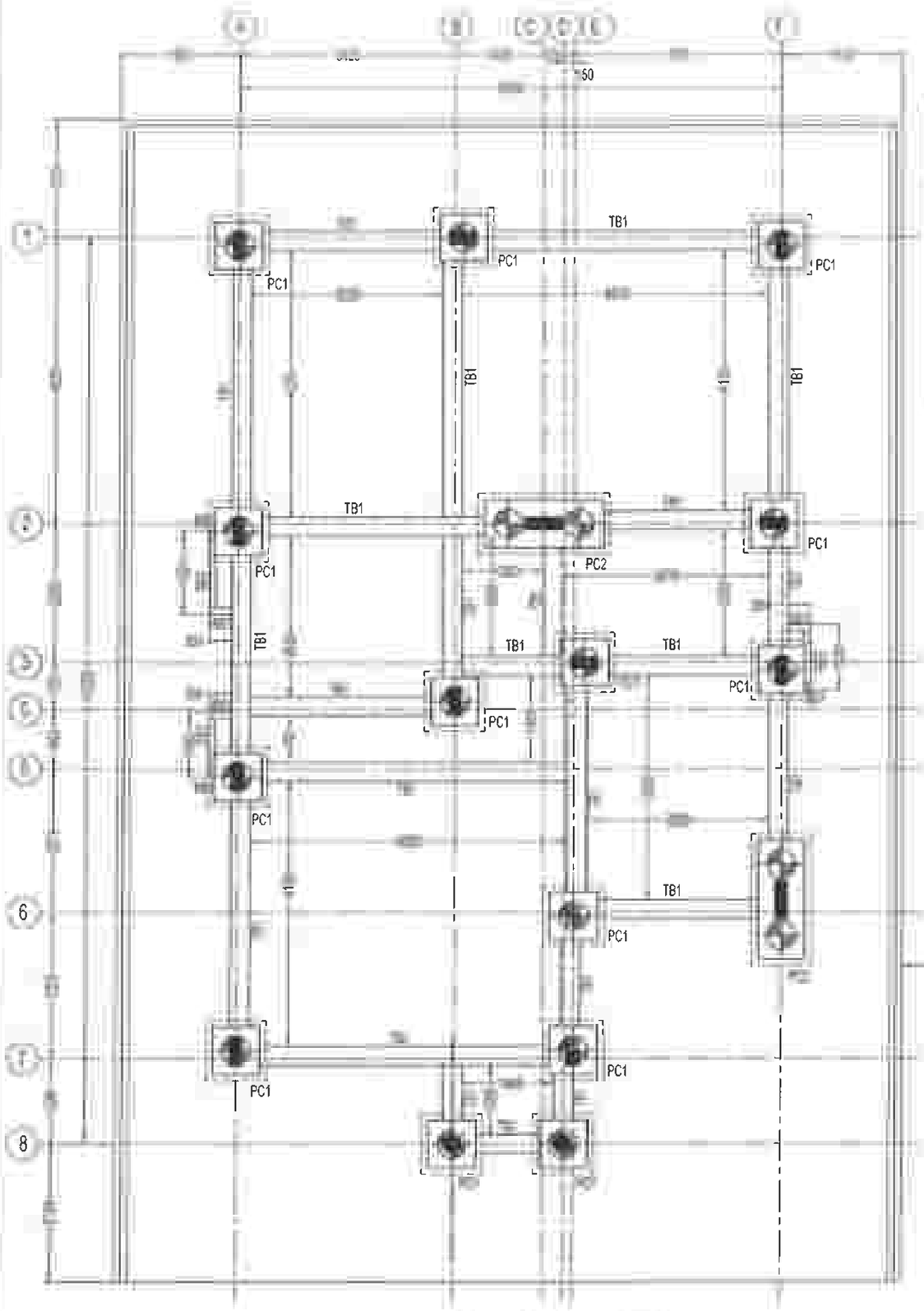
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
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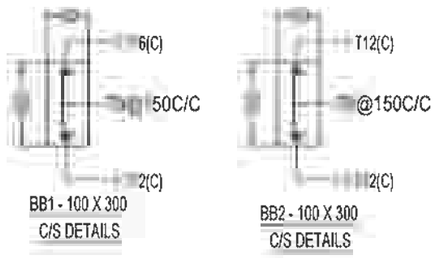
PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	5/11	ST-2025-09-11	03



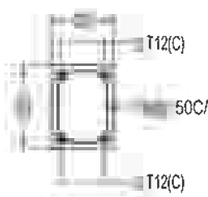
TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	6(C), 50C/C, 12(C) S.F.R/E.F, C.C, 6(C)	T16(C), 50C/C, T12(C) S.F.R/E.F, C.C, T16(C)	6(C), 50C/C, T12(C) S.F R/E.F, C.C, 6(C)

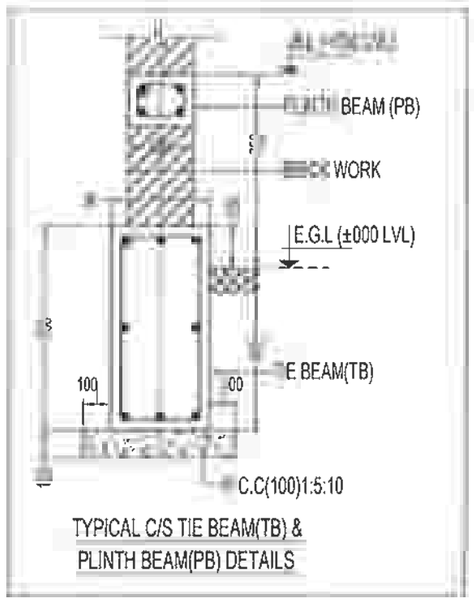


BB1 - 100 X 300
C/S DETAILS

BB2 - 100 X 300
C/S DETAILS



PB1 - 200 X 300
C/S DETAILS



TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

LEGENDS:

P - PILE
TB - TIE BEAM
PC - PILE CAP

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 42)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
SHEET	A3	☑ CONSTRUCTION

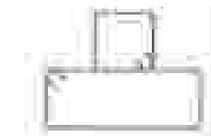
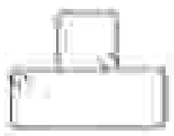
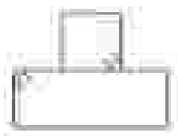
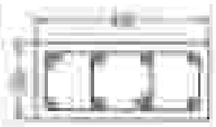
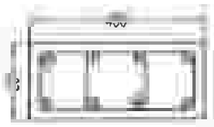
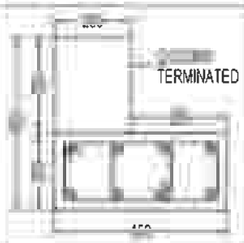
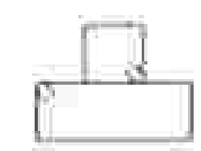
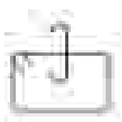
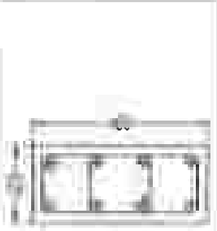
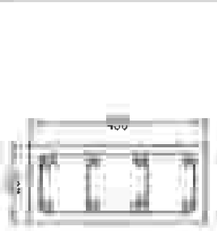
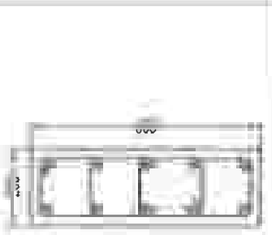
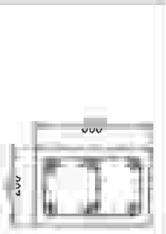
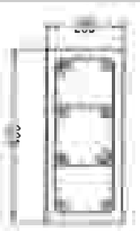
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	5/11	ST-2025-09-11	04

R [illegible] DE - 1 (SE)
[illegible] STRUCTURAL [illegible] Engg)
M.E. [illegible]
Reg. [illegible]

COLUMN REINFORCEMENT SCHEDULE

TERRACE LEVEL TO GROUND FLOOR ROOF LEVEL						
	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C		H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C
						
	4-T16 + 4-T12	8-T16	8-T16 + 2-T12		8-T16	6-T16
GROUND FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙ - T16 ⊕ - T12						
	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C	H₀=T8@125C/C H₁=T8@175C/C
						
	4-T16 + 4-T12	8-T16	8-T16 + 2-T12	6-T12	8-T16	6-T16
COLUMN MARKED	C1	C2	C3	C4	C5	C6

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSUL[illegible]
Safe Structural Consultancy
NEW NO [illegible] D NO 2/1466, 200 FEET ROAD,
EACHAN[illegible] NNA NAGAR, KOVILAMBAKKAM,
CHENNA[illegible] 7.
[illegible]7
[illegible].com
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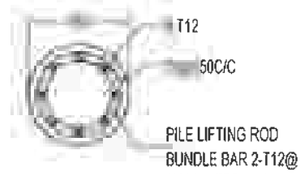
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

DESIGNED	RK	RELEASED FOR	
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SCALE	1:100	☐	APPROVAL
SHEET	A3	☑	CONSTRUCTION

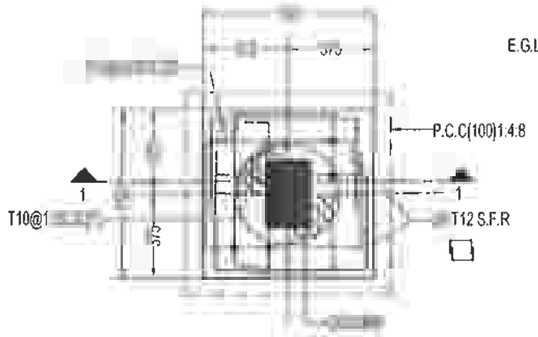
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COLUMN REINFORCEMENT DETAILS

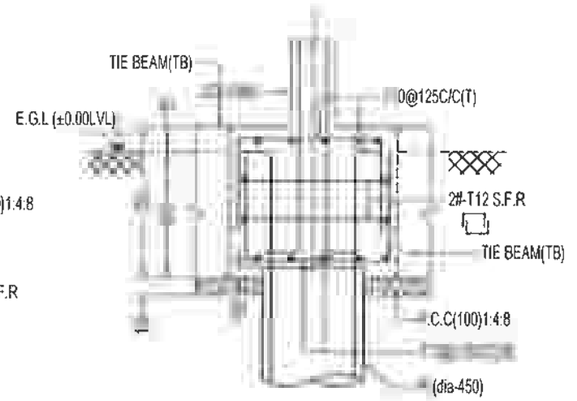
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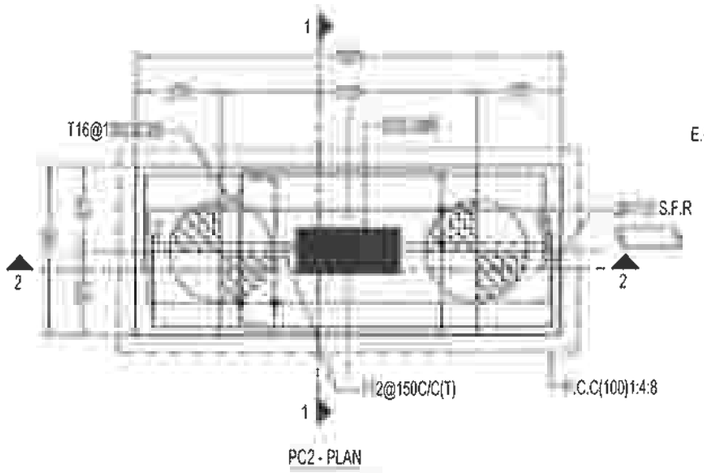
PILE (P1) - PLAN



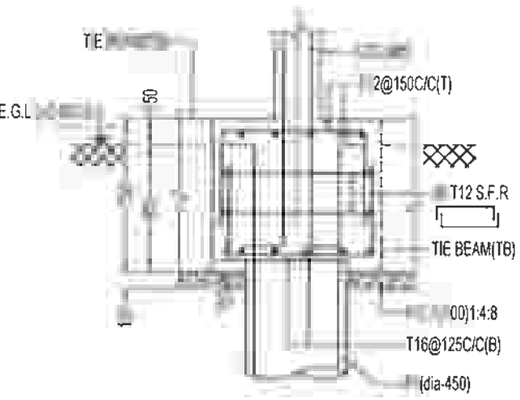
PC1 - PLAN



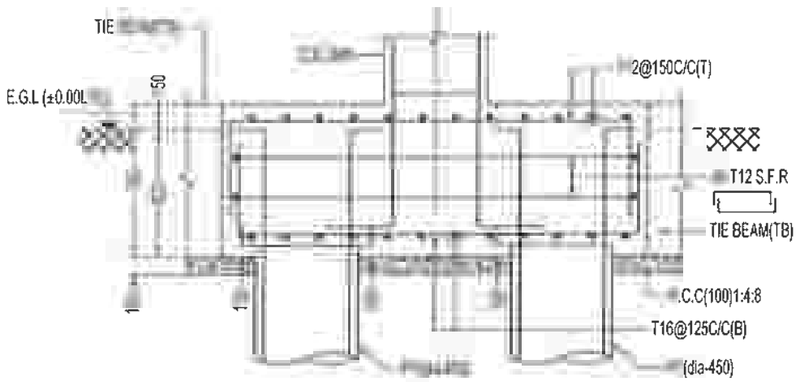
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



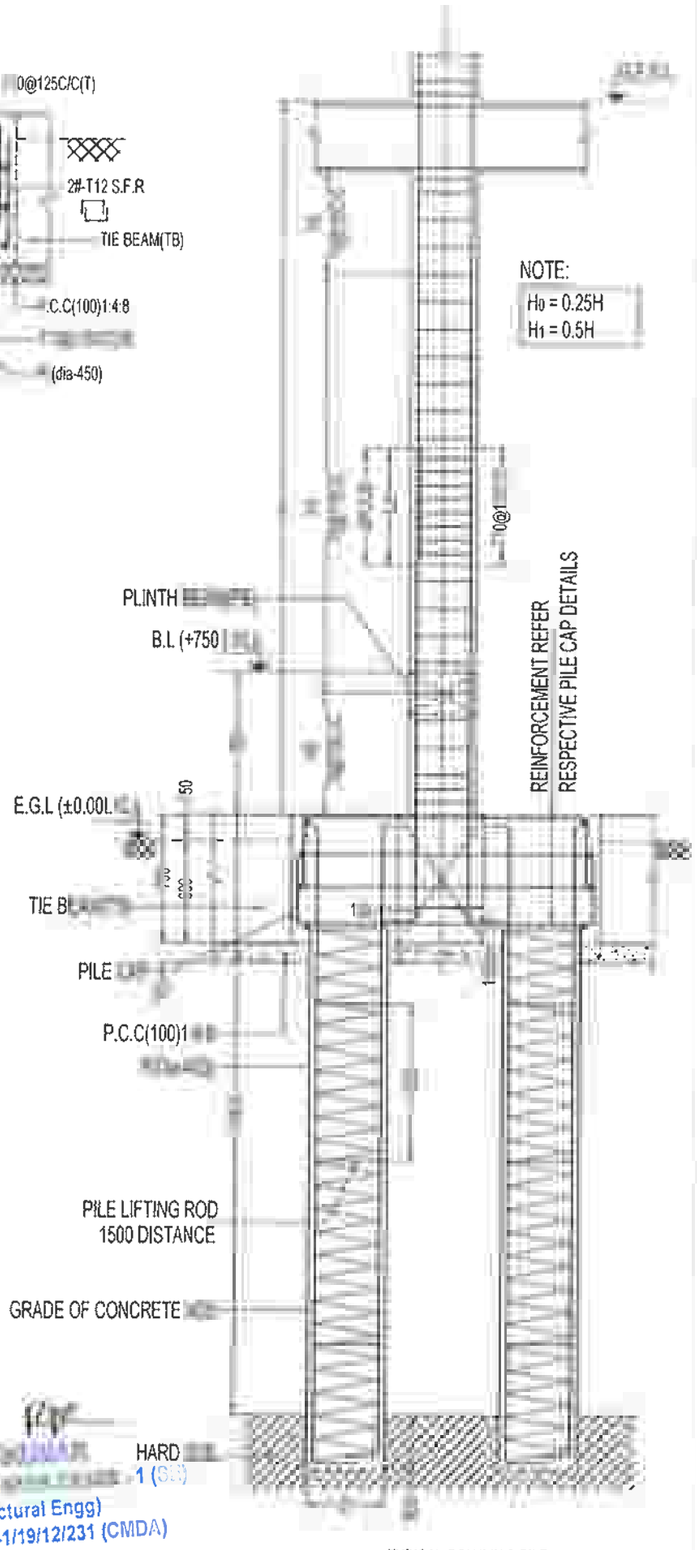
SECTION - 2 - 2

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



TYPICAL COLUMN & PILE
CONFINING DETAILS

R. RAV
RUCTURAL ENGI
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

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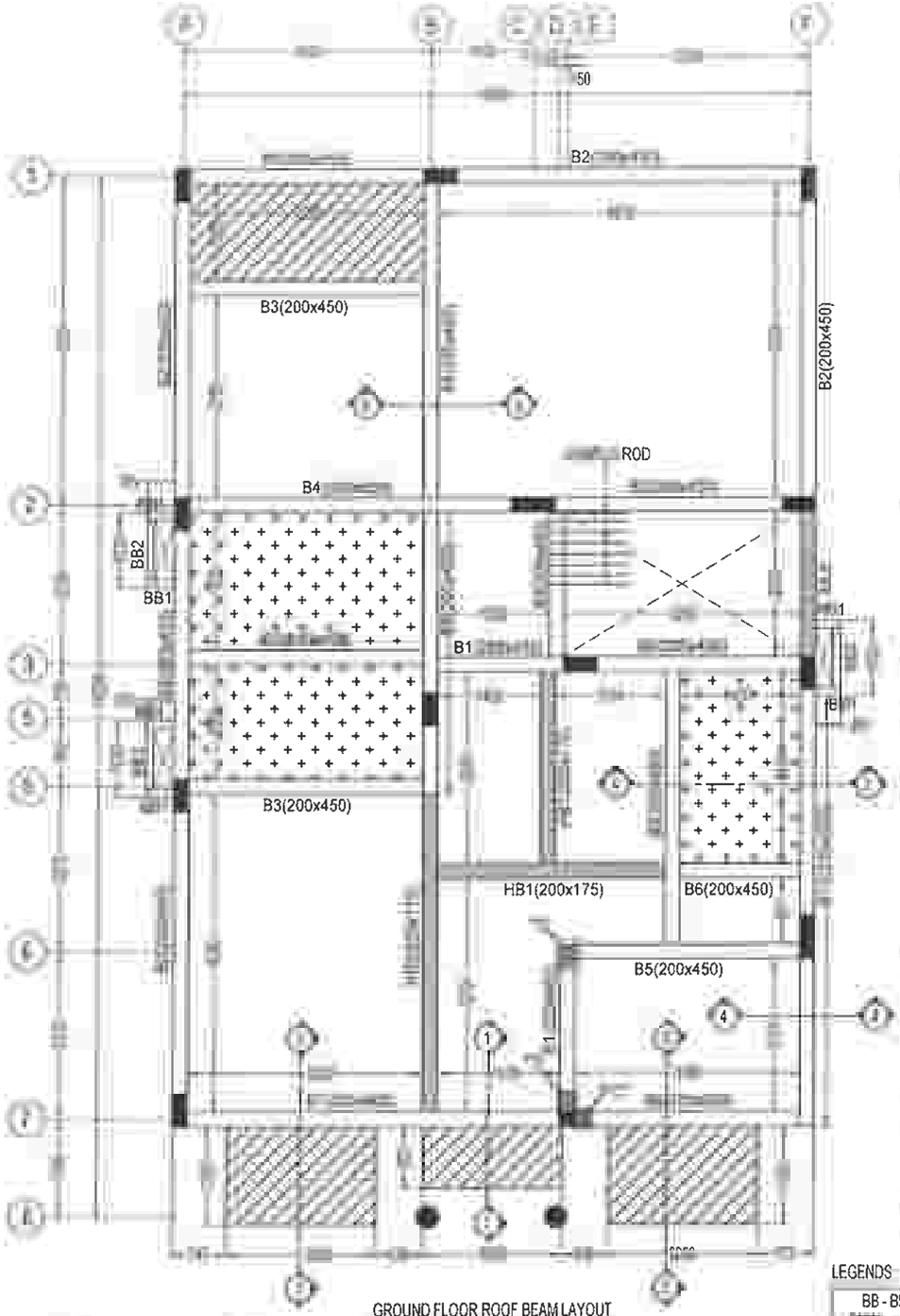
SAFE STRUCTURAL CONSUL
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

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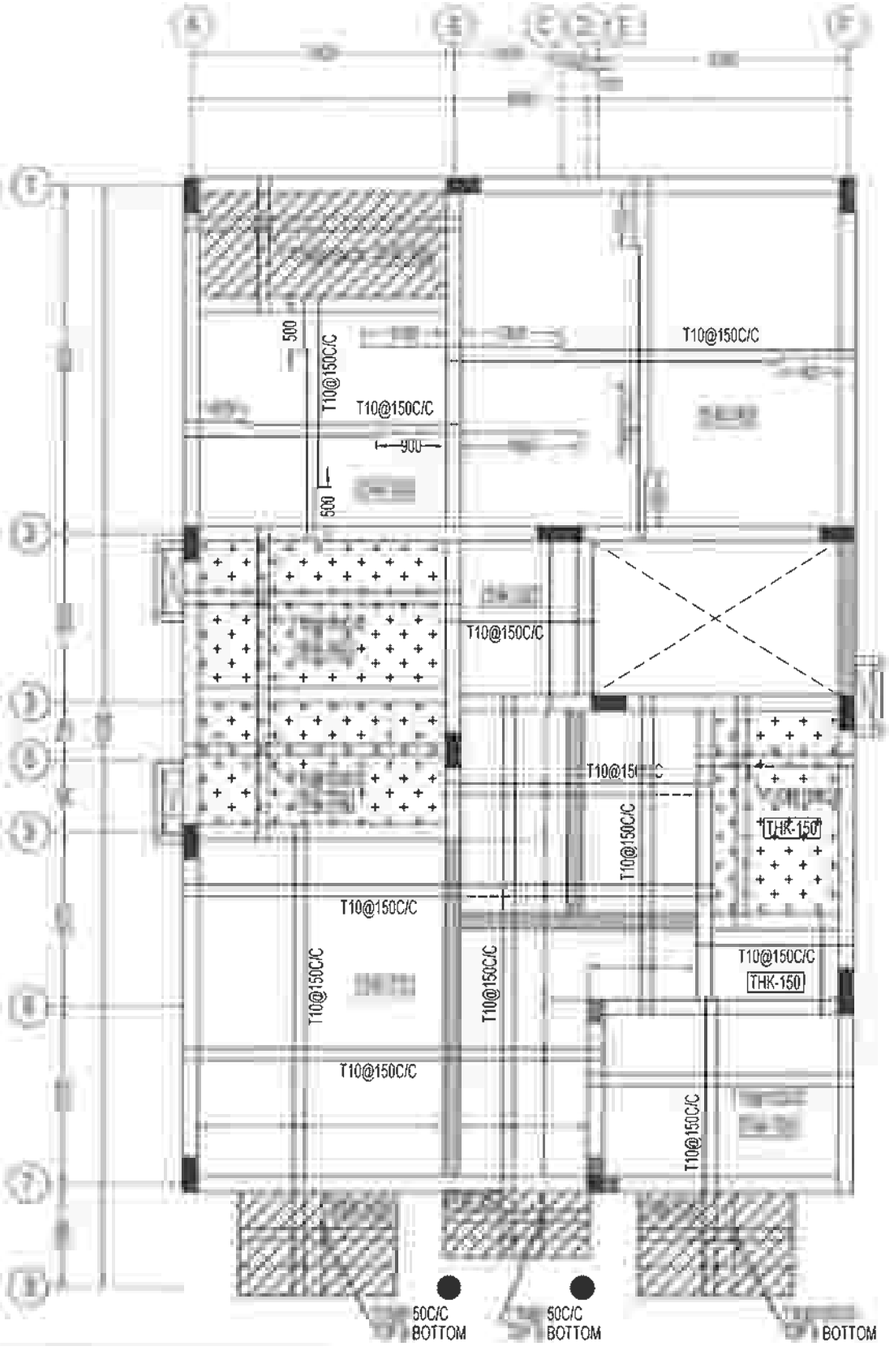
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PILE , PILE CAP SECTION & TIE BEAM (TB) DETAILS

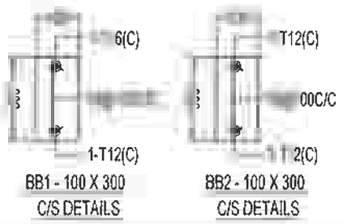
REV	DATE	PROJECT NO	SHEET.N
R0	5/11	ST-2025-09-11	06



GROUND FLOOR ROOF BEAM LAYOUT



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS



BB1 - 100 X 300 C/S DETAILS

BB2 - 100 X 300 C/S DETAILS

LEGENDS

- BB - BRACKET BEAM
- FC - FLOATING COLUMN
- T - COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN

LEGENDS:

- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

R. RAVIKUMAR
RAL ENGINEER GRADE - 1 (CE)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

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NEW NO [illegible] D [illegible] 200 FEET ROAD,
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CHENNA [illegible] 7
Safe
Structural Consultancy
CT. : + [illegible] 7
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www [illegible] ralconsultancy.com

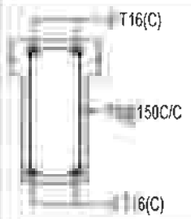
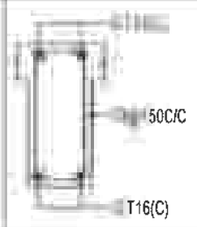
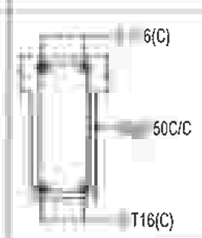
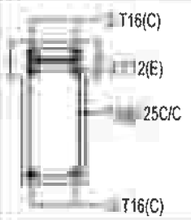
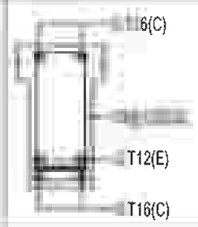
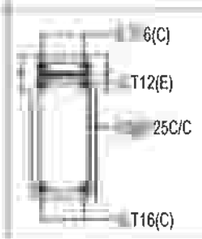
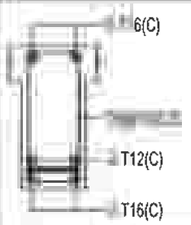
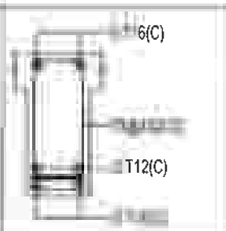
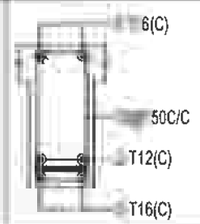
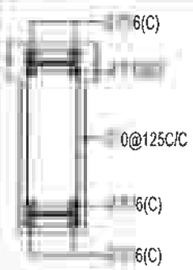
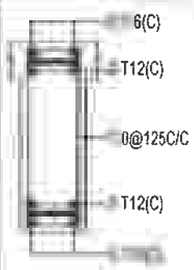
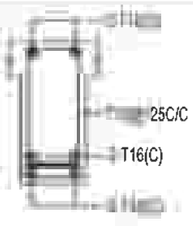
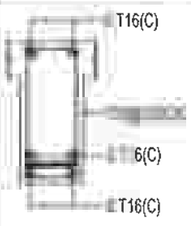
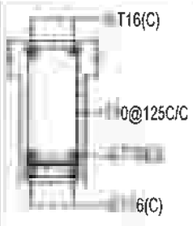
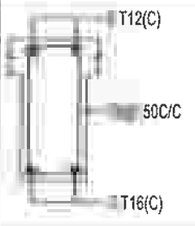
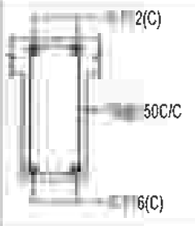
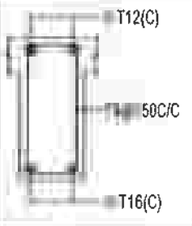
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DETAILED	MV	☐	TENDER
SCALE	1:100	☐	APPROVAL
SHEET	A3	☑	CONSTRUCTION

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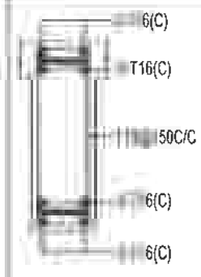
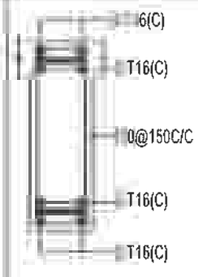
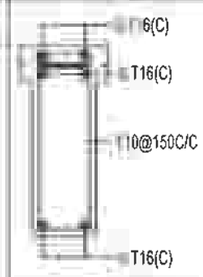
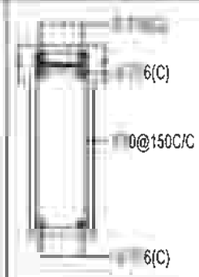
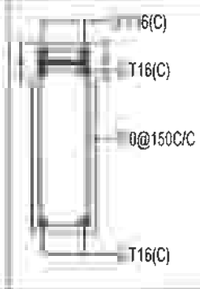
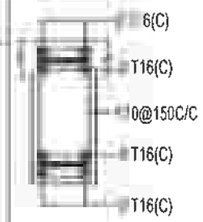
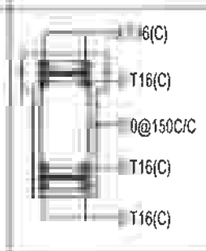
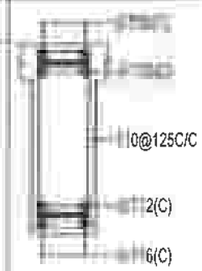
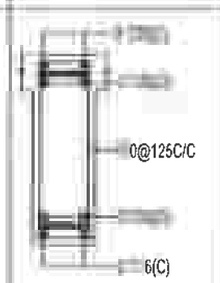
GROUND FLOOR ROOF BEAM LAYOUT & SLAB DETAILS

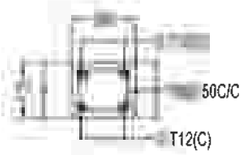
REV	DATE	OJECT NO	SHEET.NO
R0	5/11 [illegible]	ST-2025-09-11	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 600) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B7				
(200 X 600) B8				
(200 X 450) B9				
(200 X 600) B10				



HB1 - 200x175
C/S DETAILS



HB2 - 200x175
C/S DETAILS

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 42)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

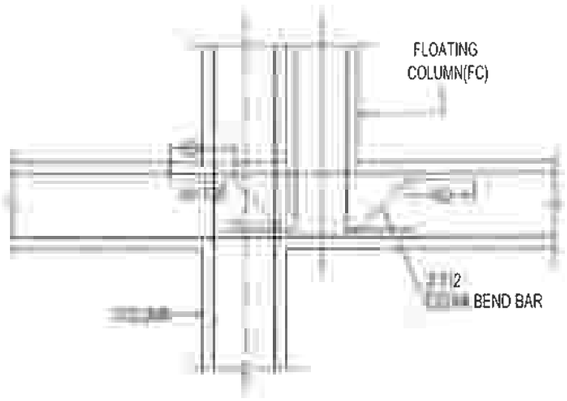
SAFE STRUCTURAL CONSULTANCY

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DETAILED	MV	☐	TENDER
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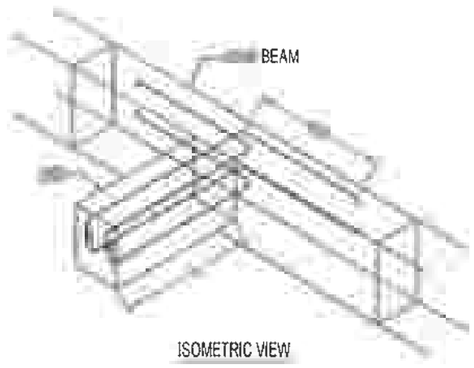
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GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
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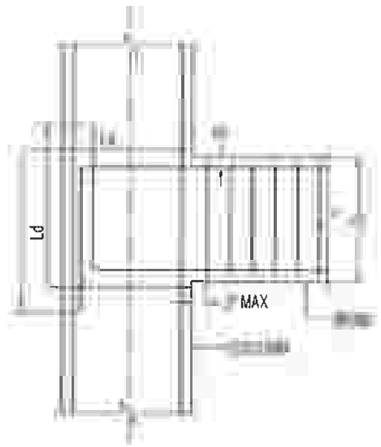


TYPICAL FLOATING COLUMN DETAILS



ISOMETRIC VIEW

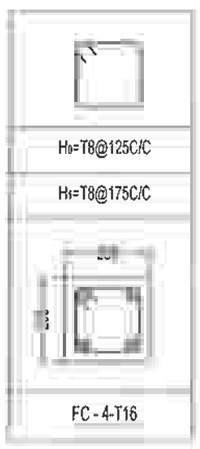
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL

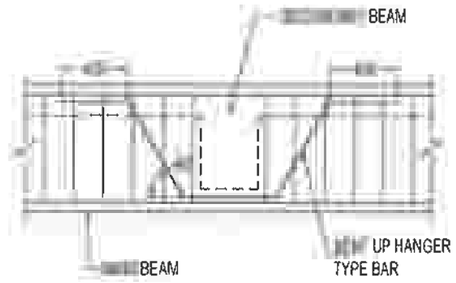


TYPICAL EXTERNAL JOINT DETAILS AT

BEAM COLUMN JUNCTION

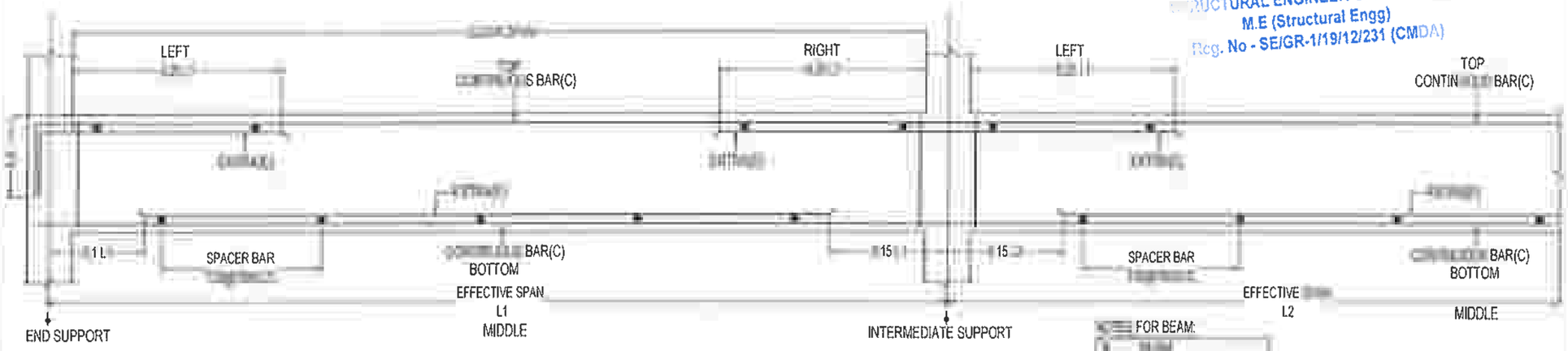
(Ld-45 Times of dia Bar)





WHERE CROSS BEAM SHEAR ROD SHOULD BE

PROVIDED AT 2-T16



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

FOR BEAM:

C - CONTINUOUS BAR

E - EXTRA BAR

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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STRUCTURAL CONSULTANT

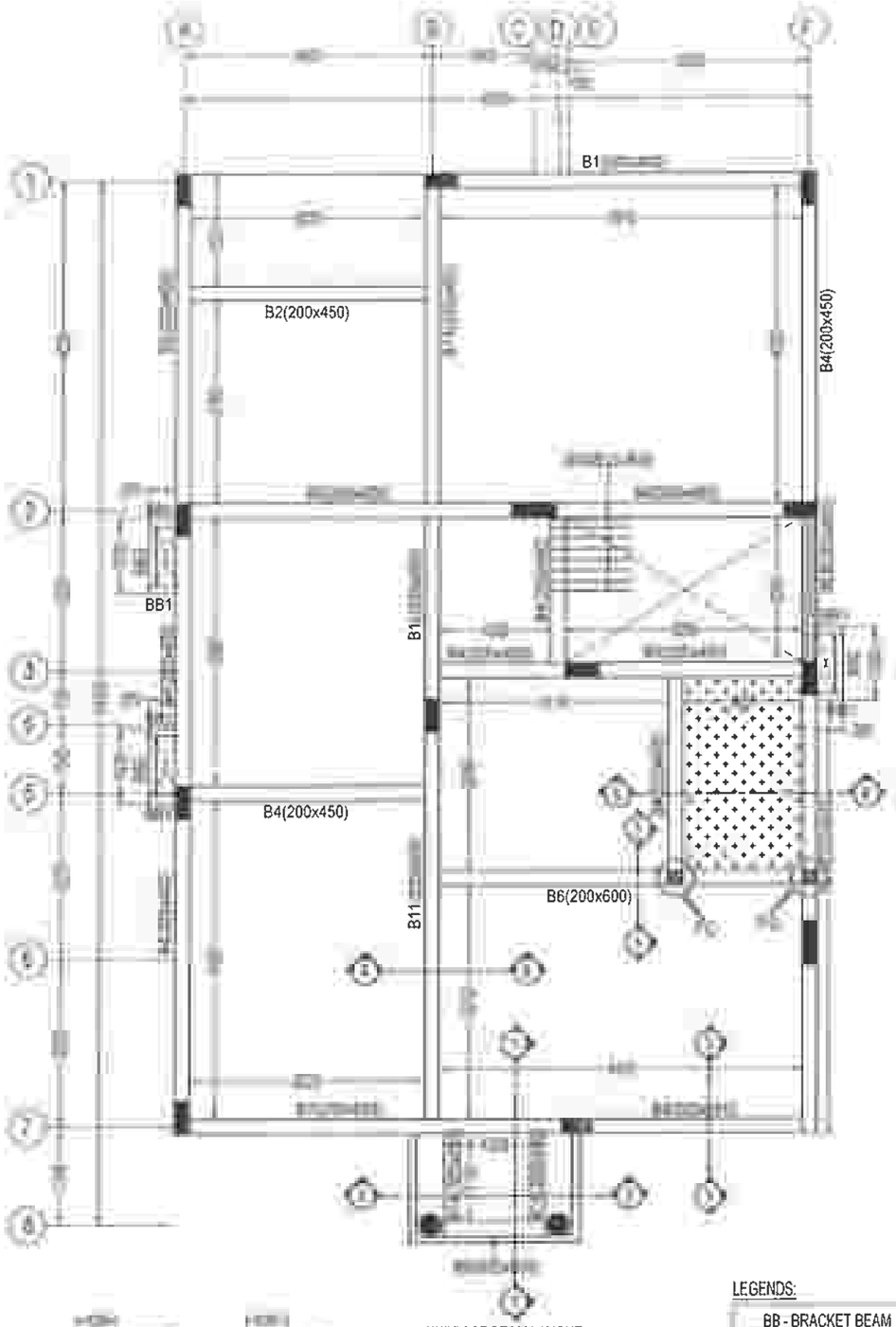
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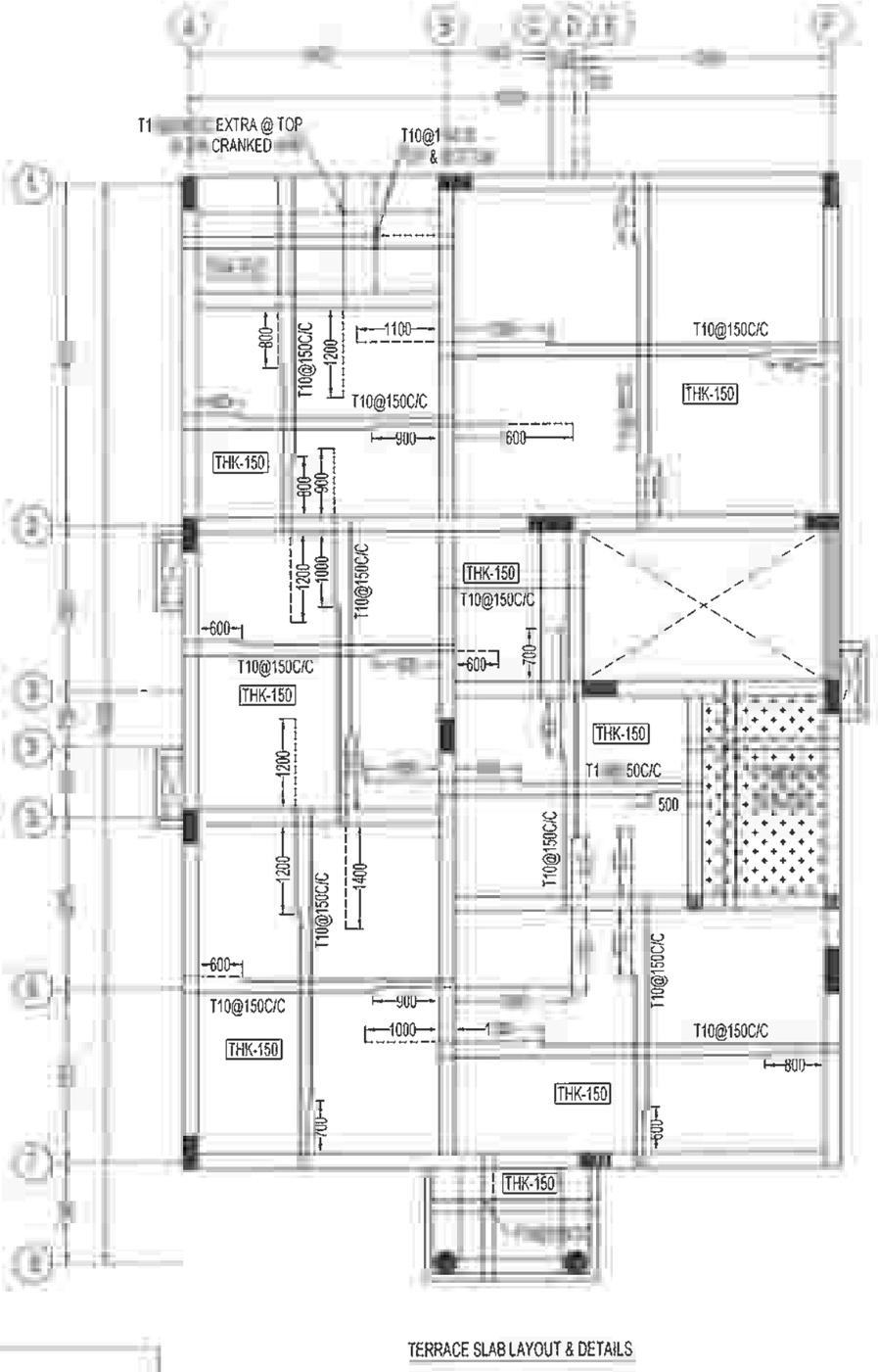
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GROUND FLOOR ROOF BEAM DETAILS - 2

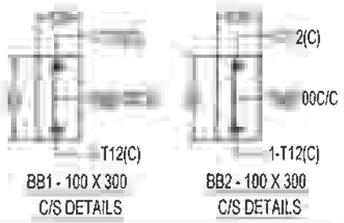
REV	DATE	PROJECT NO	SHEET.NO
R0	5/11/202	ST-2025-09-11	09



TERRACE BEAM LAYOUT



TERRACE SLAB LAYOUT & DETAILS



BB1 - 100 X 300 C/S DETAILS

BB2 - 100 X 300 C/S DETAILS

LEGENDS:

BB - BRACKET BEAM
FC - FLOATING COLUMN
OPENING
MLB - MID LANDING BEAM
300mm TOILET SLAB SUNKEN

TOP ROD
BOTTOM ROD
THK - THICKNESS

R. RAVIK
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ADITYARAM GROUP

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SAFE STRUCTURAL CONSULTANCY
Safe Structural Consultancy
NEW NO D NO 2/1466, 200 FEET ROAD, EACHAN NNA NAGAR, KOVILAMBAKKAM, CHENNA 7.
7
com
ralconsultancy.com

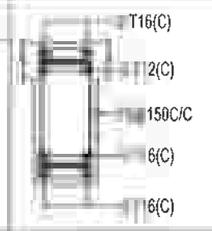
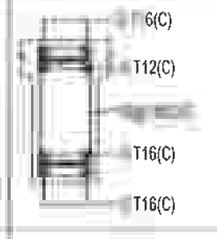
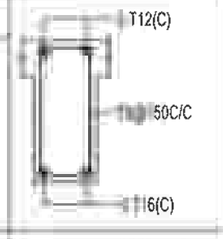
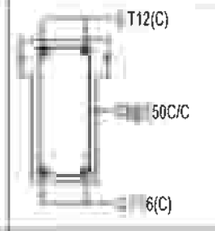
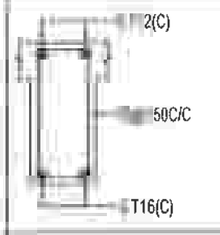
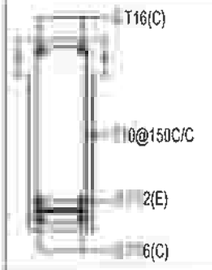
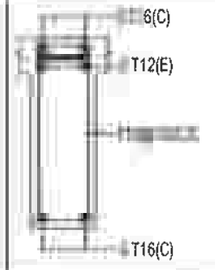
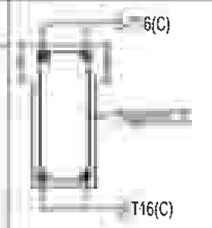
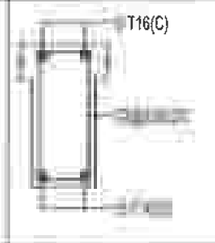
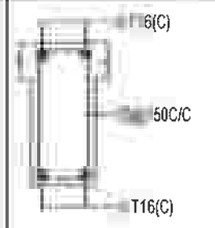
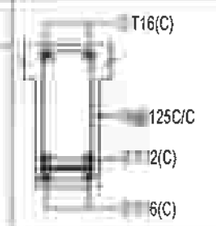
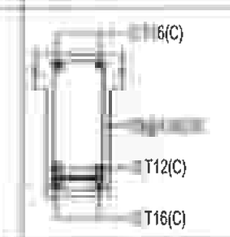
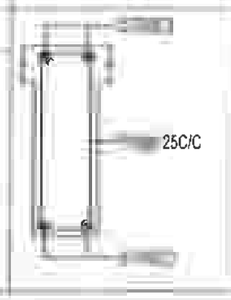
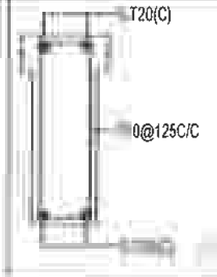
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DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
SHEET	A3	☑ CONSTRUCTION

DRAWING NAME

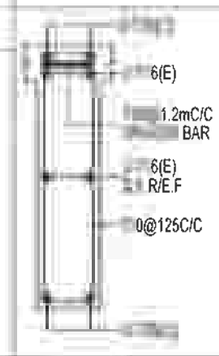
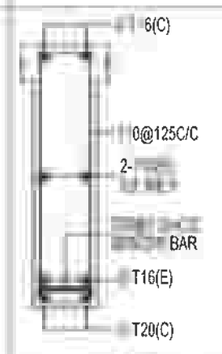
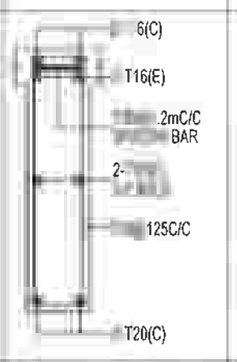
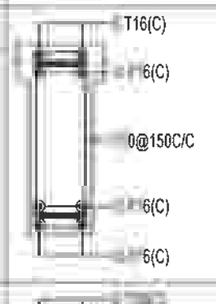
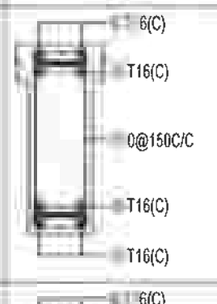
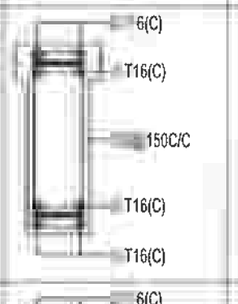
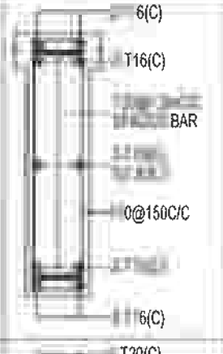
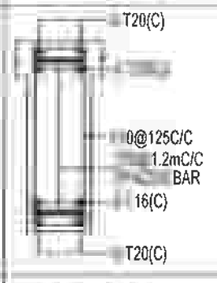
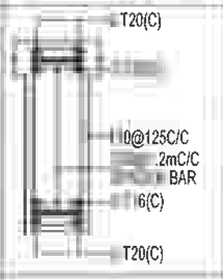
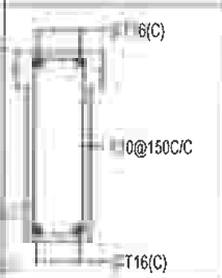
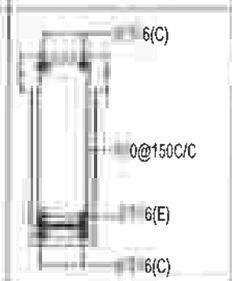
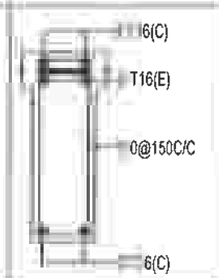
TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	5/11/202	ST-2025-09-11	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 600) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 600) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 830) B7				
(200 X 600) B8				
(200 X 830) B9				
(200 X 600) B10				
(200 X 600) B11				

R [illegible] AR
GRADE - 1
M.E [illegible] Engg)
2/231

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 42)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR	
DETAILED	MV	☐	TENDER
SCALE	1:100	☐	APPROVAL
SHEET	A3	☑	CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

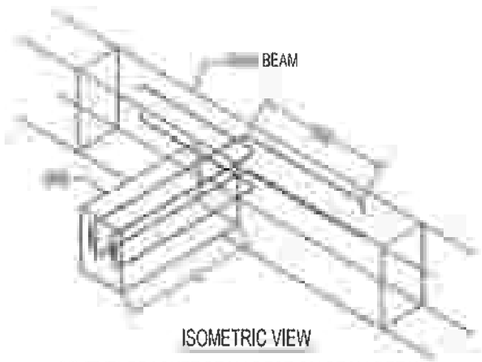
REV	DATE	PROJECT NO	SHEET.NO
R0	5/11	ST-2025-09-11	11

TERRACE BEAM REINFORCEMENT SCHEDULE:

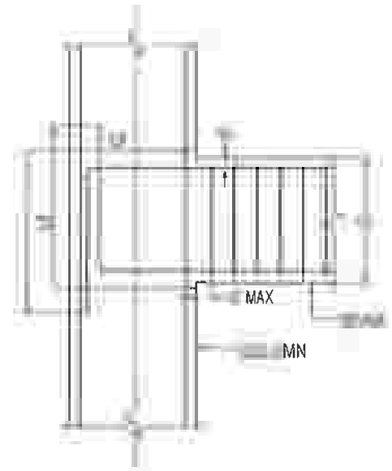
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B12	6(C), T16(C), 25C/C, T16(C)	T16(C), 25C/C, T16(C)	T16(C), 16(C), 25C/C, T16(C)	
(200 X 450) B13	T16(C), 0@150C/C, T16(C), T16(C)	T16(C), 0@150C/C	6(C), 0@150C/C, 6(C), 6(C)	

TERRACE BEAM REINFORCEMENT SCHEDULE:

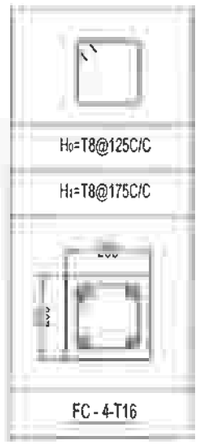
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 830) B14	T16(C), 6(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, T16(C), 6(C)	T16(C), SPACER BAR, 4#-T12 S.F.R/E.F, 0@150C/C, 6(C)	T16(C), 500C/C SPACER BAR, 4#-T12 S.F.R/E.F, T16(C), T16(C)

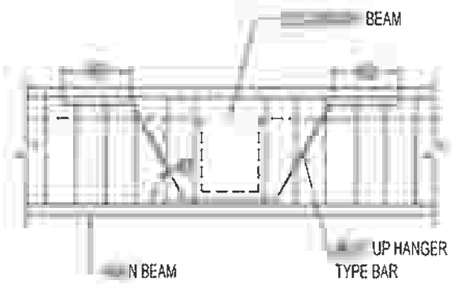


ISOMETRIC VIEW
OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



TYPICAL EXTERNAL JOINT DETAILS AT
BEAM COLUMN JUNCTION
(Ld-45 Times of dia Bar)



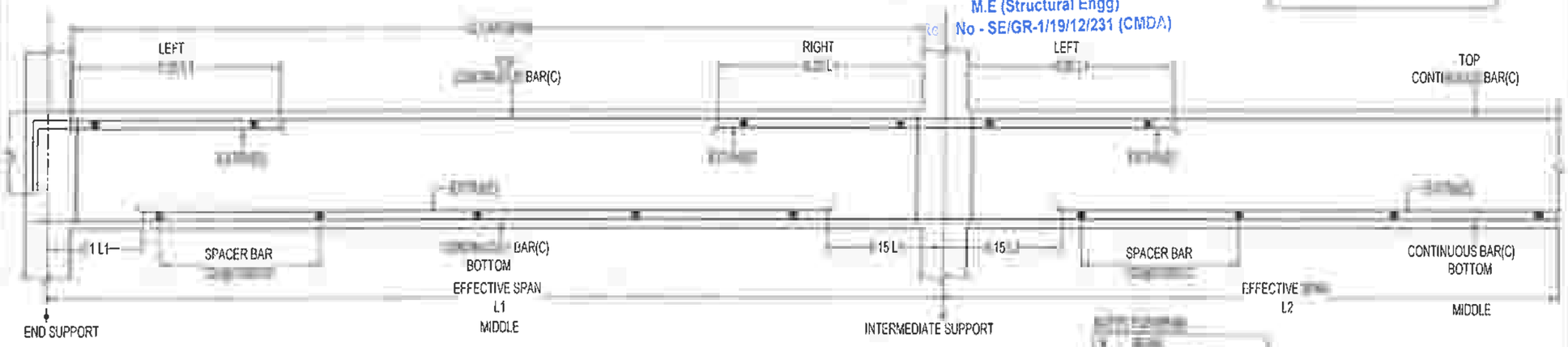


WHERE CROSS BEAM SHEAR ROD SHOULD BE
PROVIDED AT 2-T16

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (CC)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)



TYPICAL BEAM CURTAIMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

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PROJECT

ADITYARAM PALACE CITY,(VILLA 42)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

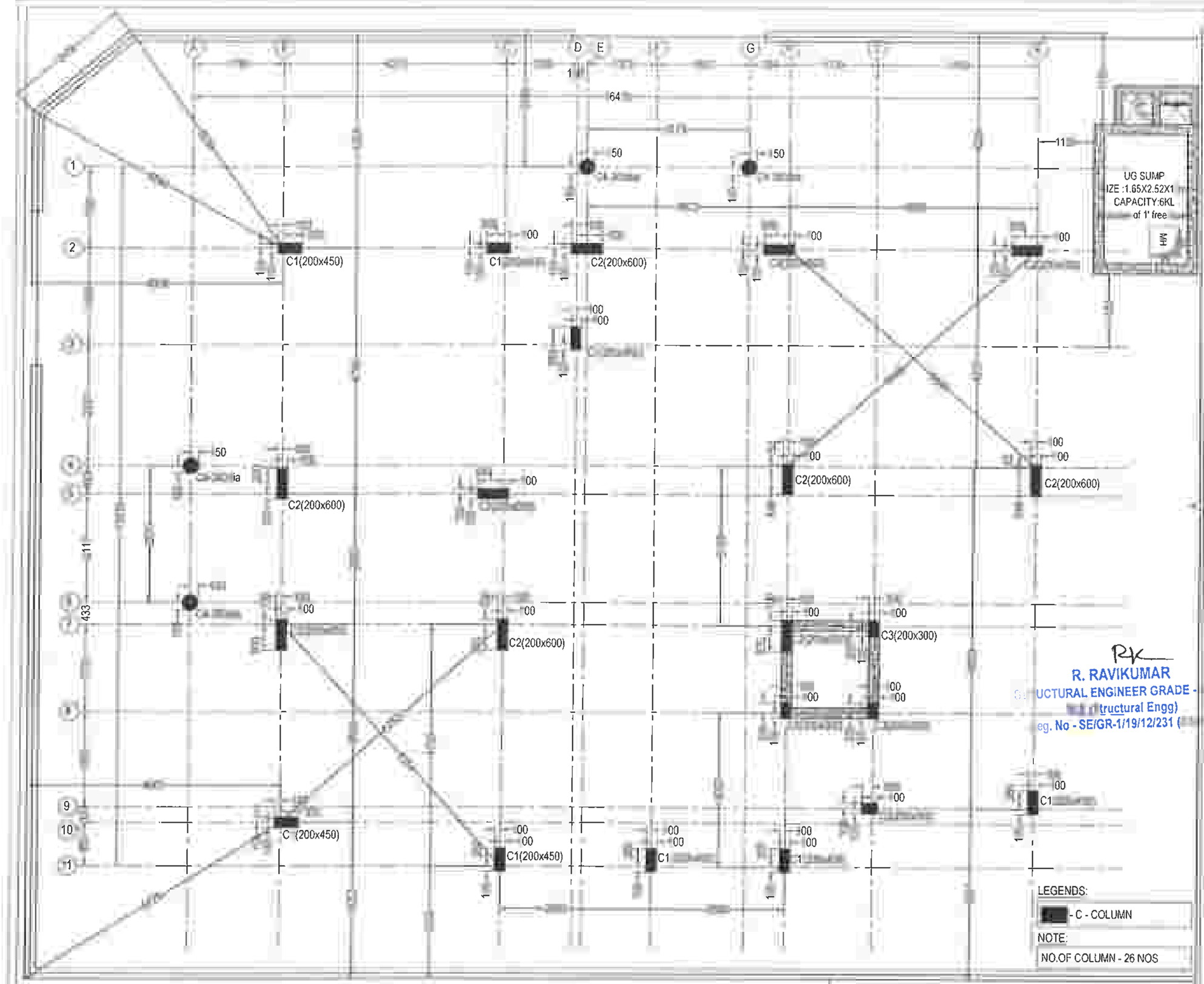
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☐ APPROVAL
SHEET	A3	☑ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET.NO
R0	5/11	ST-2025-09-11	12



COLUMN MARKING LAYOUT

DARY LINE

LEGENDS:

- C - COLUMN

NOTE:

NO.OF COLUMN - 26 NOS

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R. RAVIKUMAR
UCTURAL ENGINEER GRADE -
tructural Engg)
eg. No - SE/GR-1/19/12/231 (

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 49 & 50)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

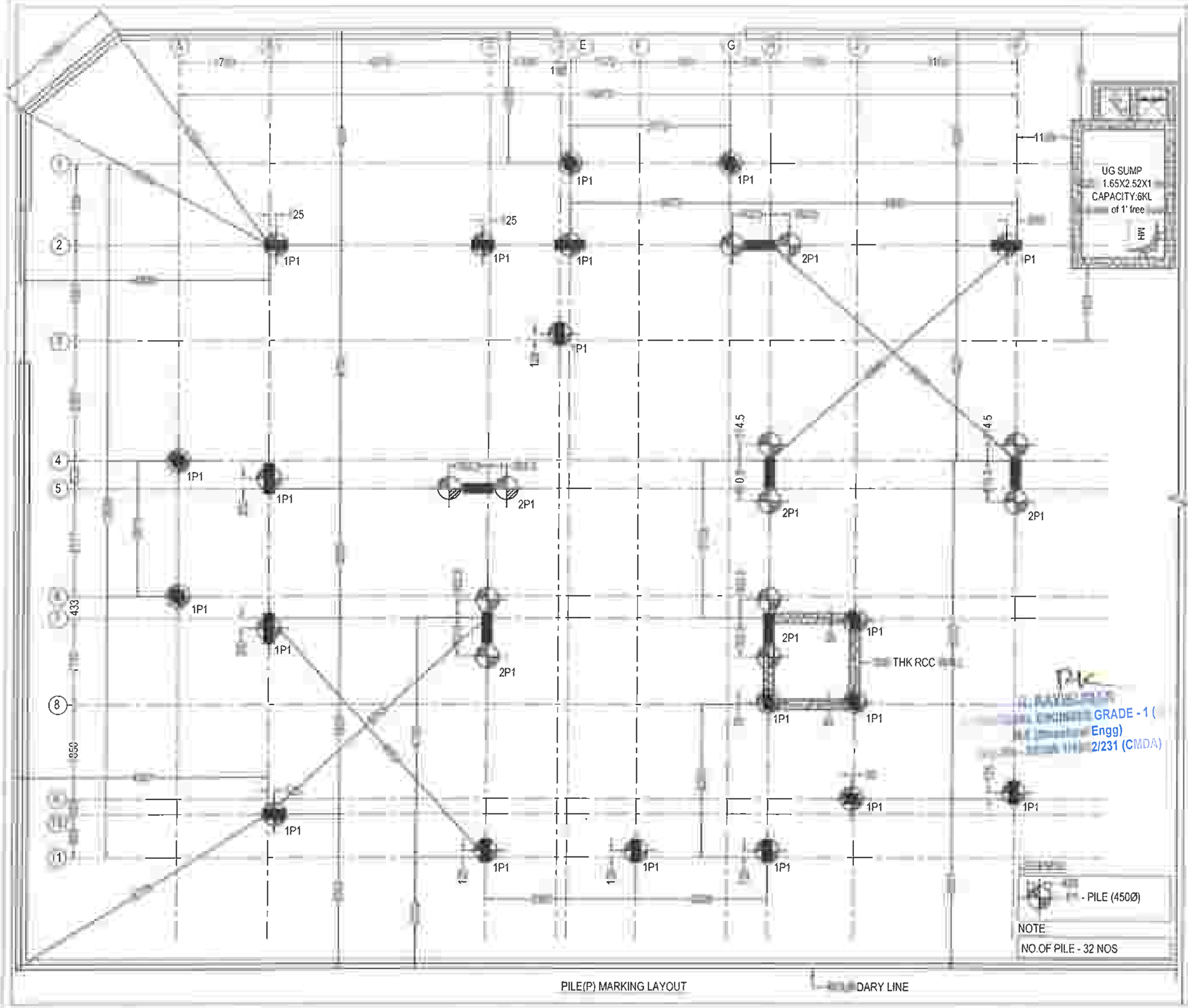
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2024-18-10	01



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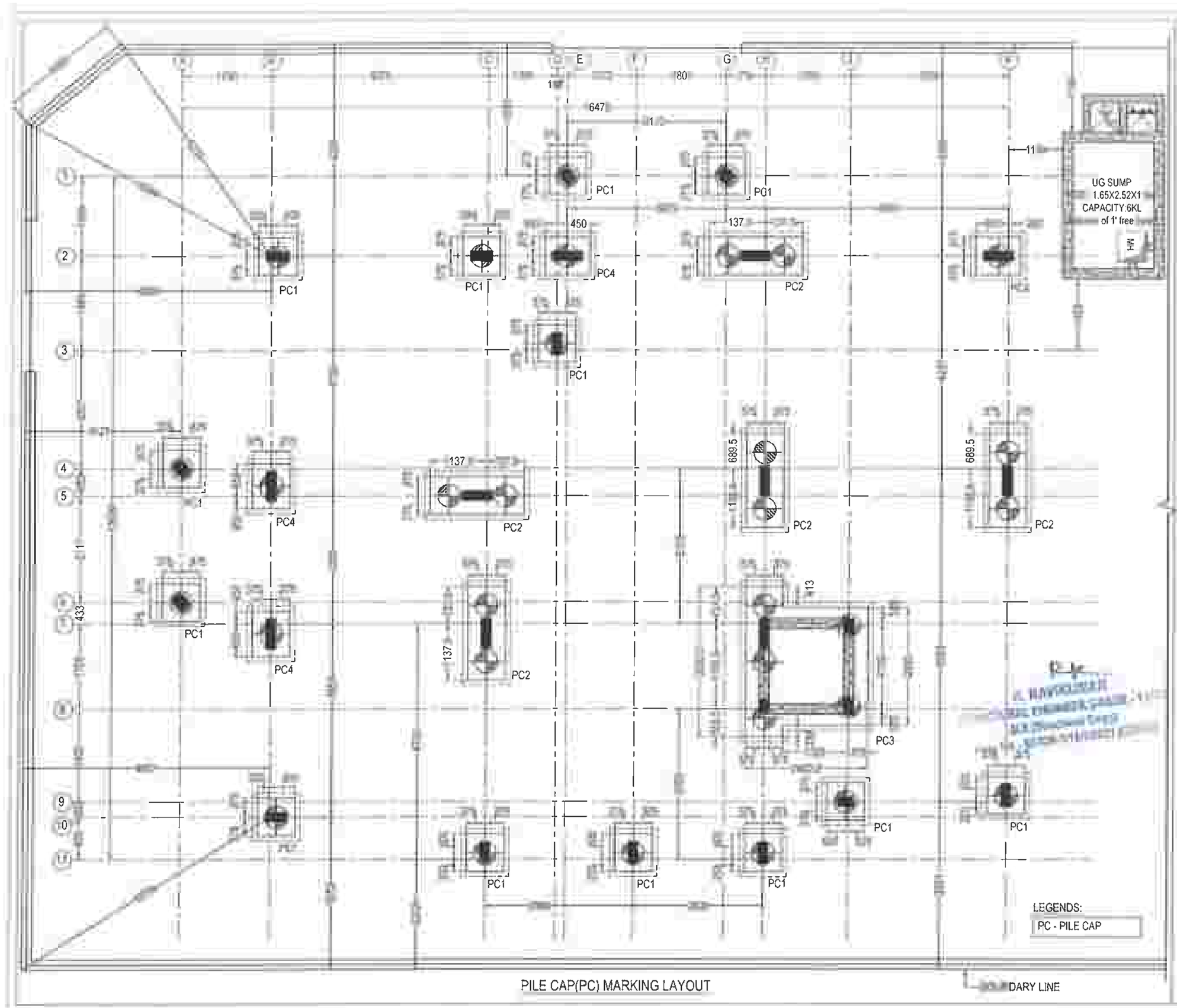
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM,
CHENNAI 600 117
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-10	02



PILE CAP(PC) MARKING LAYOUT

DARY LINE

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"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 . 1985

CLEAR COVER TO REINFORCEMENT

- A. COLUMNS = 1½"
- B. PILE = 2"
- C. PILE CAP = 2"
- D. TIE BEAM = 1"
- E. PLINTH BEAM = 1"
- F. ROOF BEAM = 1"
- G. ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
2. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 49 & 50)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

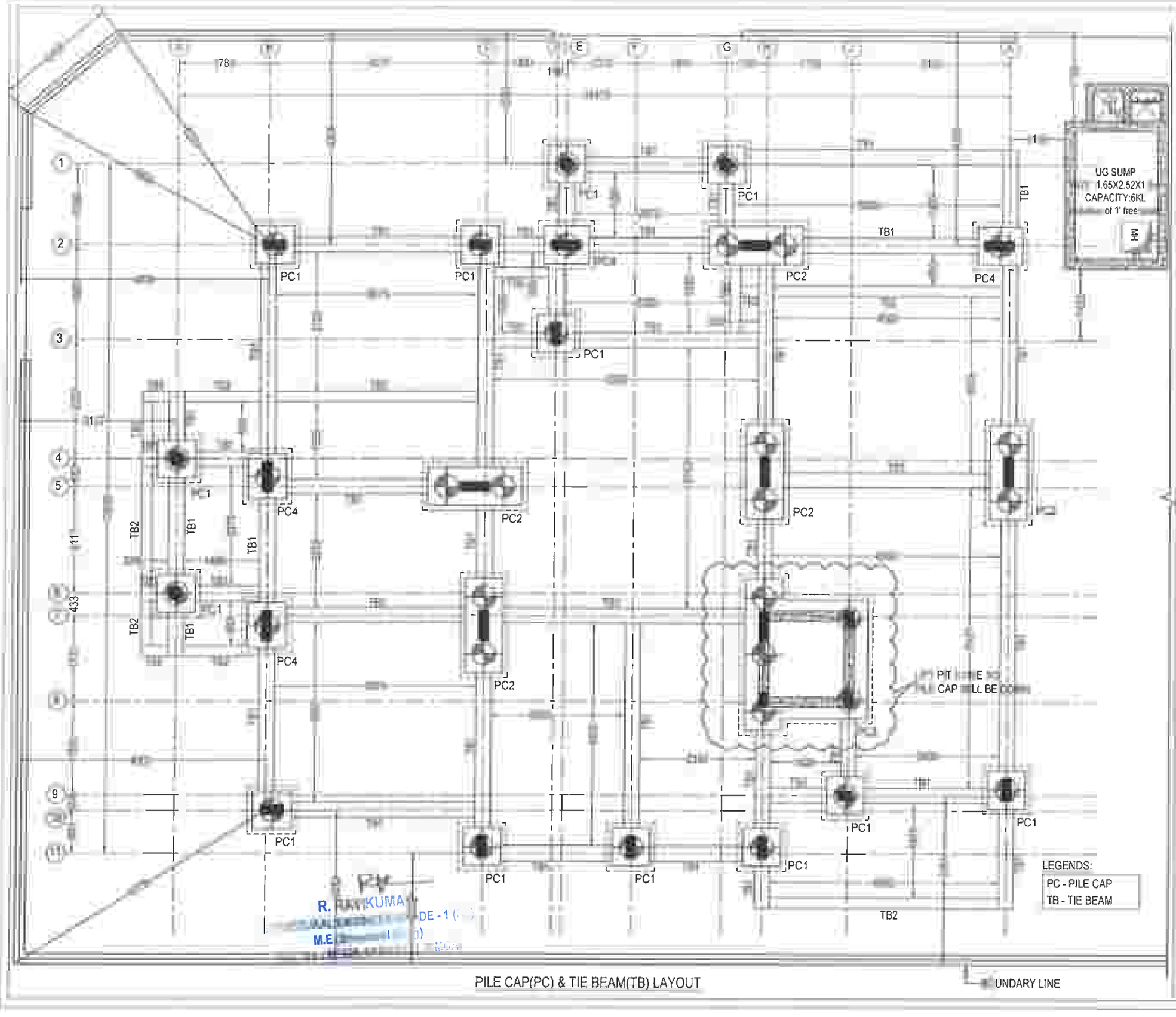
SAFE STRUCTURAL CONSULTANCY
NEW NO [redacted] D NO 2/1466, 200 FEET ROAD,
EACHAN[redacted]NNA NAGAR, KOVILAMBAKKAM,
CHENNA[redacted]7.
Safe Structural Consultancy
[redacted]7
[redacted].com
[redacted]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0	[redacted]	ST-2024-18-10	03



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NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM,
CHENNAI - 600 117
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

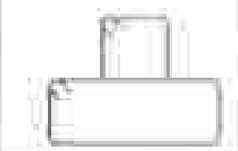
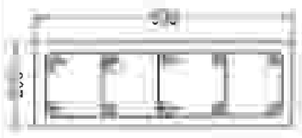
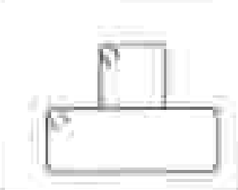
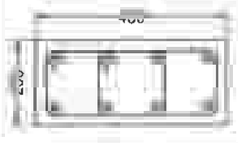
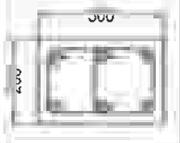
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

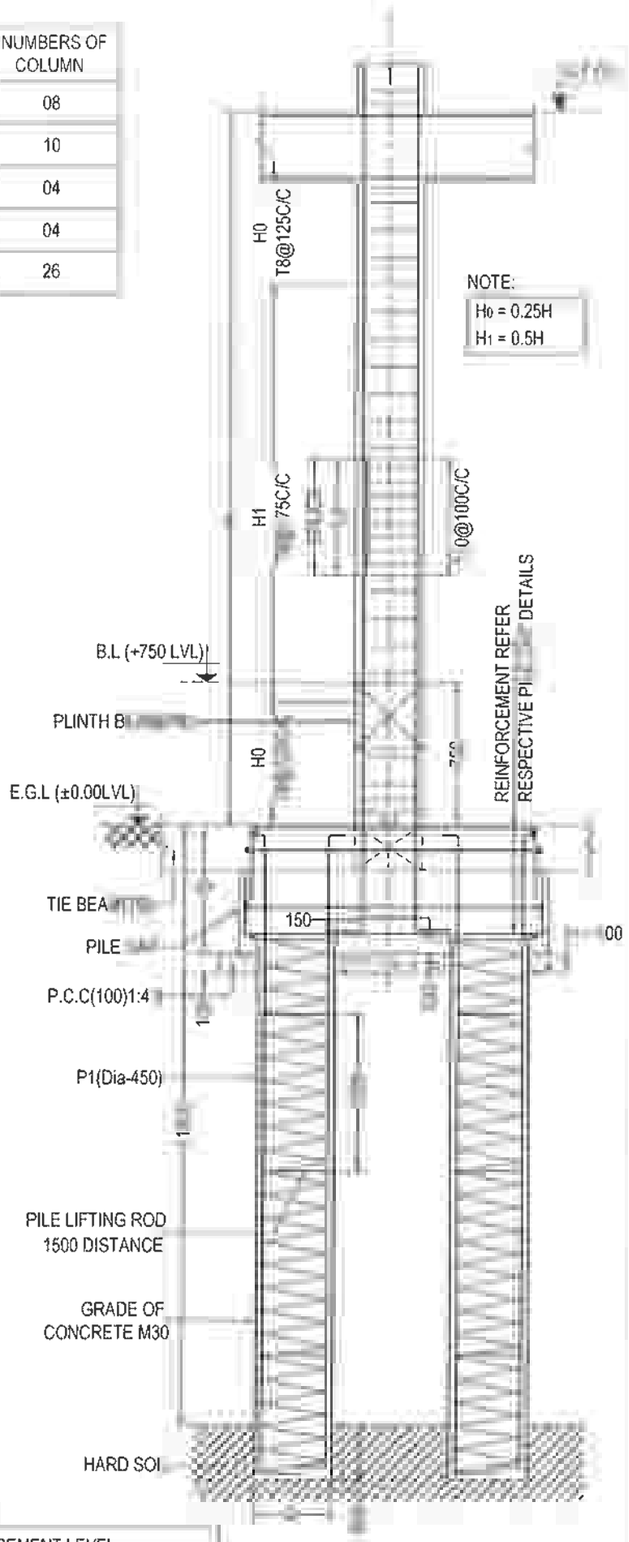
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2024-18-10	04

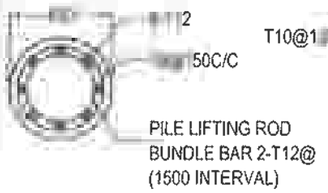
COLUMN REINFORCEMENT SCHEDULE

STAIR & LIFT HEAD ROOM LEVEL TO TERRACE LEVEL MIX-M25				
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	
				
	8-T16	10-T16	4-T16 + 2-T12	
TERRACE LEVEL TO FOOTING MIX-M25 ⊙- T16 ⊕- T12				
	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C	H_0=T8@125C/C H_1=T8@175C/C
				
	8-T16	10-T16	4-T16 + 2-T12	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3	C4

NAME OF COLUMN	NUMBERS OF COLUMN
C1	08
C2	10
C3	04
C4	04
TOTAL:	26

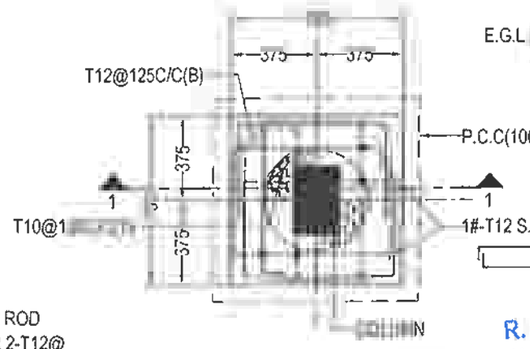


NOTE:
H_0 = 0.25H
H_1 = 0.5H

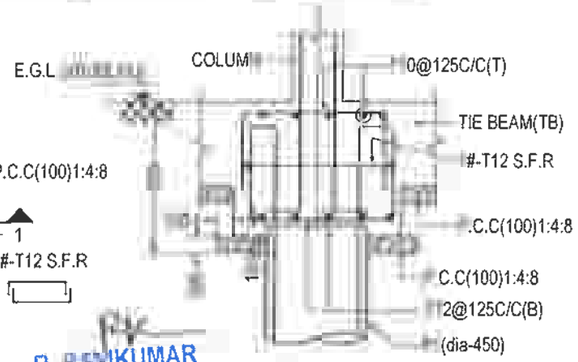


PILE LIFTING ROD
BUNDLE BAR 2-T12@
(1500 INTERVAL)

PILE (P1) - PLAN



PC1 - PLAN



SECTION - 1 - 1

R. RAMKUMAR
STRUCTURAL ENGINEER GRADE - 1
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

** S.F.R - SIDE FACE REINFORCEMENT

LEGEND
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

TYPICAL COLUMN & PILE CONFINING DETAILS

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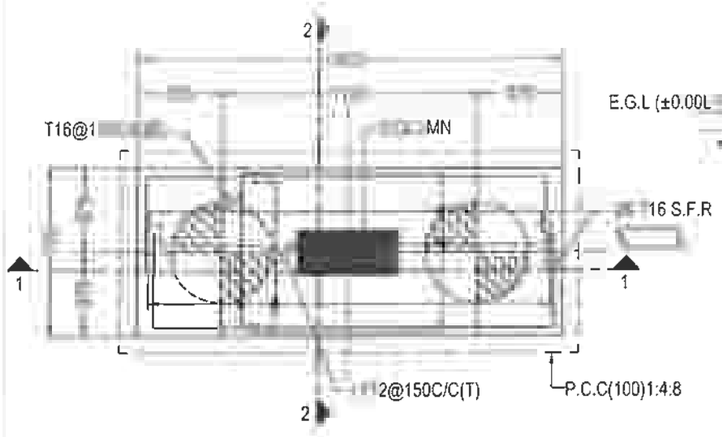
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NEW NO D NO 2/1466, 200 FEET ROAD,
EACHAN NNA NAGAR, KOVILAMBAKKAM,
CHENNA 7.
CT. : +
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www ralconsultancy.com
Safe Structural Consultancy

DESIGNED	RK	RELEASED FOR
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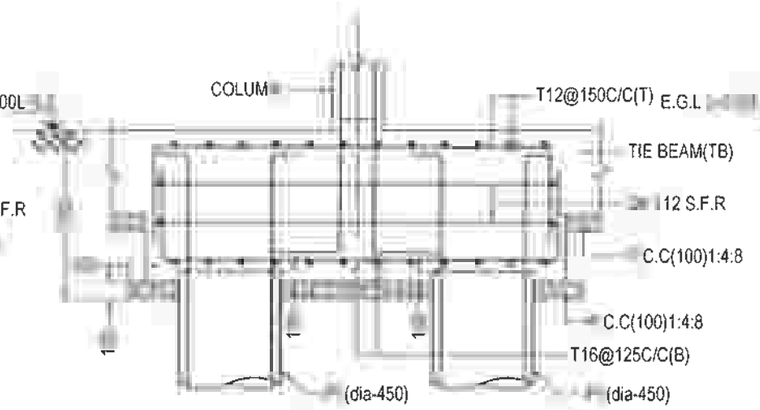
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

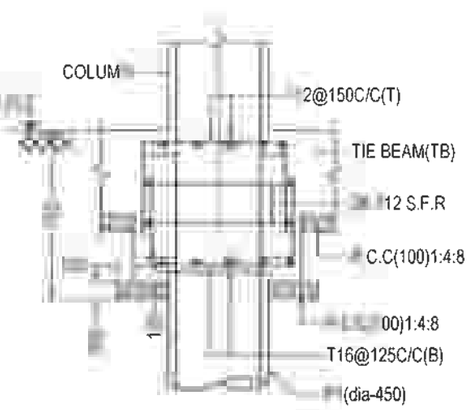
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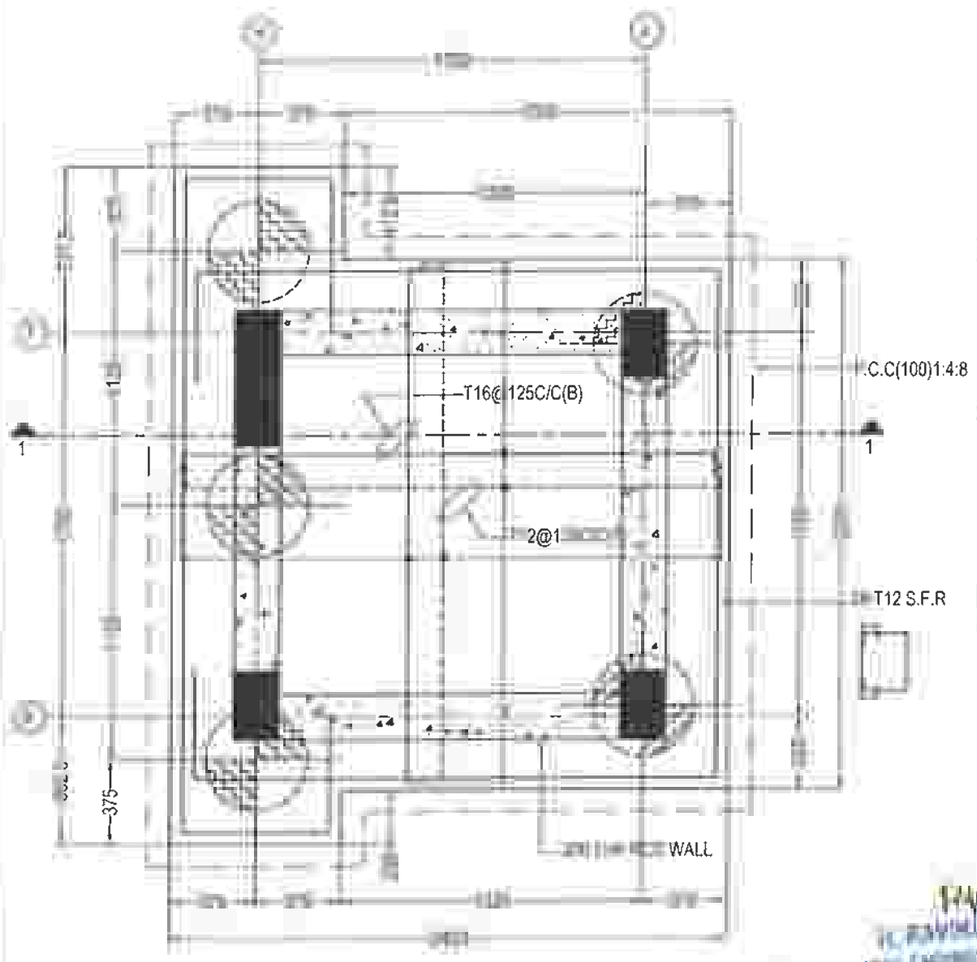
PC2 - PLAN



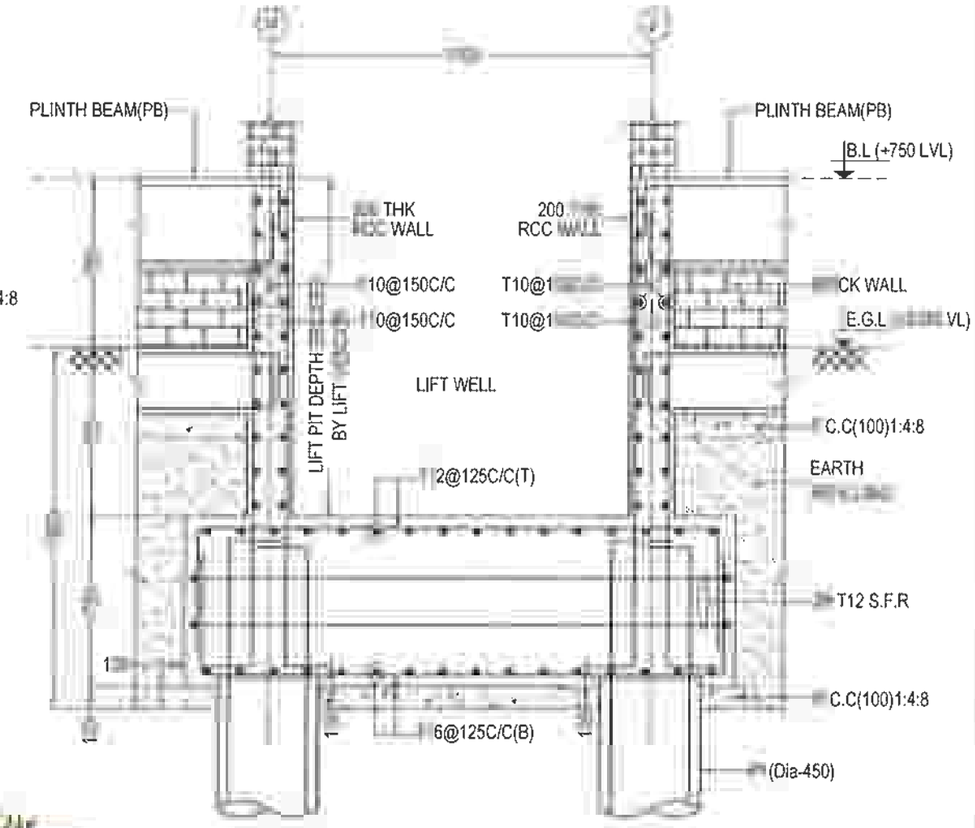
SECTION - 1 - 1



SECTION - 2 - 2



PC3 - PLAN



SECTION - 1 - 1

K. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
(Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

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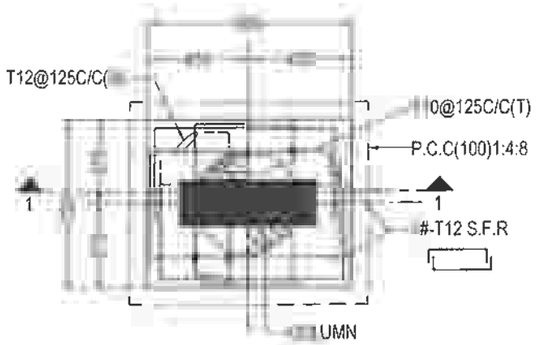
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DESIGNED	RK	RELEASED FOR
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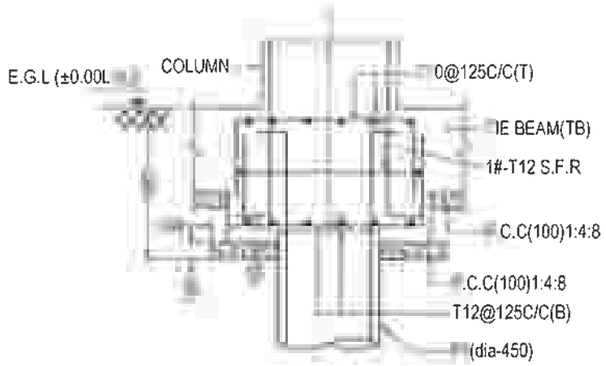
DRAWING NAME

PILE CAP SECTION DETAILS

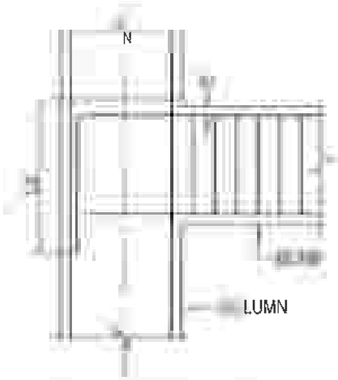
REV	DATE	PROJECT NO	SHEET.NO
R0	/1	ST-2024-18-10	06



PC4 - PLAN



SECTION - 1 - 1



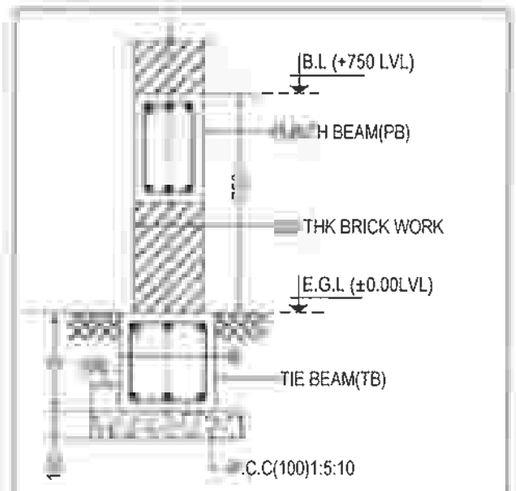
TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

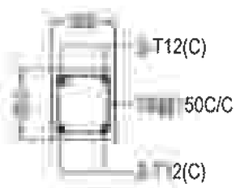
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

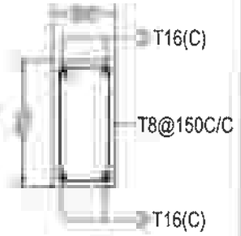
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	6(C) 50C/C .C.C T16(C)	6(C) 50C/C .C.C T16(C)	T16(C) 150C/C .C.C T16(C)
(200 X 300) TB2	T12(C) 150C/C .C.C T12(C)	T12(C) 150C/C .C.C T12(C)	T12(C) 150C/C .C.C T12(C)



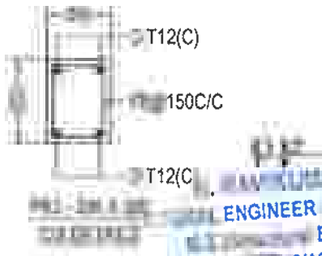
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

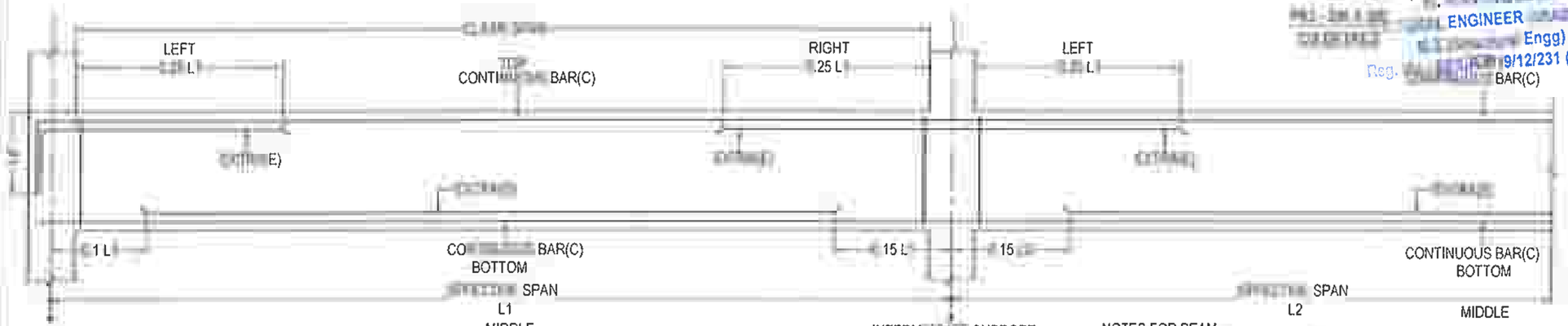


PB3 - 200 X 250
C/S DETAILS



PB1 - 200 X 400
C/S DETAILS





TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM:

B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

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ARCHITECT

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SAFE STRUCTURAL CONSULTANCY

NEW NO D 200 FEET ROAD, EACHAN IN KOVILAMBAKKAM, CHENNA ?

Safe Structural Consultancy

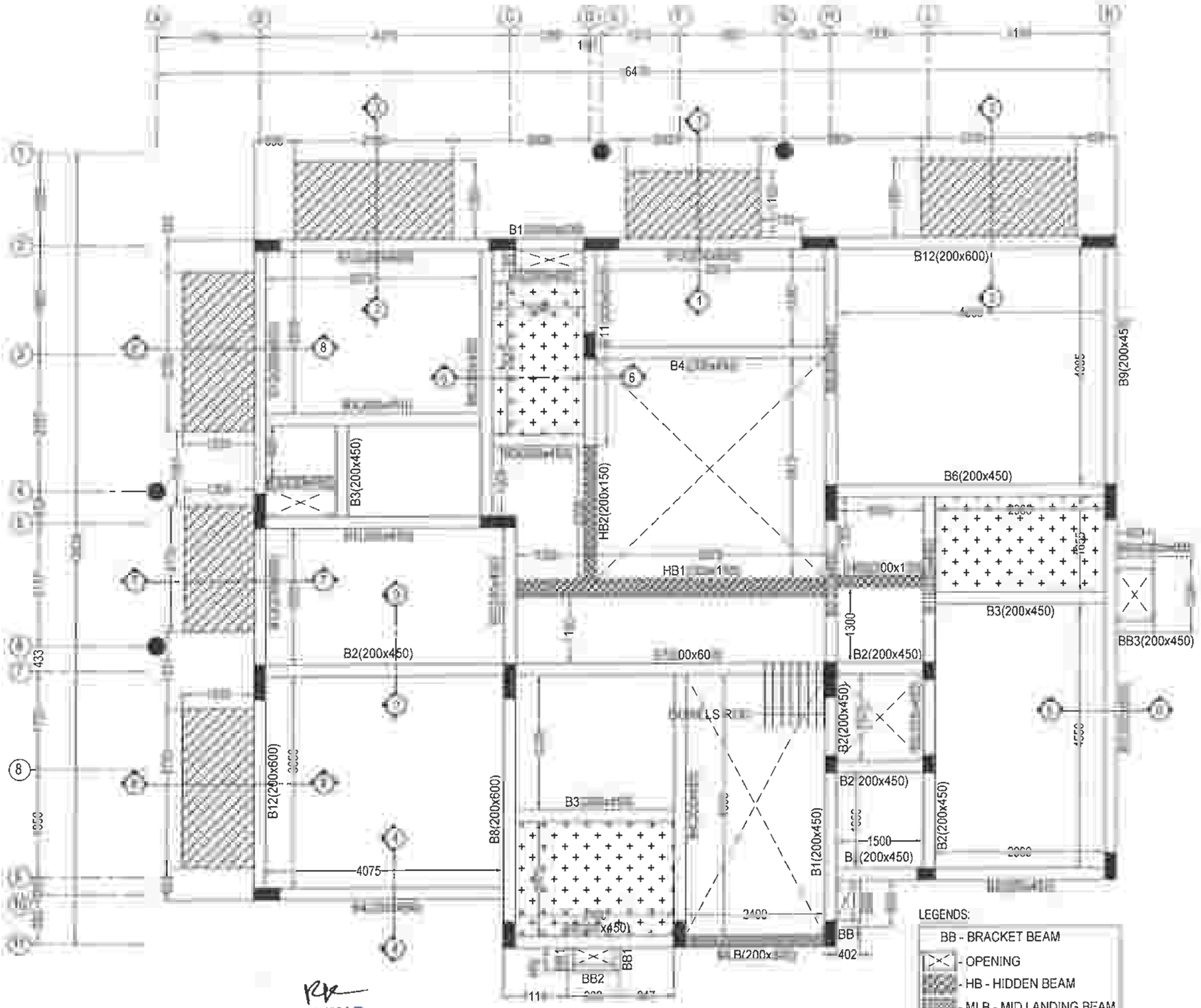
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	/1	ST-2024-18-10	07



LEGENDS:

- BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 100mm SLAB SUNKEN
- TOILET SUNKEN

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No SE/GR-1/19/12/231 (CMDA)

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- "Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 . 1985
- CLEAR COVER TO REINFORCEMENT.
  - A. COLUMNS = 1½"
  - B. PILE = 2"
  - C. PILE CAP = 2"
  - D. TIE BEAM = 1"
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  - F. ROOF BEAM = 1"
  - G. ROOF SLAB = ¾"
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- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 49 & 50)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web. :

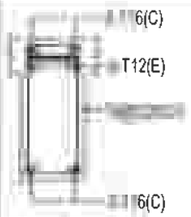
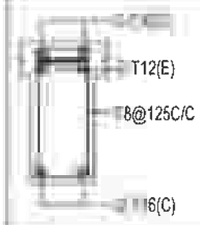
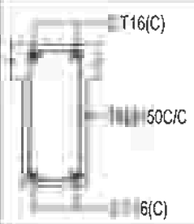
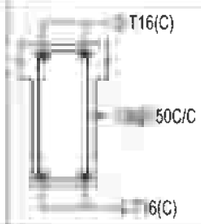
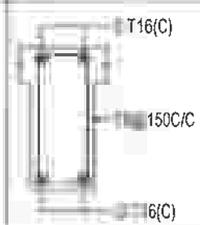
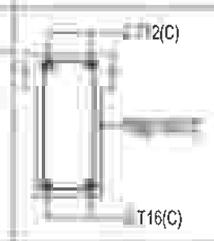
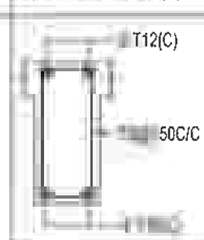
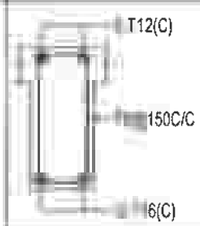
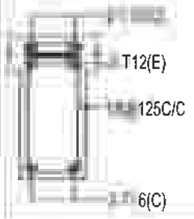
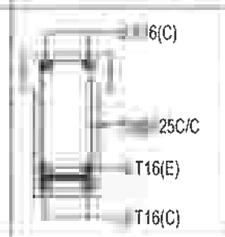
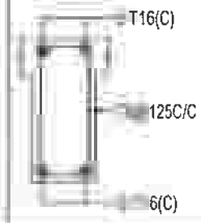
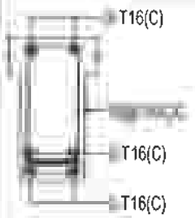
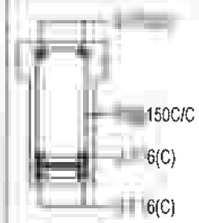
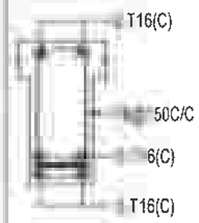
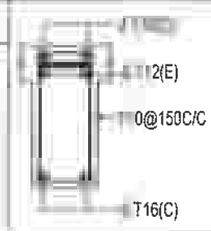
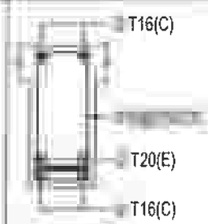
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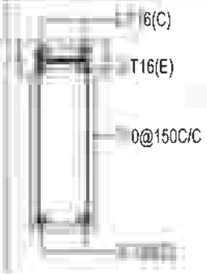
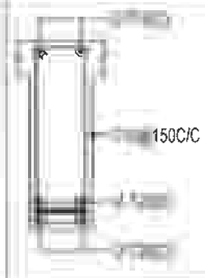
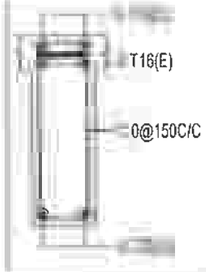
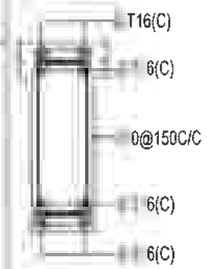
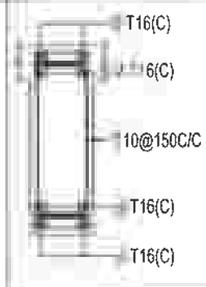
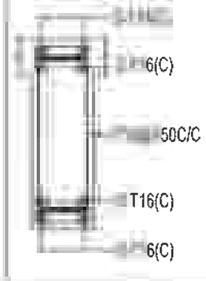
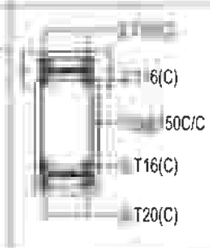
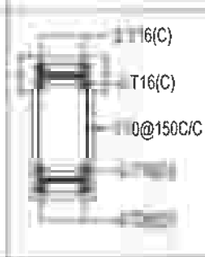
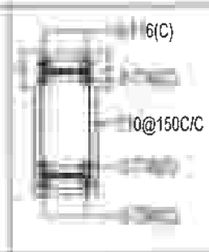
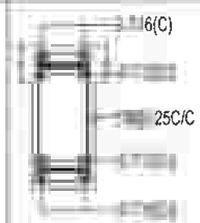
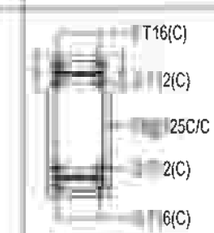
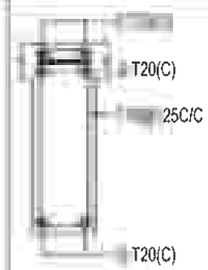
GROUND FLOOR ROOF BEAM LAYOUT

BY	DATE	PROJECT NO	SHEET.NO
R0	/1	ST-2024-18-10	08

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B7				
(200 X 600)				
(200 X 450) B9				
(200 X 450) B10				
(200 X 600) B11				

R.
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

C - CONTINUOUS BAR
E - EXTRA BAR

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1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

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LAP JOINTS FOR [illegible] BARS

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AT ECR, CHENNAI.

ARCHITECT

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SAFE STRUCTURAL CONSULTANCY
[illegible] ROAD, BAKKAM,
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS - 1

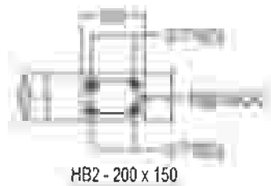
REV	DATE	PROJECT NO	SHEET NO
R0	/1	ST-2024-18-10	09

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

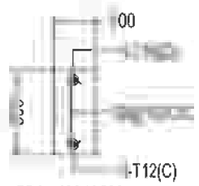
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B12	6(C), (C), 1200C/C SPACER BAR, T16(C), T16(C)	T16(C), 6(C), 1200C/C SPACER BAR, 50C/C, T16(C)	6(C), 6(C), 200C/C SPACER BAR, 50C/C, 6(C)	
(200 X 300) MLB	50C/C	150C/C, 6(C)	T16(C), 6(C)	



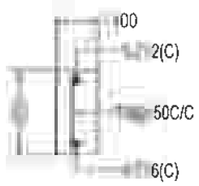
HB1 - 300 x 150
C/S DETAILS



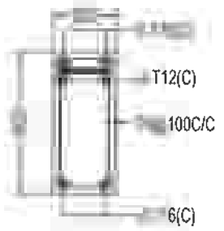
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C/S DETAILS



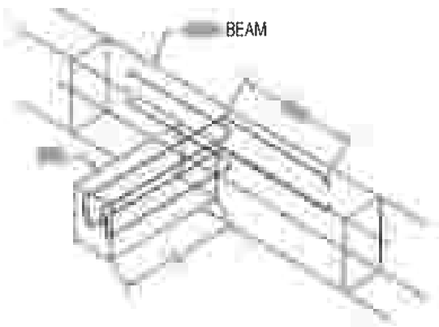
BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS

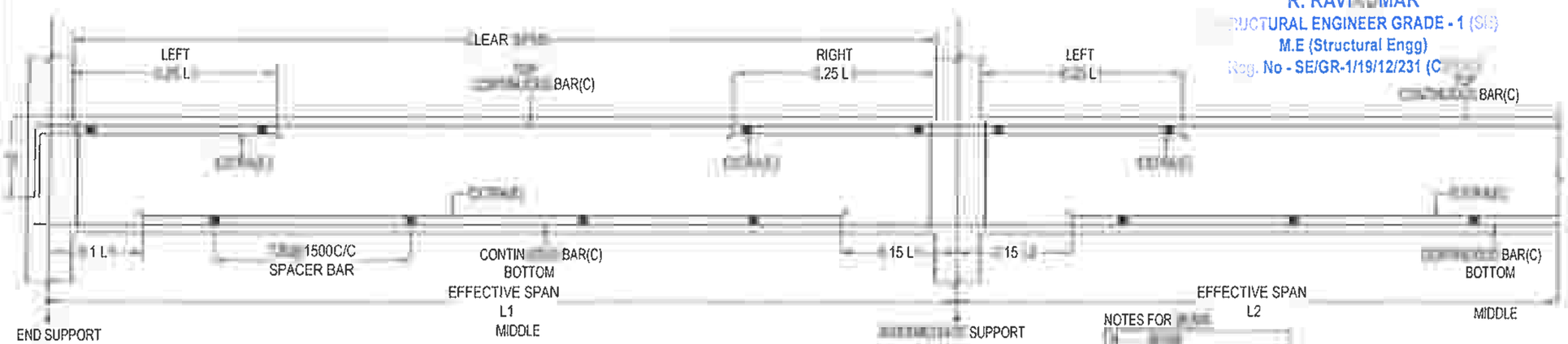


BB3 - 200 X 450
C/S DETAILS



ISOMETRIC VIEW

LEGENDS:
C - CONTINUOUS BAR
E - EXTRA BAR
E.F - EACH FACE



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR
C - CONTINUOUS BAR
E - EXTRA BAR

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (C

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ARCHITECT

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STRUCTURAL CONSULTANT

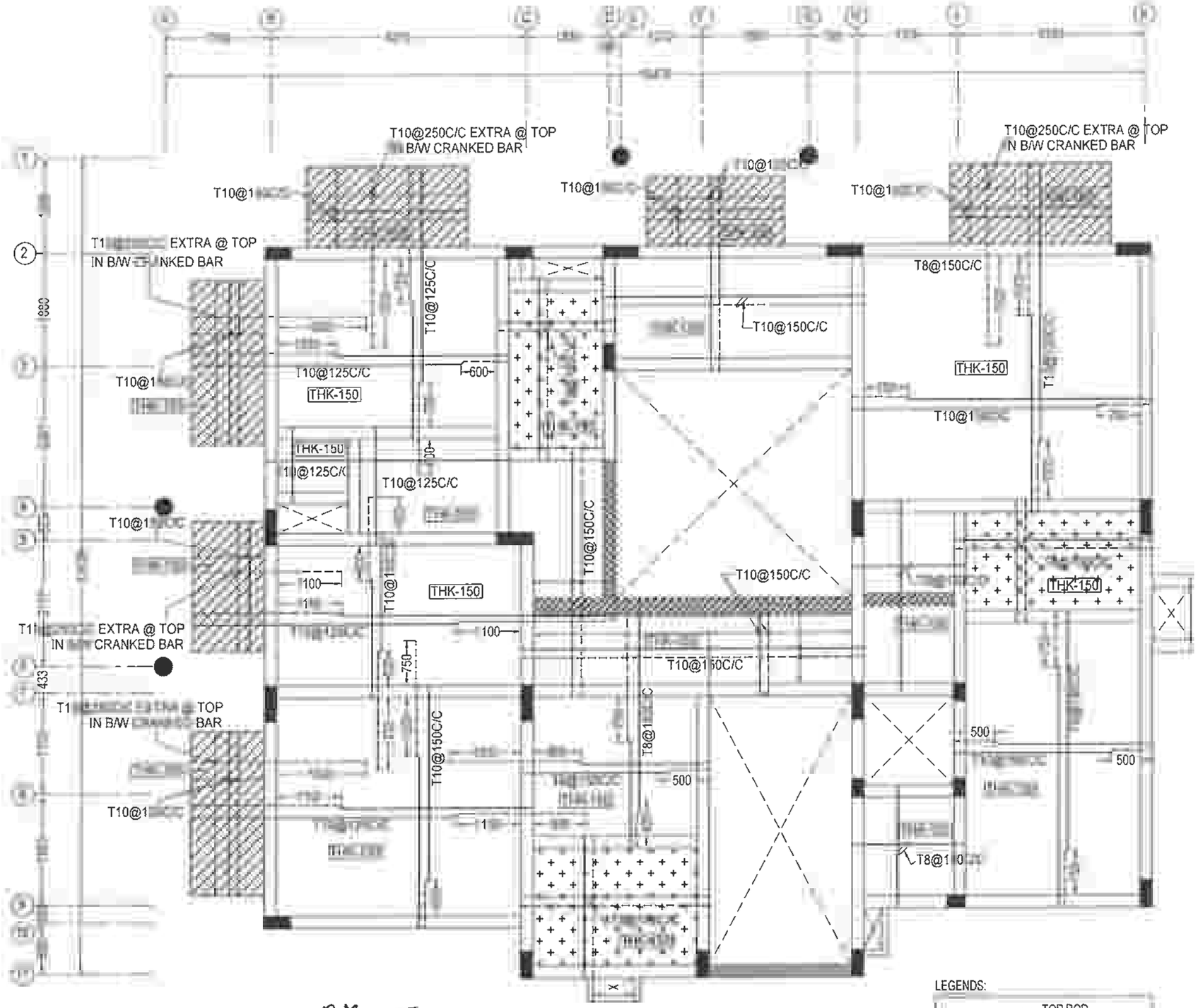
SAFE STRUCTURAL CONSULTANCY
NEW NO D NO 2/1466, 200 FEET ROAD, EACHAN NNA NAGAR, KOVILAMBAKKAM, CHENNA 7.
Safe Structural Consultancy
ralconsultancy.com

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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET NO
R0	0/2	ST-2024-18-10	10



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

R. RAVI
STRUCTURAL EN
M.E (St
Reg. No

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ANY DISCREPANCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY

EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND

ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25(1:1:2) GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS = 1½"
B. PILE = 2"
C. PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F. ROOF BEAM = 1"
G. ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 49 & 50)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

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CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF SLAB DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	/1	ST-2024-18-10	11

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LAP JOINTS FOR RE[illegible] BARS

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B1 200x450 · B1 200x450 · B6(200x450) · B10(200x450) · B4(200x450) · B2 · BB3 · BB3 · BB1 · BB2 · B1

LEGENDS:

- BB - BRACKET BEAM
- FC - FLOATING COLUMN
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- TOILET SUNKEN

TERRACE BEAM LAYOUT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

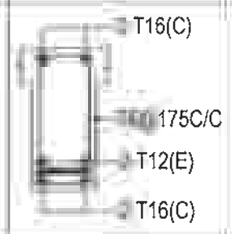
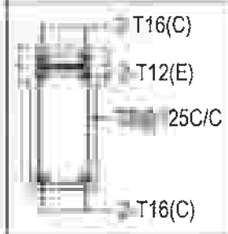
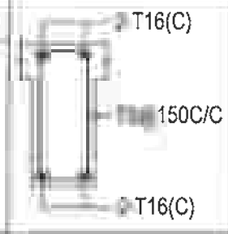
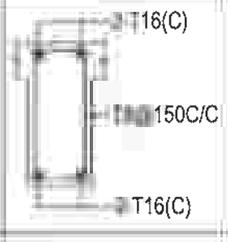
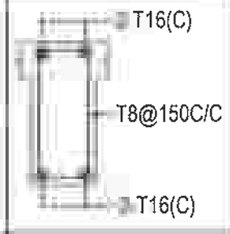
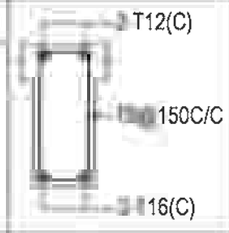
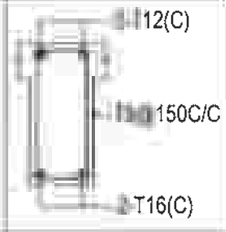
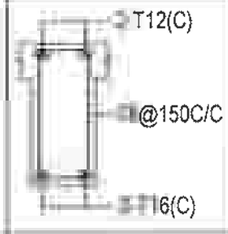
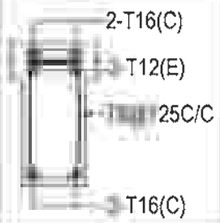
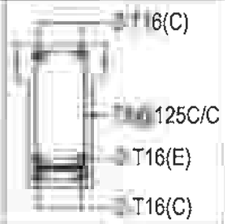
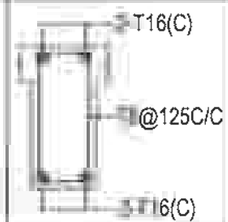
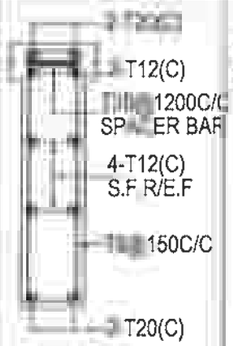
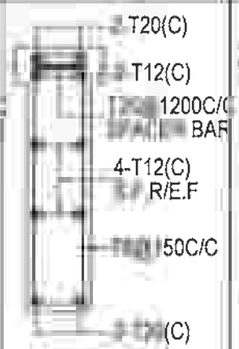
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

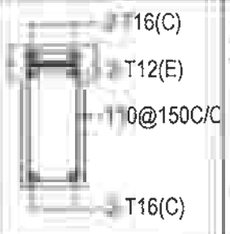
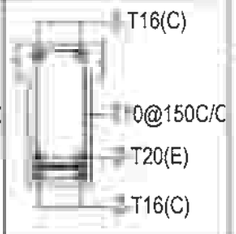
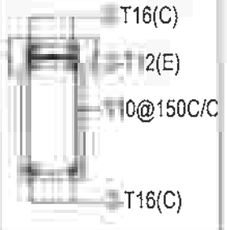
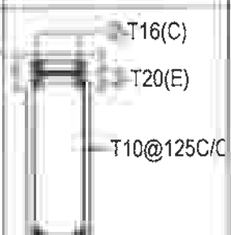
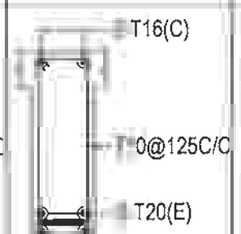
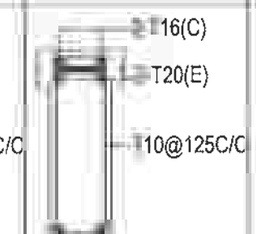
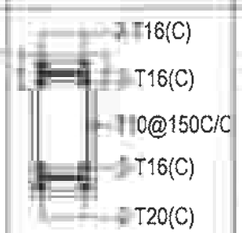
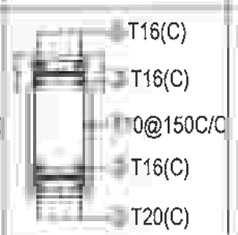
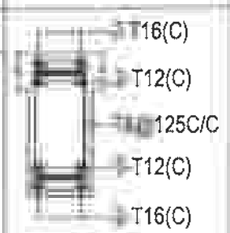
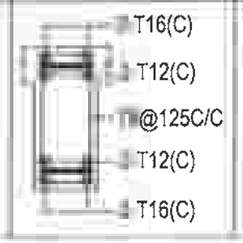
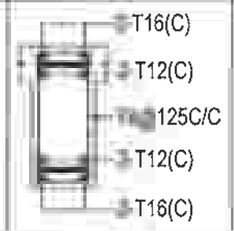
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2024-18-10	12

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 830) B5				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 600) B7				
(200 X 600) B8				
(200 X 450) B9				
(200 X 450) B10				

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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JOINTS FOR RE[illegible]

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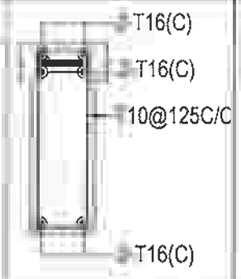
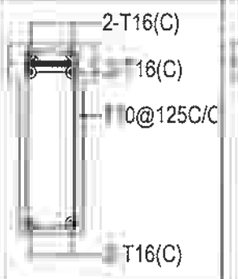
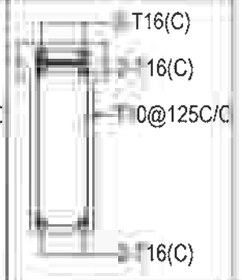
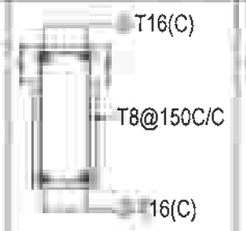
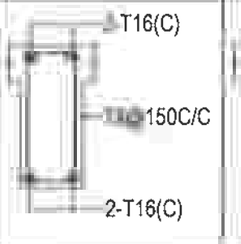
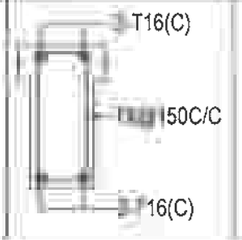
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2024-18-10	13

TERRACE BEAM REINFORCEMENT SCHEDULE

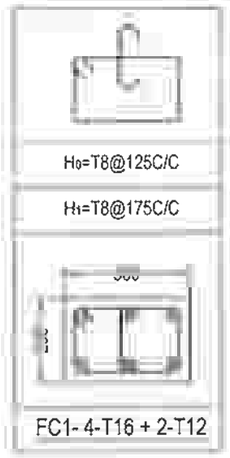
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B11				
(200 X 450) MLB				



HB1 - 200 x 150
C/S DETAILS

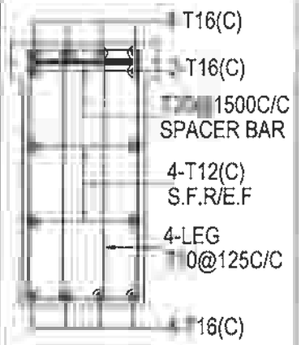
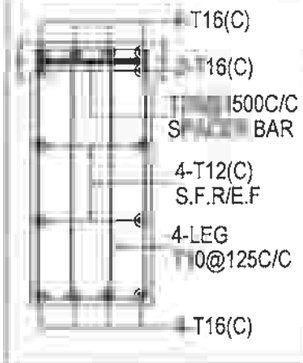
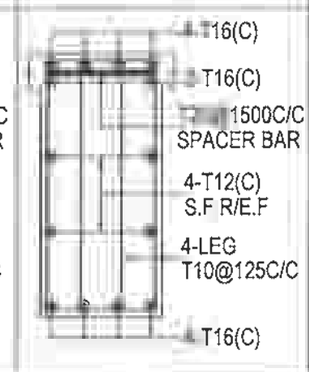


HB2 - 200 x 165
C/S DETAILS



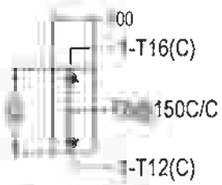
FC1- 4-T16 + 2-T12

TERRACE BEAM REINFORCEMENT SCHEDULE

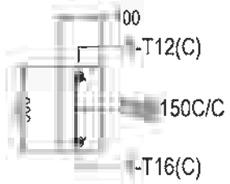
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(380 X 830) B12				

LEGENDS:

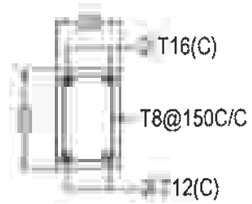
C	-	CONTINUOUS BAR
E	-	EXTRA BAR



BB1 - 100 X 300
C/S DETAILS



BB2 - 100 X 300
C/S DETAILS



BB3-230x300
C/S DETAILS

R. [illegible]
STRUCTURAL ENGINEER GRADE - 1 ([illegible])
M.E (Structural Engg)
Reg. No.: SE/[illegible]

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  - G ROOF SLAB = ¾"
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PROJECT

ADITYARAM PALACE CITY,(VILLA 49 & 50) AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

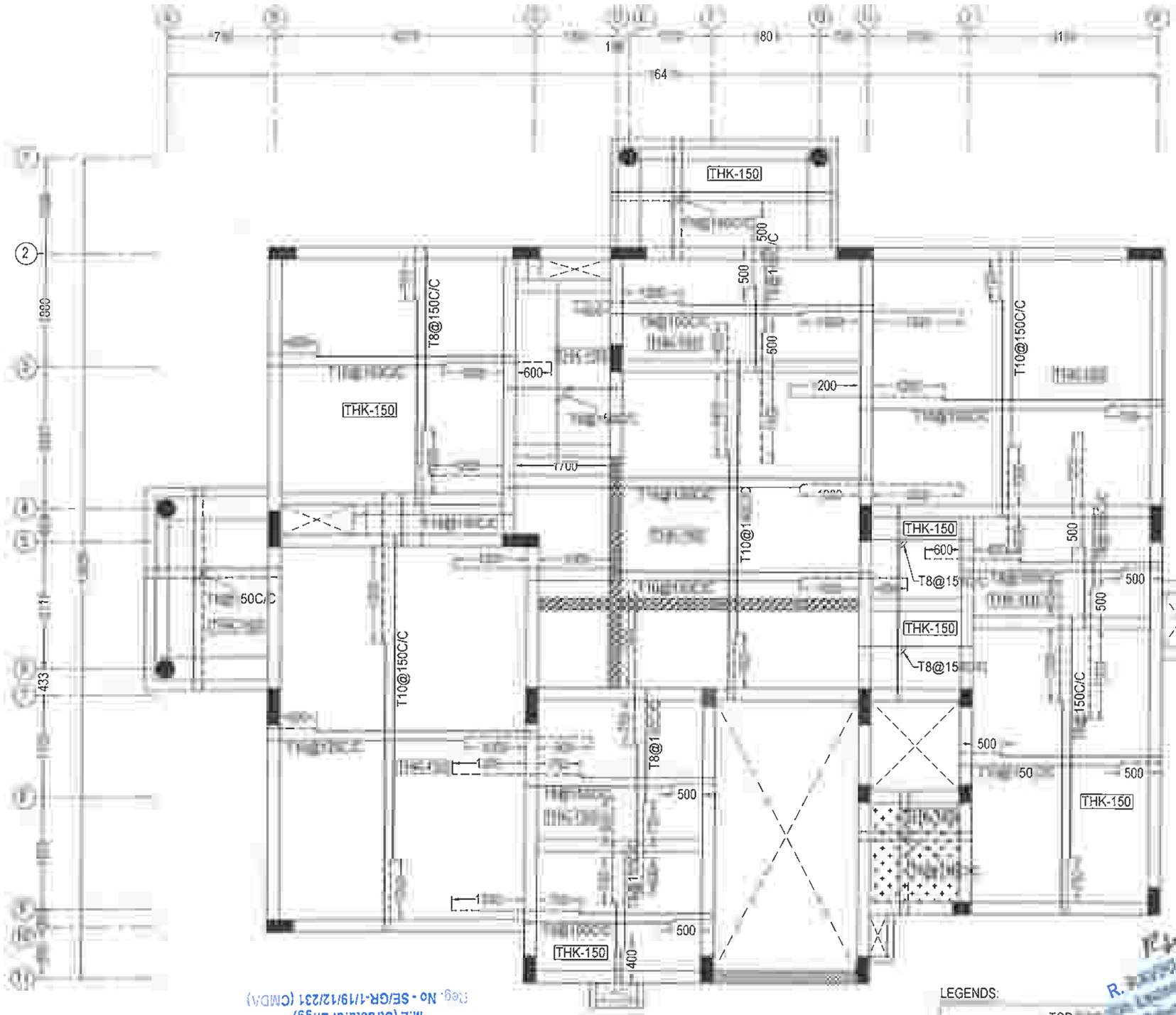
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 2

REV	DATE	PROJECT NO	SHEET
R0	/1	ST-2024-18-10	14



TERRACE SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (CMDA)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

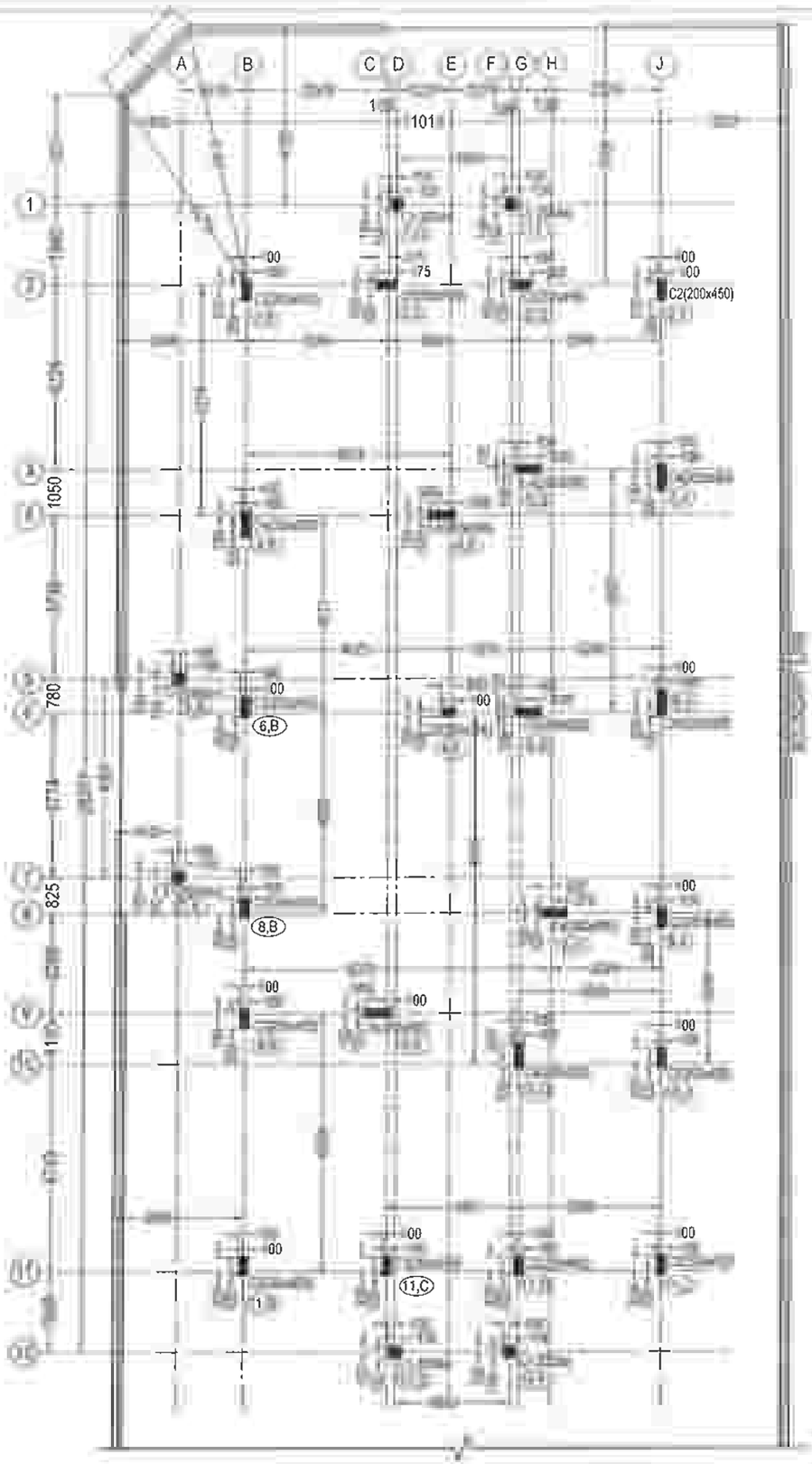
SAFE STRUCTURAL CONSULTANCY
N[illegible] O NO 2/1466, 200 FEET ROAD,
E[illegible] NNA NAGAR, KOVILAMBAKKAM,
C[illegible] 7.
[illegible]7
[illegible]com
Safe Structural Consultancy
[illegible]rafconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

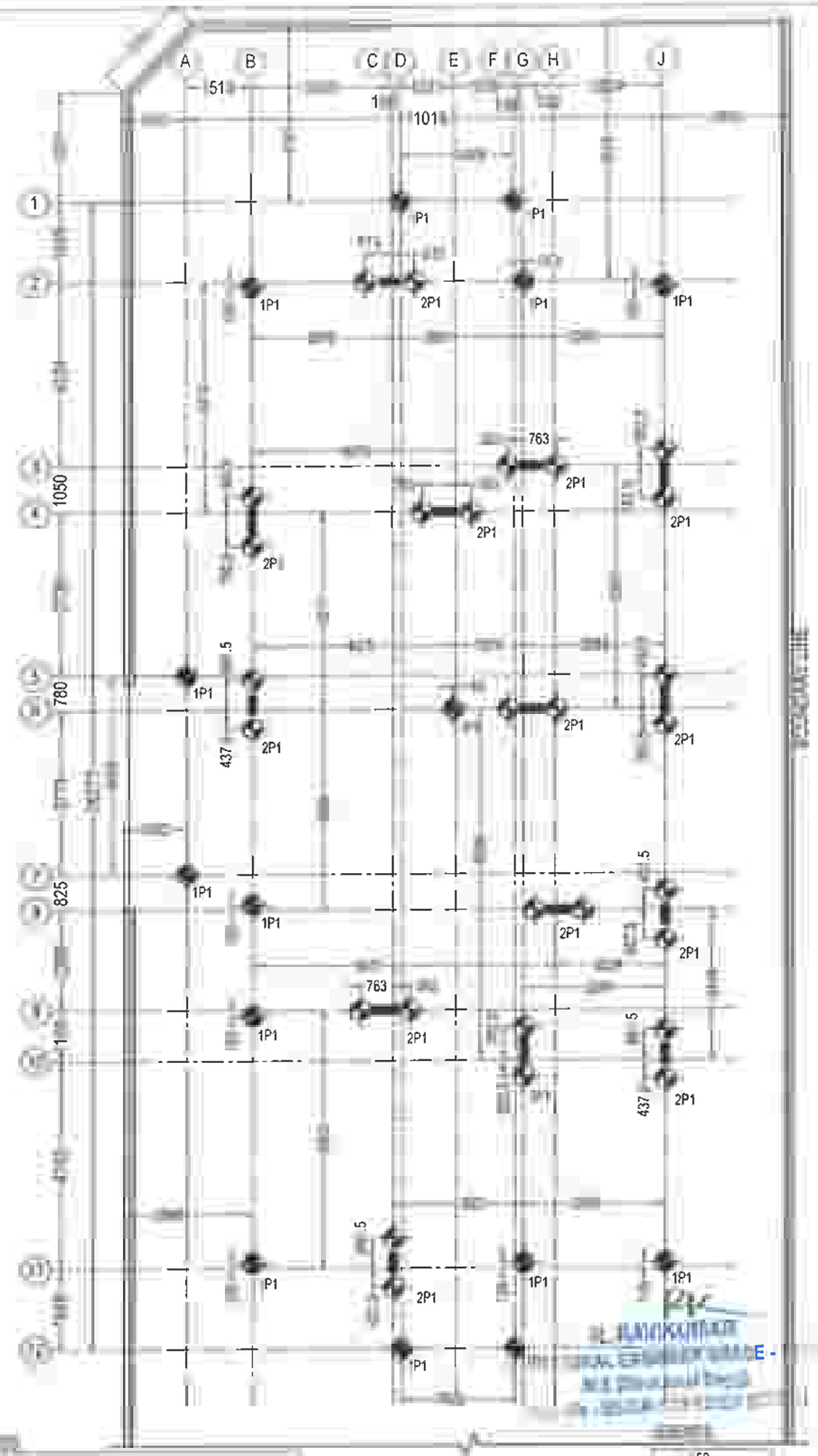
DRAWING NAME

TERRACE SLAB LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2024-18-10	15



COLUMN MARKING LAYOUT



PILE MARKING LAYOUT

- C - COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- P - PILE

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ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

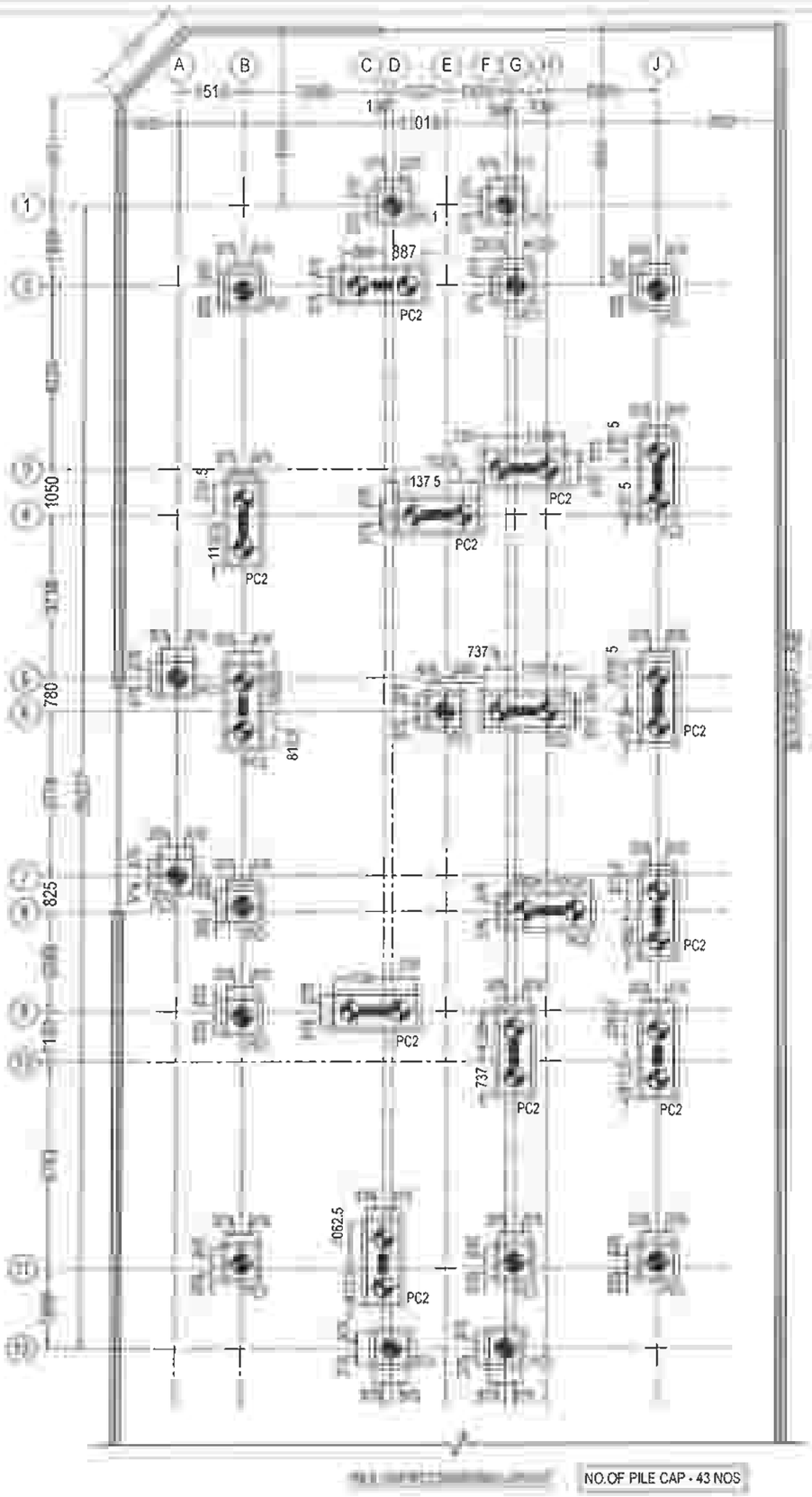
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

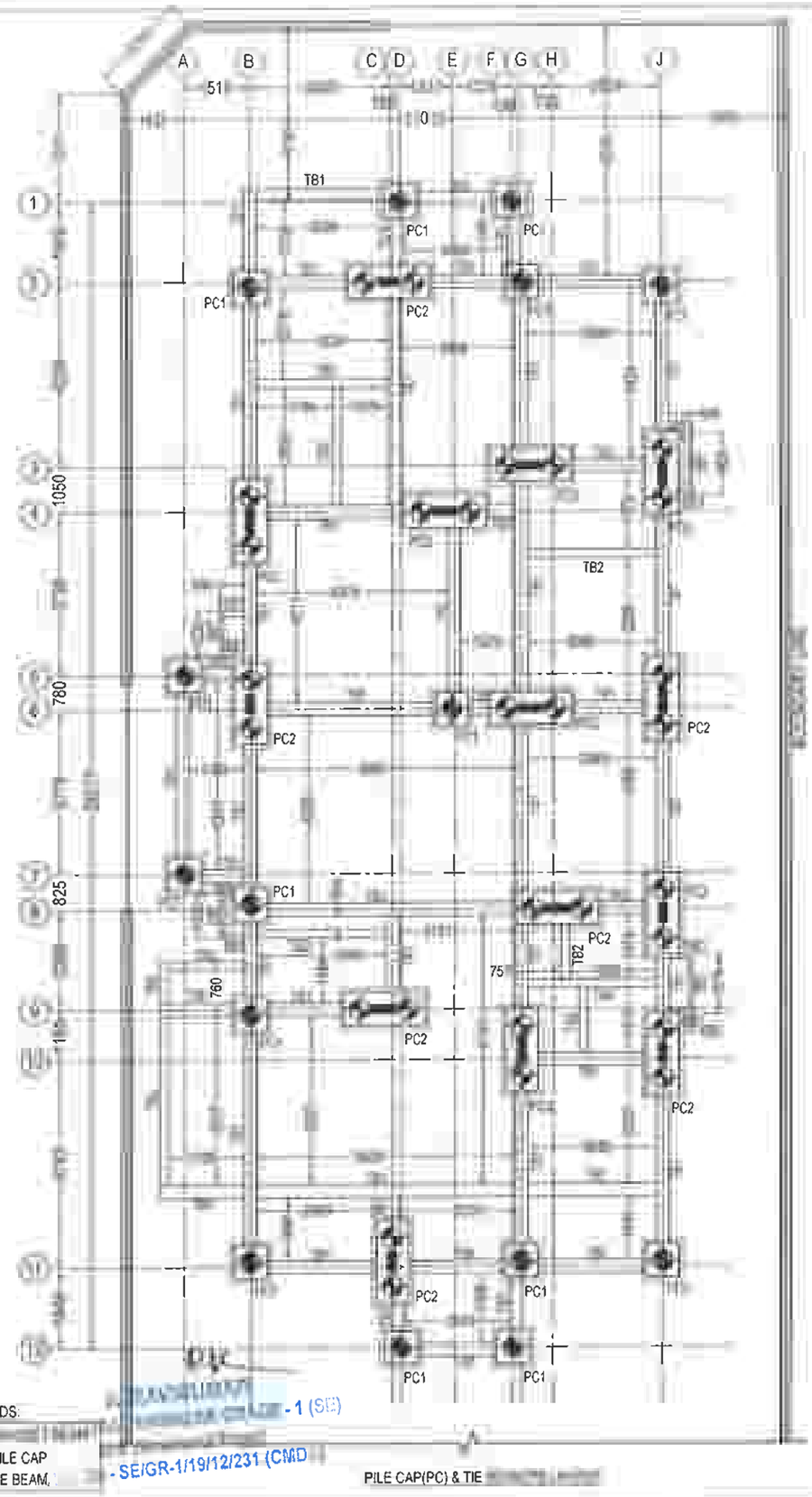
DRAWING NAME

COLUMN & PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-05	01



NO.OF PILE CAP - 43 NOS



LEGENDS:
BB -
PC - PILE CAP
TB - TIE BEAM,

PILE CAP(PC) & TIE

- SE/GR-1/19/12/231 (CMD - 1 (SE)

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ARCHITECT

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SAFE STRUCTURAL CONSULT
Safe
Structural Consultancy
NEW NO NO 2/1466, 200 FEET ROAD,
EACHAN NA NAGAR, KOVILAMBAKKAM,
CHENNA
7
com
ralconsultancy.com

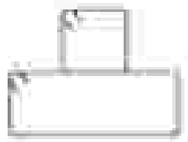
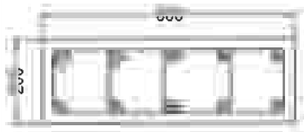
DESIGNED	RK	RELEASED FOR
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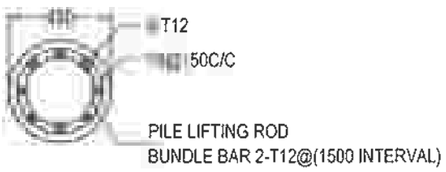
DRAWING NAME

PILE CAP MARKING & TIE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-05	02

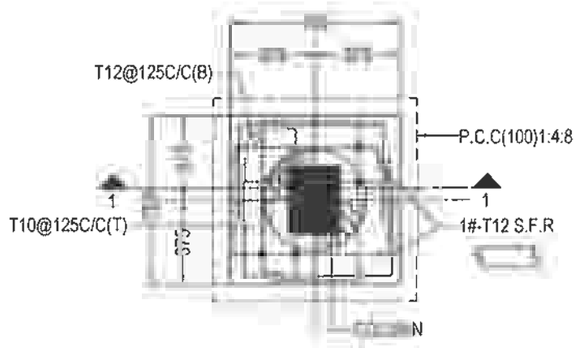
COLUMN REINFORCEMENT SCHEDULE

TERRACE FLOOR ROOF LEVEL						
TO	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING ⊙ - T16 ⊕ - T12						
	6-T16	4-T16 + 4-T12	8-T16	8-T16 + 2-T12	4-T16 + 2-T12	10-T16
COLUMN MARKED	C1	C2	C3	C4	C5	C6

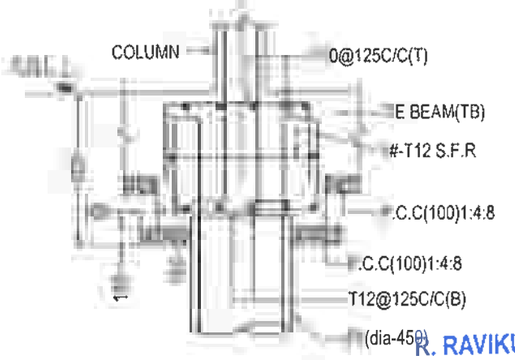


PILE (P1) - PLAN

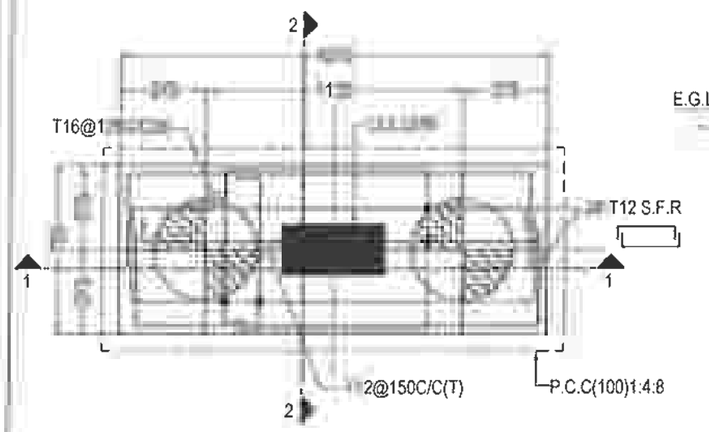
** S.F.R - SIDE FACE REINFORCEMENT



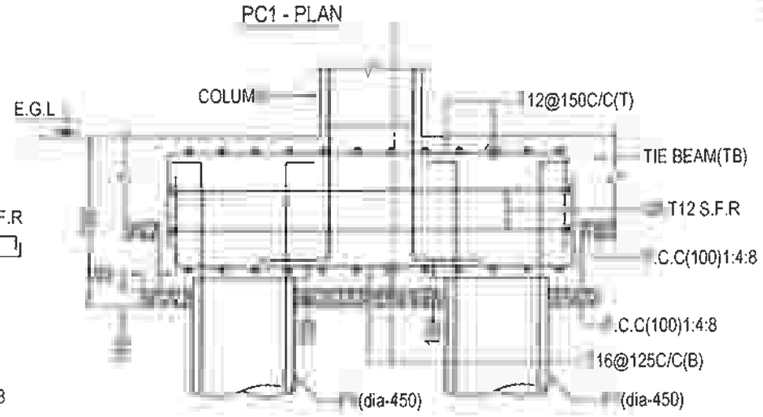
PC1 - PLAN



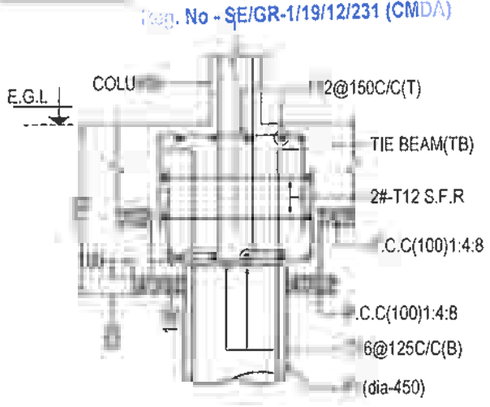
SECTION - 1 - 1



PC2 - PLAN



SECTION - 1 - 1



SECTION - 2 - 2

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ARCHITECT

ADITYARAM GROUP

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Regn. No - SE/GR-1/19/12/231 (CMDA)

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI 600 117.
CONTACT +91 9087725287
safestructurelchennai@gmail.com
Web.: www.safestructuralconsultancy.com

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

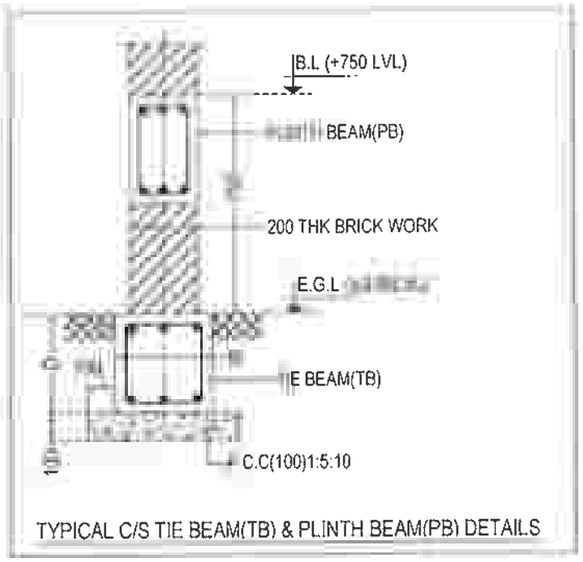
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

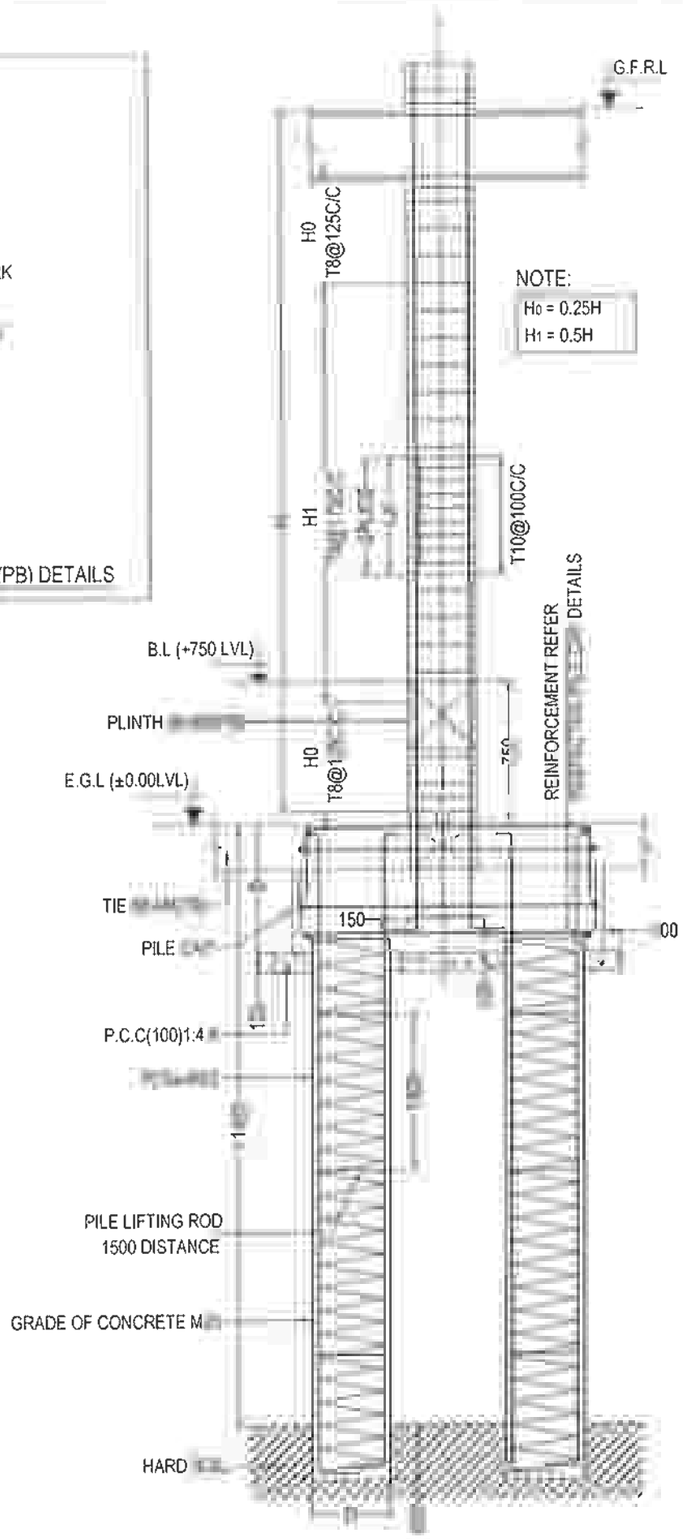
REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-05	03

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

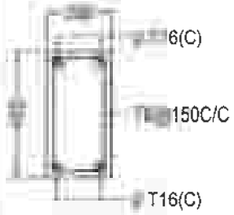
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 300) TB1	T16(C) 50C/C .C.C T16(C)	T16(C) 50C/C .C.C 16(C)	T16(C) 50C/C .C.C T16(C)
(200 X 300) TB2	2(C) 150C/C .C.C 2(C)	T12(C) 50C/C .C.C 2(C)	12(C) 50C/C C.C 12(C)
(100 X 300) BB1	-T12(C) 150C/C C.C -T12(C)	-T12(C) 150C/C C.C -T12(C)	-T12(C) 50C/C .C.C 2(C)



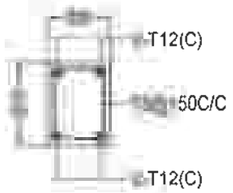
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



TYPICAL COLUMN & PILE CONFINING DETAILS



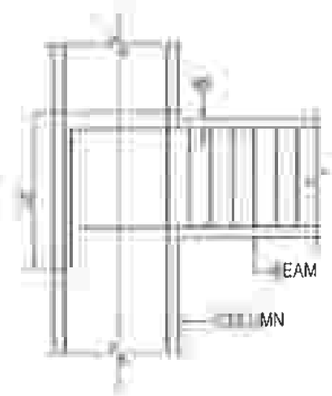
PB1 - 200 X 400 C/S DETAILS



PB2 - 200 X 300 C/S DETAILS



PB3 - 200 X 250 C/S DETAILS



TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

R. RAVIKUMAR
RUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 56 & 57)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

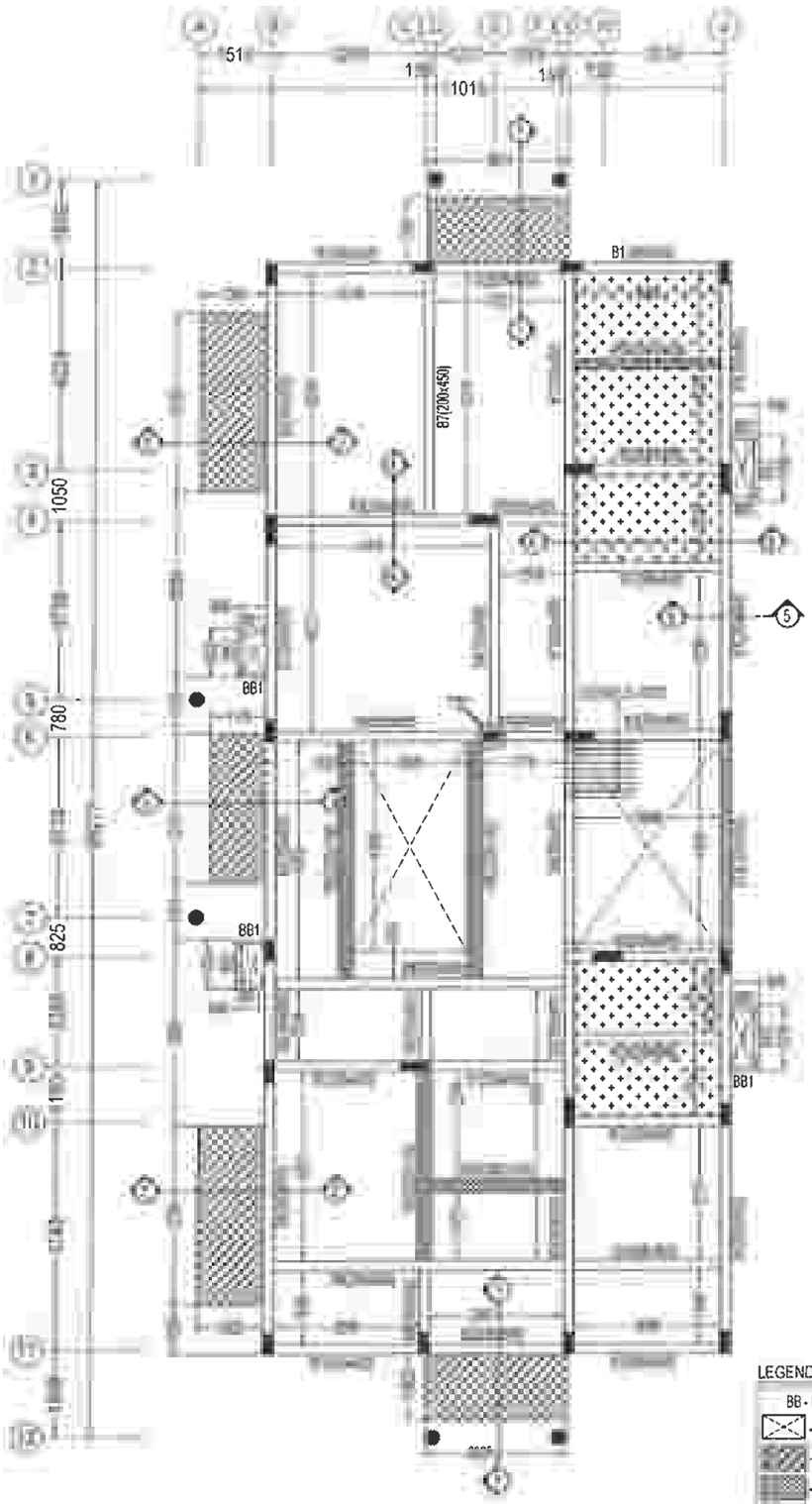
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

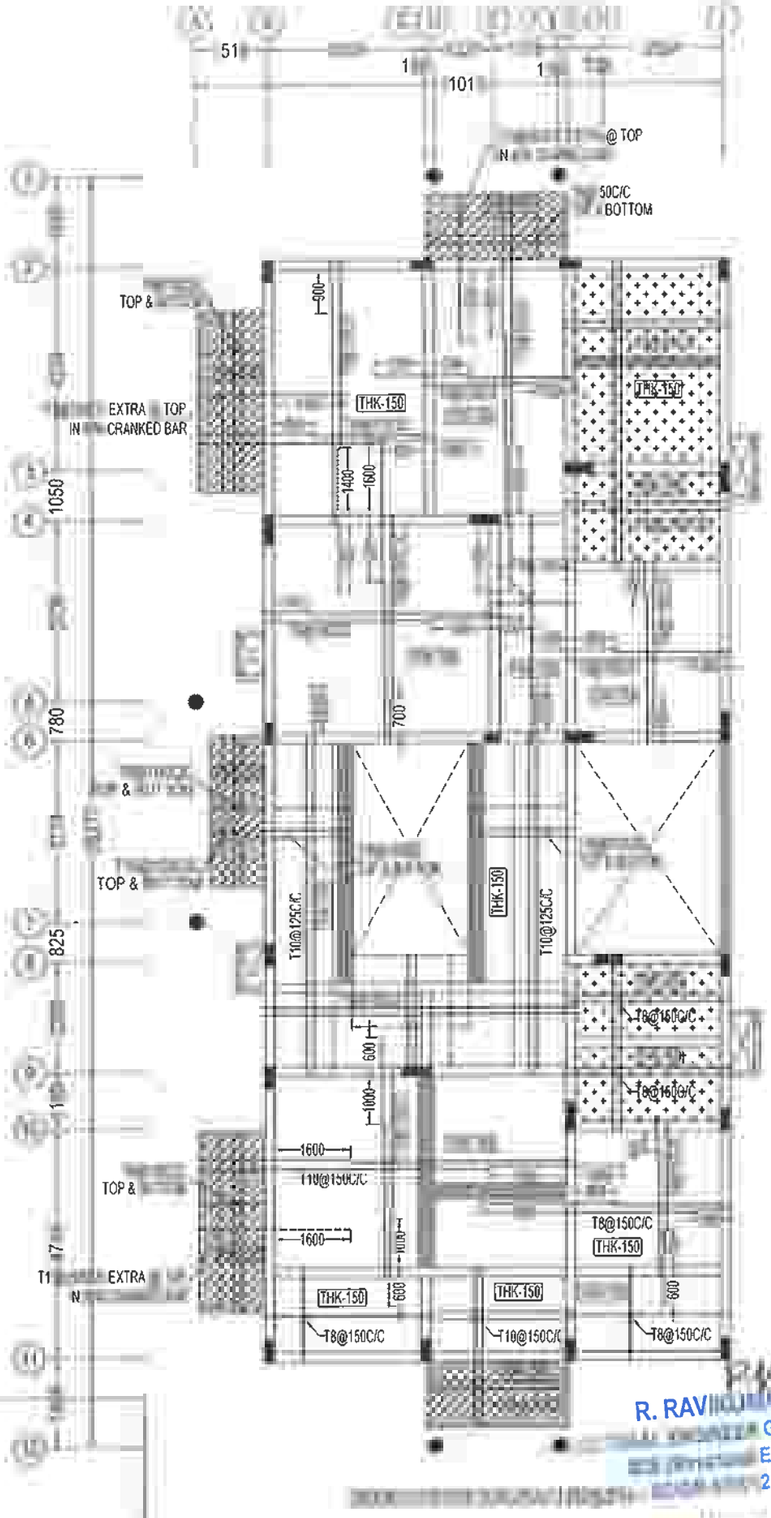
DRAWING NAME

TIE BEAM (TB) DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-05	04



GROUND FLOOR ROOF BEAM LAYOUT



LEGENDS:

BB - BRACKET BEAM
- OPENING
- HB - HIDDEN BEAM
- STB - STRINGER BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN
- T - COLUMN CUT @ GROUND FLOOR ROOF LEVEL

- TOP ROD
- BOTTOM ROD
THK - THICKNESS

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 2000
ALL RCC MEMBERS IN M25 GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

A. COLUMNS	= 40
B. PILE	= 40
C. PILE CAP	= 50
D. TIE BEAM	= 30
E. PLINTH BEAM	= 30
F. ROOF BEAM	= 30
G. ROOF SLAB	= 20

0. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS.

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

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LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

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NO 3/58, OLD NO 2/1466, 200 FEET
EACHANKADU, ANNA NAGAR,
CHENNAI 600 117
CONTACT. +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

R. RAVI... GRADE - 1 (SR) Engg) 2/231 (CMDA)

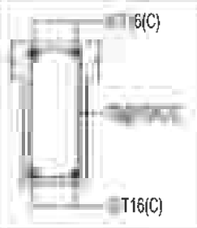
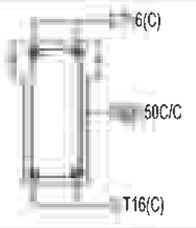
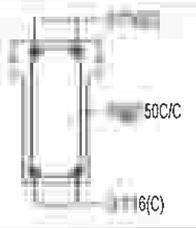
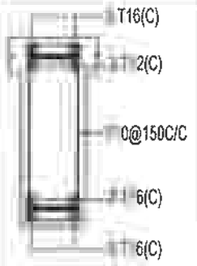
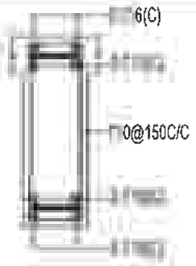
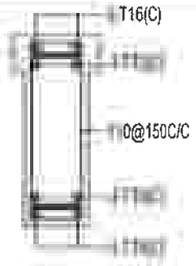
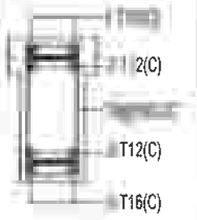
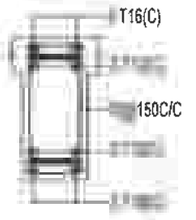
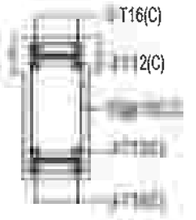
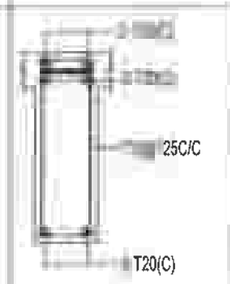
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DETAILED	MV	☐ TENDER
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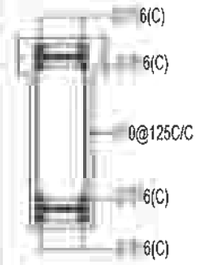
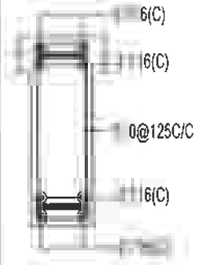
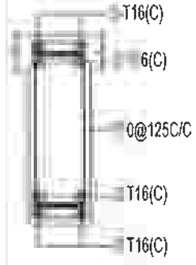
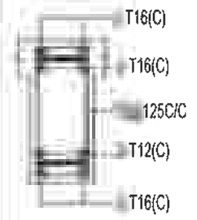
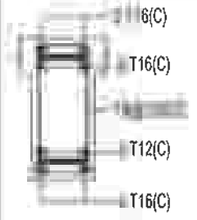
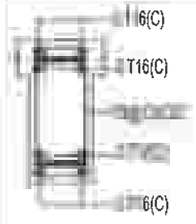
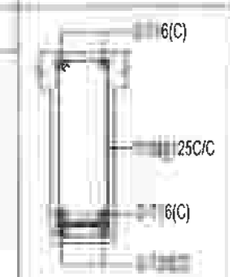
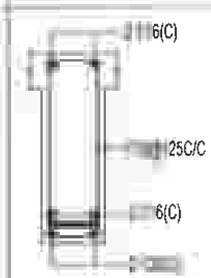
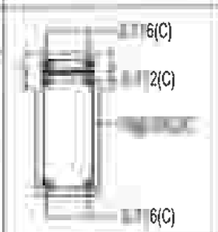
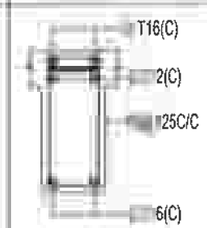
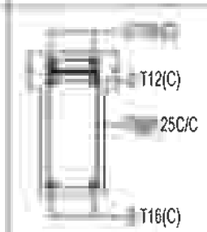
ROOF BEAM LAYOUT & SLAB DETAILS

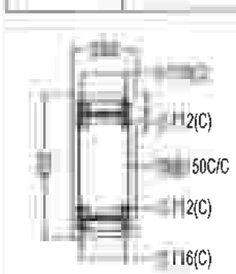
	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-05	05

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

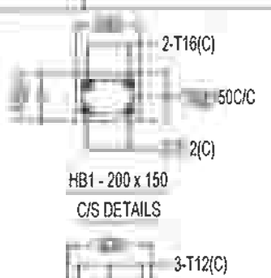
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 600) B3				
(200 X 450) B4				
(200 X 600) B5				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

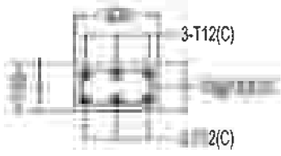
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B6				
(200 X 450) B7				
(200 X 600) B8				
(200 X 450) B9				



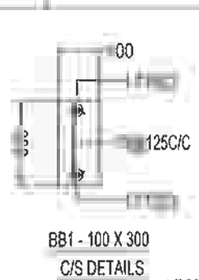
STB - 200 X 450



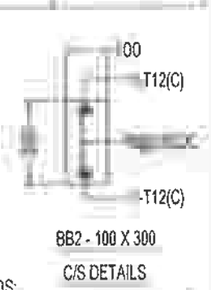
HB1 - 200 x 150 C/S DETAILS



HB2 - 300 x 150 C/S DETAILS



BB1 - 100 X 300 C/S DETAILS



BB2 - 100 X 300 C/S DETAILS

LEGENDS:

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   - A. COLUMNS = 40
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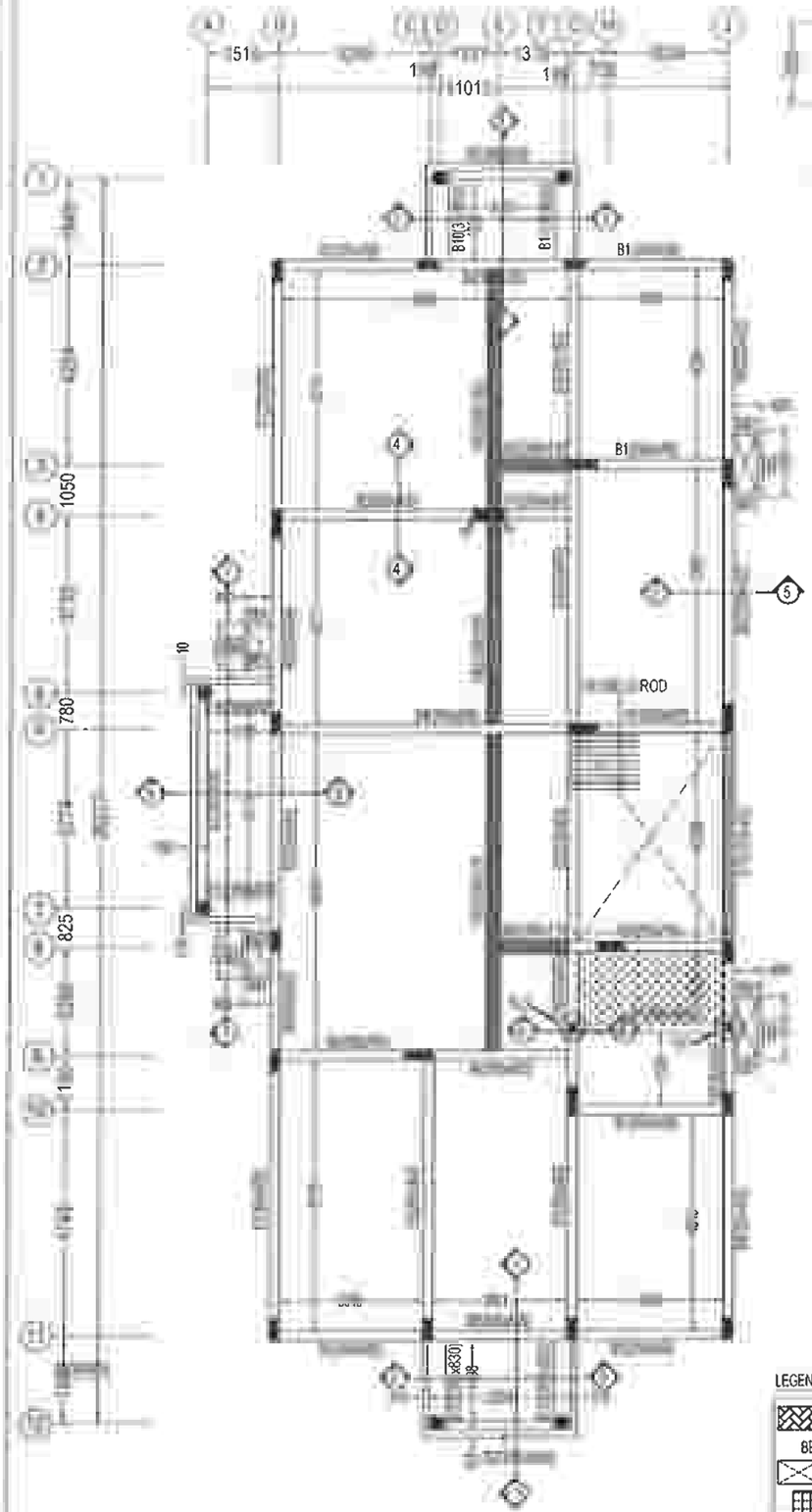
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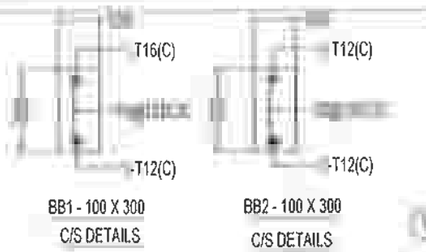
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GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-05	06

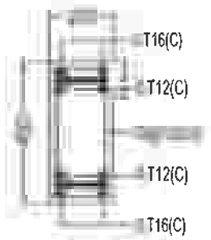


TERRACE BEAM LAYOUT

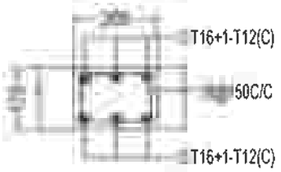


BB1 - 100 X 300
C/S DETAILS

BB2 - 100 X 300
C/S DETAILS



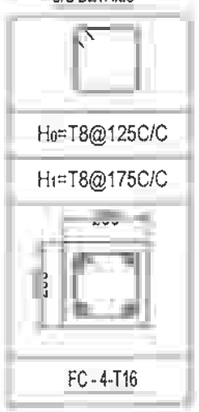
STB - 200 X 450
C/S DETAILS



HB1 - 300 x 175
C/S DETAILS

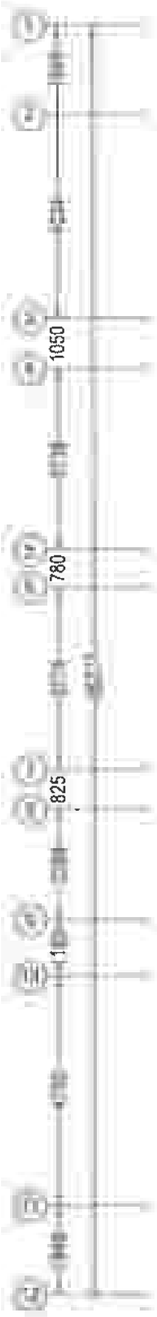


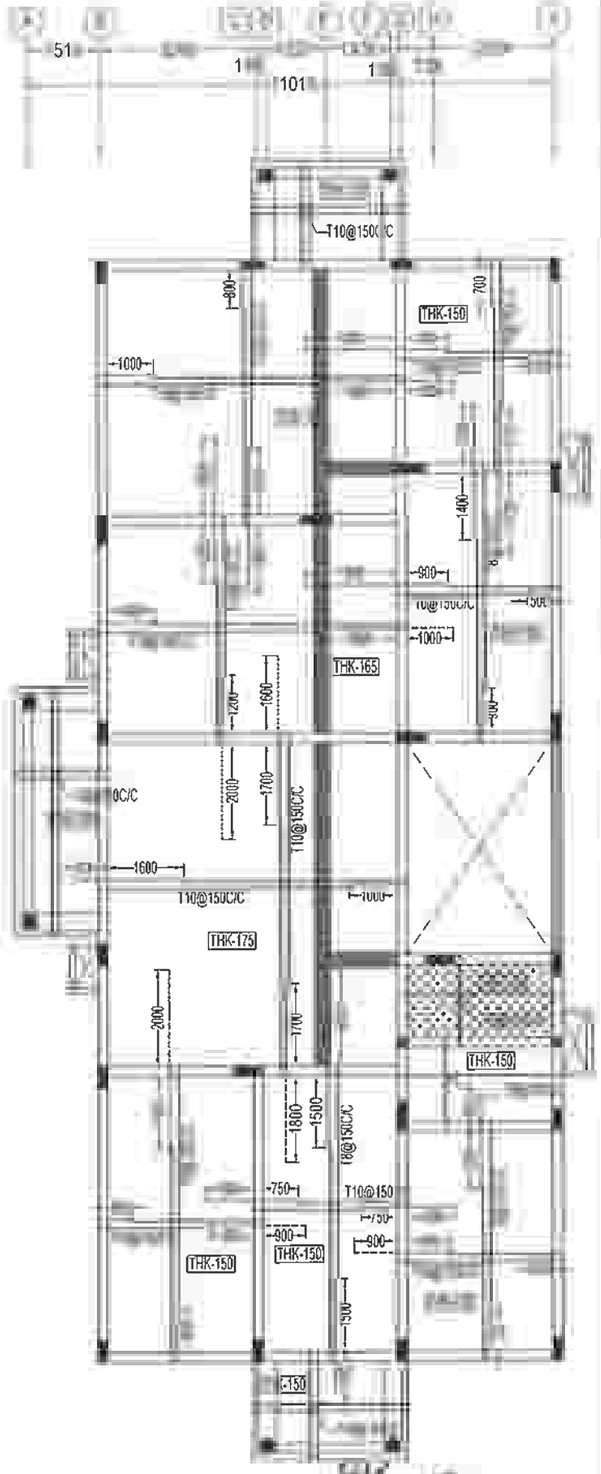
HB2 - 300 x 165
C/S DETAILS



LEGENDS:

- T - COLUMN CUT @ TOP OF TERRACE LEVEL
- BB - BRACKET BEAM
- OPENING
- "FC" - FLOATING COLUMN
- STB - STRINGER BEAM
- 300mm TOILET SLAB SUNKEN





- TOP ROD
- BOTTOM ROD

THK - THICKNESS

R. M[illegible] GRADE - 1 (CE)
M.E Engg)
Reg. No - [illegible]/19/12/231 (CMDA)

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ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
D NO 2/1468, 200 FEET ROAD,
NNA NAGAR, KOVILAMBAKKAM,
Safe
Structural Consultancy
[illegible]
[illegible]@[illegible].com
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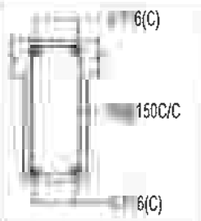
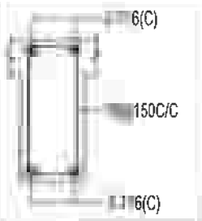
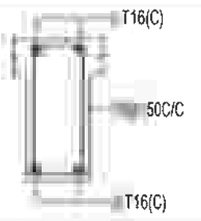
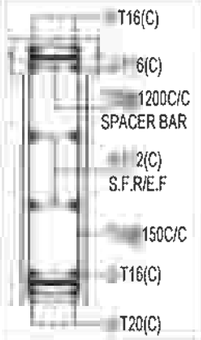
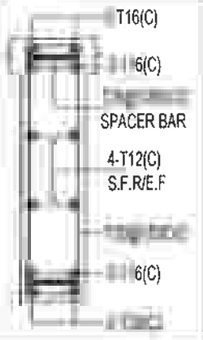
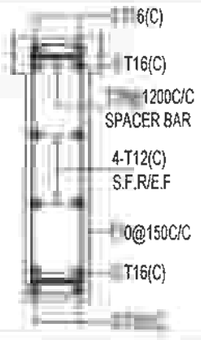
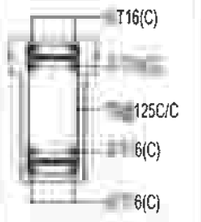
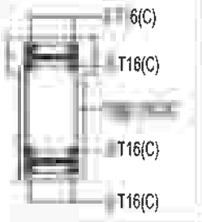
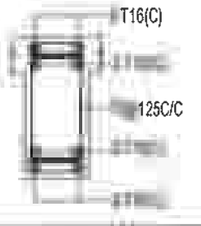
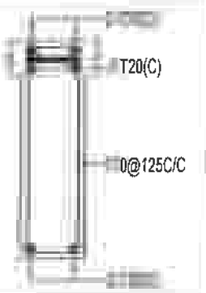
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
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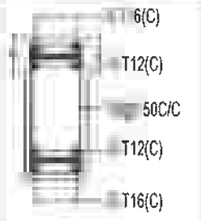
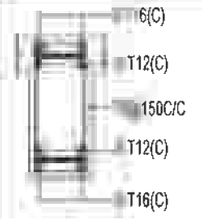
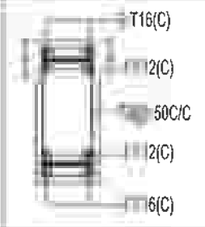
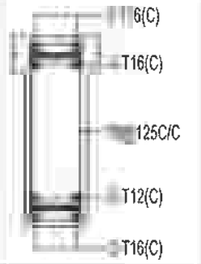
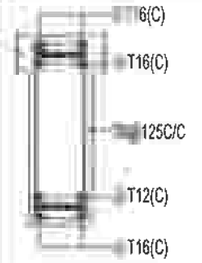
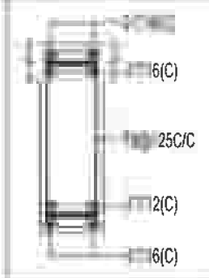
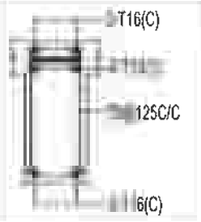
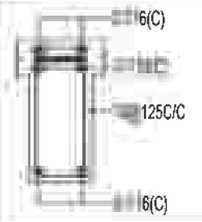
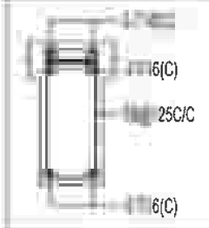
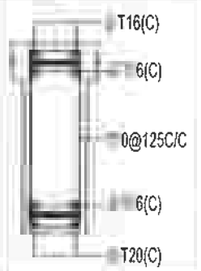
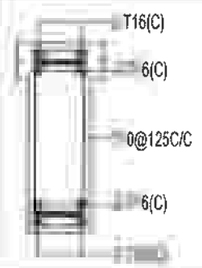
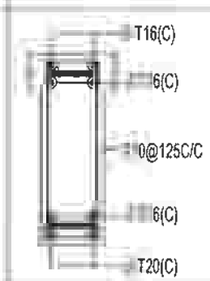
TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 830) B2				
(200 X 450) B3				
(200 X 600) B4				
(200 X 700) B5				

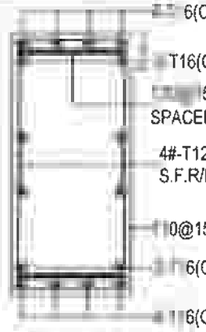
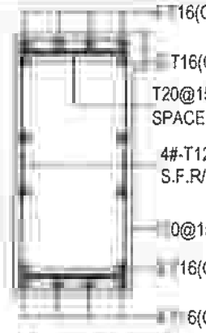
LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B6				
(200 X 600) B7				
(200 X 450) B8				
(200 X 600) B9				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @	DETAIL @ RIGHT
(380 X 830) B10			

R. [illegible] GRADE - (SE)
STRUCTURAL [illegible] Engg)
M.E [illegible] 19/12/231 [illegible]A)

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TECHNICAL NOTES

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHER WISE SPECIFIED
2. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
3. ANY DISCREPANCIES NOTICED IN THE DRG SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND
5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25 GRADE
7. "Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 40
   - B. PILE = 40
   - C. PILE CAP = 50
   - D. TIE BEAM = 30
   - E. PLINTH BEAM = 30
   - F. ROOF BEAM = 30
   - G. ROOF SLAB = 20
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 660KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 660KN BY CONSULTING WITH SOIL EXPERTS.
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 56 & 57)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

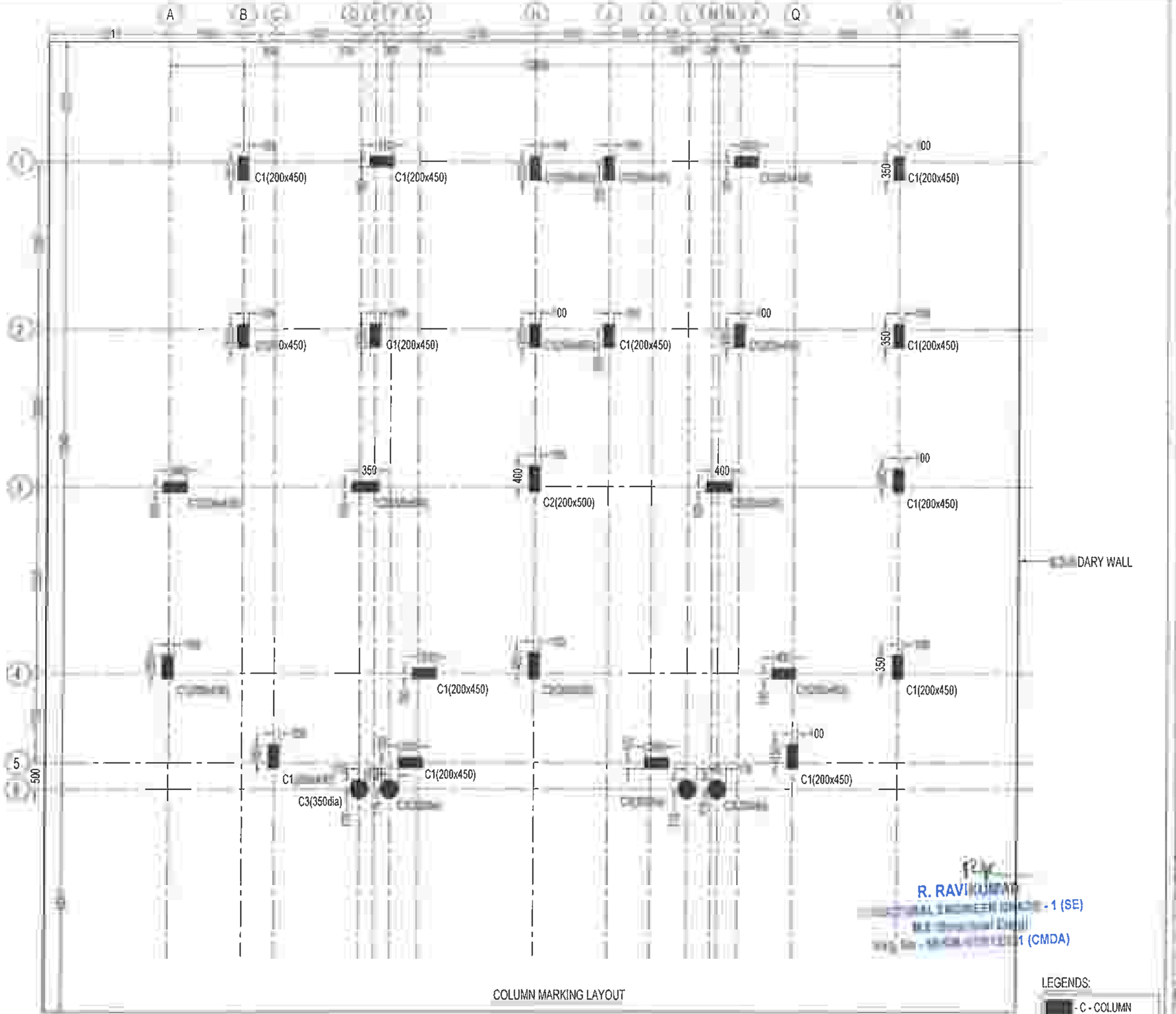
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS - 1

REV	DATE	PROJECT NO	SHEET.NO
R1	12/202	ST-2025-09-05	08



COLUMN MARKING LAYOUT

LEGENDS:

- C - COLUMN

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

- A. COLUMNS = 40
- B. PILE = 40
- C. PILE CAP = 50
- D. TIE BEAM = 30
- E. PLINTH BEAM = 30
- F. ROOF BEAM = 30
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0. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 58&59)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

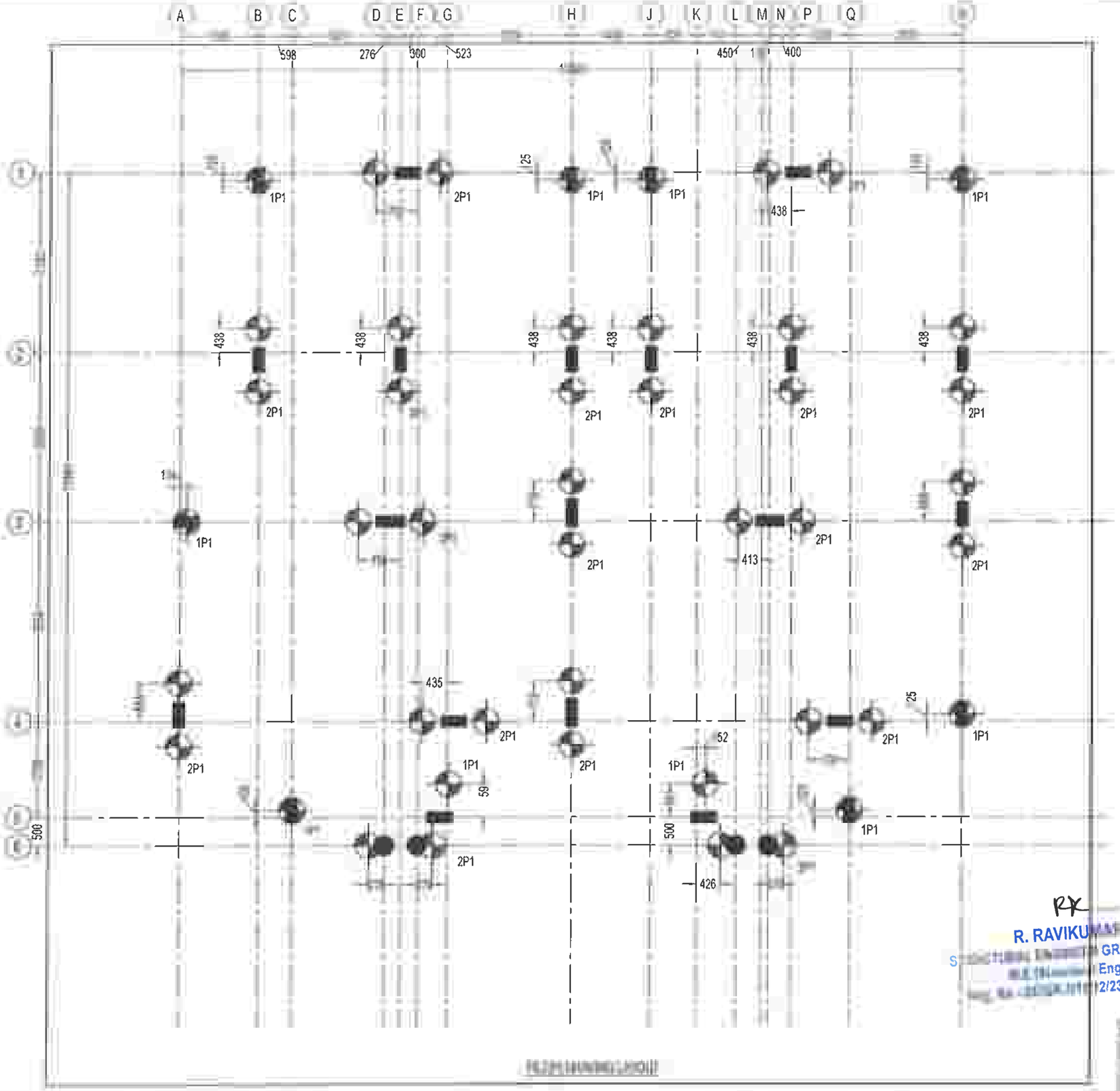
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.N
R0		ST-2026-06-18	01



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ALL RCC MEMBERS IN M25 GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS	= 40
B. PILE	= 40
C. PILE CAP	= 50
D. TIE BEAM	= 30
E. PLINTH BEAM	= 30
F. ROOF BEAM	= 30
G. ROOF SLAB	= 20

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LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR REINFORCEM

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 58&59)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULT
NEW NO 9/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

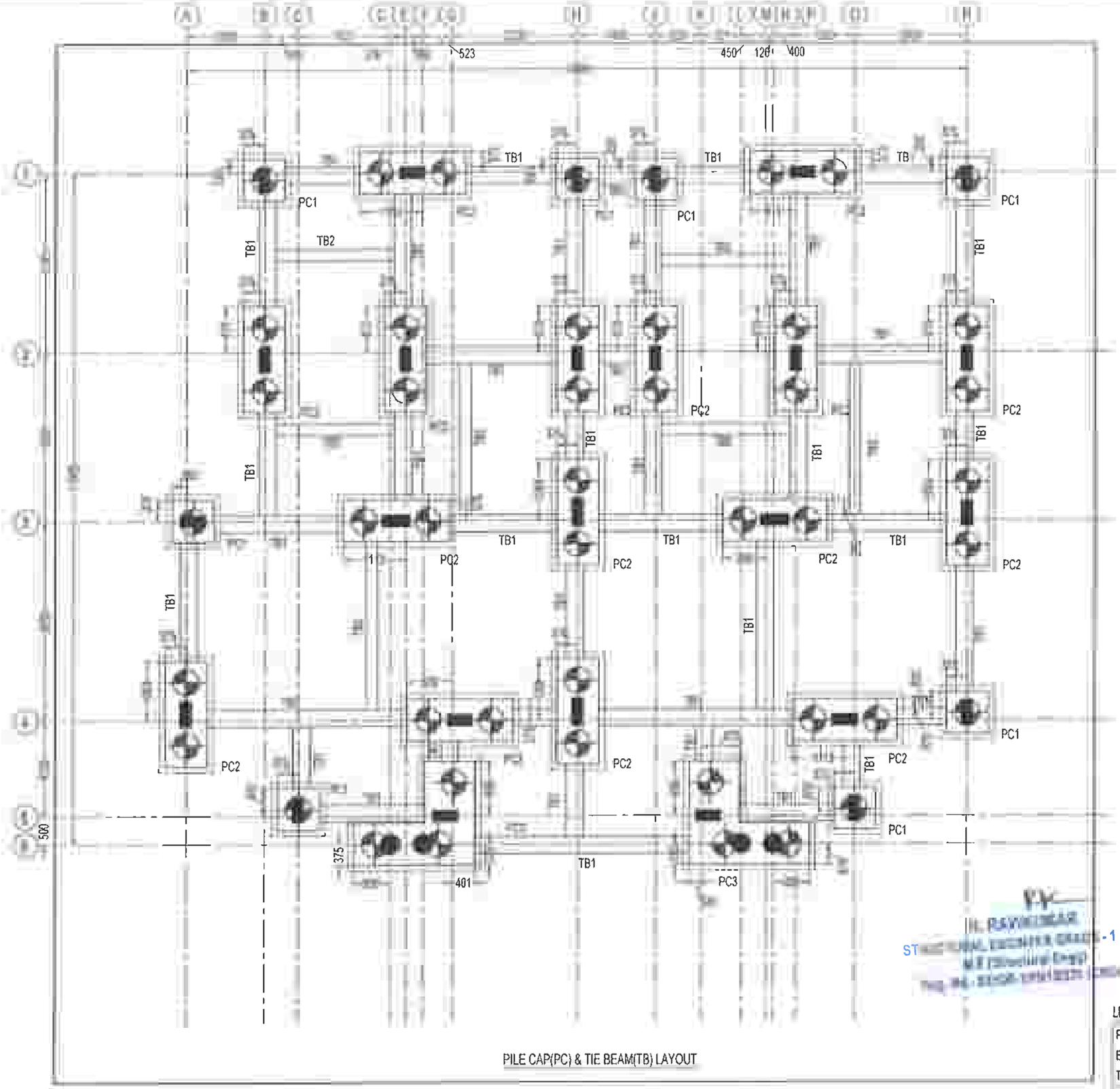
RK
R. RAVIKU
GRADE - 1 (SE)
Engg)
2/231 (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-18	02



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

LEGENDS:

PC - PILE CAP
BB - BRACKET BEAM
TB - TIE BEAM

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ALL RCC MEMBERS IN M25 GRADE

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8. CLEAR COVER TO REINFORCEMENT.
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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 58&59)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

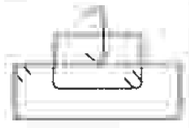
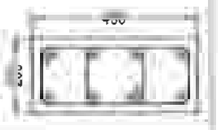
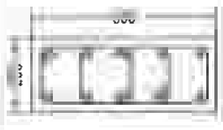
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DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

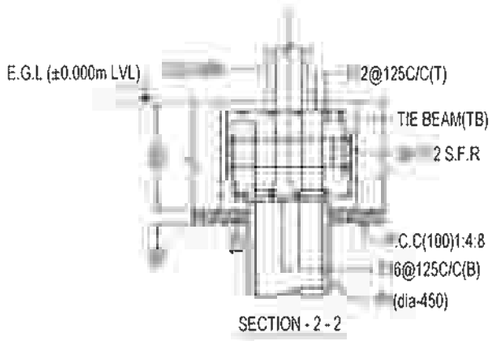
DRAWING NAME

PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-18	03

COLUMN REINFORCEMENT SCHEDULE

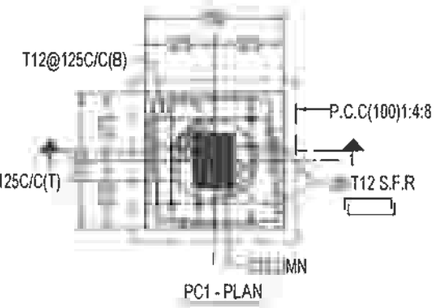
TERRACE LEVEL			
TO	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M25 ⊙ - T16 ⊕ - T12			
	8-T16	10-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3



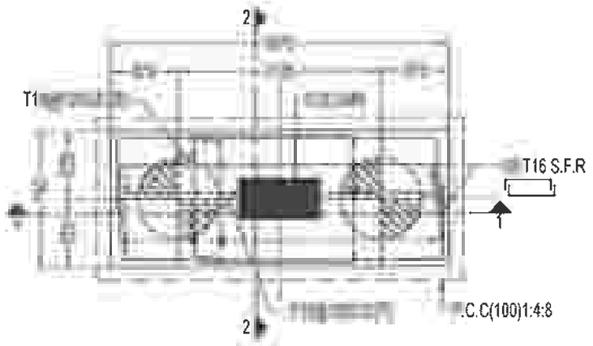
SECTION - 2 - 2



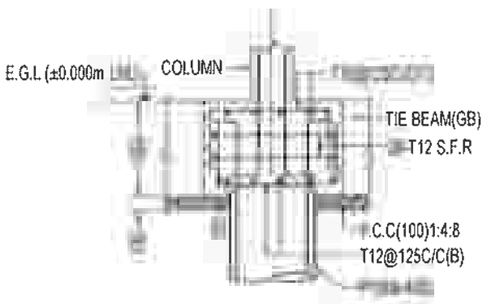
PILE (P1) - PLAN



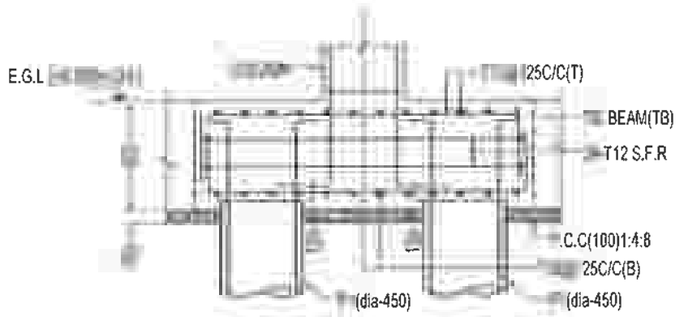
PC1 - PLAN



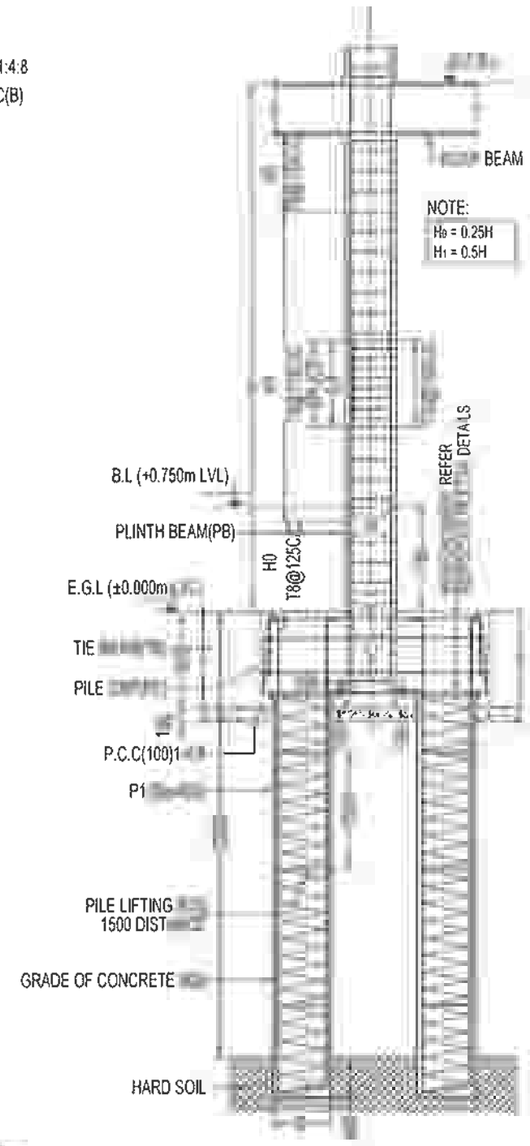
PC2 - PLAN



SECTION - 1 - 1



SECTION - 1 - 1



TYPICAL COLUMN & PILE CONFINING DETAILS

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

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   - A COLUMNS = 40
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   - C PILE CAP = 50
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   - E. PLINTH BEAM = 30
   - F ROOF BEAM = 30
   - G ROOF SLAB = 20
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS.
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

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ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 58&59)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

DESIGNED	RK	RELEASED FOR	
DETAILED	SG	☐	TENDER
SCALE	1:100	☑	APPROVAL
SHEET	A3	☐	CONSTRUCTION

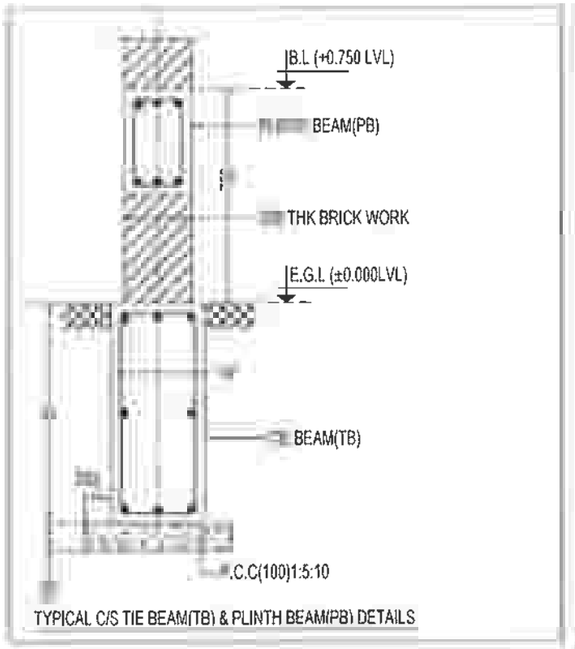
DRAWING NAME

COLUMN , PILE & PILE CAP DETAILS

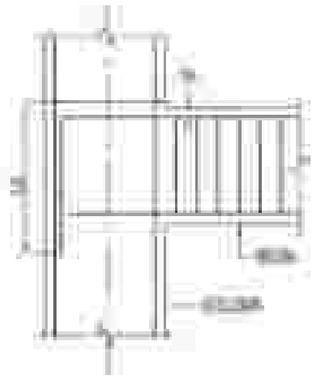
REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-18		04

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	T16(C), 150C/C, S.F.R/E.F, C.C, 6(C)	6(C), 2(C) S.F.R/E.F, C.C, 6(C)	T16(C), 50C/C, 2(C) S.F.R/E.F, C.C, 6(C)
(200 X 750) TB2	6(C), 50C/C, S.F.R/E.F, C.C, T16(C)	T16(C), 50C/C, 2(C) S.F.R/E.F, C.C	6(C), 2(C) S.F.R/E.F, C.C, T16(C)



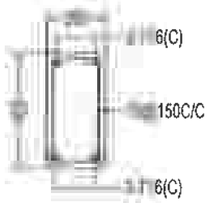
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS


TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT

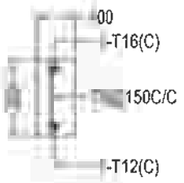
** Ld-45 TIMES DIA OF BAR

LEGENDS:

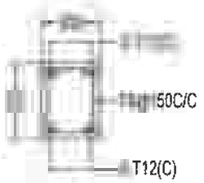
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



PB1 - 200 X 400
C/S DETAILS



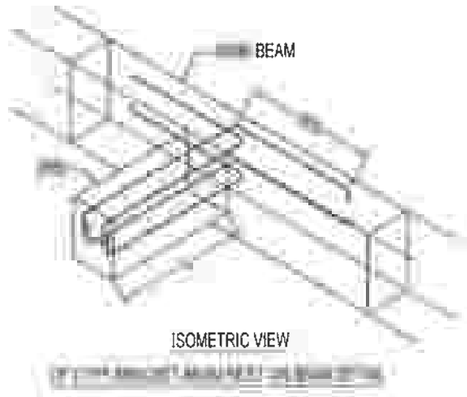
BB1 - 100 X 300
C/S DETAILS



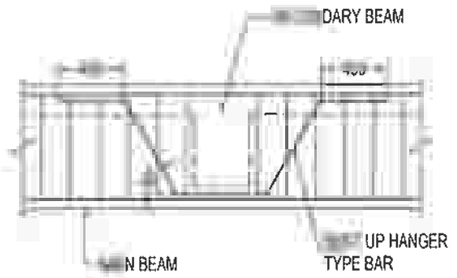
PB2 - 200 X 300
C/S DETAILS

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



ISOMETRIC VIEW



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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   F. ROOF BEAM = 30
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ARCHITECT

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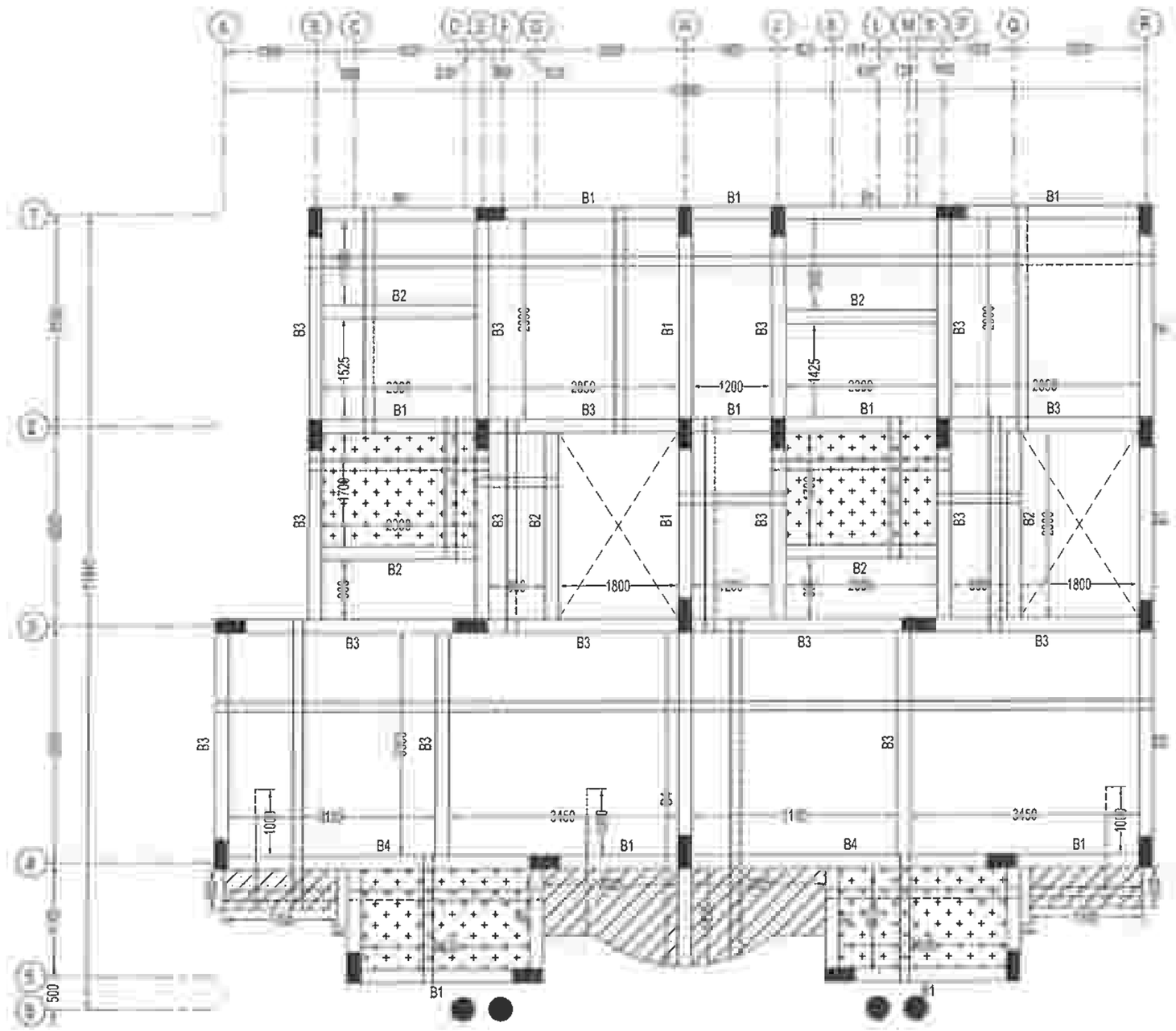
SAFE STRUCTURAL CONSULTANCY
OLD NO 2/1466, 200 FEET ROAD, ANNA NAGAR, KOVILAMBAKKAM, 600 117
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
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DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-18		05



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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY PVT
NEW NO [illegible] NO 2/1466, 200 FEET ROAD, EACHAN[illegible]NA NAGAR, KOVILAMBAKKAM, CHENNA[illegible]
Safe Structural Consultancy
[illegible]7
[illegible]com
[illegible]rafconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT, DETAILS & [illegible] DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2026-06-18	06

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

GROUND FLOOR ROOF BEAM LAYOUT &
SLAB LAYOUT & DETAILS

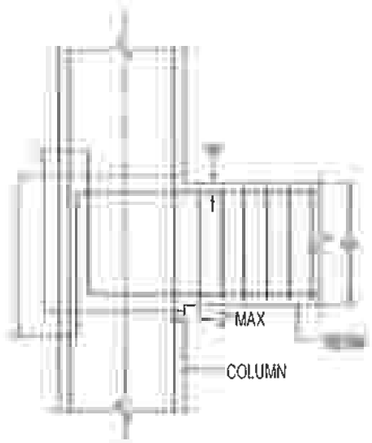
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:

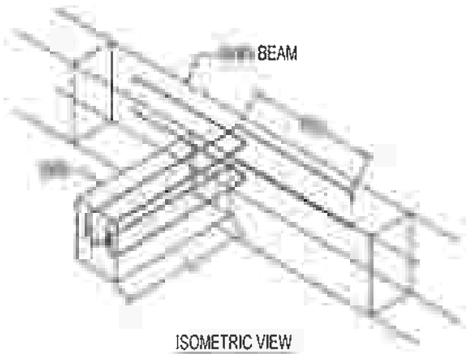
- OPENING
- BALCONY SLAB SUNKEN
- TOILET SLAB SUNKEN
- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1	6(C)	T16(C) 6(C)	T16(C)	
(200 X 450) B2	T12(C) 6(C)	T12(C) 6(C)	T12(C) 50C/C	
(200 X 450) B3	T16(C) 2(C) 0@150C/C 6(C) T16(C)	6(C) 2(C) 0@150C/C 6(C) 6(C)	6(C) 0@150C/C	
(200 X 450) B4	T16(C) 6(C) 6(C) T20(C)	6(C) 25C/C 6(C)	6(C) 0@125C/C	



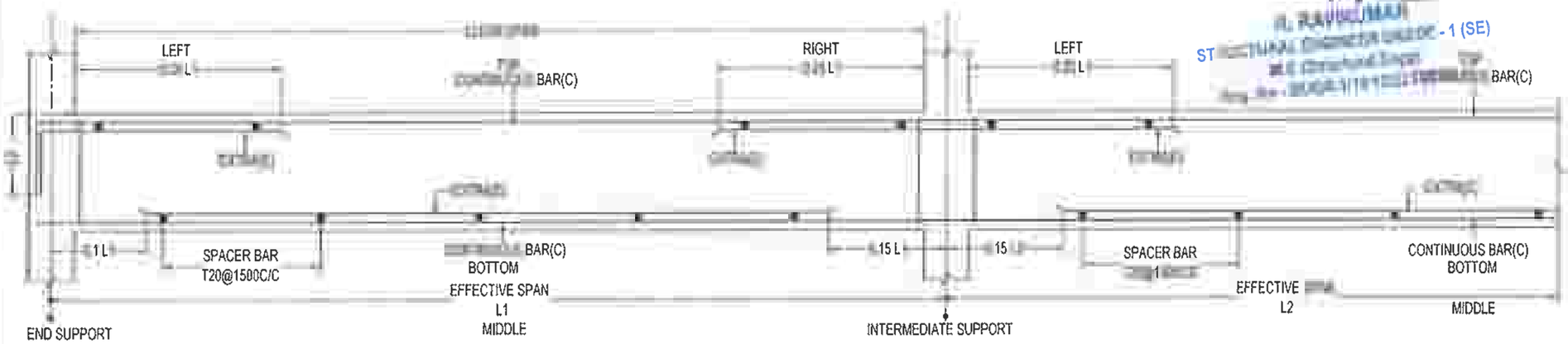
TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION



ISOMETRIC VIEW OF (TYP) BRACKET BEAM REST ON BEAM DETAIL

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

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Safe Structural Consultancy
ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-18	07

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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT, DETAILS &

EV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-18	08

NOTES:

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ALL SLAB RODS :-
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LONGER SPAN - T8@150C/C

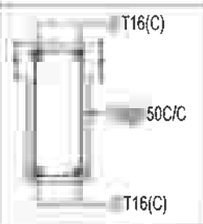
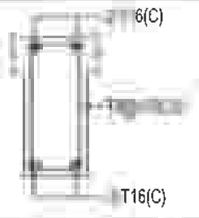
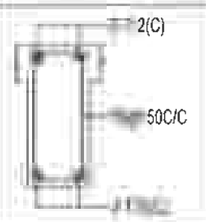
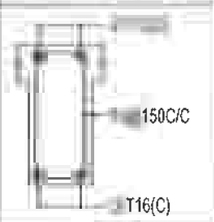
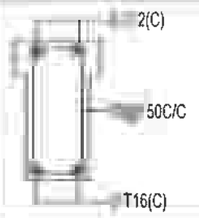
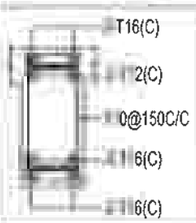
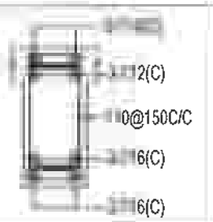
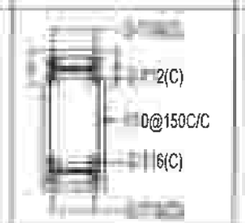
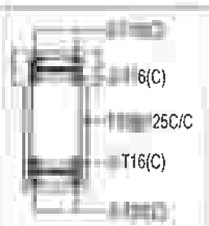
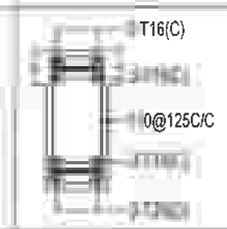
TERRACE BEAM LAYOUT &
SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

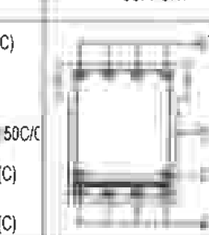
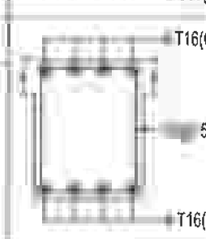
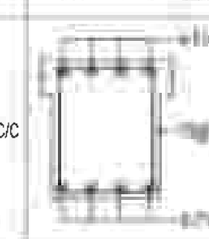
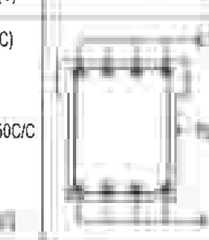
LEGENDS

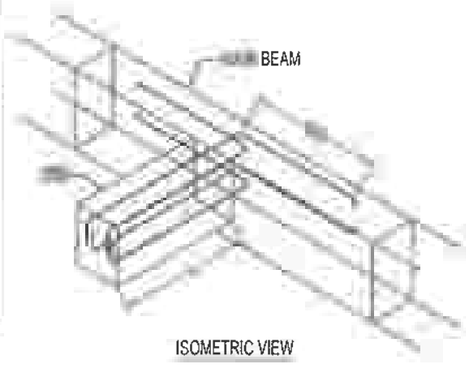
- OPENING
- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				

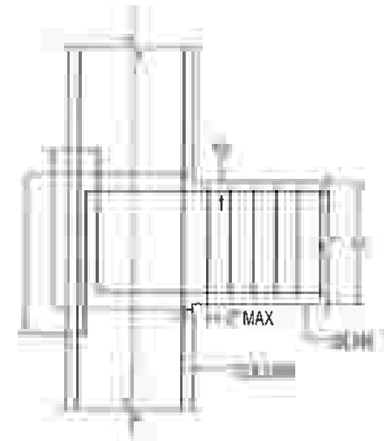
TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(350 X 450) B5			
(350 X 450) B6			



ISOMETRIC VIEW

OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



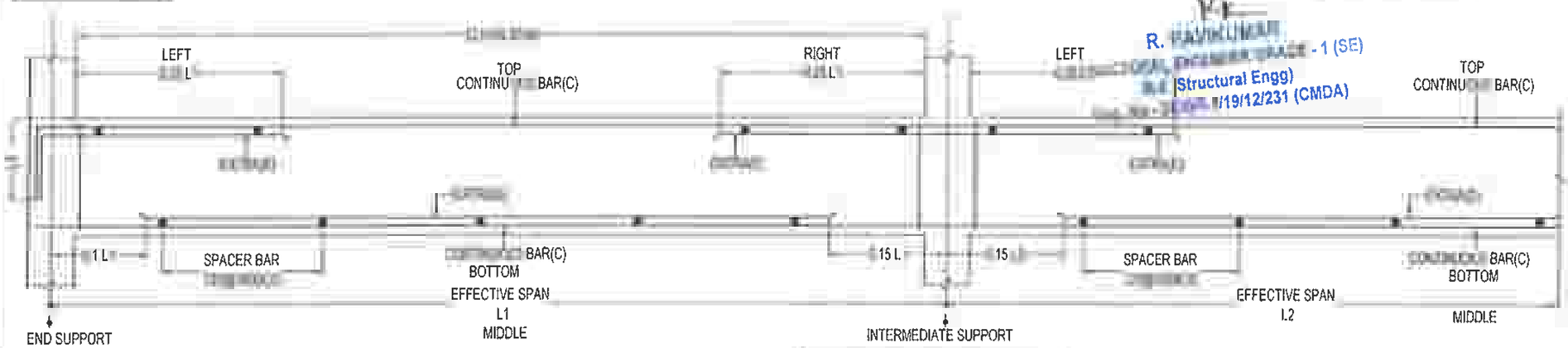
TYPICAL EXTERNAL JOINT DETAILS AT

BEAM COLUMN JUNCTION

LEGENDS

C - CONTINUOUS BAR

E - EXTRA BAR



TYPICAL BEAM CURTAILMENT DETAILS

* 0.15 L1 SHOULD NOT BE LESS THEN Ld

R. RAJKUMAR
- 1 (SE)
Structural Engg)
/19/12/231 (CMDA)

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- ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
  ALL RCC MEMBERS IN M25 GRADE
- "@" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT
  - A. COLUMNS = 40
  - B. PILE = 40
  - C. PILE CAP = 50
  - D. TIE BEAM = 30
  - E. PLINTH BEAM = 30
  - F. ROOF BEAM = 30
  - G. ROOF SLAB = 20
- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1, THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS.
- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

NT BARS

- ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED
- LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
- LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,
(VILLA 58&59)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

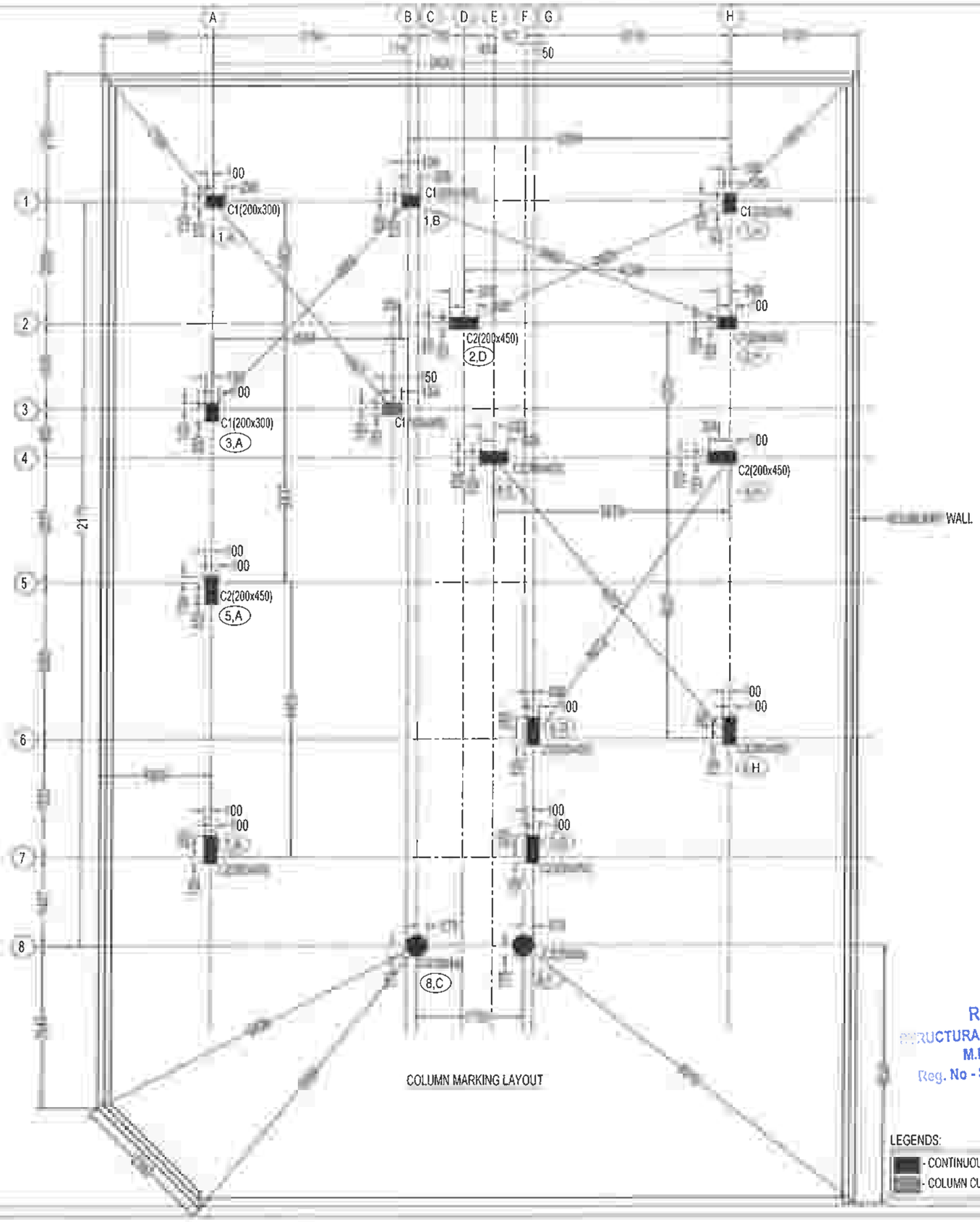
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1456, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT 9087725267
safestructuralchennai@gmail.com
Web

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-18	09



COLUMN MARKING LAYOUT

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5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25(1:1:2) GRADE
7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 1½"
   - B PILE = 2"
   - C PILE CAP = 2"
   - D. TIE BEAM = 1"
   - E. PLINTH BEAM = 1"
   - F ROOF BEAM = 1"
   - G. ROOF SLAB = ¾"
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

R. RAV[illegible]
STRUCTURAL ENGINEER GRADE - 1 (C
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:
- CONTINUOUS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF LEVEL

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

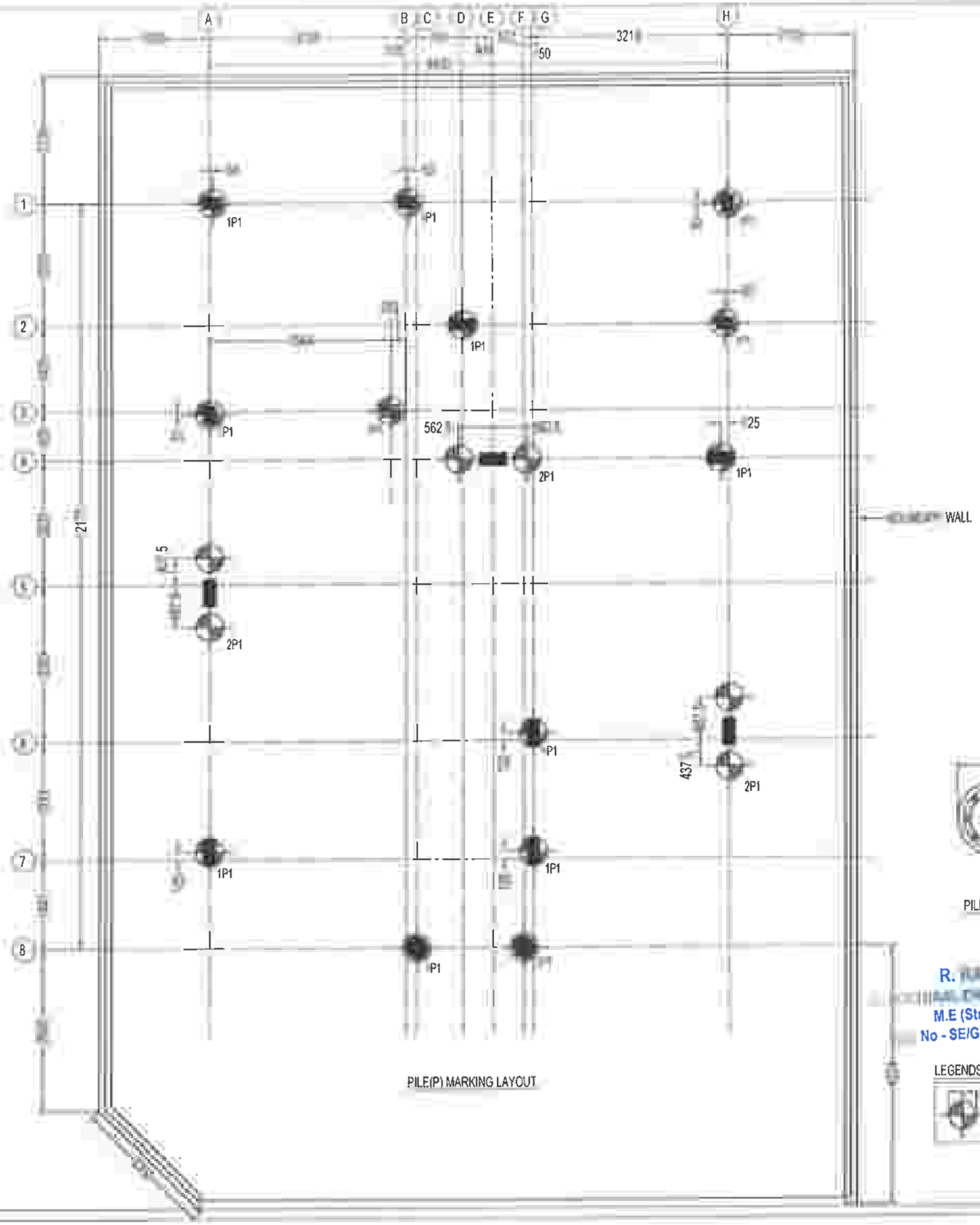
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET [illegible]
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

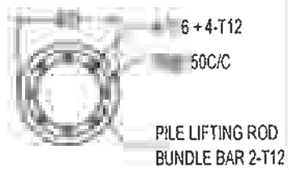
DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	[illegible]ECT NO	SHEET.NO
R0	[illegible]	ST-2025-09-08	01



PILE(P) MARKING LAYOUT



PILE (P1) - PLAN

R. RAVIKUMAR
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:

- PILE (450Ø)

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8. CLEAR COVER TO REINFORCEMENT
   - A. COLUMNS = 1½"
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   - C PILE CAP = 2"
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   - F ROOF BEAM = 1"
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10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
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LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE

ii) VIDED AT MID HEIGHT OF FLOOR AND

iii) L BE PROVIDED AT THE POINT

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

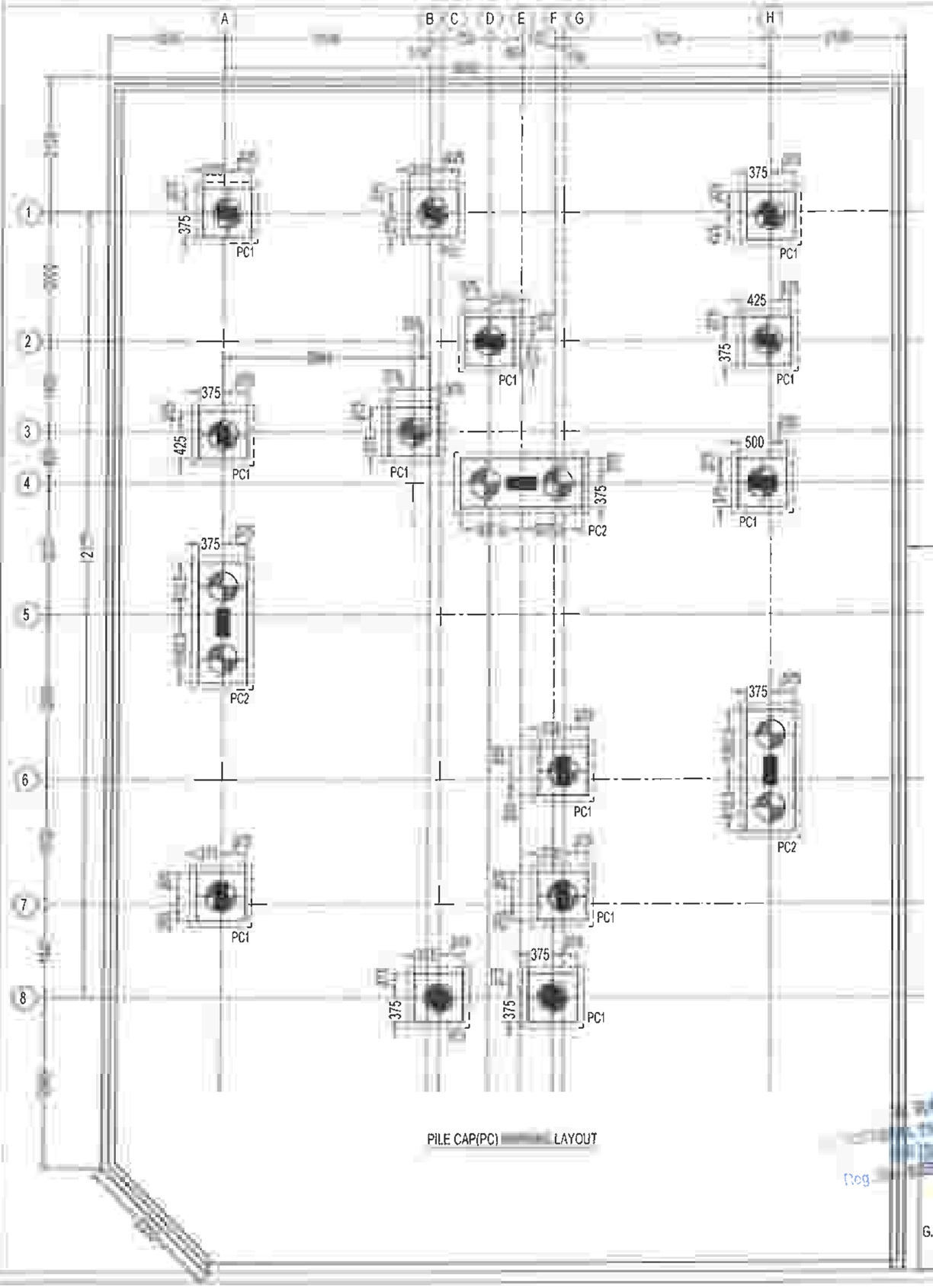
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CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web. : www.safestructuralconsultancy.com

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

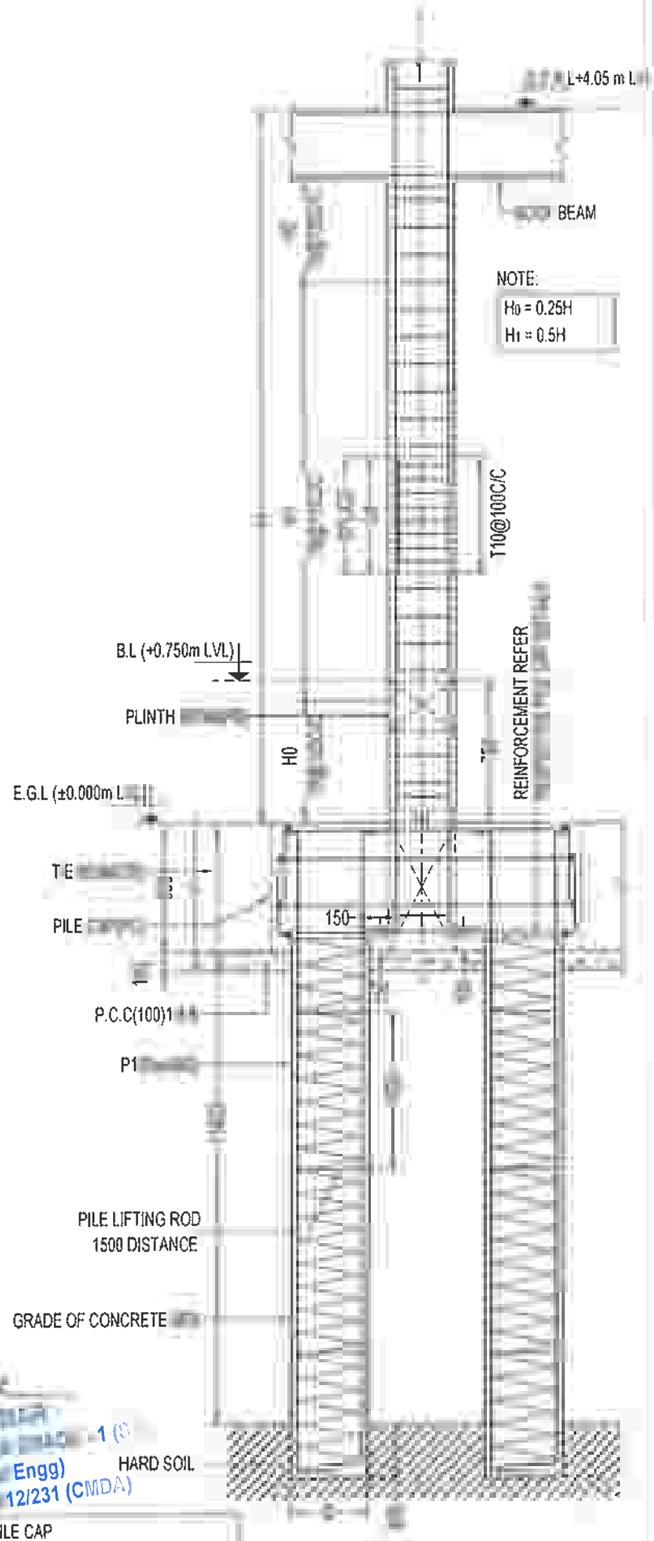
DRAWING NAME

PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-08	02



PILE CAP(PC) LAYOUT



TYPICAL COLUMN & PILE CONFINING DETAILS

PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

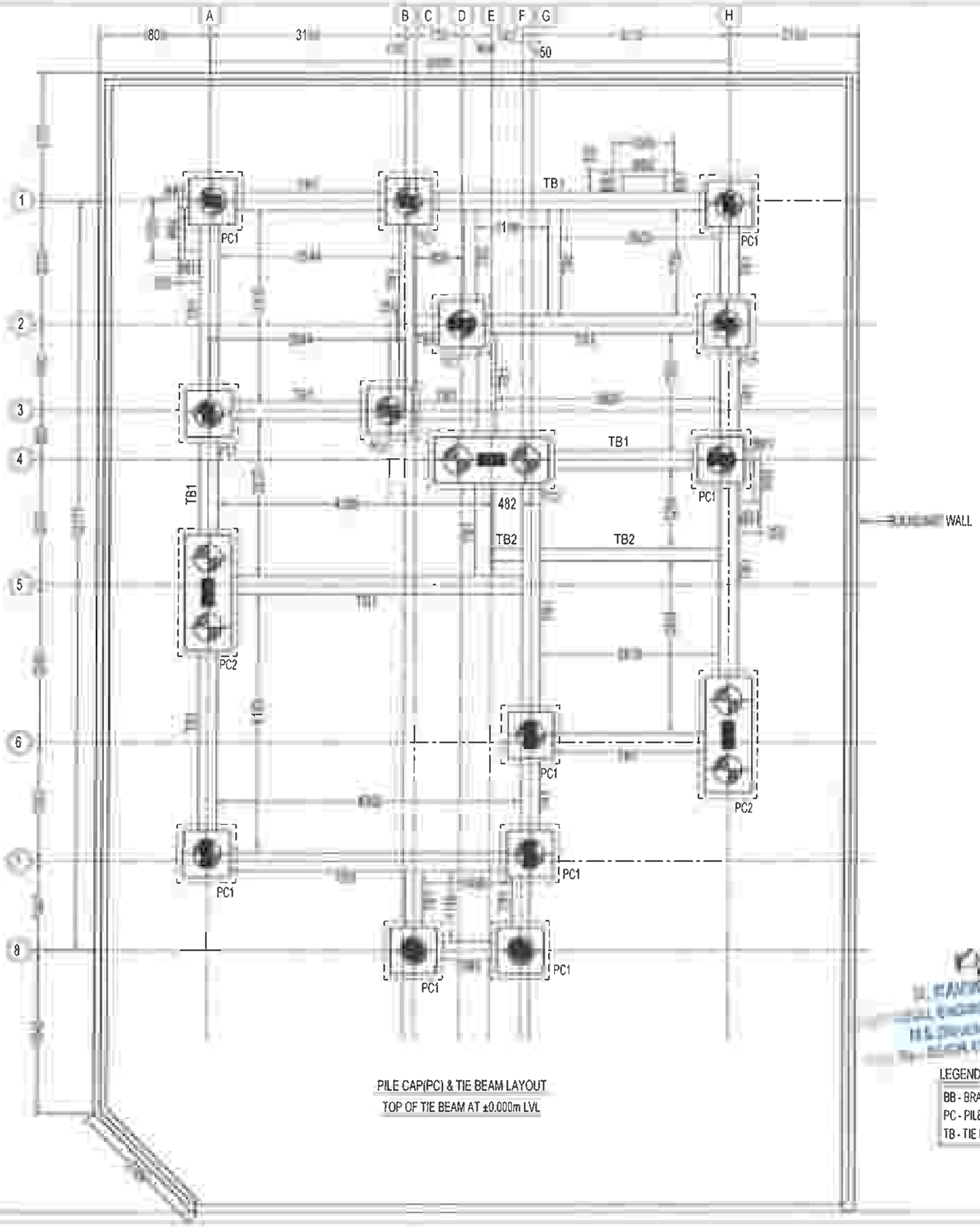
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
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CHENNAI 600 117
CONTACT +91 9087725267
safestructuralchennai@gmail.com
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-08	03



PILE CAP(PC) & TIE BEAM LAYOUT
TOP OF TIE BEAM AT ±0.000m LVL

LEGENDS:

BB - BRACKET BEAM
PC - PILE CAP
TB - TIE BEAM

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] D NO 2/1466, 200 FEET ROAD,
EACHAN[illegible]NNA NAGAR, KOVILAMBAKKAM,
CHENNA[illegible]7.
[illegible]CT. : [illegible]7
[illegible]ctural[illegible].com
[illegible]www.[illegible]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

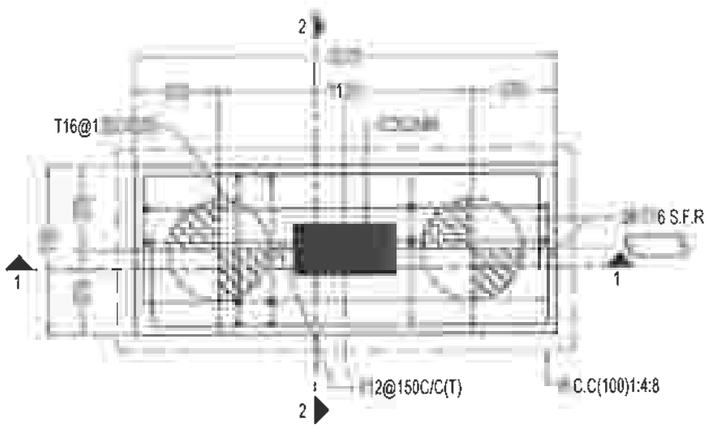
DRAWING NAME

PILE CAP(PC) & TIE BEAM LAYOUT

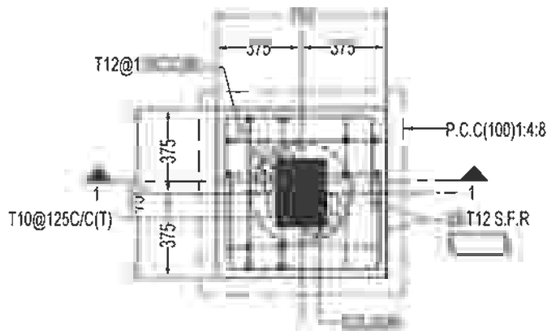
REV	DATE	PROJECT NO	SHEET.NO
R0	1[illegible]	ST-2025-09-08	04

COLUMN REINFORCEMENT SCHEDULE:

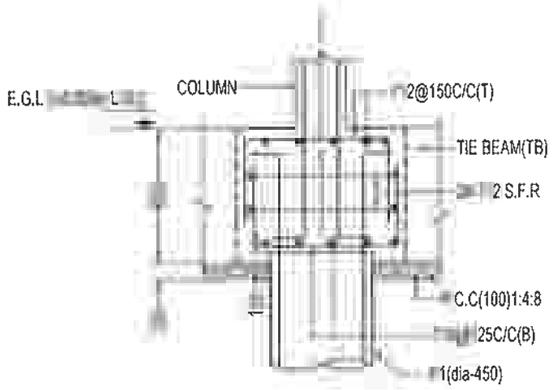
TERRACE LEVEL			
TO	H_0=T8@125C/C	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M25 ⊙ - T16 ⊕ - T12			
	4-T16 + 2-T12	4-T16 + 4-T12	3-T16 + 3-T12
COLUMN MARKED	C1	C2	C3



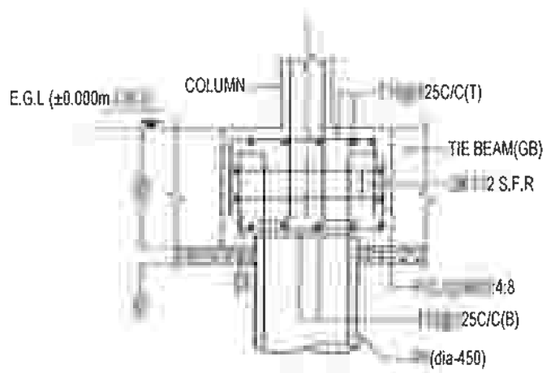
PC2 - PLAN



PC1 - PLAN



SECTION - 2 - 2

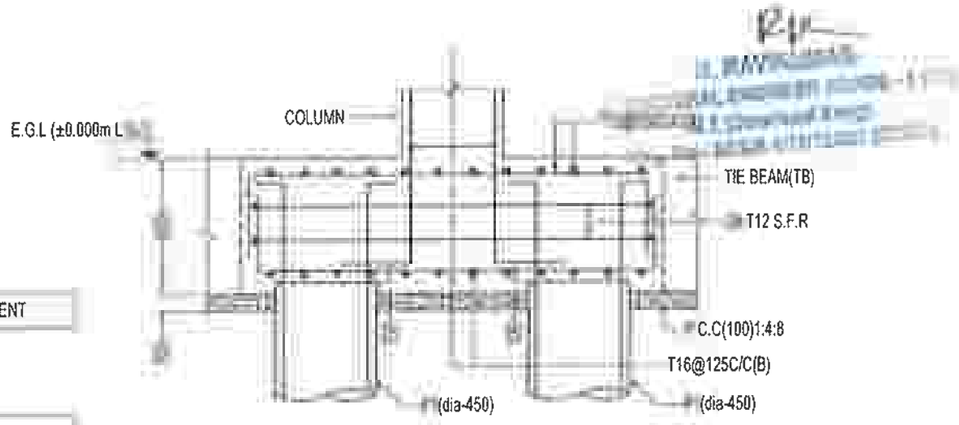


SECTION - 1 - 1

** S.F.R - SIDE FACE REINFORCEMENT

LEGENDS:

B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



SECTION - 1 - 1

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AT ECR, CHENNAI.

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ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1468, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

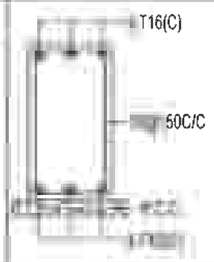
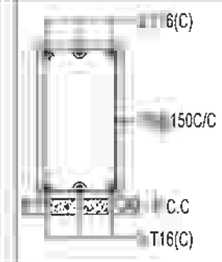
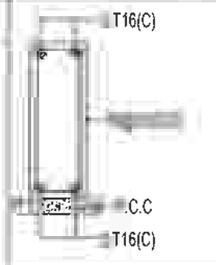
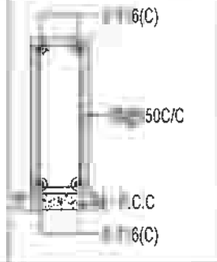
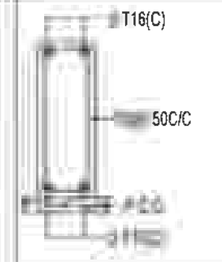
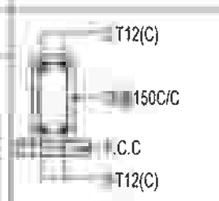
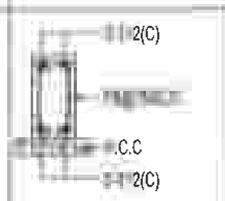
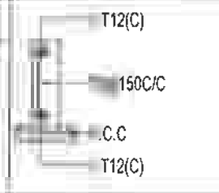
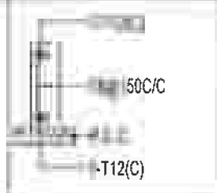
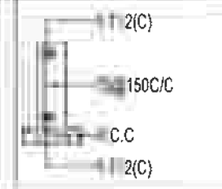
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

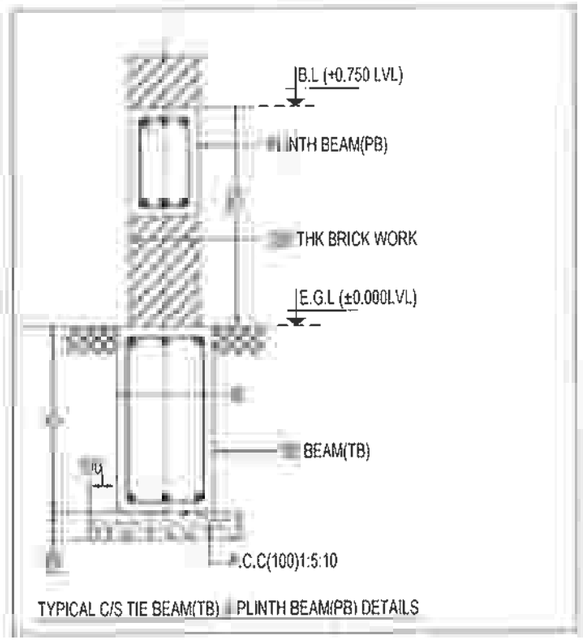
COLUMN , PILE & PILE CAP DETAILS

REV	DATE	PROJECT NO	SHEET NO
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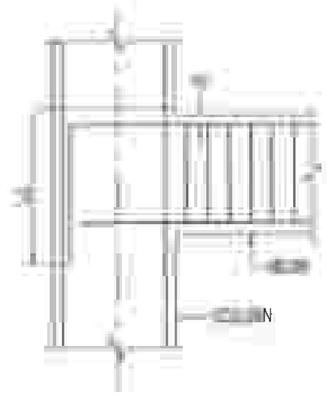
TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 650) TB1			
(200 X 650) TB2			
(150 X 300) BB1			
(100 X 300) BB2			

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



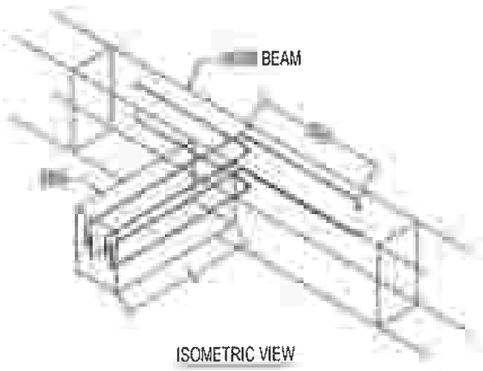
TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS



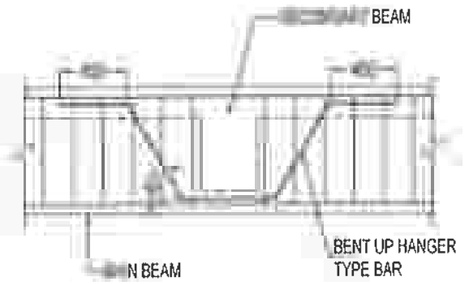
TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT
** Ld-45 TIMES DIA OF BAR

LEGENDS:

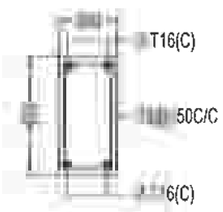
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



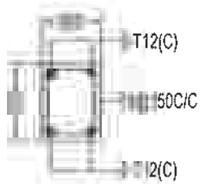
ISOMETRIC VIEW
OF (TYP) BRACKET & REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE
PROVIDED AT 2-T16



PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS

R. RAVI
STRUCTURAL ENGINEER GRADE - 1
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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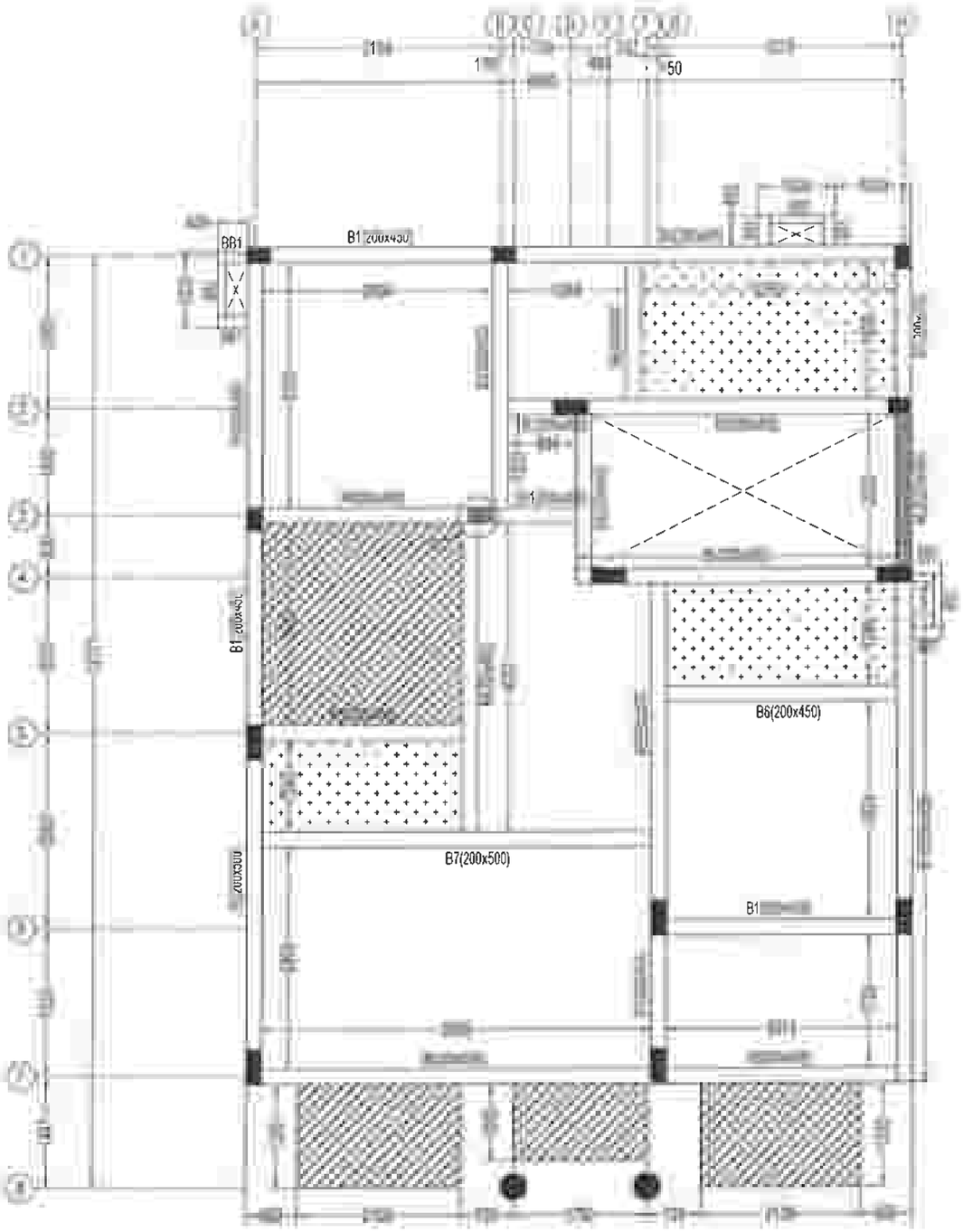
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
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SCALE	1:100	☑ APPROVAL
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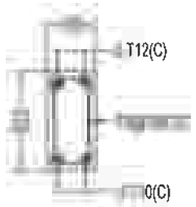
TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET.NO
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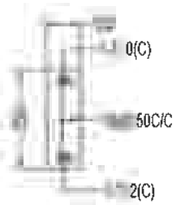
GROUND FLOOR ROOF BEAM LAYOUT

** TOP OF BEAM & SLAB AT+4.05M LEVEL



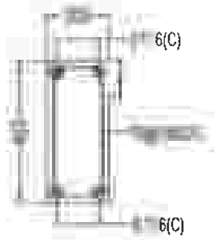
BB1-150 x 300

C/S DETAILS



BB2-100 x 300

C/S DETAILS



MLB - 200 X 450

C/S DETAILS

LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - MLB - MID LANDING BEAM
- - 100mm BALCONY SLAB SUNKEN
- - 300mm TOILET SLAB SUNKEN

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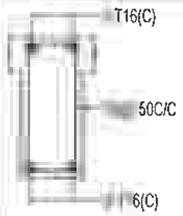
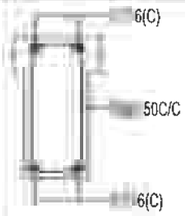
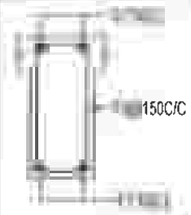
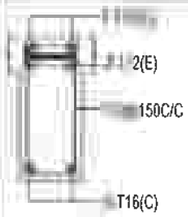
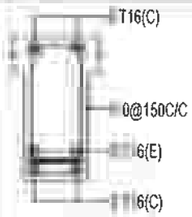
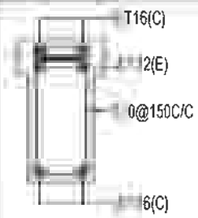
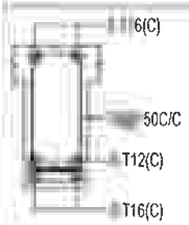
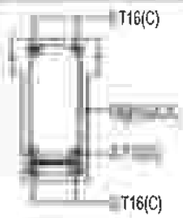
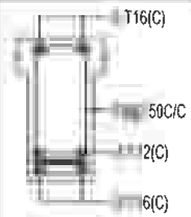
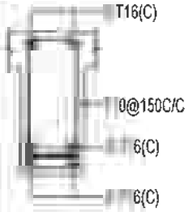
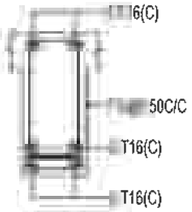
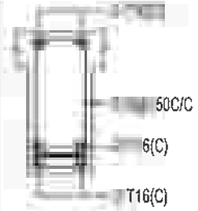
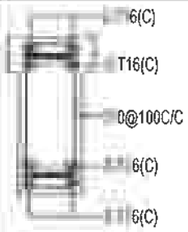
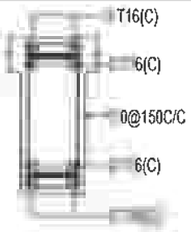
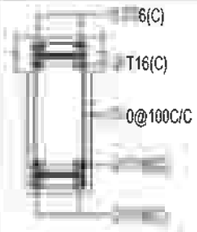
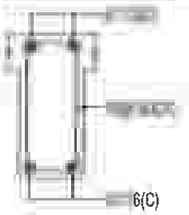
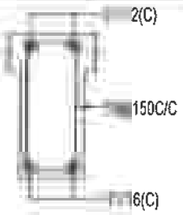
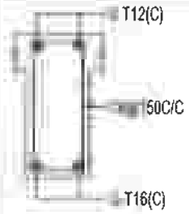
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

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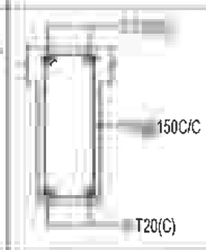
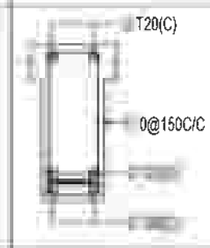
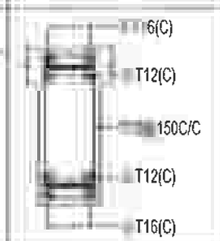
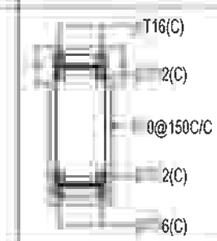
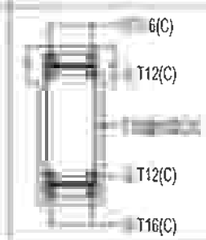
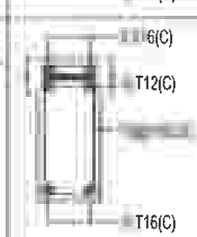
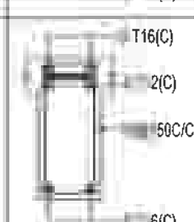
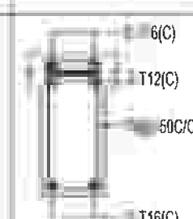
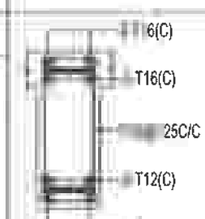
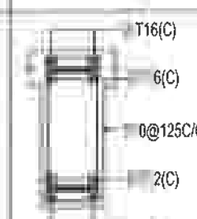
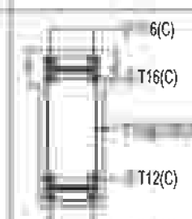
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-09-08	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 500) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 500) B7				
(200 X 500) B8				
(200 X 450) B9				
(200 X 500) B10				



TYPICAL TOILET SUNKEN SLAB DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (Civil Engg)
M.E (Structural Engg)
Reg. No - SE/GR-I/12/231 (CMDA)

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4. EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND.
5. ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.
6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 2000
   ALL RCC MEMBERS IN M25(1:1:2) GRADE
7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   A. COLUMNS = 1½"
   B. PILE = 2"
   C. PILE CAP = 2"
   D. TIE BEAM = 1"
   E. PLINTH BEAM = 1"
   F. ROOF BEAM = 1"
   G. ROOF SLAB = ¾"
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 800KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
10. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
11. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

REINFORCEMENT BARS

1. AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
2. LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
3. LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

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ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

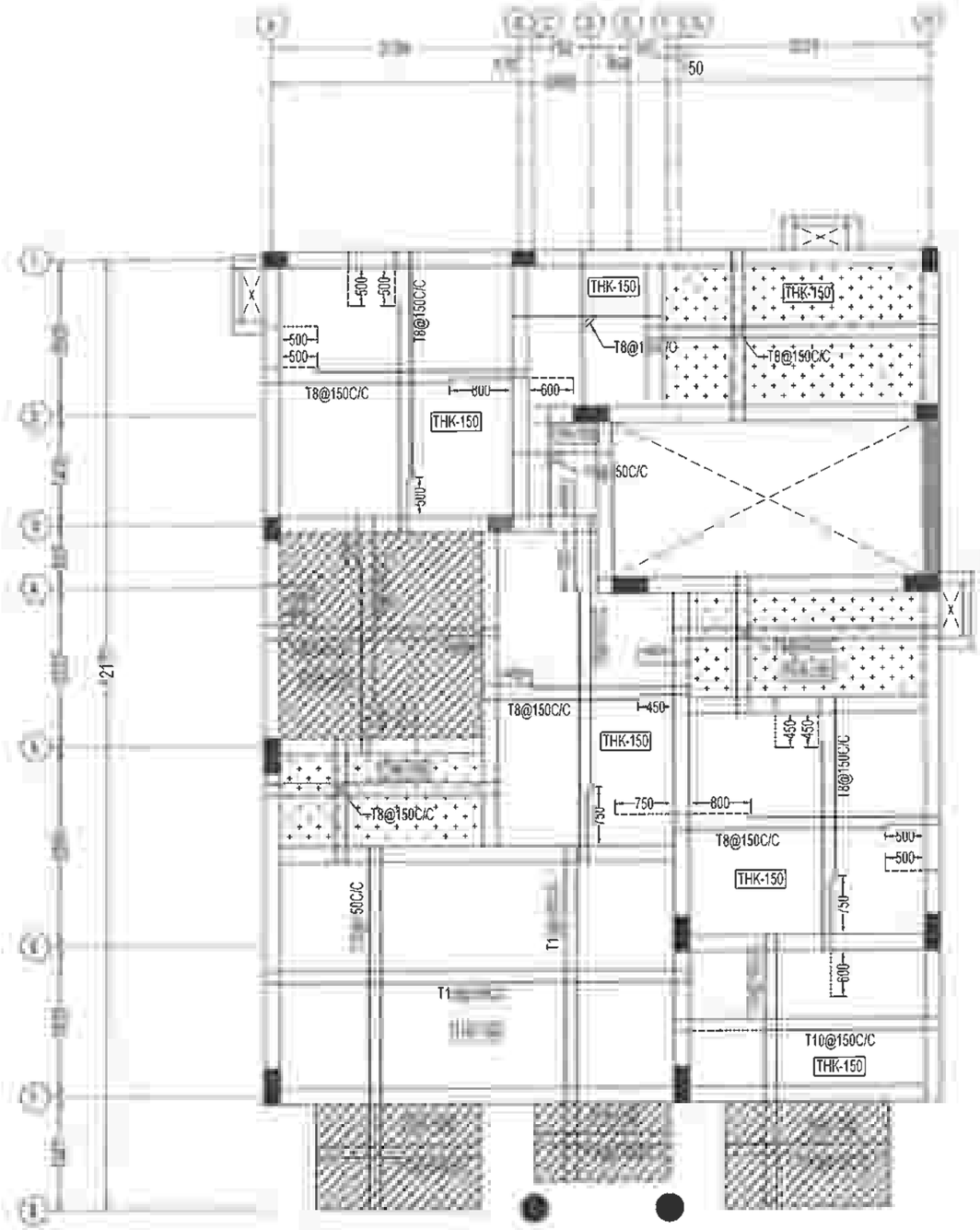
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NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR,
CHENNAI - 600 117
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-08	08



GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

** TOP OF BEAM & SLAB AT+4.05M LEVEL

LEGEND:

- BOTTOM ROD
- TOP ROD
THK - THICKNESS

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AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

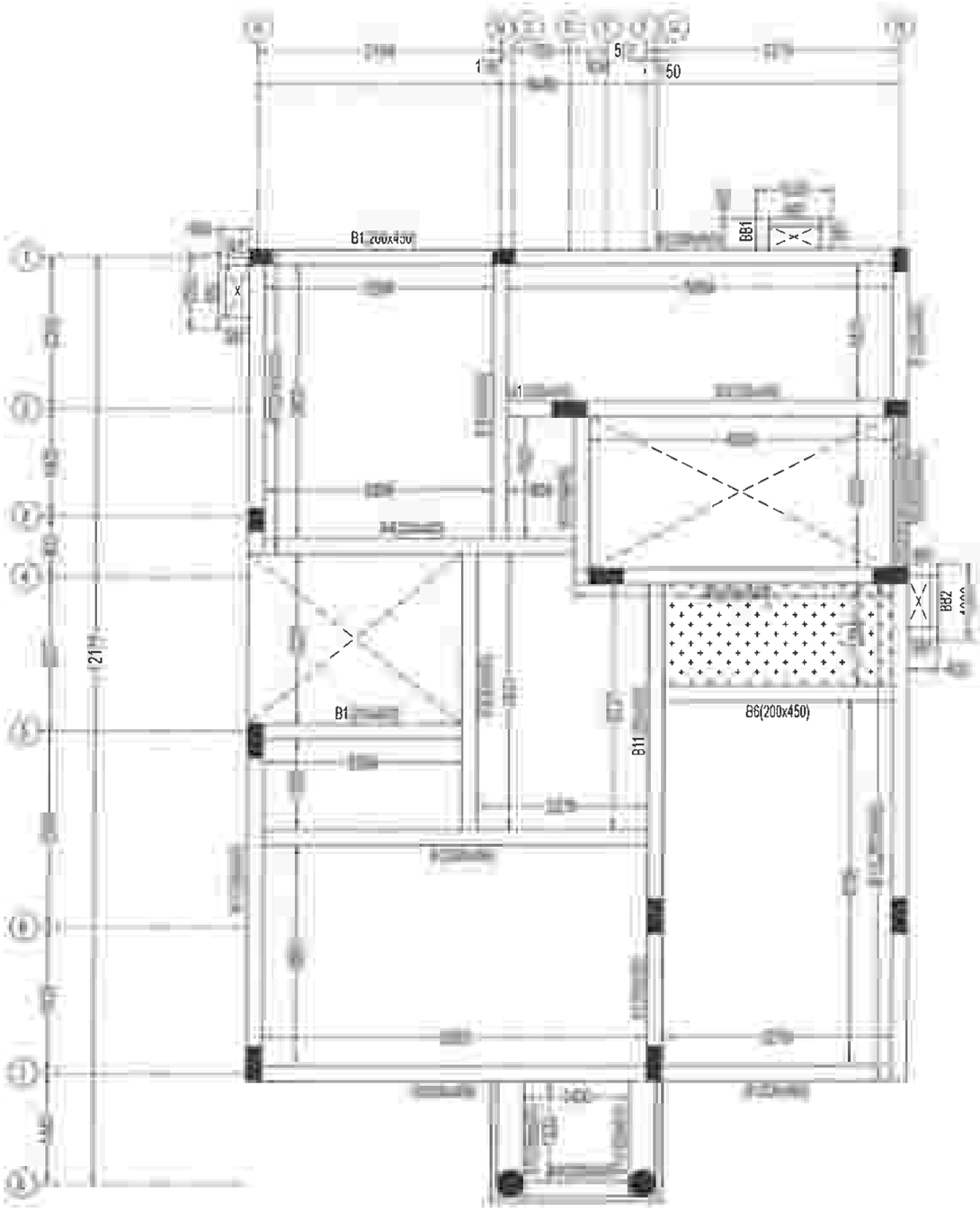
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STRUCTURAL [illegible] GRADE - 1 (SE)
M.E [illegible]tural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

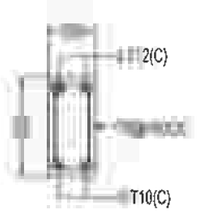
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GROUND FLOOR ROOF SLAB DETAILS

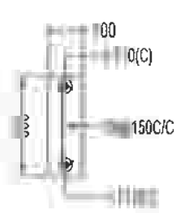
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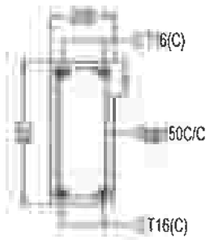
TERRACE BEAM LAYOUT
** TOP OF BEAM & SLAB AT+7.30M LEVEL



BB1-150 x 300
C/S DETAILS



BB2-100 x 300
C/S DETAILS



MLB - 200 x 450
C/S DETAILS

LEGENDS:

BB - BRACKET BEAM
- OPENING
- MLB - MID LANDING BEAM
- 300mm TOILET SLAB SUNKEN

GRADE - 1 (SE)
Engg)
2/231 (CMDA)

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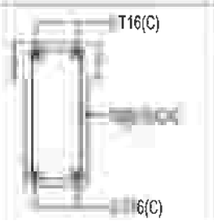
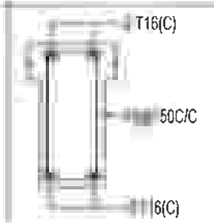
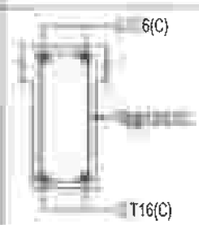
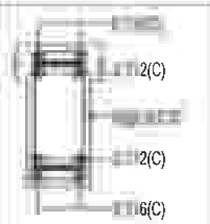
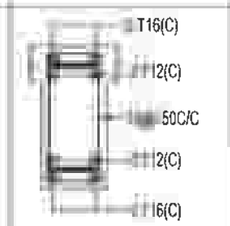
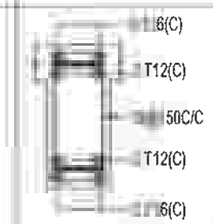
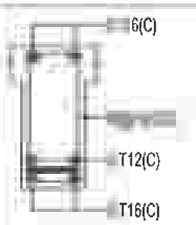
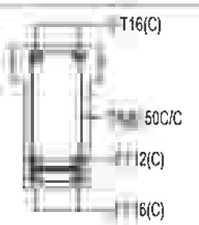
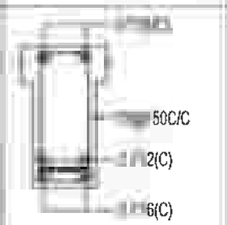
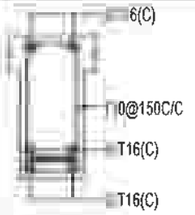
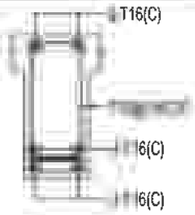
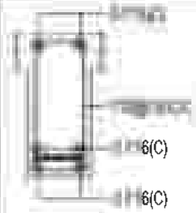
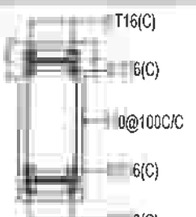
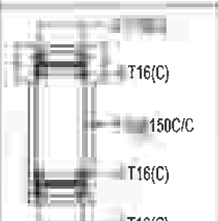
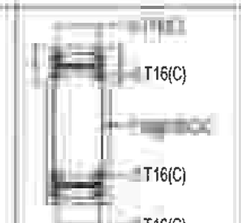
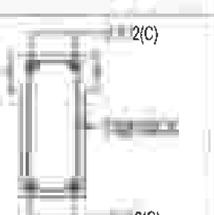
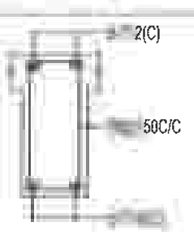
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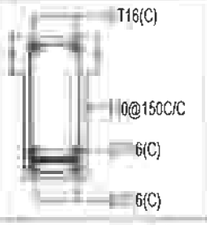
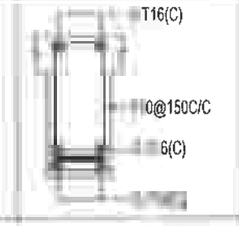
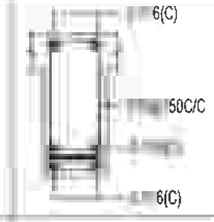
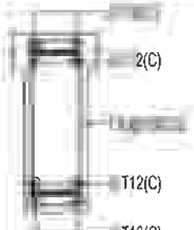
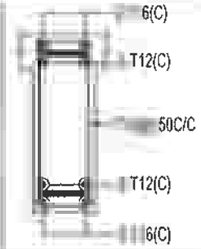
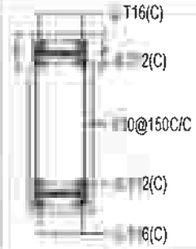
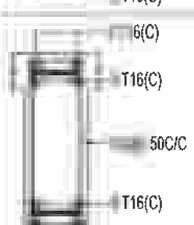
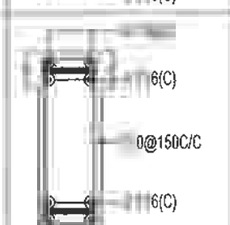
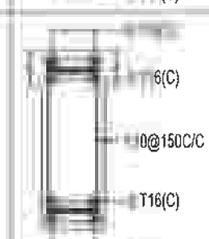
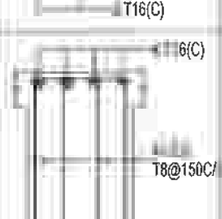
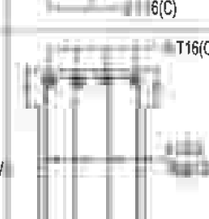
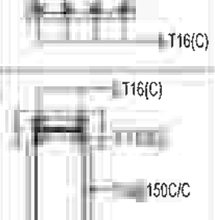
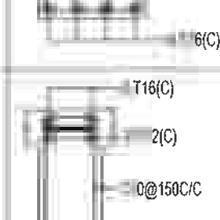
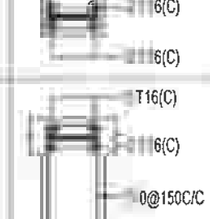
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	1	ST-2025-09-08	10

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 450) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 500) B5				
(200 X 450) B6				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 600)				
(200 X 600) B9				
(350 X 600) B10				
(200 X 500) B11				
(200 X 500)				

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6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 ALL RCC MEMBERS IN M25(1:1:2) GRADE
7. "Θ" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT.
   - A. COLUMNS = 1½"
   - B PILE = 2"
   - C. PILE CAP = 2"
   - D TIE BEAM = 1"
   - E. PLINTH BEAM = 1"
   - F ROOF BEAM = 1"
   - G. ROOF SLAB = ¾"
10. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2. THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS
11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED

ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM REINFORCEMENT DETAILS - 1

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-08	11

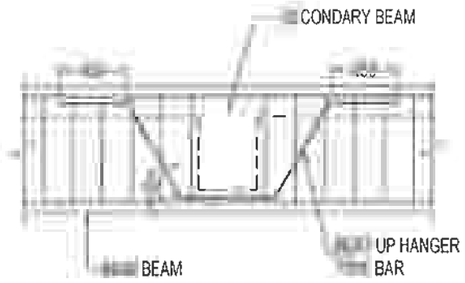
GRADE - 1 (Engg)
M.E
Reg. No -

TERRACE BEAM REINFORCEMENT SCHEDULE:

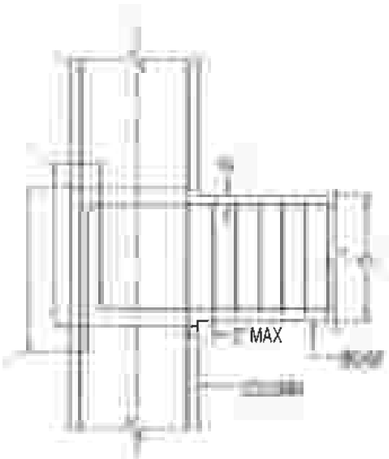
BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 500) B13	6(C) T16(C) 0@125C/C 2(C) 6(C)	6(C) T16(C) 0@150C/C 6(C) 6(C)	6(C) T16(C) 0@125C/C 6(C)	

LEGENDS:

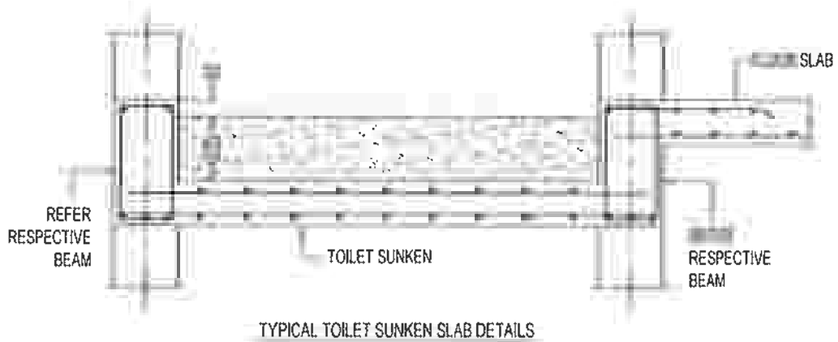
C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



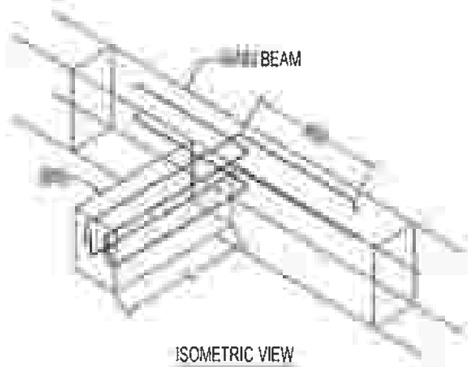
WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16



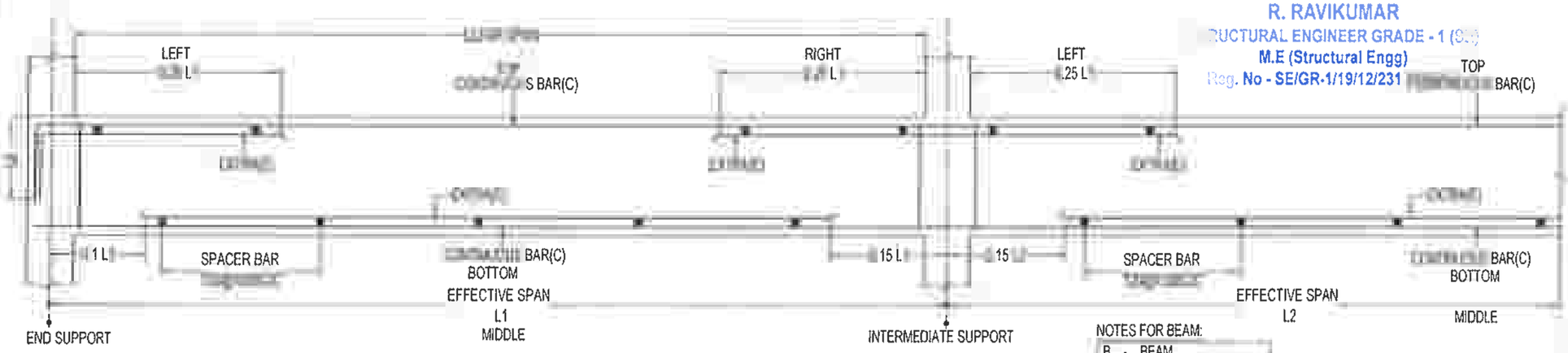
TYPICAL EXTERNAL JOINT DETAILS AT BEAM COLUMN JUNCTION



TYPICAL TOILET SUNKEN SLAB DETAILS



ISOMETRIC VIEW



TYPICAL BEAM CURTAILMENT DETAILS

*0.15 L1 SHOULD NOT BE LESS THEN Ld

NOTES FOR BEAM:

B - BEAM
C - CONTINUOUS BAR
E - EXTRA BAR

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (S...)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

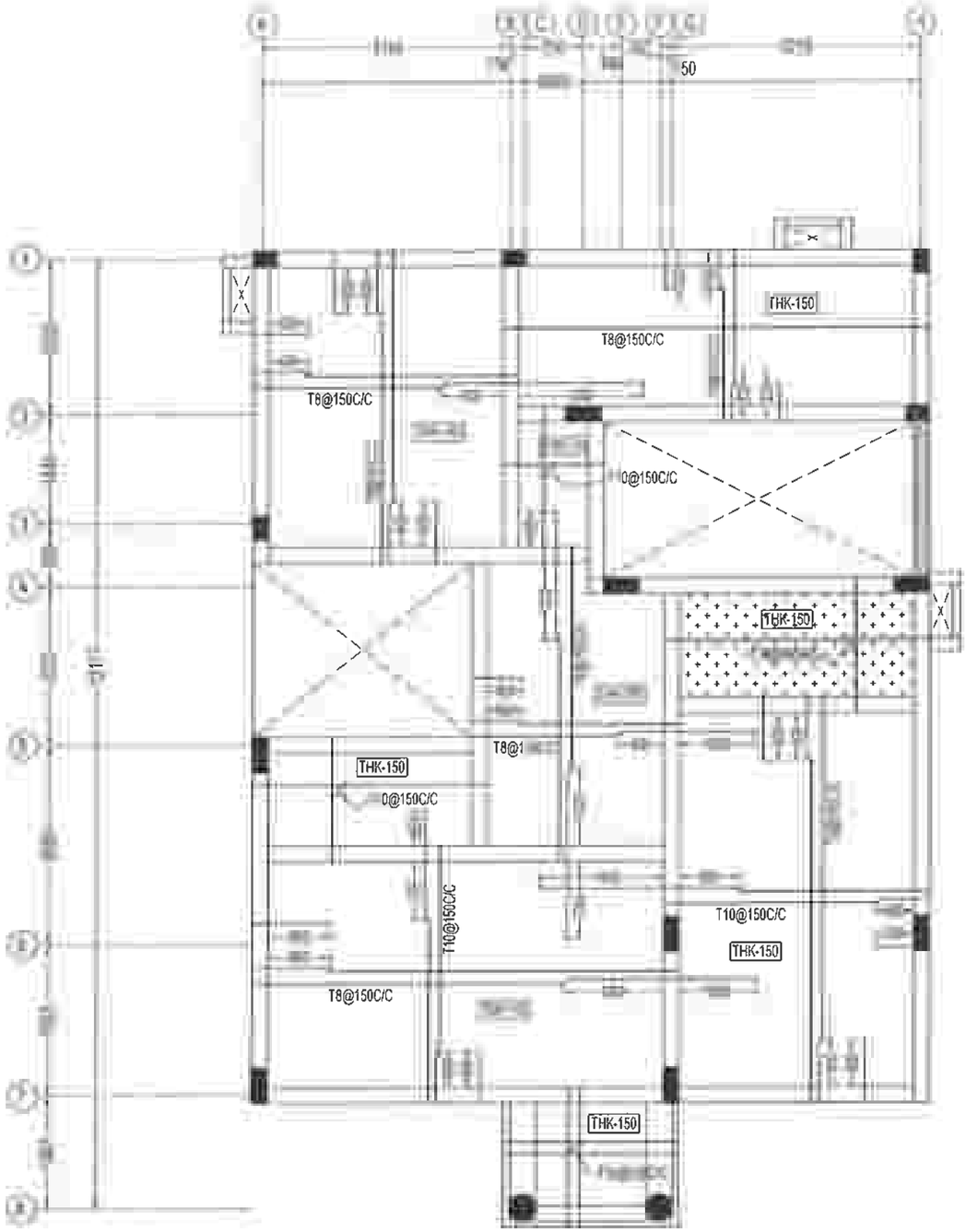
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1468, FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI 600 11
CONTACT +91 9087725267
safestructuralchennai@gmail.com
Web www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM REINFORCEMENT DETAILS - 2

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2025-09-08	12



LEGEND:

- BOTTOM ROD
- TOP ROD
THK - THICKNESS

TERRACE SLAB LAYOUT & DETAILS

** TOP OF BEAM & SLAB AT+7.30M LEVEL

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 62)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

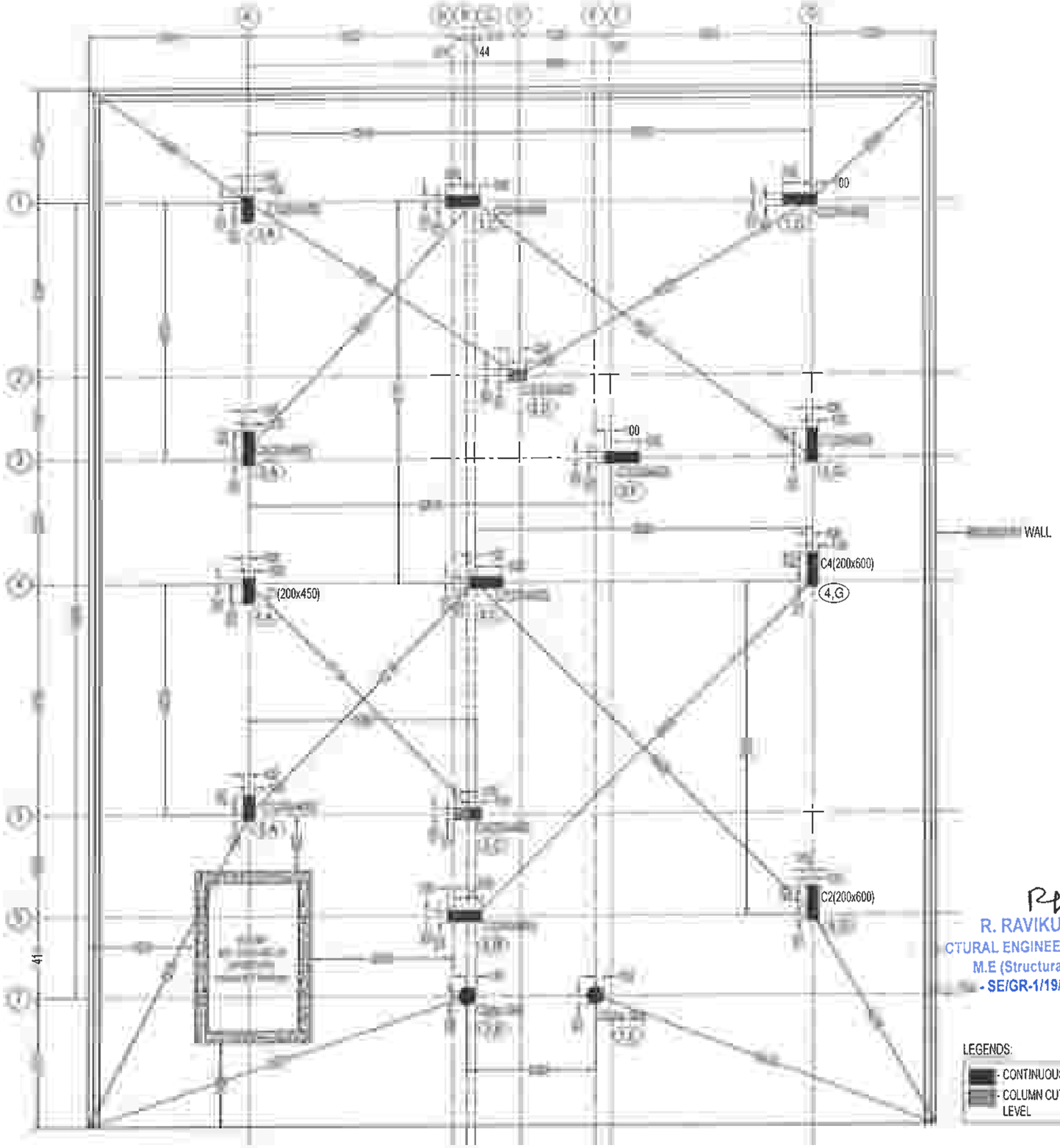
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB LAYOUT & DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2025-09-08	13



COLUMN MARKING LAYOUT

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JOINTS FOR R[illegible]ENT BARS

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LEGENDS:

- CONTINUOUS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF LEVEL

R. RAVIKUMAR
CTURAL ENGINEER GRADE - 1 ([illegible])
M.E (Structural Engg)
- SE/GR-1/19/12/231 (CMDA)

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

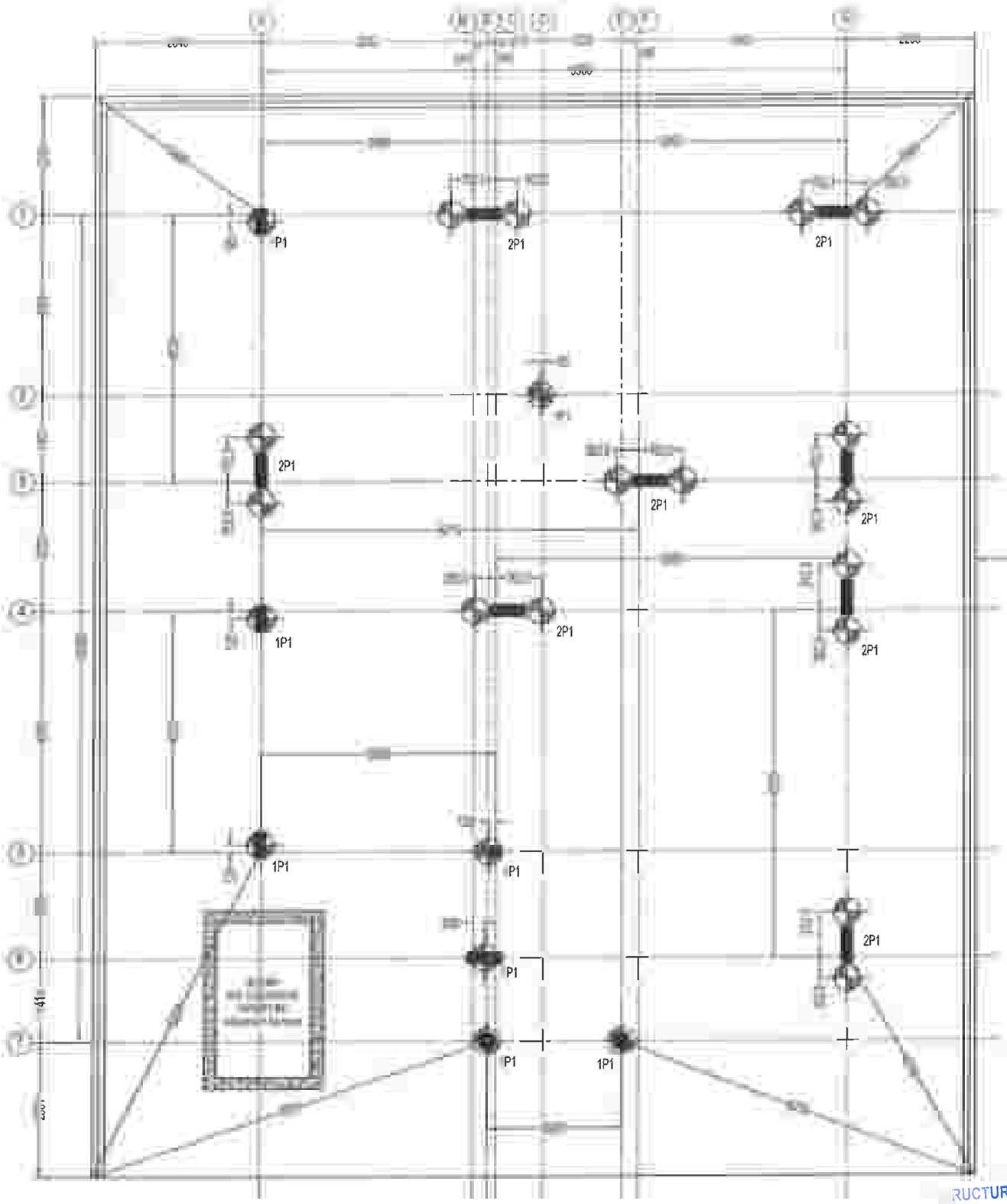
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DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

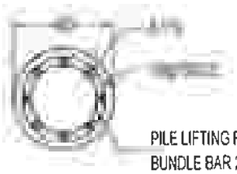
DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-08	01



PILE(P) MARKING LAYOUT



PILE (P1) - PLAN

LEGENDS:

PILE (450Ø)

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, - 600 117
CONTACT. : +91 8087725267
safestructurelchennai@gmail.com
Web.: www.safestructuralconsultancy.com

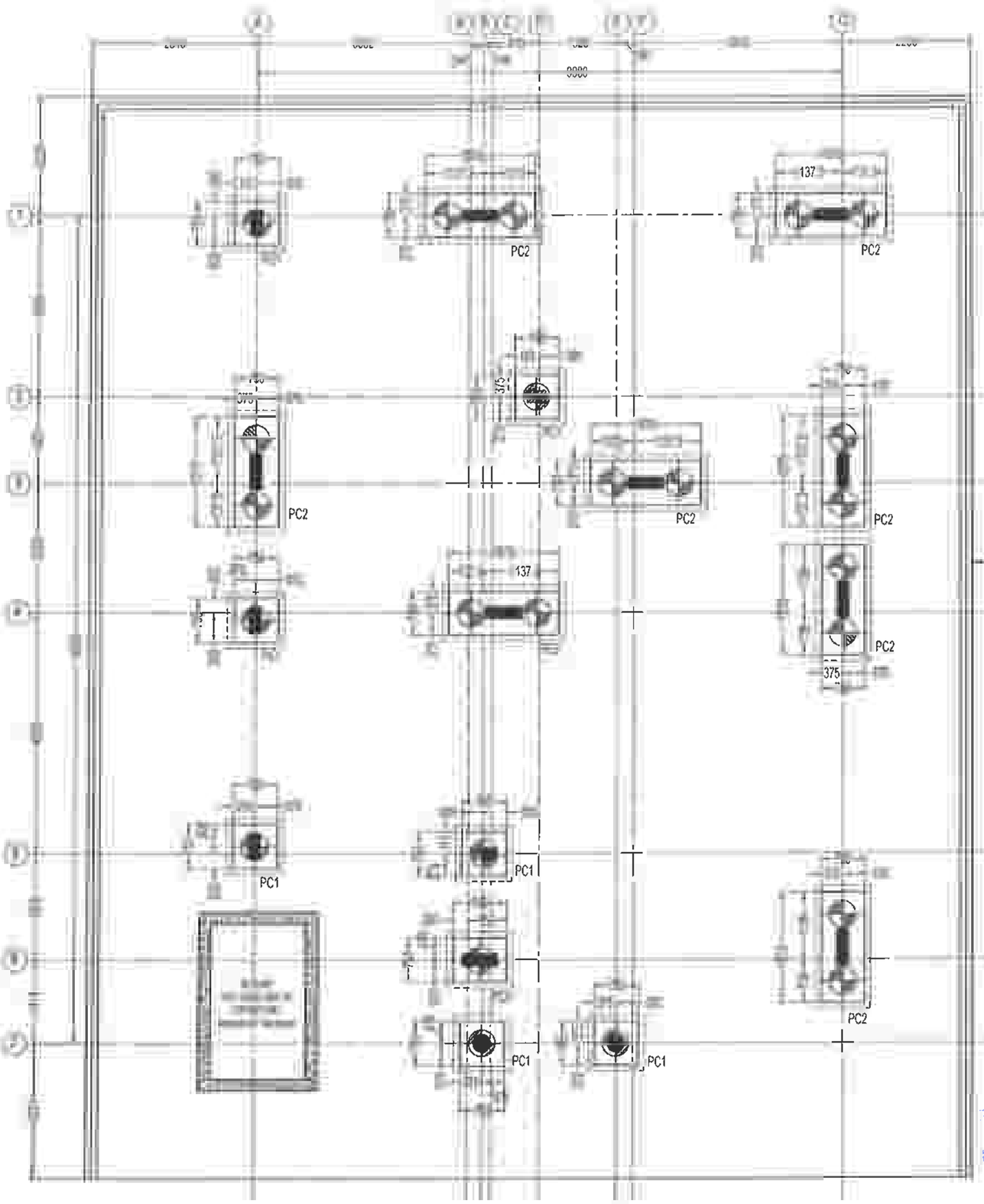
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DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

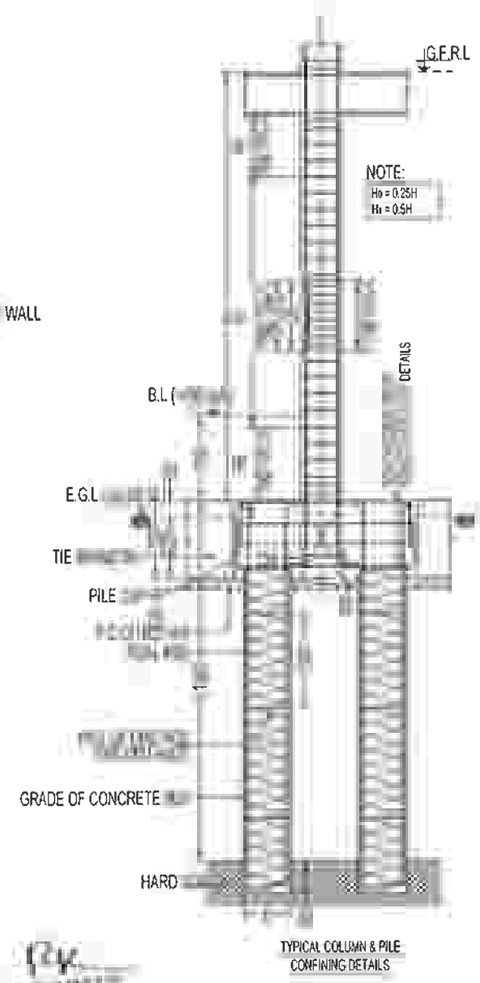
DRAWING NAME

PILE(P) MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-08	02

STRUCTURAL ENGINEER GRADE - 1 (CM)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)





TYPICAL COLUMN & PILE CONFINING DETAILS

PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL

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GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25(1:1:2) GRADE

"Fe" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT.

A. COLUMNS = 1½"
B. PILE = 2"
C. PILE CAP = 2"
D. TIE BEAM = 1"
E. PLINTH BEAM = 1"
F. ROOF BEAM = 1"
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THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

LAP JOINTS FOR REINFORCEMENT

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED.

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

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CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

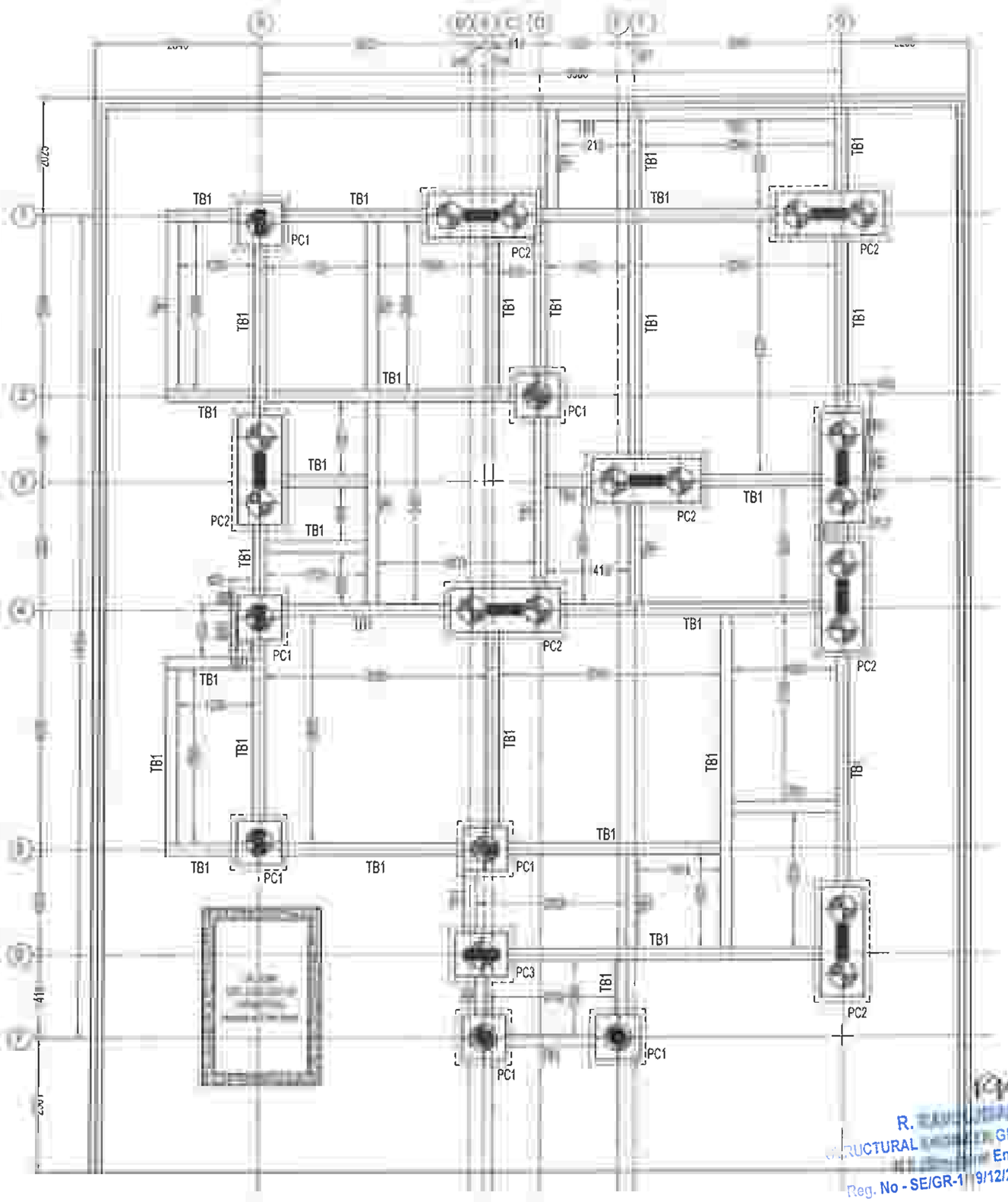
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP(PC) MARKING LAYOUT

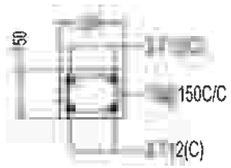
REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-08	03



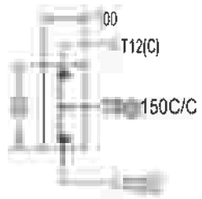
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

TIE BEAM DETAILS

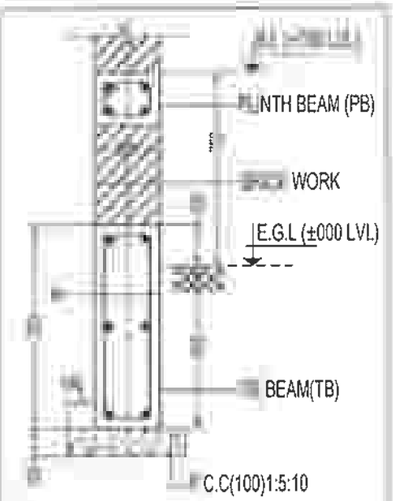
BEAM SIZE & NO.	DETAIL SUPPORT
(200 X 750) TB1	2-T16(C) 50C/C 2(C) S.F R/E.F C.C 3 T16(C)



PB1 - 200 X 150
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS



TYPICAL C/S TIE B & PLINTH BEAM(PB) DETAILS

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
PC - PILE CAP
T.B - TIE BEAM
BB - BRACKET BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

R. [illegible]
STRUCTURAL [illegible] GRADE - 1 (SE)
[illegible] Engg)
Reg. No - SE/GR-1 [illegible] 9/12/231 (CMDA)

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NEW NO 3/58, OLD NO 2/1465, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 8067725267
safestructuralchennai@gmail.com
Web : www.safestructuralconsultancy.com

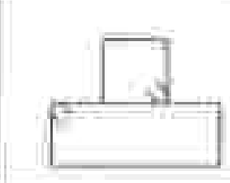
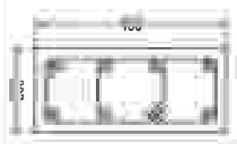
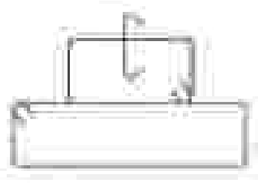
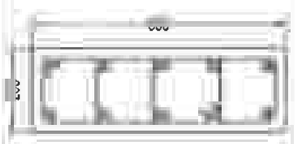
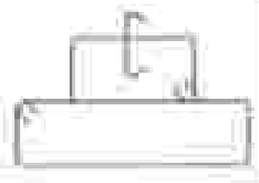
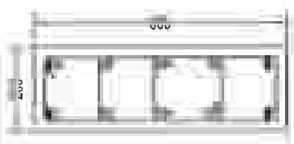
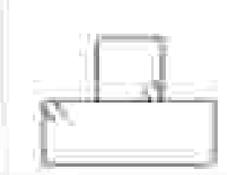
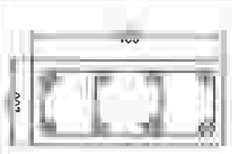
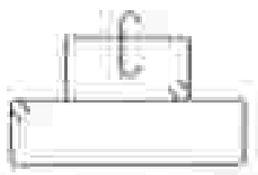
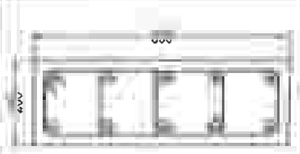
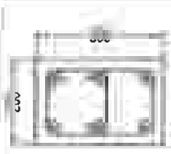
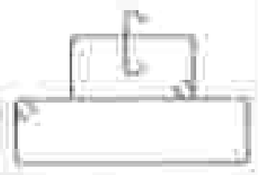
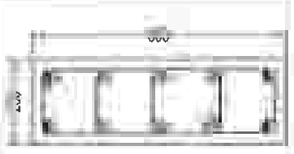
DESIGNED	RK	RELEASED FOR
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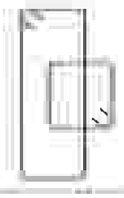
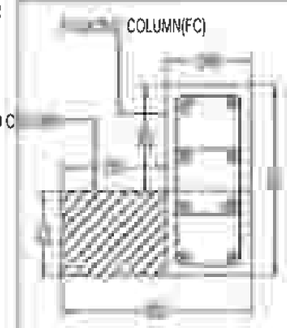
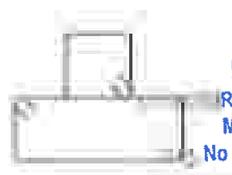
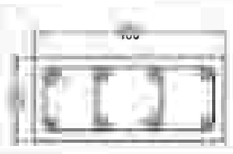
PILE CAP(PC) & TIE BEAM(TB) LAYOUT

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-08	04

COLUMN REINFORCEMENT SCHEDULE:

STAIR & LIFT HEAD ROOM LEVEL TO TERRACE LEVEL MIX-M25					
TERRACE LEVEL TO GROUND FLOOR ROOF LEVEL MIX-M25	 H₀=T8@125C/C H₁=T8@175C/C  8-T16	 H₀=T8@125C/C H₁=T8@175C/C  10-T16		 H₀=T8@125C/C H₁=T8@175C/C  4-T20 + 6-T16	 H₀=T8@125C/C H₁=T8@175C/C  6-T16
GROUND FLOOR ROOF LEVEL TO FOOTING MIX-M25 ◐ - T20 ⊙ - T16 ⊕ - T12	 H₀=T8@125C/C H₁=T8@175C/C  8-T16	 H₀=T8@125C/C H₁=T8@175C/C  10-T16	 H₀=T8@125C/C H₁=T8@175C/C  4-T16 + 2-T12	 H₀=T8@125C/C H₁=T8@175C/C  4-T20 + 6-T16	 H₀=T8@125C/C H₁=T8@175C/C  6-T16
COLUMN MARKED	C1	C2	C3	C4	C5

COLUMN REINFORCEMENT SCHEDULE

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TERRACE LEVEL TO GROUND FLOOR ROOF LEVEL MIX-M25	 H₀=T8@125C/C H₁=T8@175C/C COLUMN(FC)  TERMINATED C 4-T16 + 4-T16
GROUND FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙ - T16 ⊕ - T12	 H₀=T8@125C/C H₁=T8@175C/C  8-T16
COLUMN MARKED	C6

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ARCHITECT

ADITYARAM GROUP

R. RAVIKU...
...RAL ENGINEER ... - 1 (SE)
M.E (Structural E...
No - ... 9/1...

STRUCTURAL CONSULTANT

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CONTACT. : +91 9087725267
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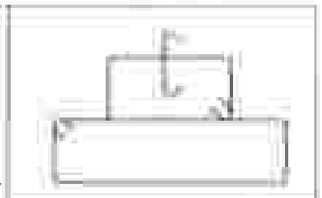
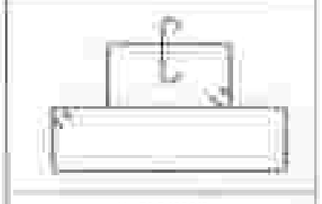
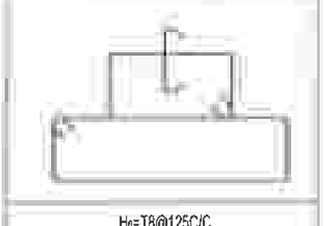
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SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

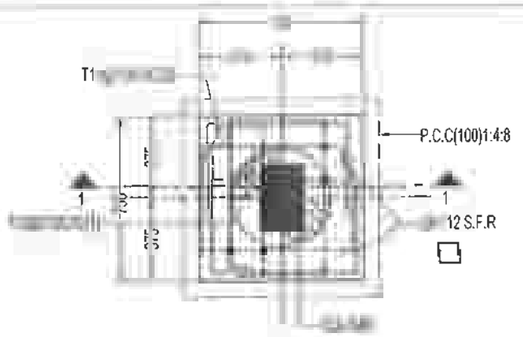
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COLUMN REINFORCEMENT DETAILS

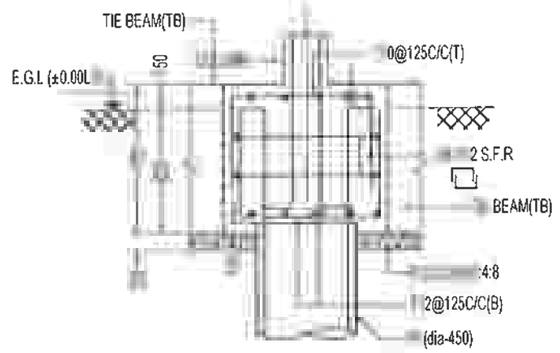
REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-08	05

COLUMN REINFORCEMENT SCHEDULE:

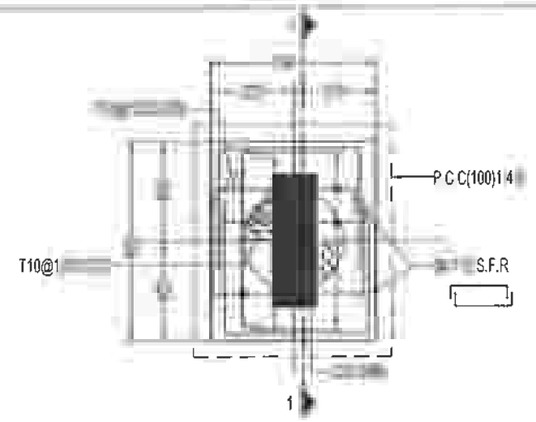
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GROUND FLOOR ROOF LEVEL TO FOOTING MIX-M25 ⊙ - T16 ⊕ - T12		H₀=T8@125C/C H₁=T8@175C/C 10-T16
COLUMN MARKED	C7	



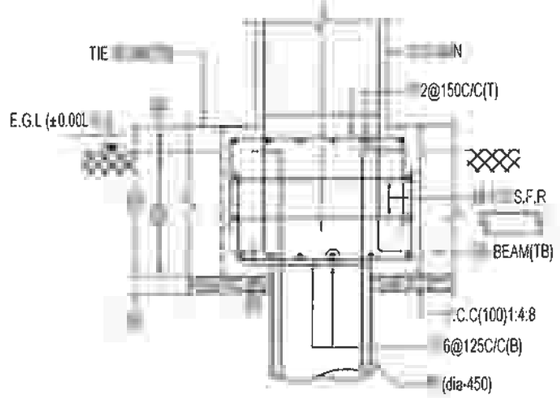
PC1 - PLAN



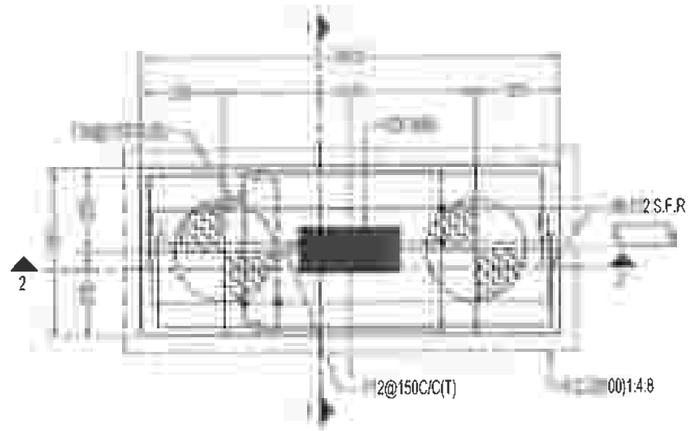
SECTION - 1 - 1



PC3 - PLAN

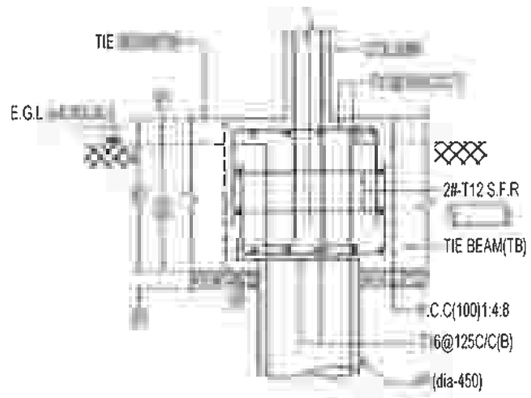


SECTION - 1 - 1

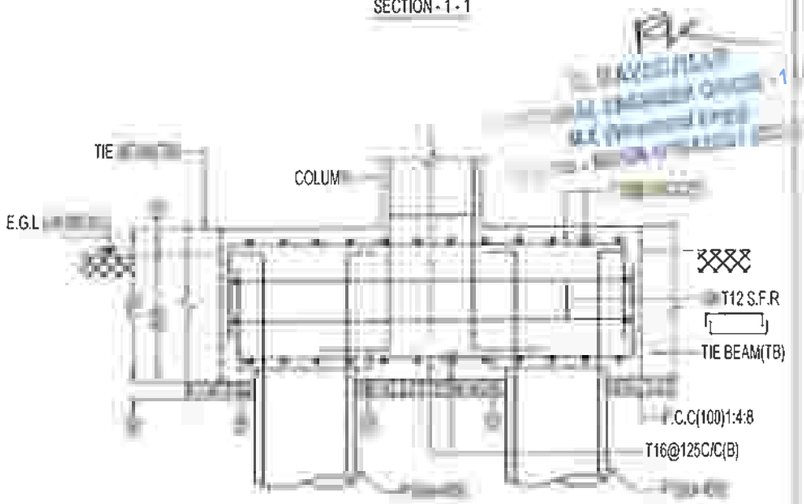


PC2 - PLAN

** S.F.R - SIDE FACE REINFORCEMENT



SECTION - 1 - 1



SECTION - 2 - 2

B.L - BASEMENT LEVEL

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SAFE STRUCTURAL CONSULTANCY

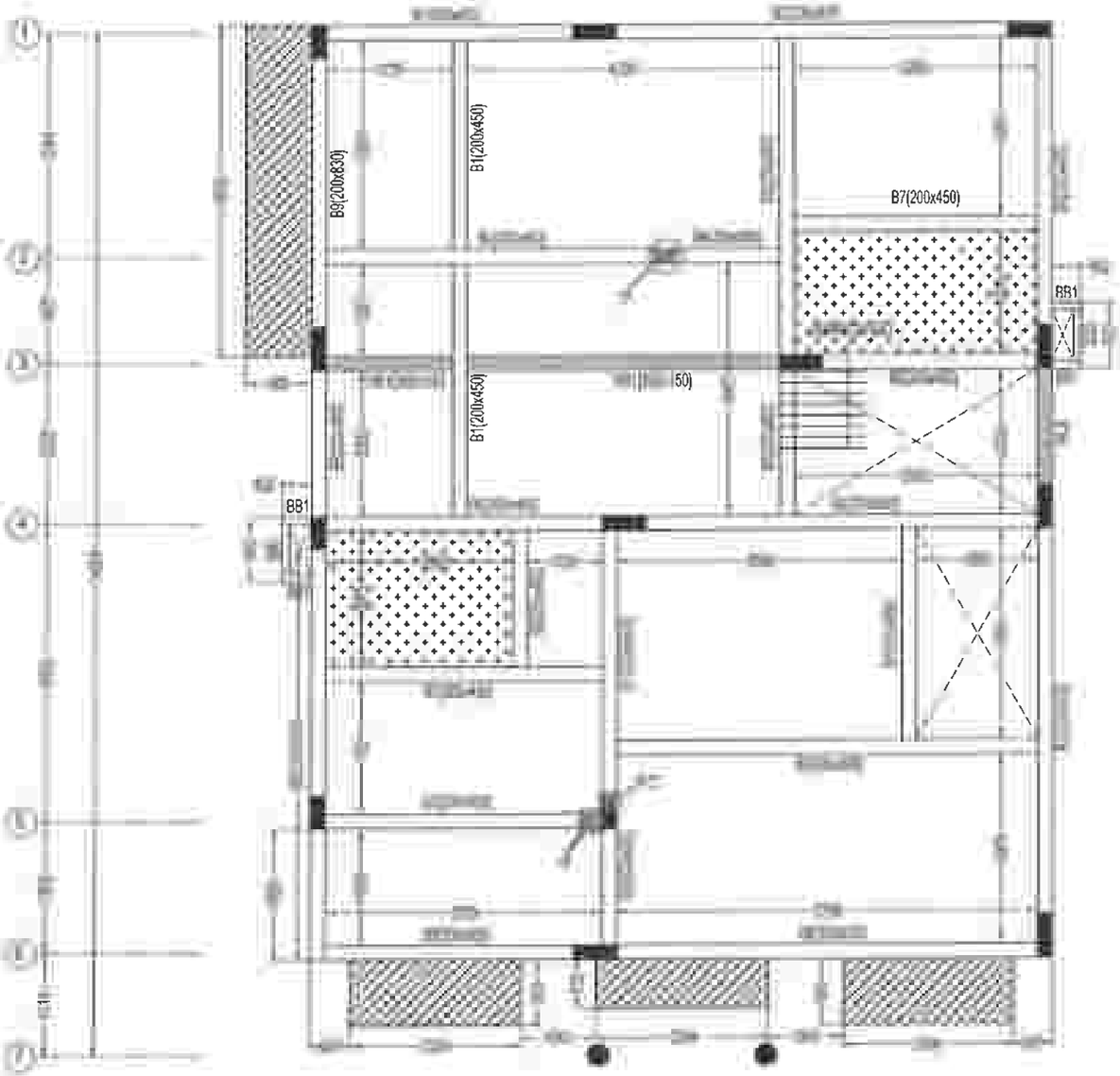
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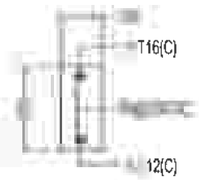
COLUMN, PILE & PILE CAP DETAILS

REV	DATE	PROJECT NO	SHEET.NO
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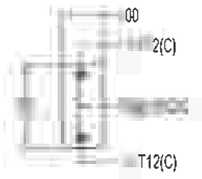




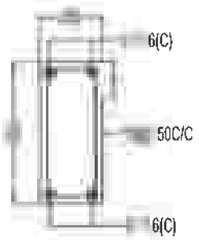
GROUND FLOOR ROOF BEAM LAYOUT



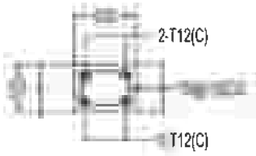
BB1 - 100 X 300
C/S DETAILS



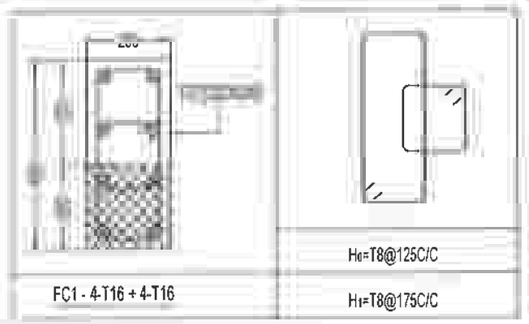
BB2 - 100 X 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS



HB1 - 200 x 150
C/S DETAILS



FC1 - 4-T16 + 4-T16

LEGENDS:

- BB - BRACKET BEAM
- T - COLUMN CUT @ GROUND FLOOR ROOF LEVEL
- "FC" - FLOATING COLUMN
- OPENING
- HB - HIDDEN BEAM
- MLB - MID LANDING BEAM
- 100mm BALCONY SLAB SUNKEN
- 300mm TOILET SLAB SUNKEN

R. [illegible]
STRUCTURAL [illegible] GRADE - 1 (SE)
M.E [illegible] Engg)
Reg. No - [illegible] 9/12/231 (CMDA)

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NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

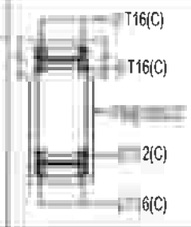
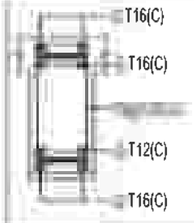
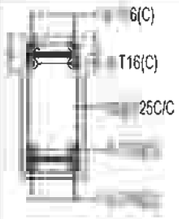
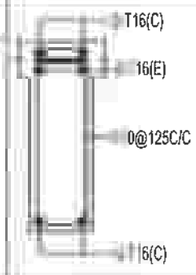
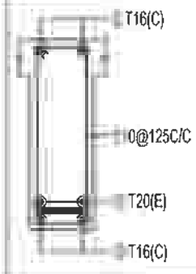
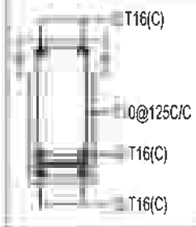
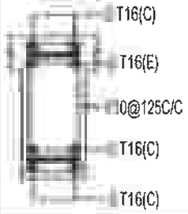
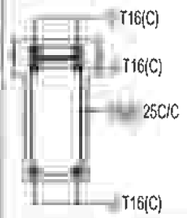
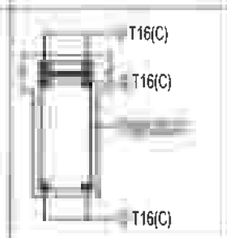
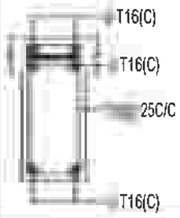
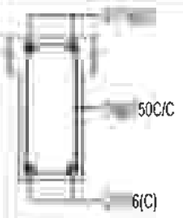
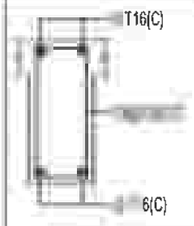
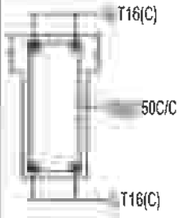
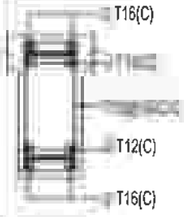
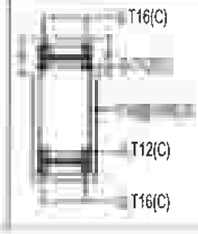
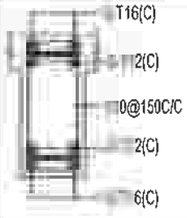
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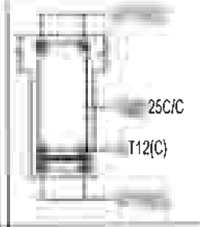
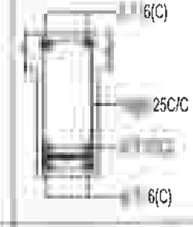
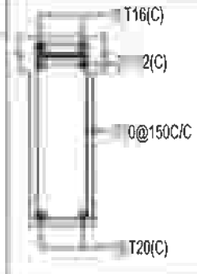
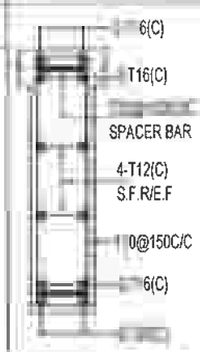
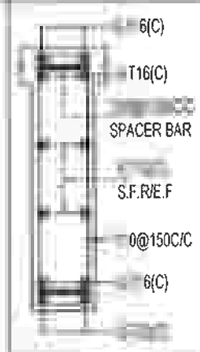
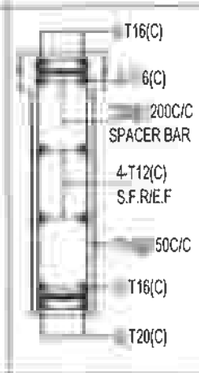
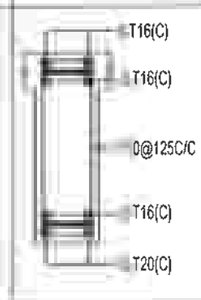
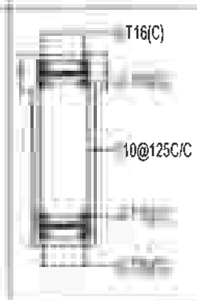
GROUND FLOOR ROOF BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R1	[illegible]	ST-2025-09-08	07

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 450) B3				
(200 X 450) B4				
(200 X 450) B5				
(200 X 450) B6				

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B7				
(200 X 600) B8				
(200 X 830) B9				
(200 X 600) B10				

LEGENDS:

- C - CONTINUOUS BAR
- E - EXTRA BAR
- S.F.R - SIDE FACE REINFORCEMENT
- E.F - EACH FACE

RK

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EET ROAD, LAMBAKKAM,

Structural Consultancy Web.: www.safestructuralconsultancy.com

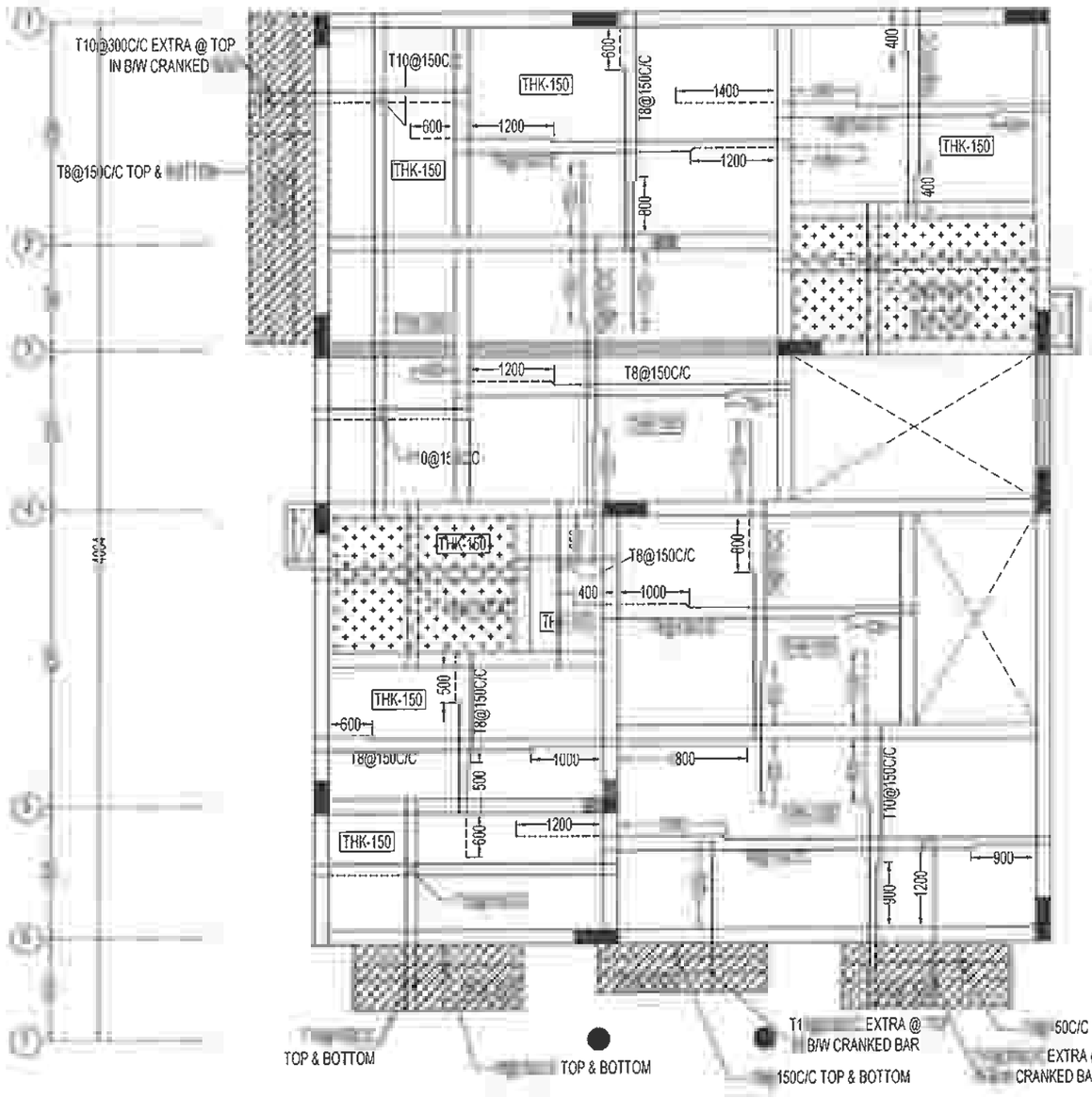
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DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1		ST-2025-09-08	08





GROUND FLOOR ROOF SLAB LAYOUT & DETAILS

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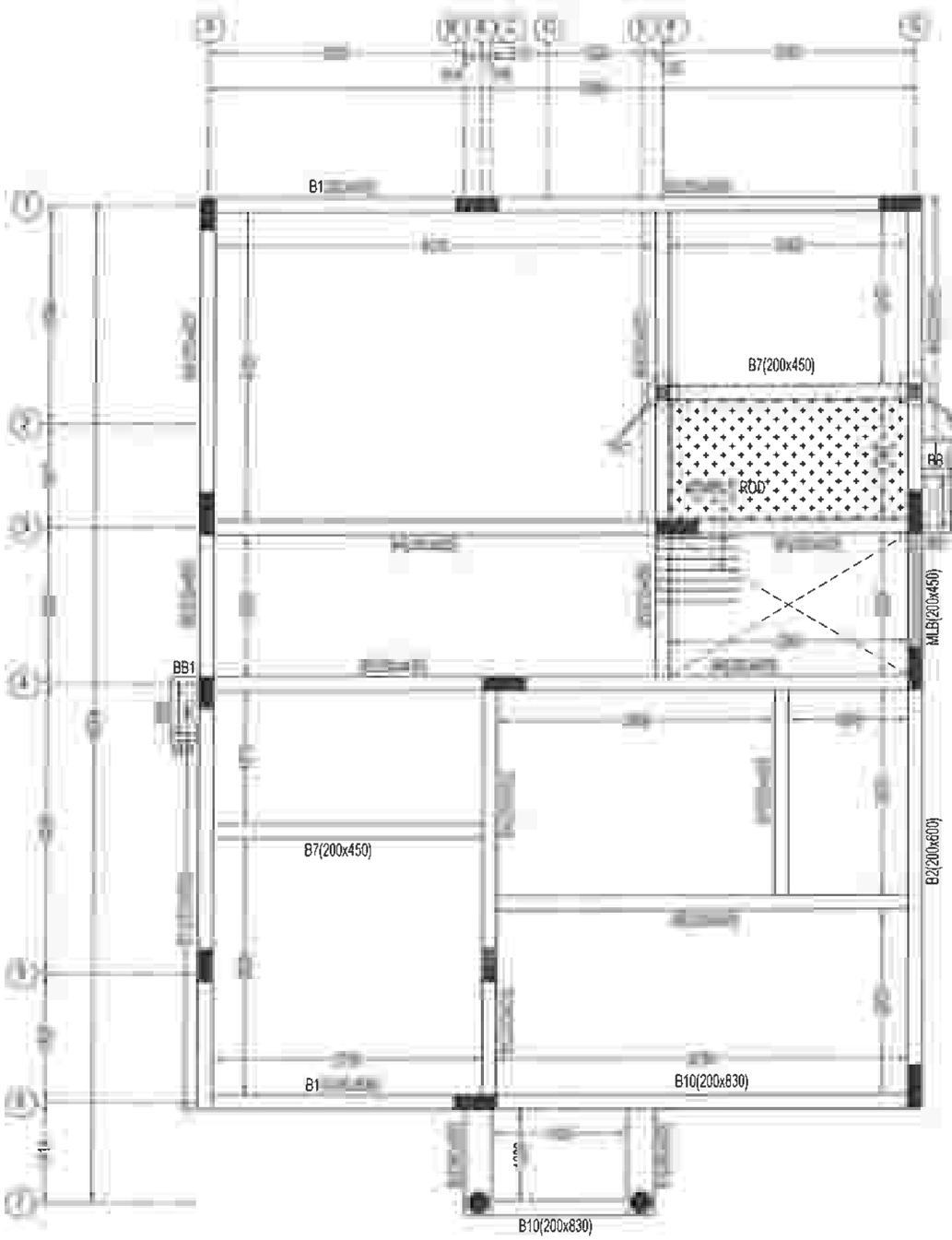
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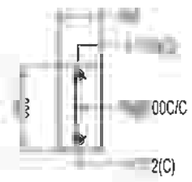
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GROUND FLOOR ROOF SLAB DETAILS

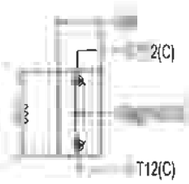
REV	DATE	PROJECT NO	SHEET NO
R1	9/02/2[illegible]	ST-2025-09-08	09



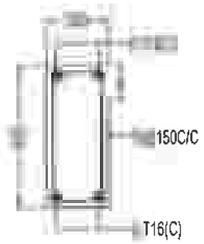
TERRACE BEAM LAYOUT



BB1 - 100 X 300
C/S DETAILS

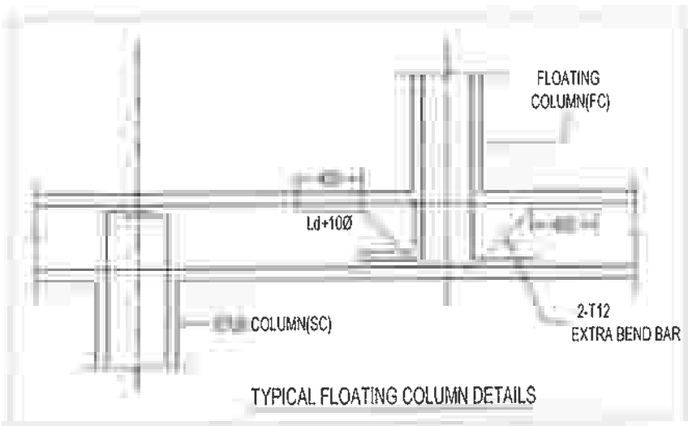


BB2 - 100 X 300
C/S DETAILS



MLB - 200 X 450
C/S DETAILS





TYPICAL FLOATING COLUMN DETAILS

LEGENDS:

- BB - BRACKET BEAM
- "FC" - FLOATING COLUMN
- OPENING
- MLB - MID LANDING BEAM
- 300mm TOILET SLAB SUNKEN

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ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25(1:1:2) GRADE

"Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985

CLEAR COVER TO REINFORCEMENT

- A. COLUMNS = 1½"
- B. PILE = 2"
- C. PILE CAP = 2"
- D. TIE BEAM = 1"
- E. PLINTH BEAM = 1"
- F. ROOF BEAM = 1"
- G. ROOF SLAB = ¾"

THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+2 THE REQUIRED PILE CAPACITY OF SOIL IS 600KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 600KN BY CONSULTING WITH SOIL EXPERTS

1. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING

THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED

LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1486, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructurelchennai@gmail.com
Web : www.safestructuralconsultancy.com

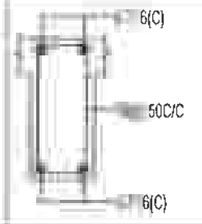
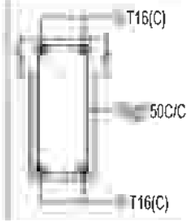
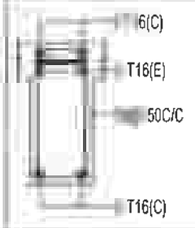
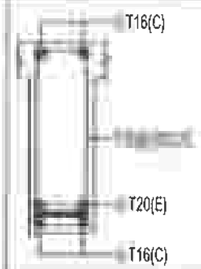
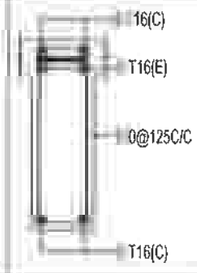
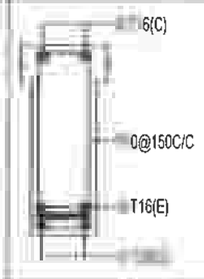
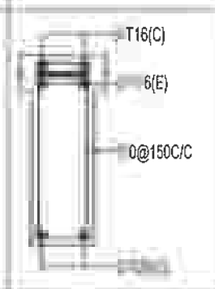
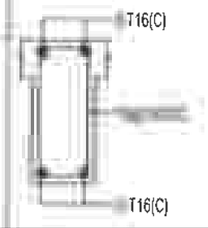
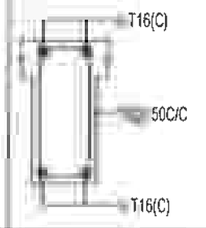
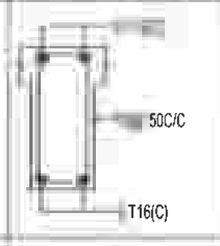
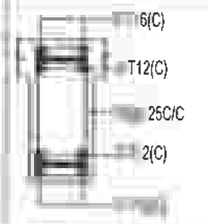
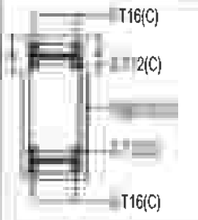
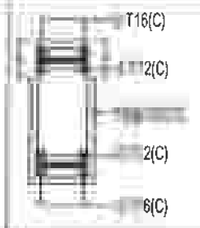
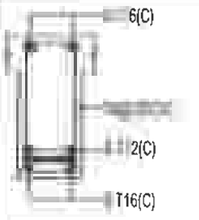
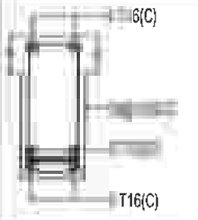
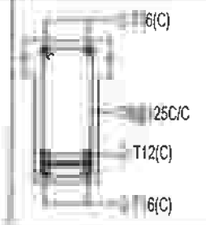
DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

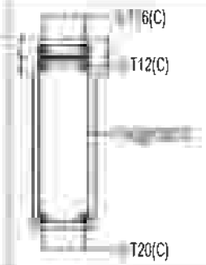
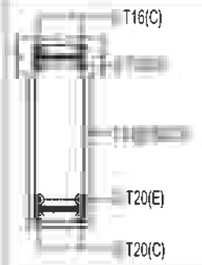
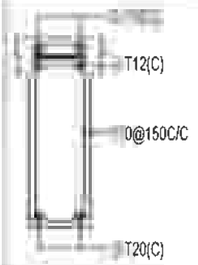
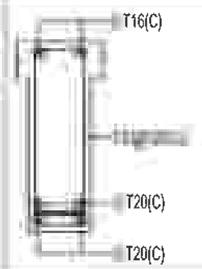
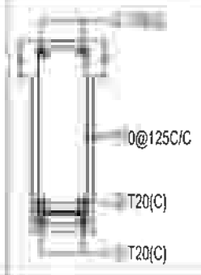
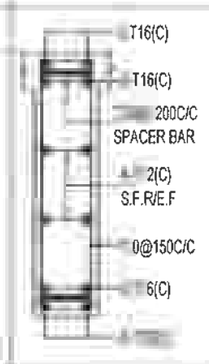
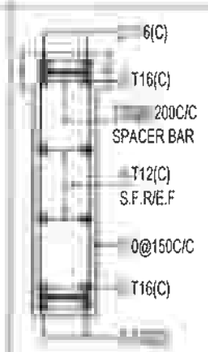
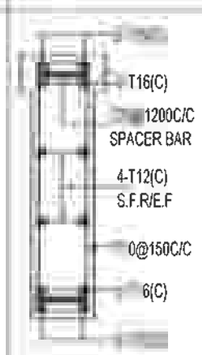
TERRACE BEAM LAYOUT

REV	DATE	PROJECT NO	SHEET NO
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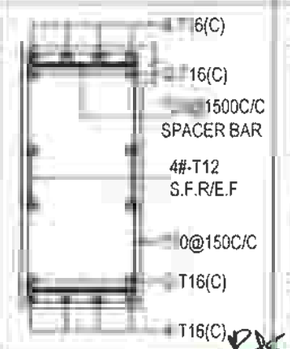
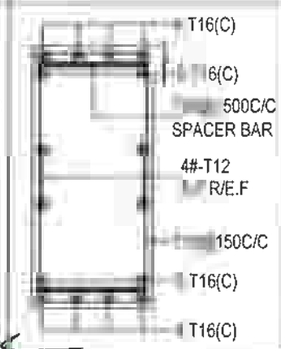
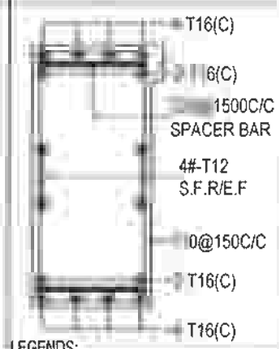
TERRACE BEAM REINFORCEMENT SCHEDULE

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 450) B1				
(200 X 600) B2				
(200 X 600) B4				
(200 X 450) B5				
(200 X 450) B6				
(200 X 450) B7				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT	DETAIL @ CANTILEVER BEAM
(200 X 600) B8				
(200 X 600) B9				
(200 X 830) B10				

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(380 X 830) B3			

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

R. [illegible] GRADE - 1 (Civil)
STRUCTURAL [illegible] Engg)
M.E [illegible] 2/231 (CMDA)

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7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
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11. LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING FOUNDATION
12. THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

LAP JOINTS FOR REINFORCEMENT BARS :

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ii) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL

iii) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R1	[illegible]	ST-2025-09-08	11

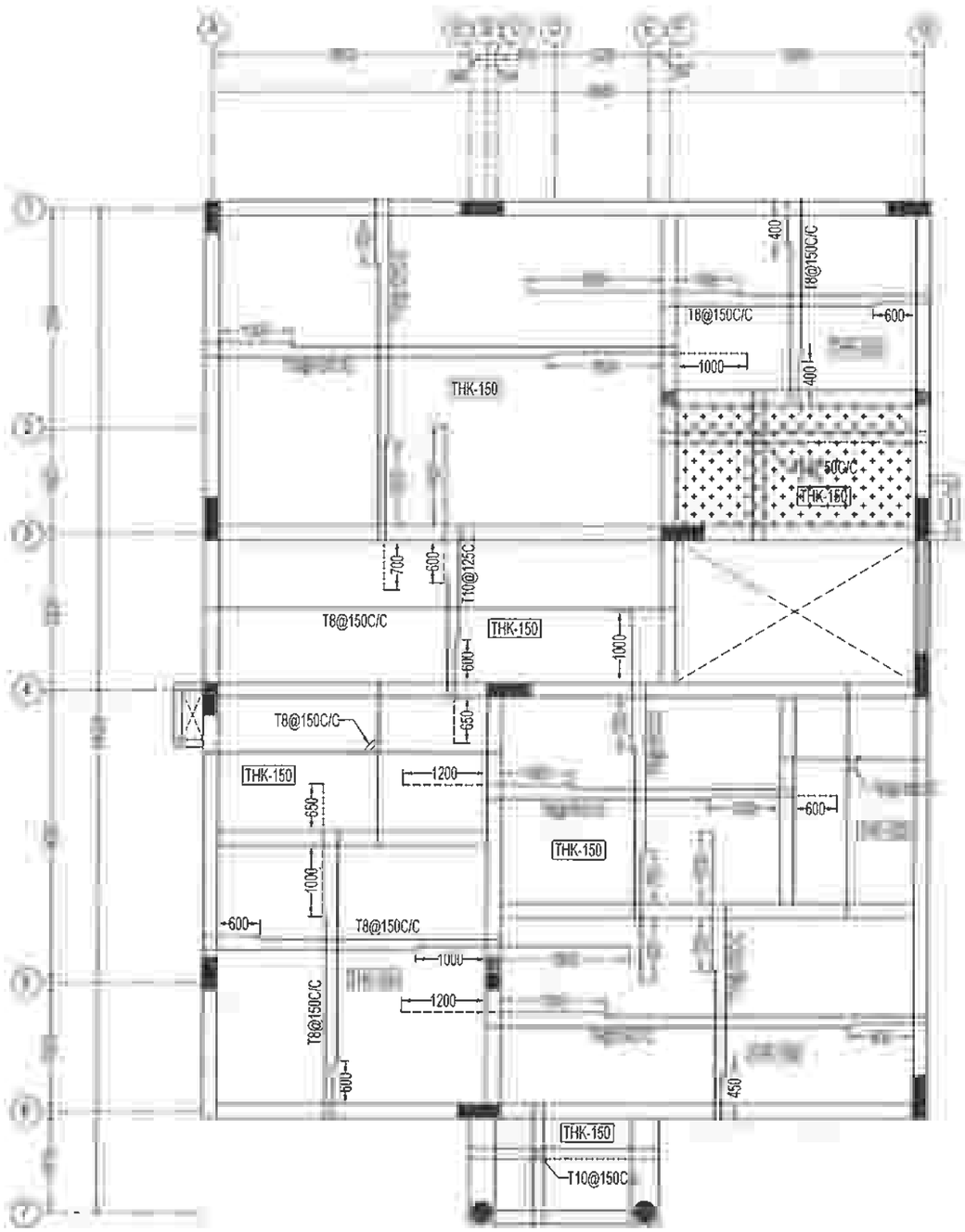
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TERRACE SLAB LAYOUT & DETAILS

TOP ROD
BOTTOM ROD
THK - THICKNESS

CLIENT

PROJECT

ADITYARAM PALACE CITY,(VILLA 63)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

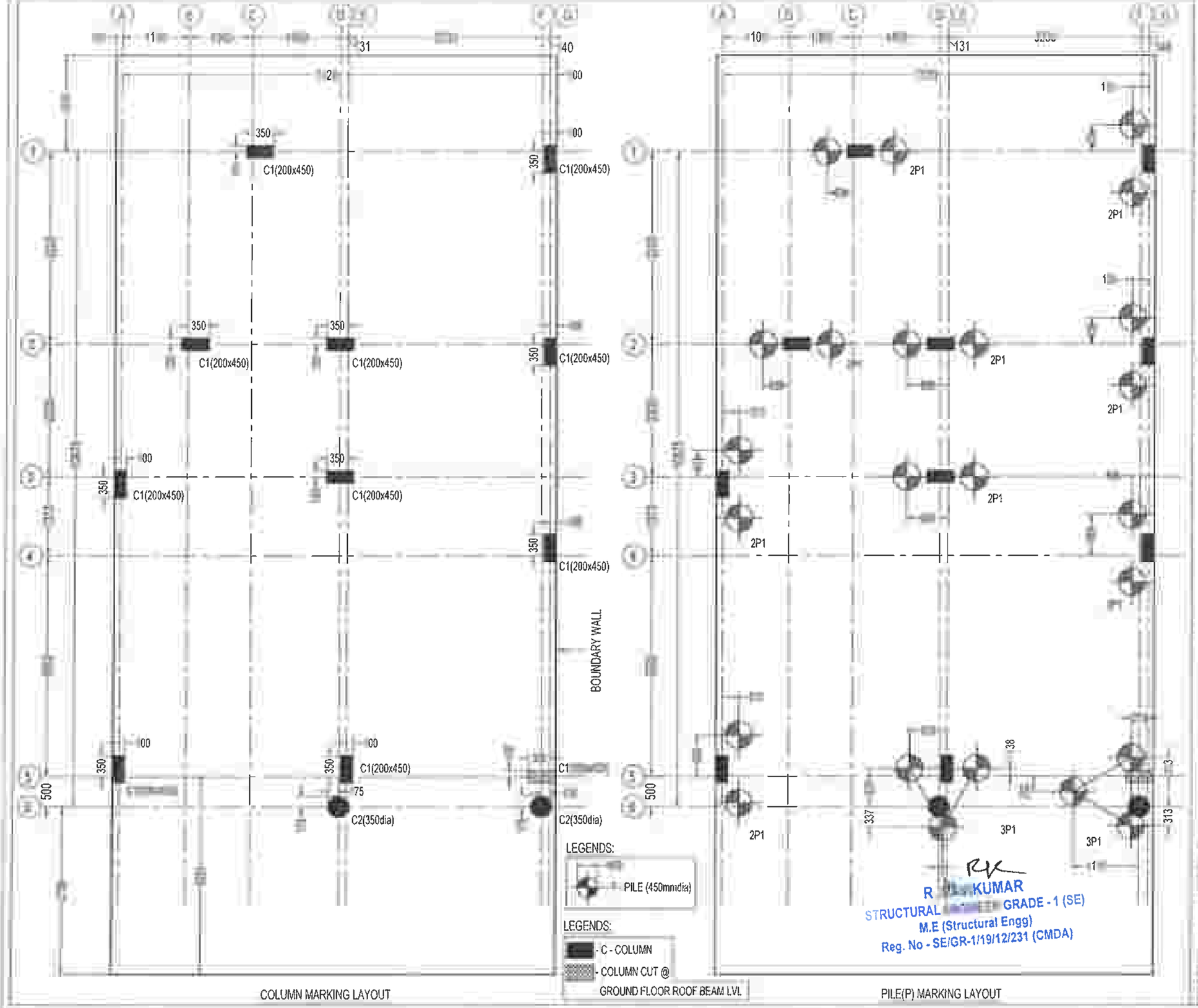
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] 200 FEET ROAD,
EACHAN [illegible] KOVILAMBAKKAM,
CHENNA [illegible]
[illegible].com
ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	MV	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R1		ST-2025-09-08	12



COLUMN MARKING LAYOUT

PILE(P) MARKING LAYOUT

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  - B. PILE = 40
  - C. PILE CAP = 50
  - D. TIE BEAM = 30
  - E. PLINTH BEAM = 30
  - F. ROOF BEAM = 30
  - G. ROOF SLAB = 20
- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS
- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING.
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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(67 & 73)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO D NO 2/1466, 200 FEET ROAD,
EACHAN NNA NAGAR, KOVILAMBAKKAM
CHENNA 7.
Safe
Structural Consultancy
safconsultancy.com

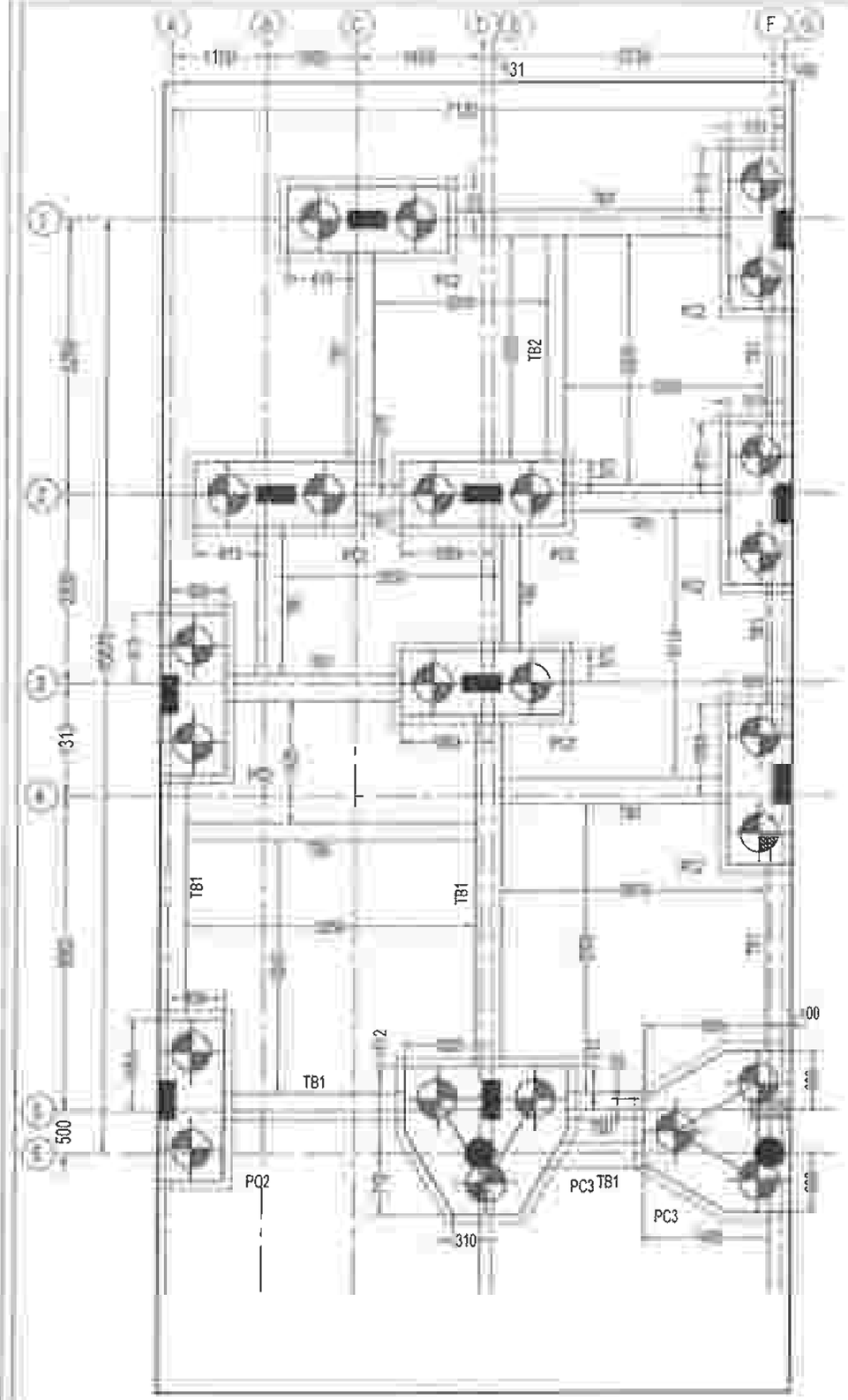
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DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

R KUMAR
STRUCTURAL GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

DRAWING NAME

COLUMN ,PILE MARKING LAYOUT & DETAILS

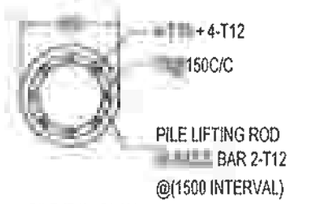
REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-19		01



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

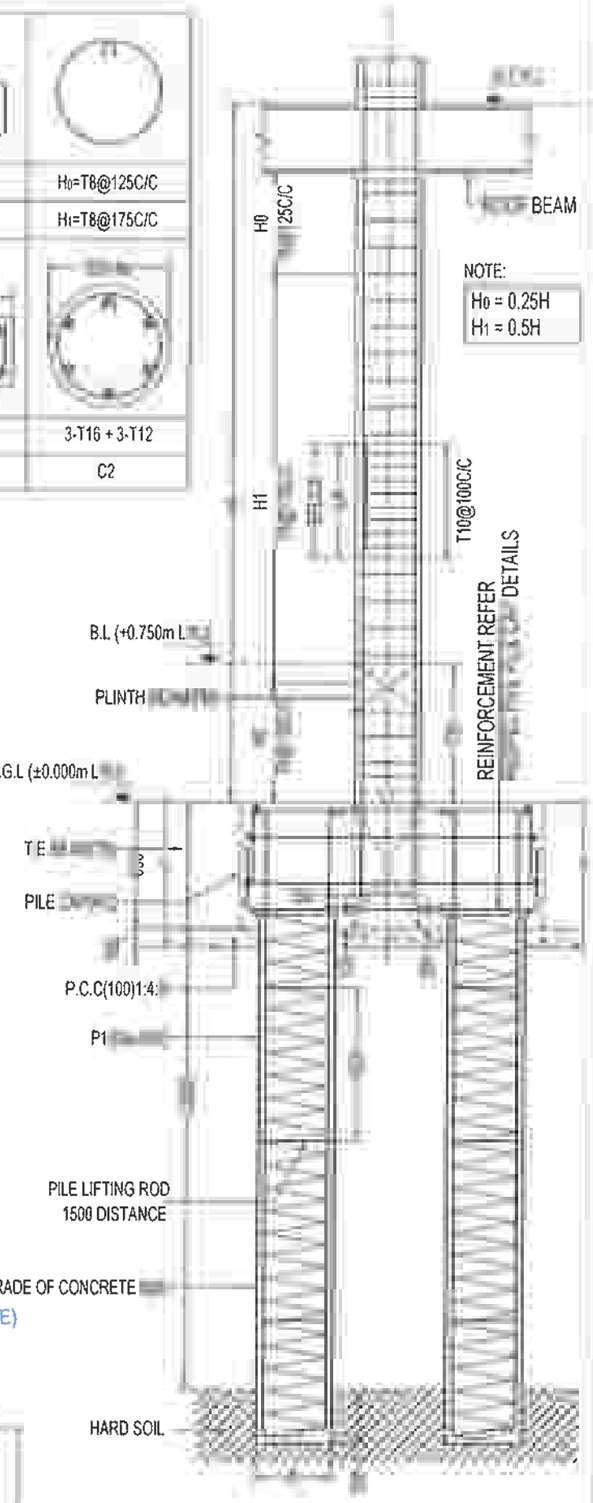
COLUMN REINFORCEMENT SCHEDULE

TERRACE LEVEL		
TO	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M25 ⊙- T16 ⊕- T12		
	8-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2



PILE (P1) - PLAN

TB - TIE BEAM
PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



NOTE:
H_0 = 0.25H
H_1 = 0.5H

TYPICAL COLUMN & PILE CONFINING DETAILS

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6. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
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7. "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
8. CLEAR COVER TO REINFORCEMENT
   - A. COLUMNS = 40
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   - C. PILE CAP = 50
   - D. TIE BEAM = 30
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   - F. ROOF BEAM = 30
   - G. ROOF SLAB = 20
9. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS.
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LAP JOINTS FOR REINFORCEMENT BARS

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF BARS SHALL BE LAPPED
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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(67 & 73)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY

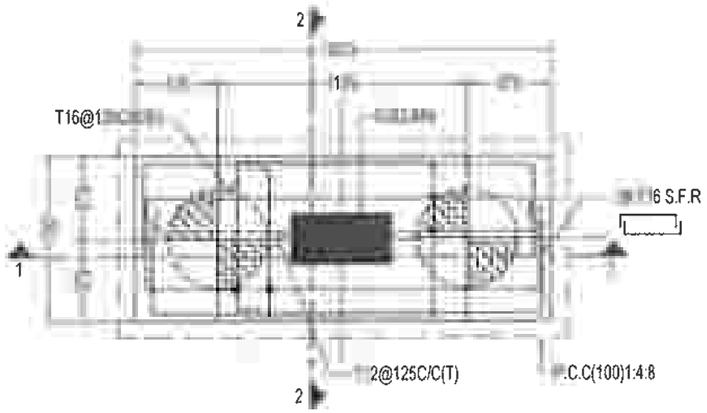
R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
(Structural Engg)
Regn.No.C/9/12/231 (CMDA)

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

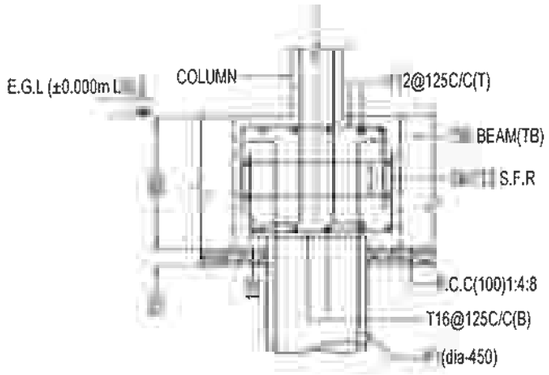
DRAWING NAME

PILE CAP(PC) MARKING , TIE BEAM LAYOUT & DETAILS

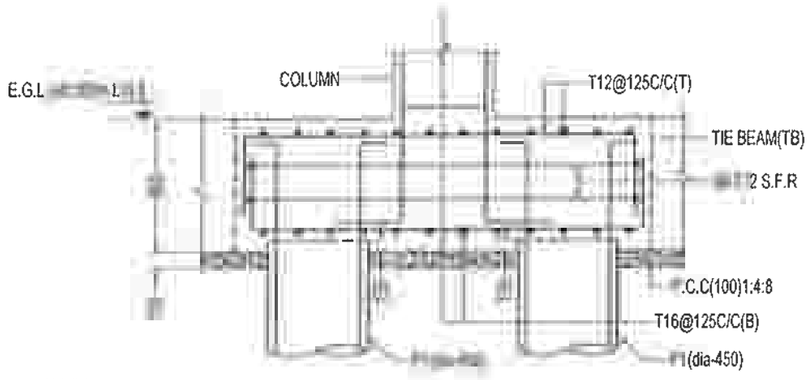
REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-19	02



PC2 - PLAN



SECTION - 2 - 2

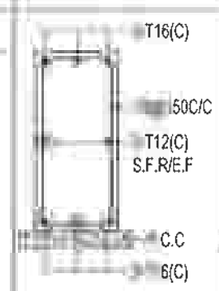
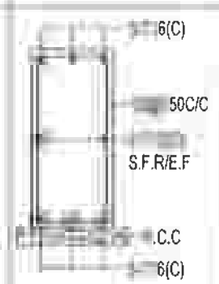
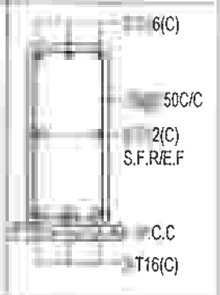
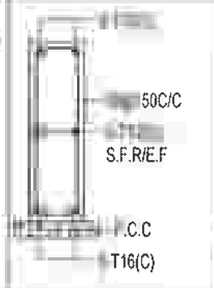
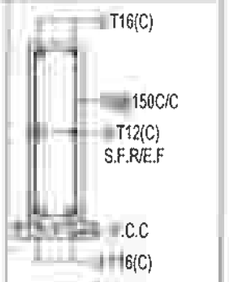


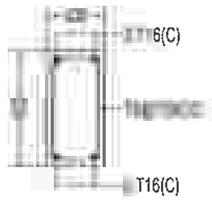
SECTION - 1 - 1

LEGENDS:

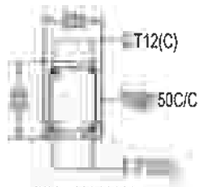
S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1			
(200 X 750) TB2			

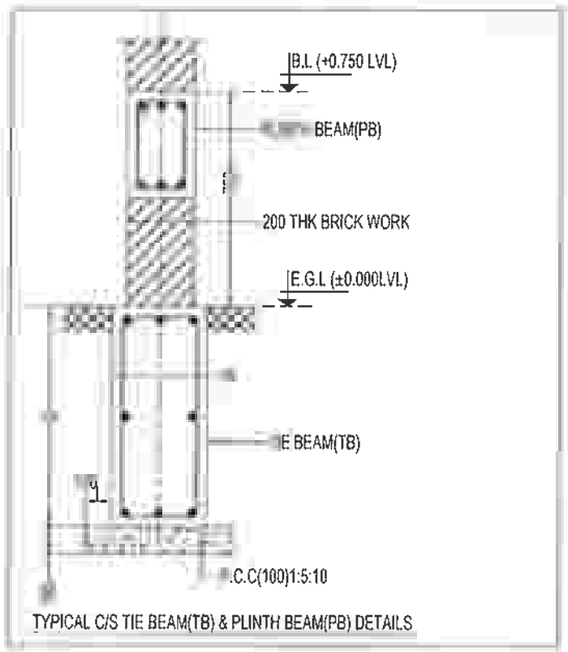


PB1 - 200 X 400
C/S DETAILS



PB2 - 200 X 300
C/S DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)



TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

LEGENDS:

E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(67 & 73)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

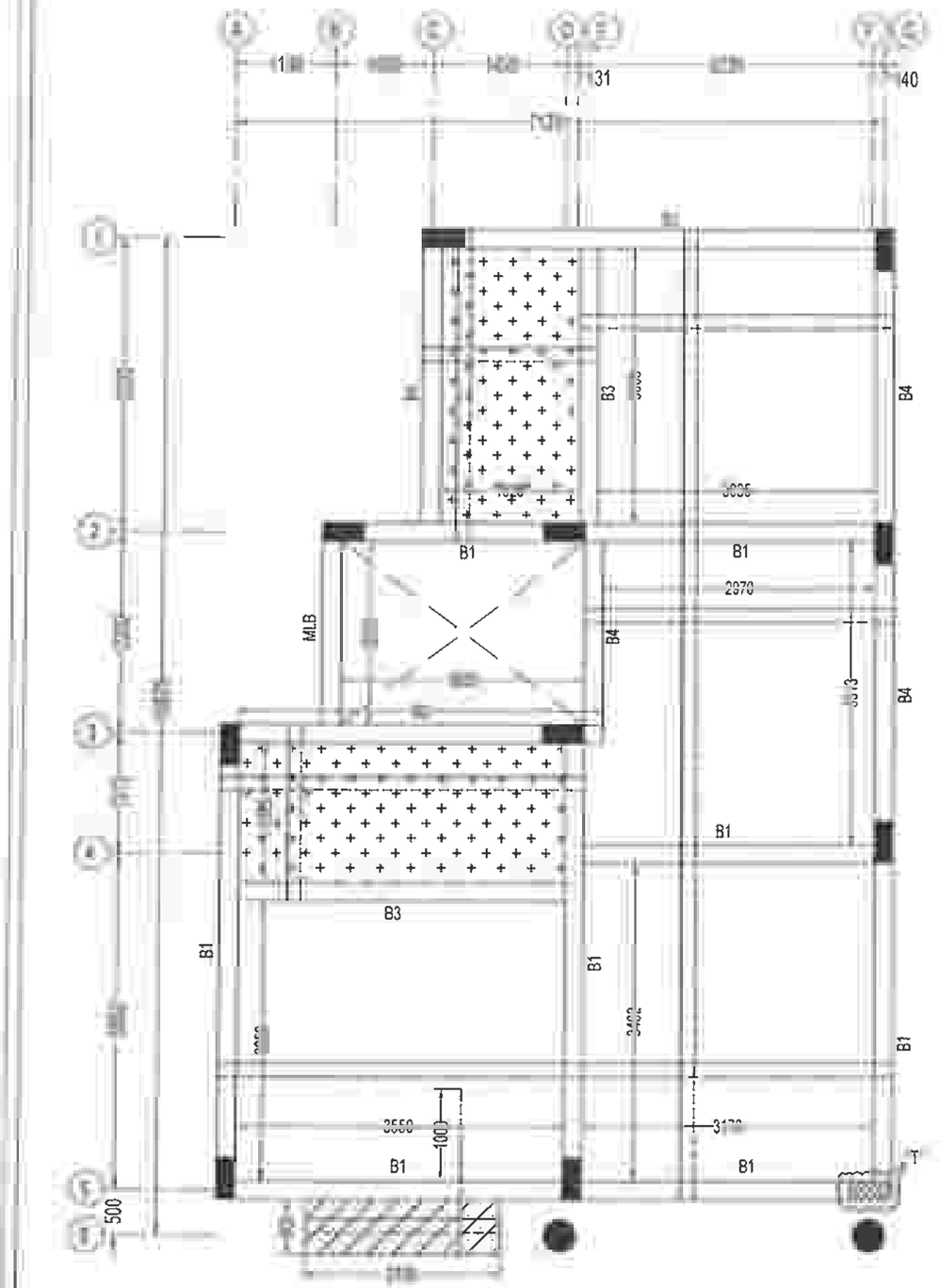
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE CAP SECTION DETAILS &
TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-19	03



GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	6(C), 0@125C/C, 6(C)	T12(C), 0@125C/C, 6(C), 6(C)	2(C), 25C/C, 6(C), 6(C)
(200 X 450) B2	6(C), 0@125C/C, 2(C)	6(C), 0@125C/C, 2(C), 6(C)	6(C), 0@125C/C, 2(C), 6(C)
(200 X 450) B3	2(C), 50C/C, 6(C)	2(C), 50C/C, 6(C)	50C/C, 6(C)
(200 X 450) B4	T16(C), 6(C)	6(C), 50C/C, T16(C)	50C/C, T16(C)



MLB - 200 X 450
C/S DETAILS

LEGENDS:

C -	CONTINUOUS BAR
E -	EXTRA BAR

LEGENDS:

- OPENING
- MLB - MID LANDING BEAM
- BALCONY SLAB SUNKEN
- TOILET SLAB SUNKEN
- T - COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL
- TOP ROD
- BOTTOM ROD
- THK - THICKNESS

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

GROUND FLOOR ROOF BEAM LAYOUT & SLAB LAYOUT & DETAILS

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
No - SE/GR-1/19/12/231 (CMDA)

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CLIENT

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ADITYARAM PALACE CITY,
(67 & 73)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

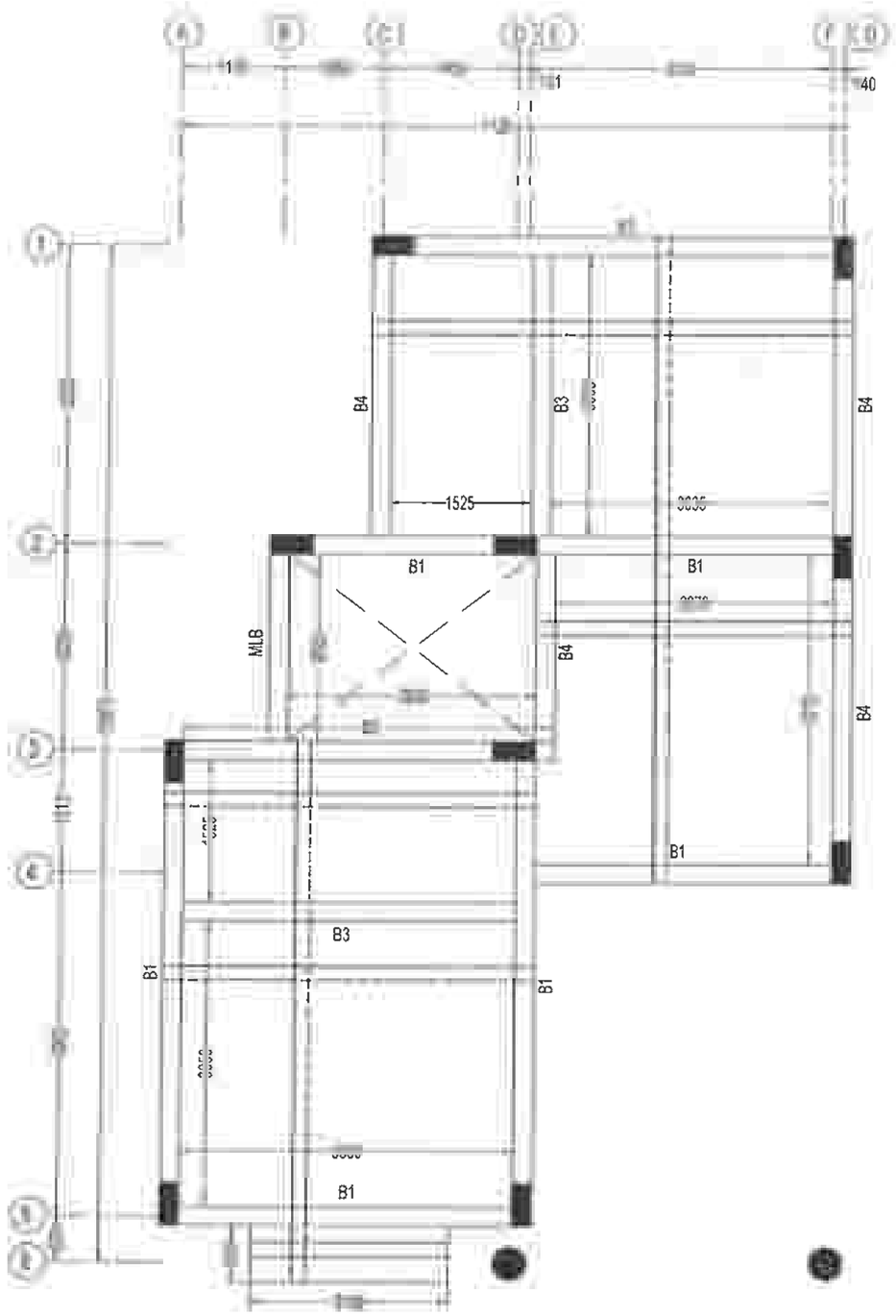
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[illegible] FEET ROAD,

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

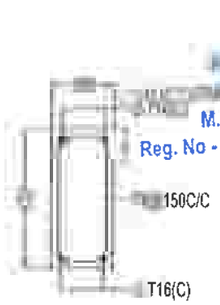
GROUND FLOOR ROOF BEAM LAYOUT, DETAILS & [illegible] DETAILS

REV	DATE	PROJECT NO	SHEET.NO
R0	[illegible]	ST-2026-06-19	04



TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	T16(C) 0@125C/C 6(C) 6(C)	T12(C) 0@125C/C 6(C) 6(C)	T16(C) 2(C) 0@125C/C 6(C) 16(C)
(200 X 450) B2	6(C) 6(C) 25C/C T12(C) T16(C)	6(C) 0@125C/C 6(C)	T16(C) T12(C) T16(C)
(200 X 450) B3	2(C) 50C/C	2(C) 50C/C 6(C)	2(C) 6(C)
(200 X 450) B4	T16(C) 50C/C T16(C)	6(C) 6(C)	T16(C) 50C/C T16(C)



MLB - 200 X 450
C/S DETAILS

M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

LEGENDS:
- OPENING
- MLB - MID LANDING BEAM
- TOP ROD
- BOTTOM ROD
THK - THICKNESS

NOTES:
ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

TERRACE BEAM LAYOUT & SLAB LAYOUT & DETAILS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(67 & 73)
AT ECR, CHENNAI.

ARCHITECT

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STRUCTURAL CONSULTANT

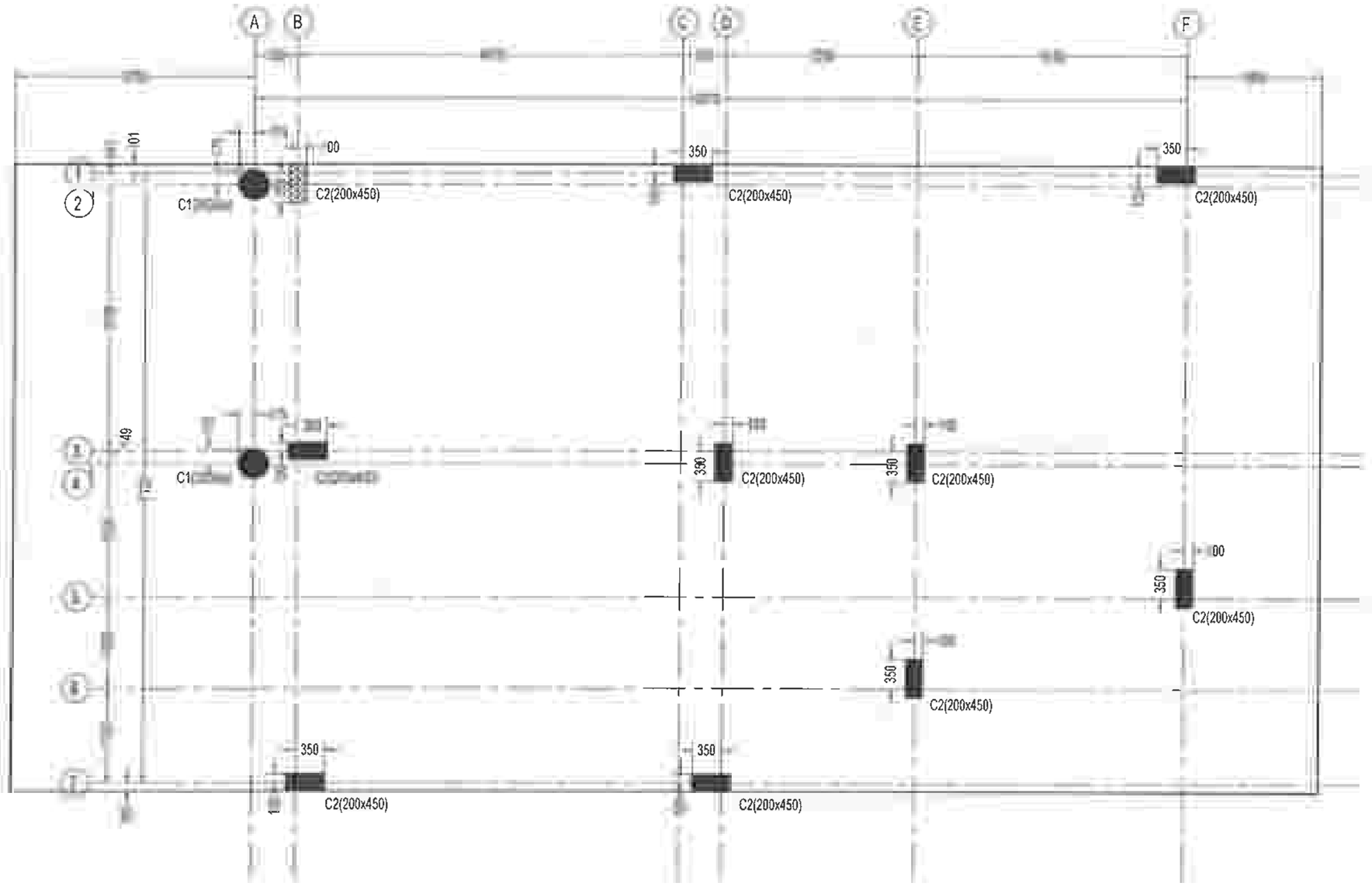
SAFE STRUCTURAL CONSULTANCY
NEW NO OLD NO 2/1466, 200 FEET ROAD, ANNA NAGAR, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.:

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

NO	DATE	PROJECT NO	SHEET
R0	ST-2026-06-19		05



COLUMN MARKING LAYOUT

LEGENDS:

- C - CONTINUOUS COLUMN
- COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL

DRG. IS THE PROPERTY OF SAFE STRUCTURAL CONSULTANCY PVT TO AND SHALL NOT BE PASSED ANY PERSON NOT AUTHORIZED BY RECIEVE IT. IT SHALL NOT BE COPIED OR MODIFIED IN FULL OR SSC'S PRIOR PERMISSION. THE DETAILS FURNISHED IN THIS ARE FOR THIS PROJECT ONLY.

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(84 & 85)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

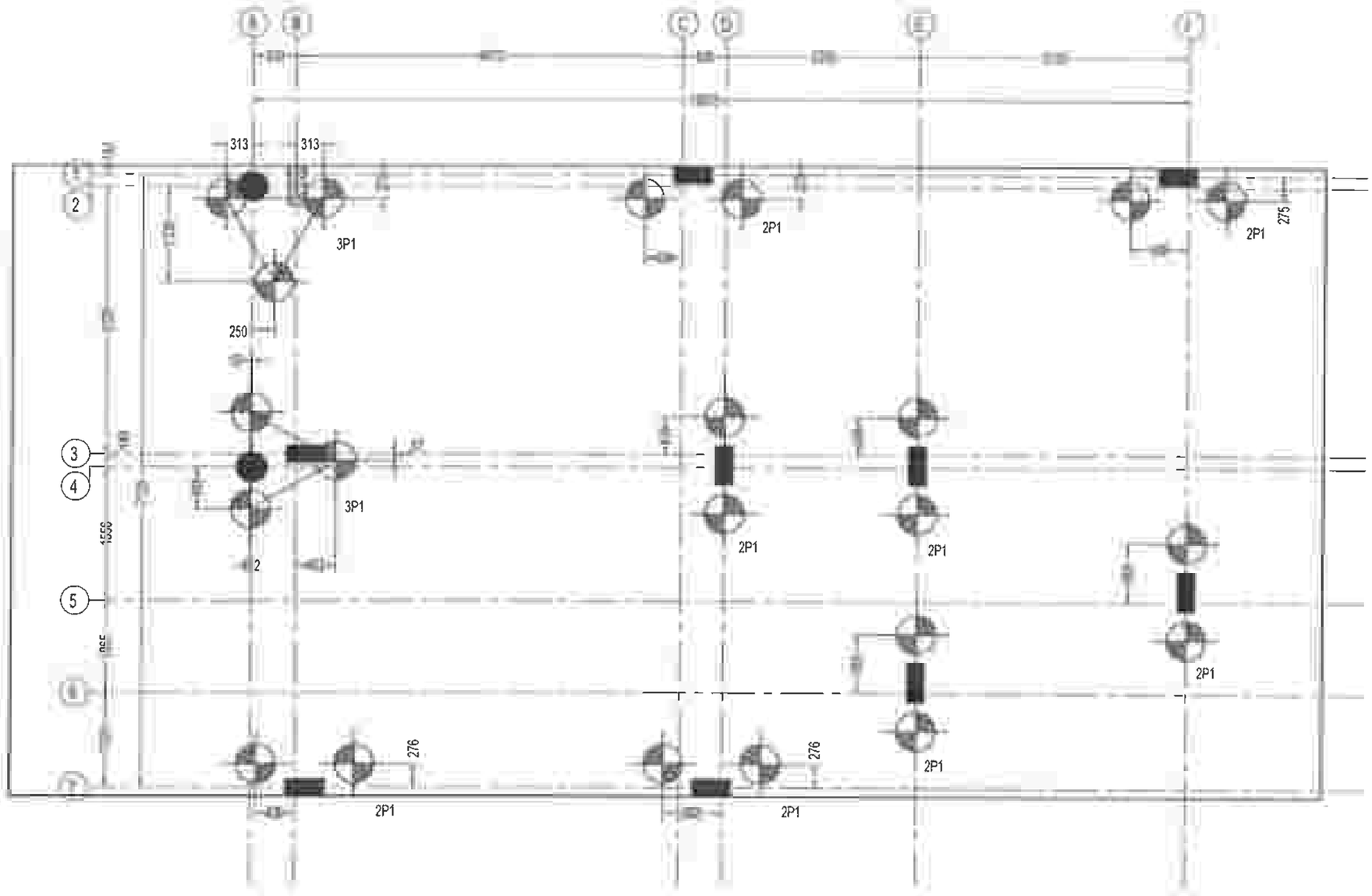
SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] NO 2/1466, 200 FEET ROAD,
EACHAN[illegible]NA NAGAR, KOVILAMBAKKAM,
CHENNA[illegible]
Safe
Structural Consultancy
[illegible]7
[illegible].com
[illegible]ralconsultancy.com

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

COLUMN MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2026-06-21	01



PILE(P) MARKING LAYOUT

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E Engg)
Reg. No - SE/GR-2/231 (CMDA)

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- ANY DISCREPANCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY
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- ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY
- GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
  ALL RCC MEMBERS IN M25 GRADE
- "Ø" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT.
  - A. COLUMNS = 40
  - B. PILE = 40
  - C. PILE CAP = 50
  - D. TIE BEAM = 30
  - E. PLINTH BEAM = 30
  - F. ROOF BEAM = 30
  - G. ROOF SLAB = 20
- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1, THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS.
- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS.

JOINTS FOR BARS

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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(84 & 85)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

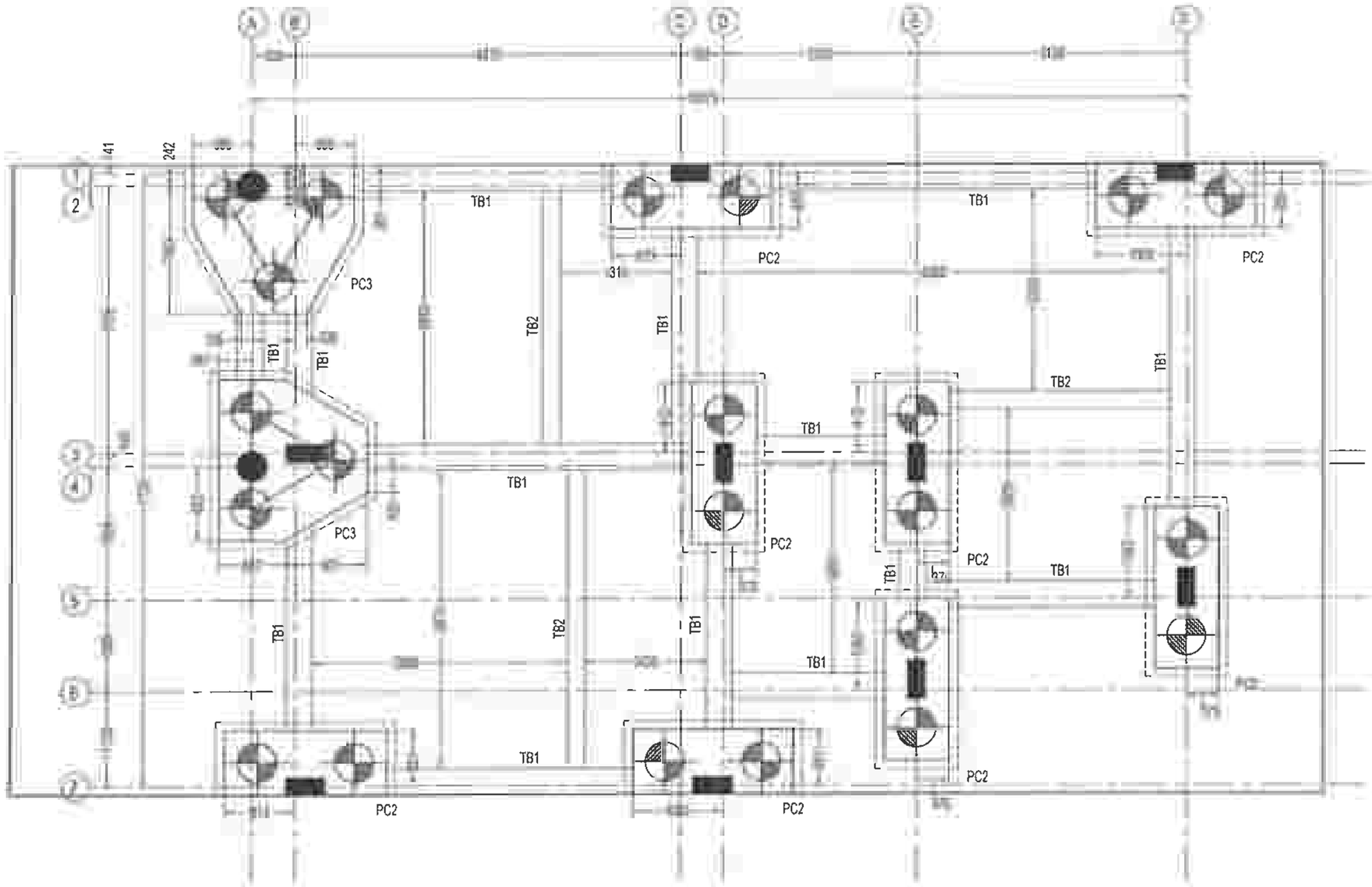
SAFE STRUCTURAL CONSULTANCY

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

PILE MARKING LAYOUT

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-21		02



PILE CAP(PC) & TIE BEAM(TB) LAYOUT

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STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO [illegible] NO 2/1466, 200 FEET ROAD, [illegible] EACHAN[illegible]NA NAGAR, KOVILAMBAKKAM, CHENNA[illegible]
Safe Structural Consultancy
[illegible].com
[illegible]afeconsultancy.com

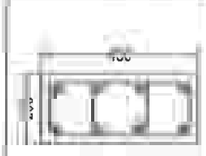
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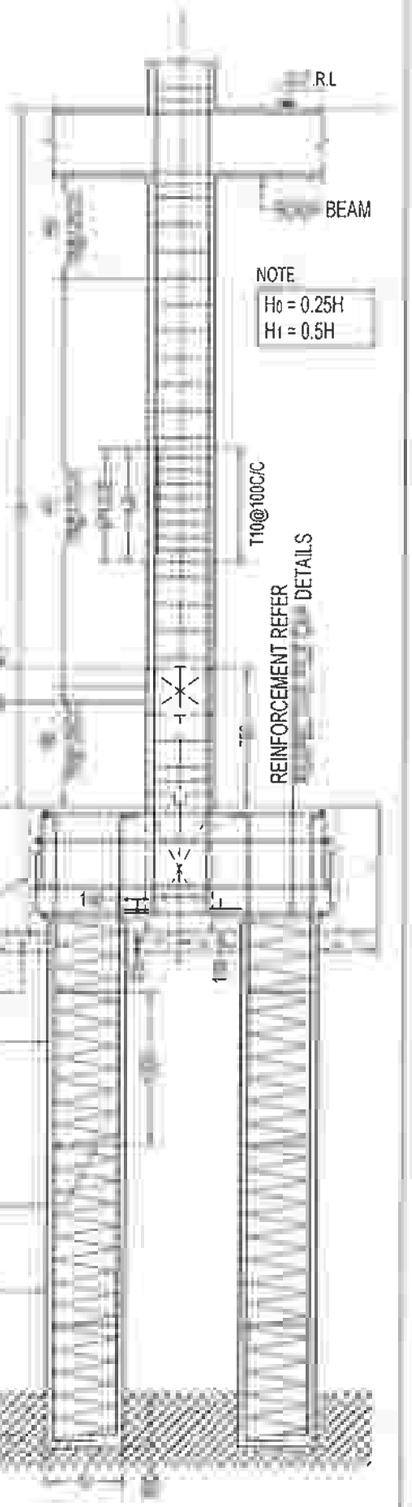
DRAWING NAME

PILE CAP(PC) MARKING , TIE BEAM LAYOUT & DETAILS

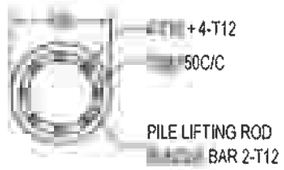
REV.	DATE	PROJECT NO	SHEET NO
R0	[illegible]	ST-2026-06-21	03

COLUMN REINFORCEMENT SCHEDULE

TERRACE LEVEL		
TO	H_0=T8@125C/C	H_0=T8@125C/C
	H_1=T8@175C/C	H_1=T8@175C/C
FOOTING MIX-M25 ⊙ - T16 ⊕ - T12		
	8-T16	3-T16 + 3-T12
COLUMN MARKED	C1	C2



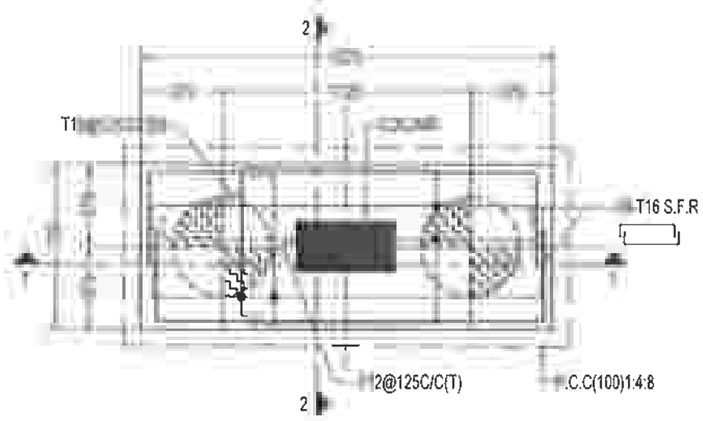
TYPICAL COLUMN & PILE CONFINING DETAILS



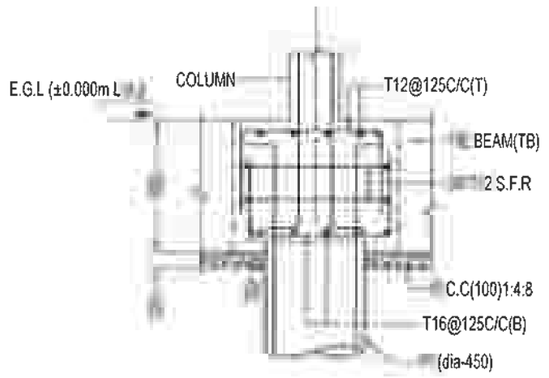
PILE (P1) - PLAN

LEGENDS:

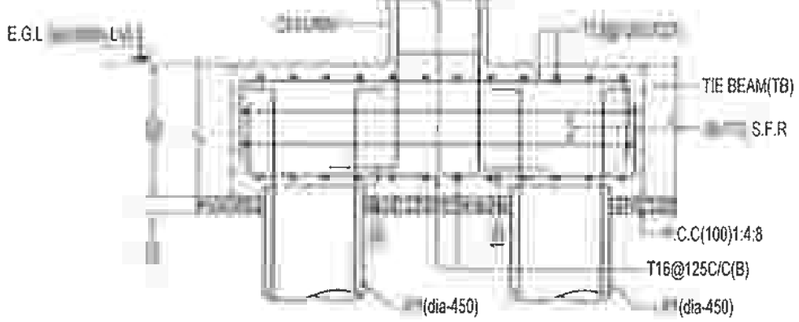
TB - TIE BEAM
PC - PILE CAP
B.L - BASEMENT LEVEL
G.F.R.L - GROUND FLOOR ROOF LEVEL
E.G.L - EXISTING GROUND LEVEL



PC2 - PLAN



SECTION - 2 - 2



SECTION - 1 - 1

LEGENDS:

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (CM)
M.E (St Engg)
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STRUCTURAL CONSULTANT

SAFE STRUCTURAL CONSULTANCY
NEW NO D 200 FEET ROAD,
EACHAN N , KOVILAMBAKKAM,
CHENNA 7
Safe CT. : +7
Structural Consultancy duralc com
www ralconsultancy.com

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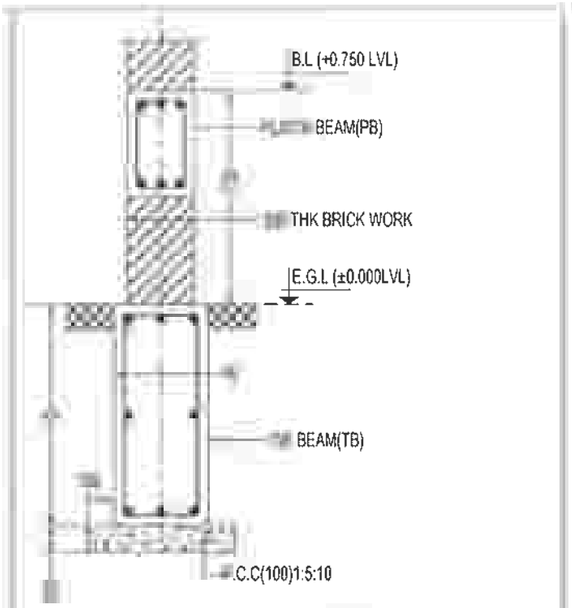
DRAWING NAME

COLUMN ,PILE, PILE CAP(PC) DETAILS

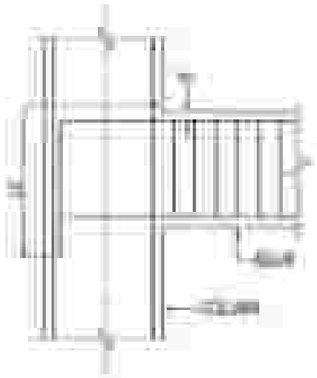
REV.	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-21	04

TIE BEAM (TB) REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(300 X 750) TB1	T16(C) 150C/C T12(C) S.F.R/E.F C.C T16(C)	6(C) 50C/C 2(C) S.F.R/E.F C.C	T16(C) 2(C) S.F.R/E.F C.C 6(C)
(200 X 750) TB2	T16(C) 50C/C S.F.R/E.F C.C T16(C)	T16(C) 50C/C 2(C) S.F.R/E.F C.C T16(C)	T16(C) 2(C) S.F.R/E.F C.C T16(C)



TYPICAL C/S TIE BEAM(TB) & PLINTH BEAM(PB) DETAILS

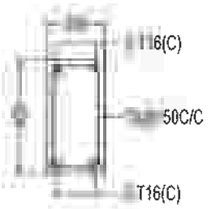


TYPICAL ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT

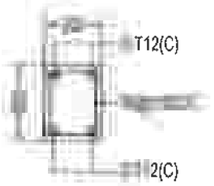
** Ld-45 TIMES DIA OF BAR

LEGENDS:

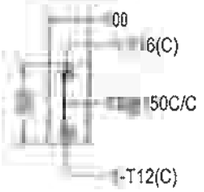
E.G.L - EXISTING GROUND LEVEL
T.B - TIE BEAM
P.B - PLINTH BEAM
B.L - BASEMENT LEVEL



PB1 - 200 X 400
C/S DETAILS



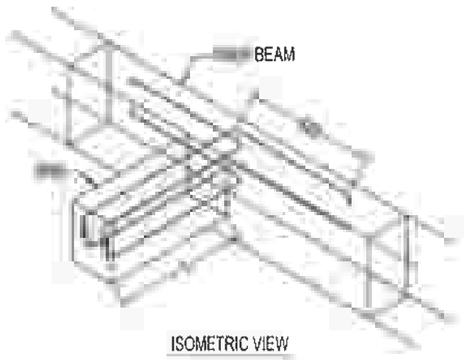
PB2 - 200 X 300
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS

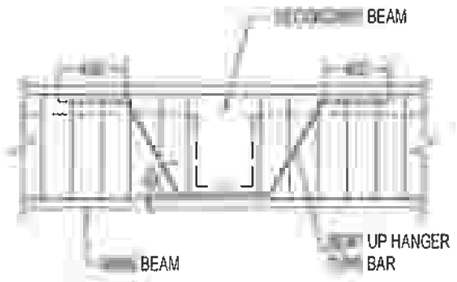
LEGENDS

S.F.R - SIDE FACE REINFORCEMENT
E.F - EACH FACE



ISOMETRIC VIEW

OF (TYP) BRACKET BEAM REST ON BEAM DETAIL



WHERE CROSS BEAM SHEAR ROD SHOULD BE PROVIDED AT 2-T16

R. RAVIKUMAR
STRUCTURAL ENGINEER GRADE - 1 (SE)
M.E (Structural Engg)
Reg. No - SE/GR-1/19/12/231 (CMDA)

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ARCHITECT

ADITYARAM GROUP

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SAFE STRUCTURAL CONSULTANCY
NEW NO 3/55, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117
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safestructuralchennai@gmail.com
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SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

TIE BEAM (TB) REINFORCEMENT DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0	ST-2026-06-21		05

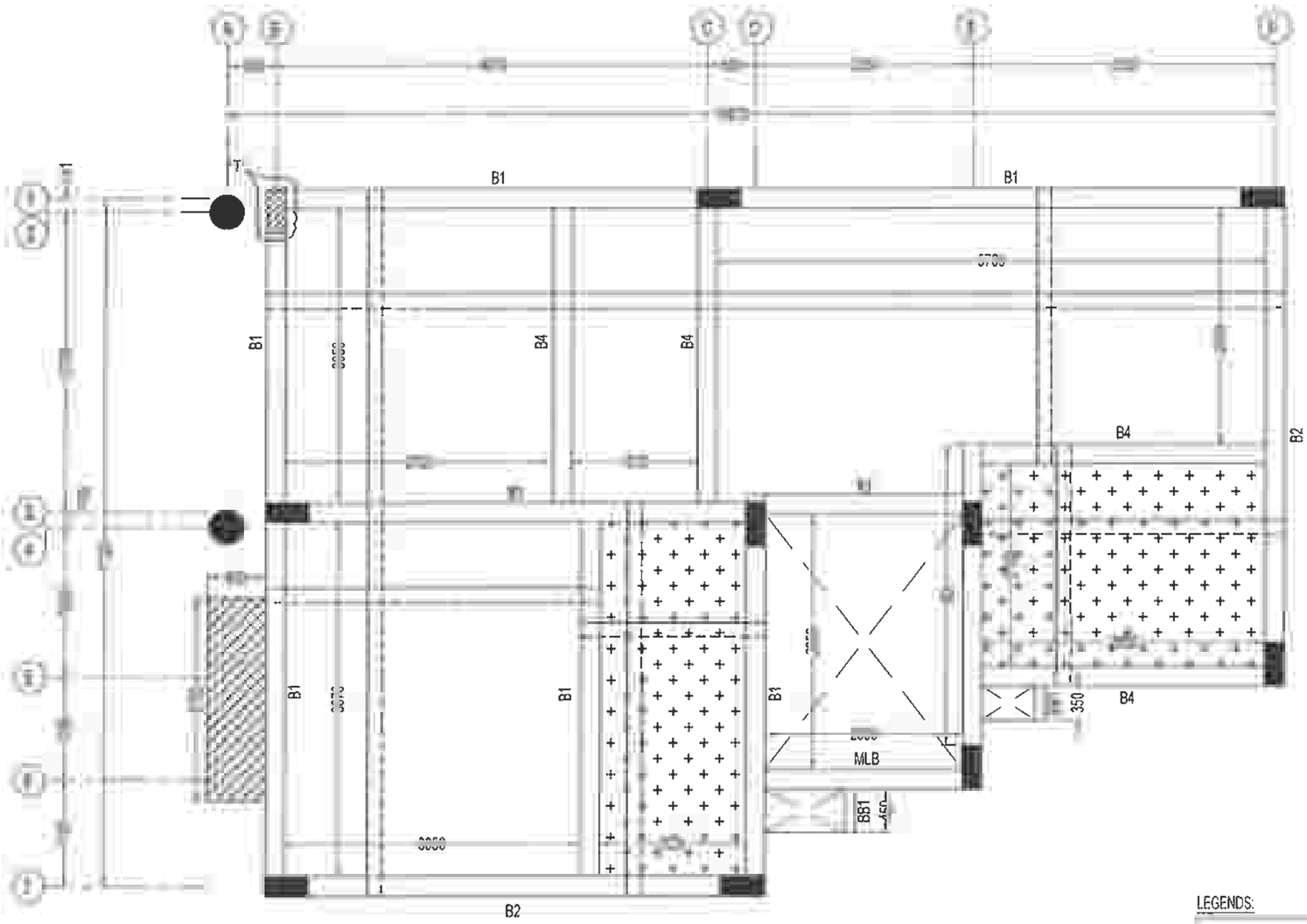
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SLAB LAYOUT & DETAILS

LEGENDS:

- BB - BRACKET BEAM
- - OPENING
- - MLB - MID LANDING BEAM
- - BALCONY SLAB SUNKEN
- - TOILET SLAB SUNKEN
- T - COLUMN CUT @ GROUND FLOOR ROOF BEAM LVL
- - - - - - TOP ROD
- ——— BOTTOM ROD
- THK - THICKNESS

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

CLIENT

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ARCHITECT

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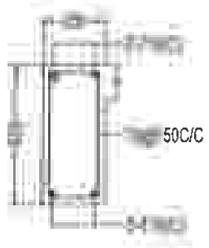
DRAWING NAME

GROUND FLOOR ROOF BEAM LAYOUT,

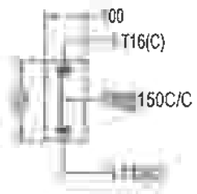
REV	DATE	PROJECT NO	SHEET.NO
R0		ST-2026-06-21	06

GROUND FLOOR ROOF BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1	6(C), 2(C), 0@125C/C, 2(C), 6(C)	6(C), T12(C), 25C/C, T12(C), T16(C)	6(C), 2(C), 0@125C/C, 2(C), 6(C)
(200 X 450) B2	T16(C), 6(C), 0@125C/C, 6(C), 6(C)	T16(C), T16(C), 25C/C, T16(C), T16(C)	6(C), 6(C), 0@125C/C, T16(C), T16(C)
(200 X 450) B3	50C/C, 6(C)	50C/C, 6(C)	50C/C, 6(C)
(200 X 450) B4	2(C), 50C/C	2(C), 50C/C	2(C), 50C/C



MLB - 280 X 450
C/S DETAILS



BB1 - 100 X 300
C/S DETAILS

R. RAVI KUMAR
STRUCTURAL ENGINEER
M.E
Reg. No - SE/GR-

LEGENDS:

C - CONTINUOUS BAR
E - EXTRA BAR

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- 'Ø' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE500 CONFORMING TO IS 1786 : 1985
- CLEAR COVER TO REINFORCEMENT.
  - A. COLUMNS = 40
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  - C. PILE CAP = 50
  - D. TIE BEAM = 30
  - E. PLINTH BEAM = 30
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- THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR G+1. THE REQUIRED PILE CAPACITY OF SOIL IS 450KN THE CONTRACTOR IS RESPONSIBLE FOR ATTAINING THIS CAPACITY 450KN BY CONSULTING WITH SOIL EXPERTS
- LOOSE SOIL IF ANY SHALL BE REMOVED BEFORE LAYING
- THE DEPTH OF BEAMS SHALL BE INCLUDING THE SLAB THICKNESS

JOI BARS

- AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED
- LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL
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CLIENT

PROJECT

ADITYARAM PALACE CITY,
(84 & 85)
AT ECR, CHENNAI.

ARCHITECT

ADITYARAM GROUP

STRUCTURAL CONSULTANT

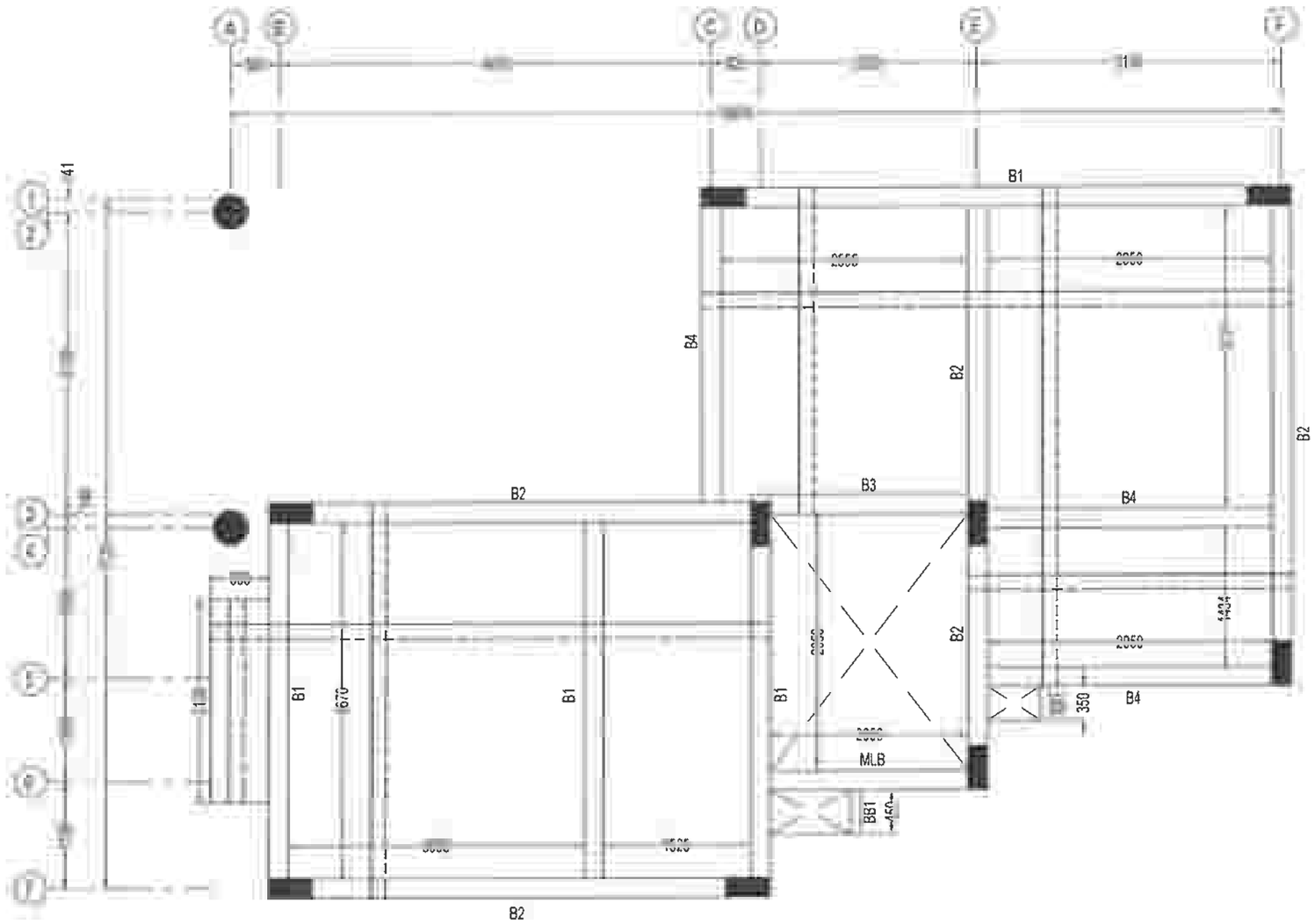
SAFE STRUCTURAL CONSULTANCY
NEW NO 3/56, OLD NO 2/1456, 200 FEET ROAD,
EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM,
600 117.
: +91 9087725267

DESIGNED	RK	RELEASED FOR
DETAILED	SG	☐ TENDER
SCALE	1:100	☑ APPROVAL
SHEET	A3	☐ CONSTRUCTION

DRAWING NAME

GROUND FLOOR ROOF BEAM DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-21	07



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TECHNICAL NOTES

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ONLY WRITTEN DIMENSION TO BE FOLLOWED

ANY DISCREPANCIES NOTICED IN THE ORG SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.

EXECUTIVES SHALL CHECK ALL DRAWING BEFORE TAKING EXECUTION IN HAND

ENGINEER IN CHARGE TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED LIVE LOAD,APPROPRIATE ARRANGEMENT TO BE MADE TO DISTRIBUTE CONSTRUCTION LOAD EVENLY.

GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
ALL RCC MEMBERS IN M25 GRADE

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LAP JOINTS [illegible] ENT BARS

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ADITYARAM PALACE CITY,
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SAFE STRUCTURAL CONSULTANCY

NOTES:

ALL SLAB THICKNESS - 150
ALL SLAB RODS :-
SHORTER SPAN - T10@150C/C
LONGER SPAN - T8@150C/C

TERRACE BEAM LAYOUT & SLAB LAYOUT & DETAILS

RK

LEGENDS:

- OPENING
- MLB - MID LANDING BEAM
- TOP ROD
- BOTTOM ROD

THK - THICKNESS

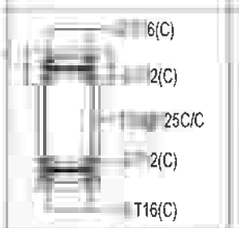
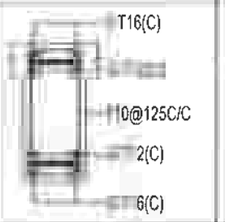
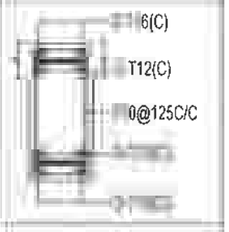
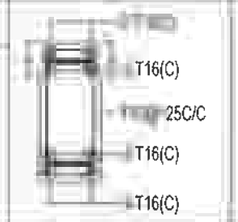
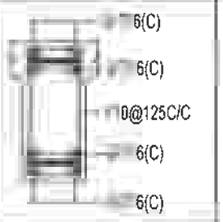
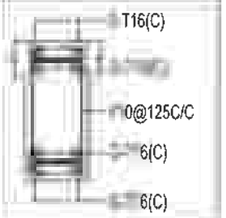
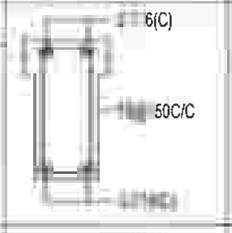
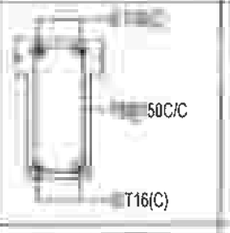
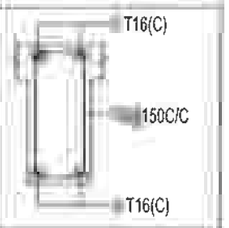
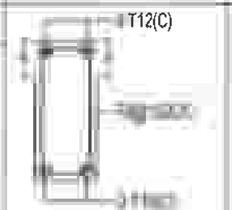
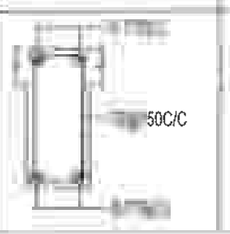
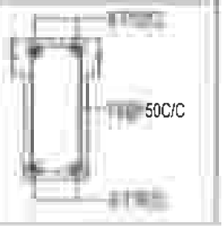
DESIGNED	RK	RELEASED FOR
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DRAWING NAME

TERRACE BEAM LAYOUT & SLAB DETAILS

REV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-21	08

TERRACE BEAM REINFORCEMENT SCHEDULE:

BEAM SIZE & NO.	DETAIL @ LEFT SUPPORT	DETAIL @ MIDDLE	DETAIL @ RIGHT SUPPORT
(200 X 450) B1			
(200 X 450) B2			
(200 X 450) B3			
(200 X 450) B4			

NOTES

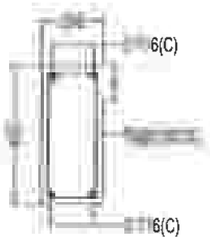
ALL SLAB THICKNESS - 150

ALL SLAB RODS :-

SHORTER SPAN - T10@150C/C

LONGER SPAN - T8@150C/C

TERRACE BEAM LAYOUT & SLAB LAYOUT & DETAILS



MLB - 200 X 450 C/S DETAILS

LEGENDS:

- OPENING
- MLB - MID LANDING BEAM
- TOP ROD
- BOTTOM ROD

THK - THICKNESS

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NEW NO 3/56, OLD NO 2/1466, 200 FEET ROAD, EACHANKADU, ANNA NAGAR, KOVILAMBAKKAM, CHENNAI - 600 117.
CONTACT. : +91 9087725267
safestructuralchennai@gmail.com
Web.: www.safestructuralconsultancy.com

DESIGNED	RK	RELEASED FOR	
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DRAWING NAME

TERRACE BEAM DETAILS

EV	DATE	PROJECT NO	SHEET NO
R0		ST-2026-06-21	09

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

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

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.