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RE REGULATORY RECORD

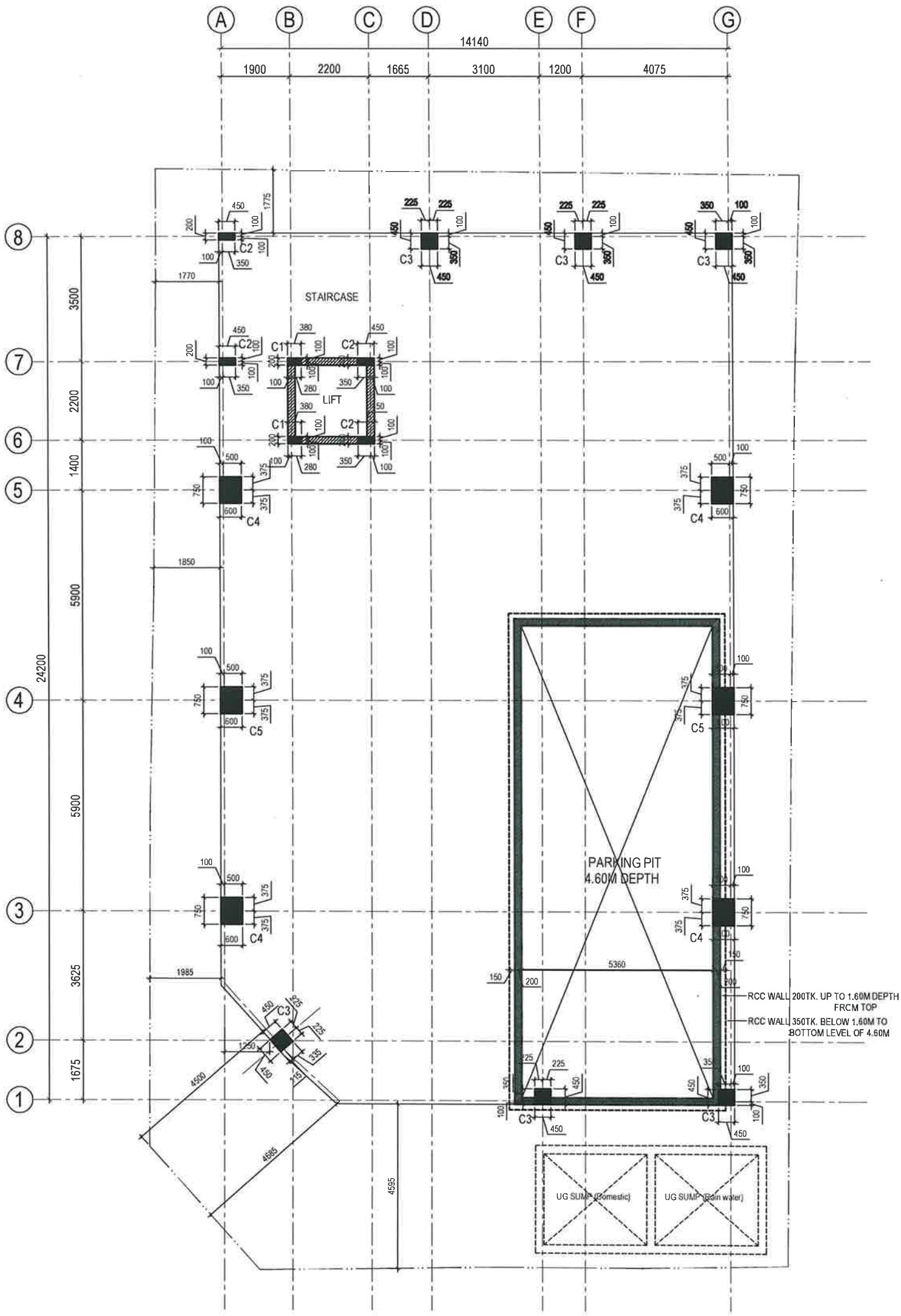
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COLUMN AXIS LAYOUT

ES. KUMAR, M.Tech.- Structures
CMDA Structural Engineer-Grade-1,
Reg. No. SE/Gr-I/2024/02/007
97-B/1, Dr. Abdul Kalam Street,
Ramakrishna Nagar, Melamaiyur
Chengalpattu - 603 003
Cell: 98404 48613

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ---------- 24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ---------- 3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ---------- 7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ---------- 7 DAYS.
ii) SPANNING OVER 4.50M ---------- 14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ---------- 14 DAYS.
ii) SPANNING OVER 6.00M ---------- 21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

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

ii). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

iii). DEVELOPMENT LENGTH (Ld) SHALL BE AS PER SP: 34 - 1999 AND THE MINIMUM Ld=50d, WHERE d= Dia. of Rod TO BE LAPPED

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

v). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

vi). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

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   GRADE OF CONCRETE FOR COLUMN & PILE - M30.
   FOR COLUMNS C4 & C5 (600X750) ADOPT - M35.
   PILE CAP, RCC WALL AND GRADE BEAM - M25.
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE 500 CONFIRMING TO IS 1786 : 2008
7. CLEAR COVER TO THE REINFORCEMENT
   A. COLUMNS ---------- 40mm
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   D. GRADE BEAM ---- 30 mm

DIA. OF PILE (MM)	SAFE LOAD IN COMPRESSION (T)
600 MM (P1)	1300 KN

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REV.	DESCRIPTION	DRN.	CHK.	DATE
03	GOOD FOR CONSTRUCTION	MD	ESK	02-06-2
02	UPDATED FOR 14M HEIGHT & PT BEAM & SLAB	MD	ESK	20-05-2
01	COLUMN DETAIL UPDATED	MD	ESK	02-01-2
00	ISSUED FOR APPROVAL	MD	ESK	15-12-:

PROJECT NAME :

PROPOSED CONSTRUCTION OF COMMERCIAL (RETAIL) BUILDING AVAILING PREMIUM FSI AT PLOT NO 4951, OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1, AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040. COMPRISED IN OLD S.NO: 69 Pt & 73 Pt , T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE, AMINJIKARAI TALUK ZONE VIII, DIVISION 103 OF GREATER CHENNAI CORPORATION.

DRAWING TITLE: COLUMN AXIS LAYOUT

JOB NO.	DWG. NO.	REV. NO. 03	REF. CO
KA -	S-01	Date 02-06-24	

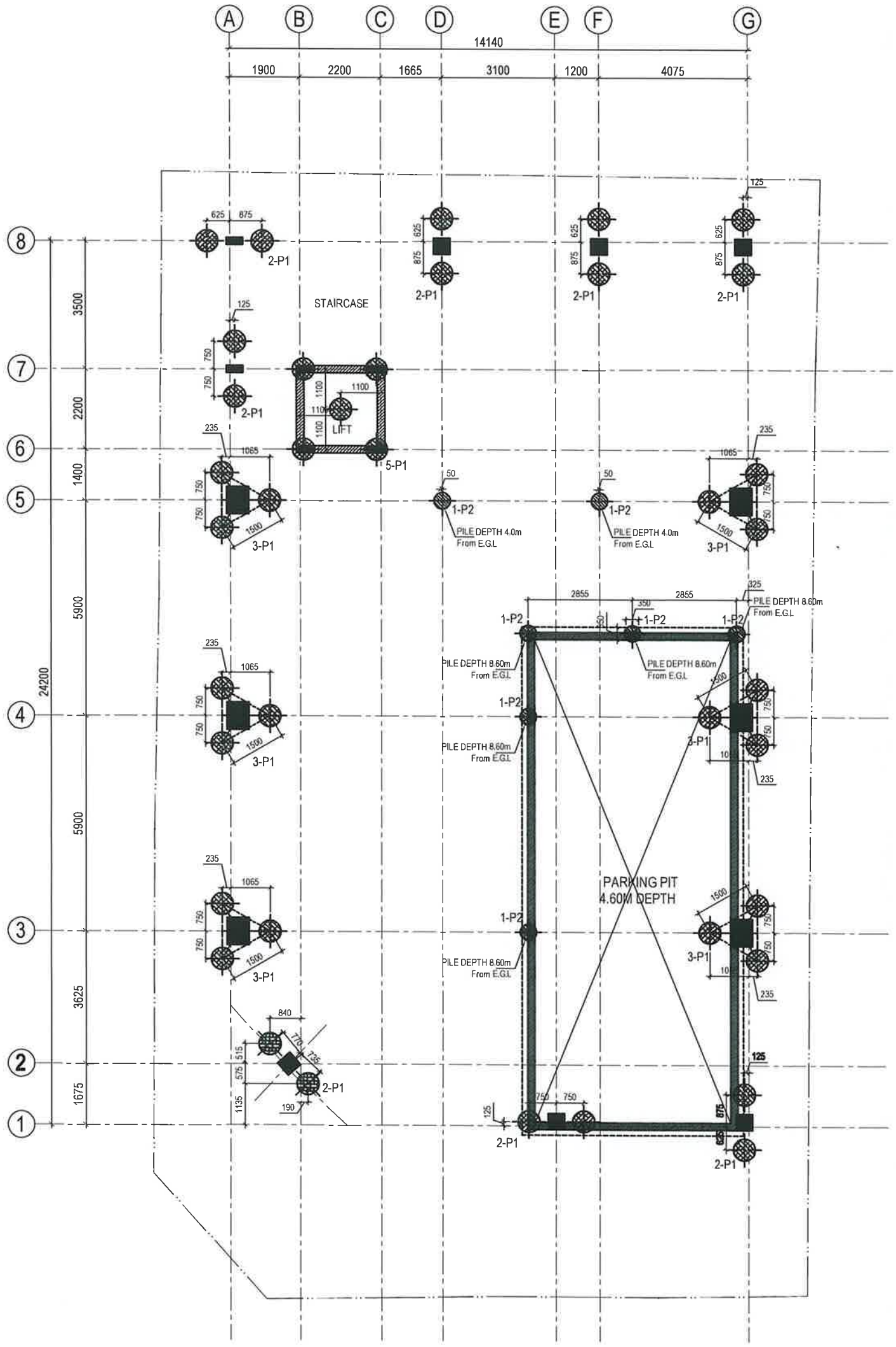
STRUCTURAL CONSULTANTS:

ES.KUMAR.,M.Tech. (structures),
KIRTE ASSOCIATES, CIVIL & STRUCTURAL ENGINEERING CONSULTANTS,
PLOT NO:1233, FIRST FLOOR,
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Chennai - 600 040. Mob: 98404 48613.

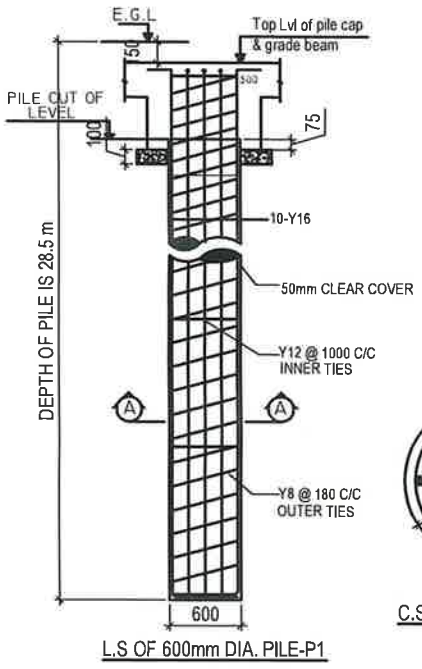
ARCHITECTS:

RJ ARCHITECTS PVT.LTD
NO.7(OLD NO.Y 81) FIRST FLOOR,
6TH STREET,Y- BLOCK, 5TH AVENUE
CHENNAI - 600 040.TELE : 4261 2003

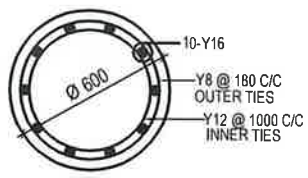
Drawn: M.D	Designed: ES	Checked : ES.KUMAR
Scale :	Date : 15-12-2023	



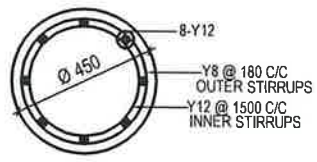
PILE GROUP LAYOUT



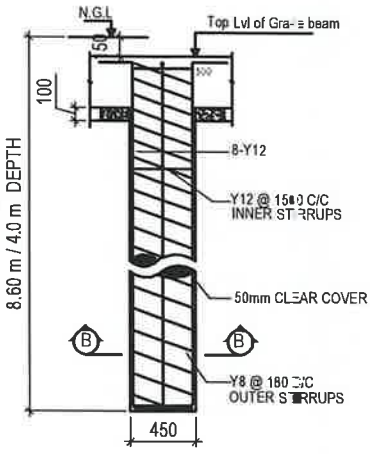
L.S OF 600mm DIA. PILE-P1



SECTION "A-A"
C.S OF PILE - 600 DIA.



SECTION "B-B"
C.S OF PILE - 450 DIA.



L.S OF 450mm DIA. PILE - P2

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Chengalpattu - 603 003
Cell: 9840448613

REV.	DESCRIPTION	DRN.	CHK.	DATE
03	GOOD FOR CONSTRUCTION	MD	ESK	02-06-2
01	COLUMN DETAIL UPDATED	MD	ESK	02-01-2
00	ISSUED FOR APPROVAL	MD	ESK	15-12-:

PROJECT NAME :

PROPOSED CONSTRUCTION OF COMMERCIAL (RETAIL) BUILDING AVAILING PREMIUM FSI AT PLOT NO 4951, OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1, AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040. COMPRISED IN OLD S.NO: 69 Pt & 73 Pt , T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE, AMINJIKARAI TALUK ZONE VIII, DIVISION 103 OF GREATER CHENNAI CORPORATION.

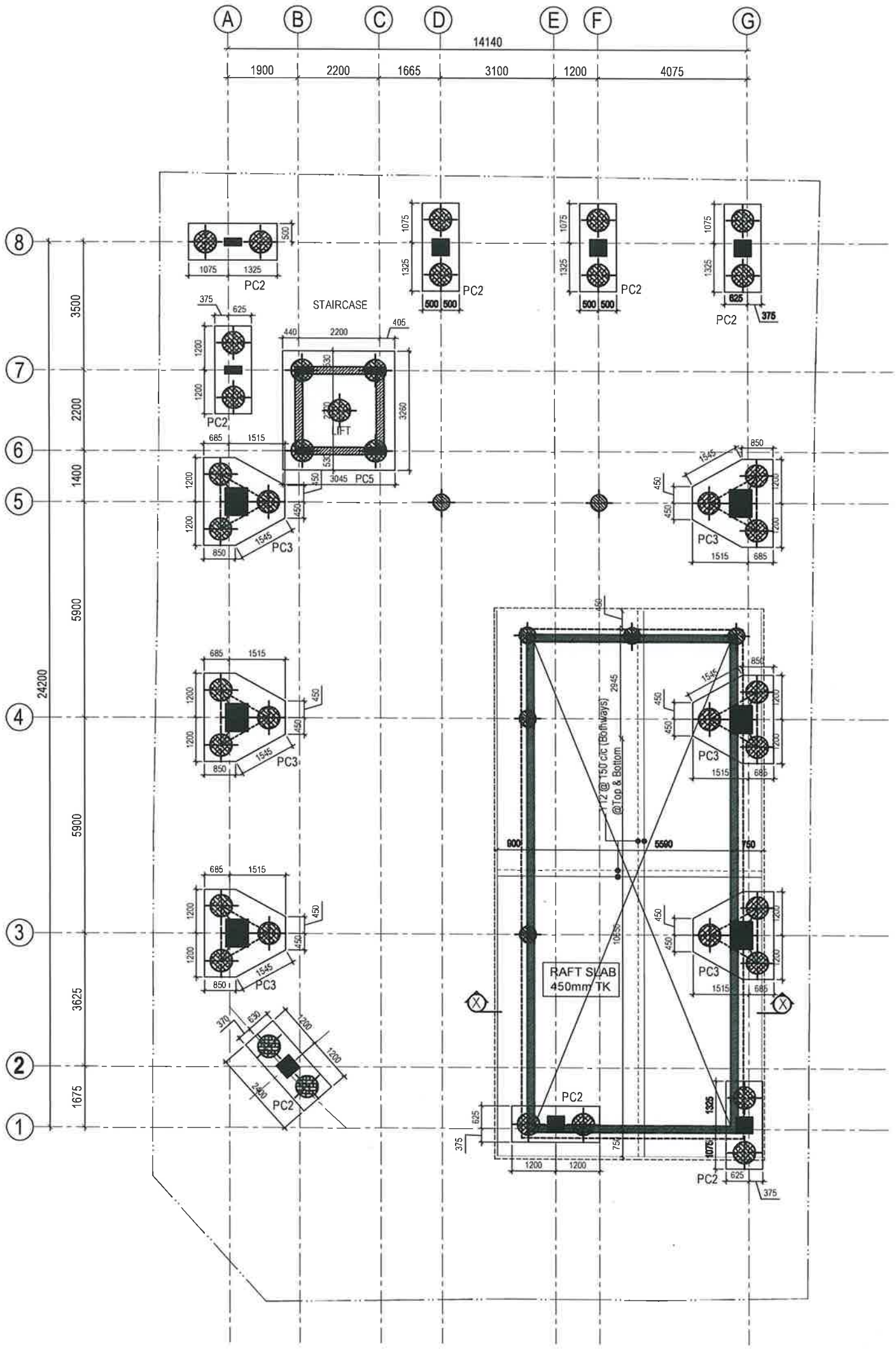
DRAWING TITLE: PILE GROUP LAYOUT

JOB NO.	DWG. NO.	REV. NO. 03	REF. CO
KA -	S-02	Date 02-06-24	

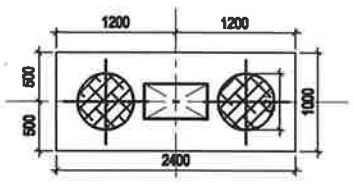
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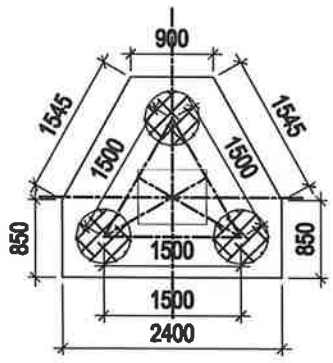
Drawn: M.D	Designed: ES	Checked : ES.KUMAR
Scale :	Date : 15.12.2023	



PILE CAP LAYOUT



PC2 - LAYOUT



PC3 - LAYOUT

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03	GOOD FOR CONSTRUCTION	MD	ESK	02-06-2
01	COLUMN DETAIL UPDATED	MD	ESK	02-01-2
00	ISSUED FOR APPROVAL	MD	ESK	15-12-:

PROJECT NAME :

PROPOSED CONSTRUCTION OF COMMERCIAL (RETAIL) BUILDING AVAILING PREMIUM FSI AT PLOT NO 4951, OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1, AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040. COMPRISED IN OLD S.NO: 69 Pt & 73 Pt , T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE, AMINJIKARAI TALUK ZONE VIII, DIVISION 103 OF GREATER CHENNAI CORPORATION.

DRAWING TITLE: PILE CAP LAYOUT

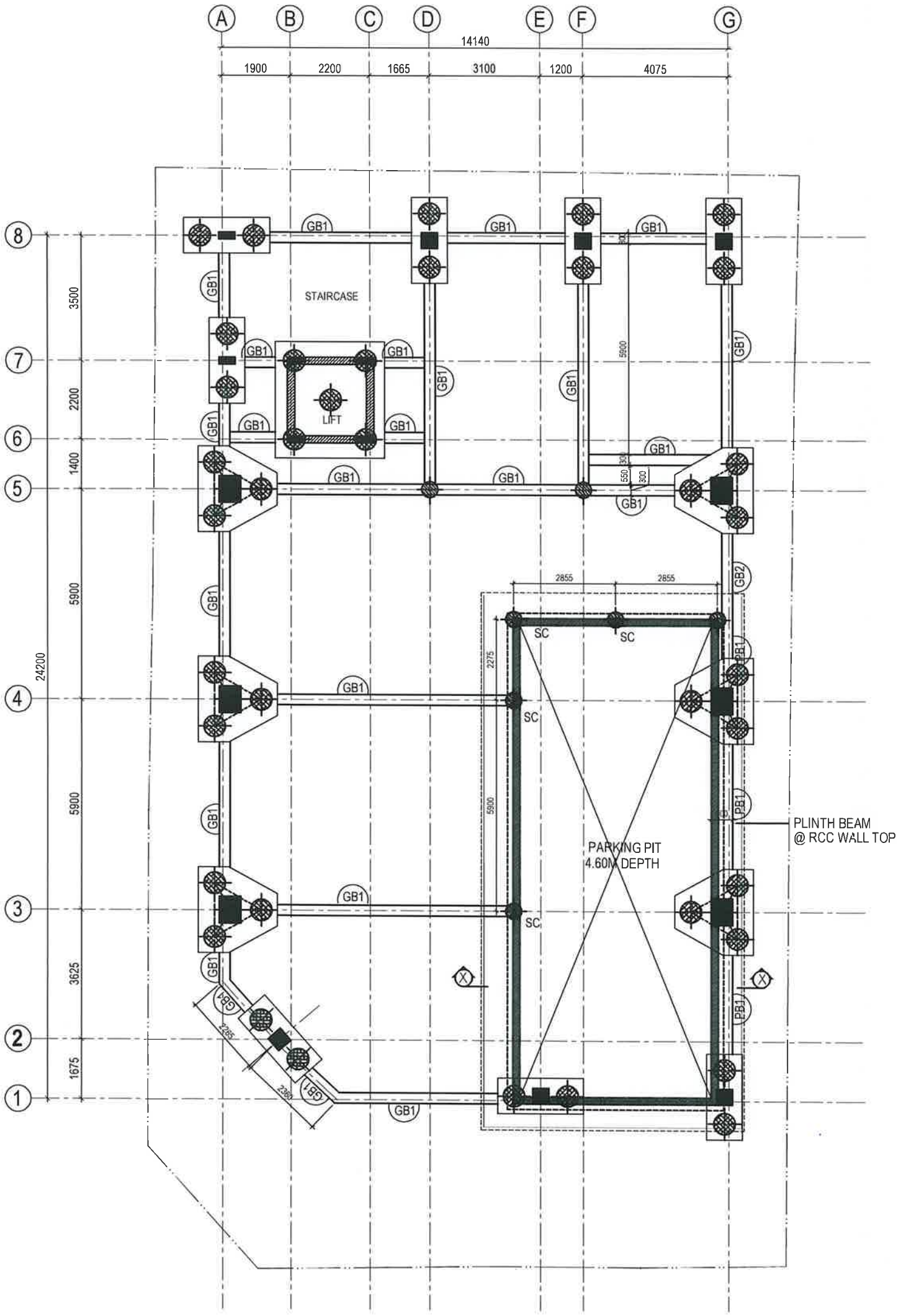
JOB NO.	DWG. NO.	REV. NO. 03	REF. CO
KA-	S-03	Date 02-06-24	

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ARCHITECTS: RJ ARCHITECTS PVT.LTD
NO.7(OLD NO.Y 81) FIRST FLOOR,
6TH STREET,Y- BLOCK, 5TH AVENUE
CHENNAI - 600 040.TELE : 4261 2003

Drawn: M.D	Designed: ES	Checked : ES.KUMAR



GRADE BEAM LAYOUT

GENERAL NOTES:

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DRAWING TITLE: GRADE BEAM LAYOUT

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KA-	S-04	Date 02-06-24	

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ES.KUMAR.,M.Tech. (structures),
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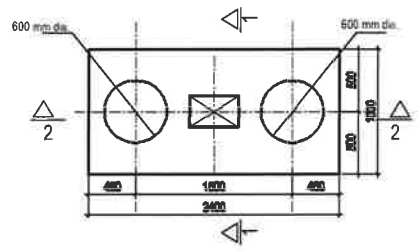
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Drawn: M.D	Designed: ES	Checked : ES.KUMAR
Scale :	Date : 15.12.2023	

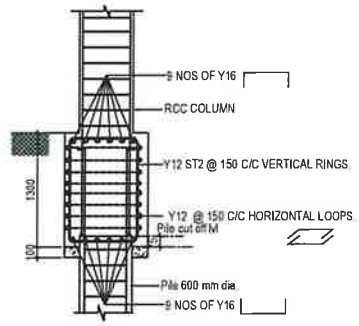
COLUMN SCHEDULE UPTO ROOF TOP LEVEL

DESCRIPTION	SIZE	REINFORCEMENT	SHAPE OF TIES
SC	350 x 350	8 NOS. OF Y12 MAIN RODS Y8 TIES @ 150 c/c	TWO CLOSED
C1	200 x 380	6 NOS. OF Y16 MAIN RODS Y8 TIES @ 150 C/C	ONE CLOSED ONE OPEN
C2	200 x 450	8 NOS. OF Y16 MAIN RODS Y8 TIES @ 150 C/C	TWO CLOSED
C3	450 x 450	12 NOS. OF Y16 MAIN RODS Y8 TIES @ 150 C/C	THREE CLOSED
C4	600 x 750	18 NOS. OF Y25 MAIN RODS Y8 TIES @ 150 C/C	FOUR CLOSED ONE OPEN
C5	600 x 750	22 NOS. OF Y25 MAIN RODS Y8 TIES @ 150 C/C	FOUR CLOSED ONE OPEN

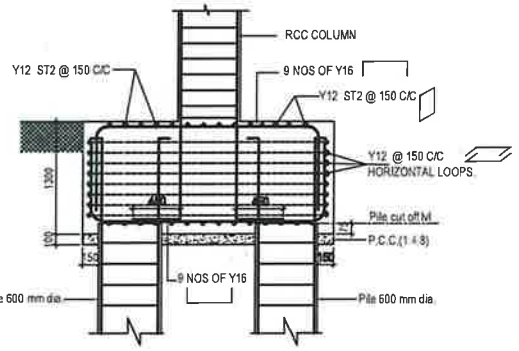
NOTE : SC - STUB COLUMN FROM BOTTOM LEVEL OF 4.60 TO 1.60 LEVEL



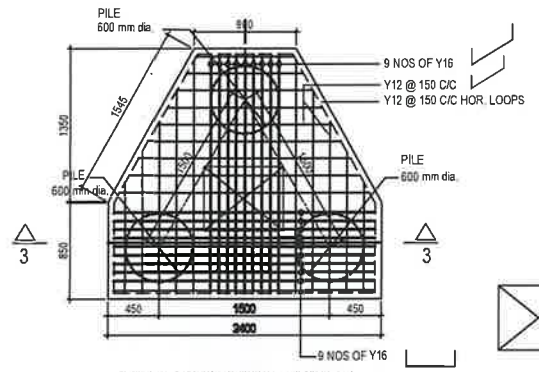
PLAN OF DOUBLE PILE CAP (PC2)



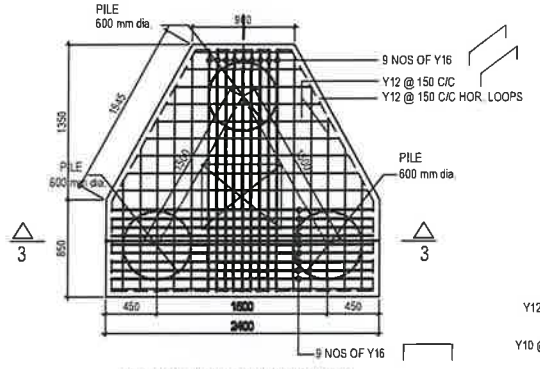
SECTION 1 - 1



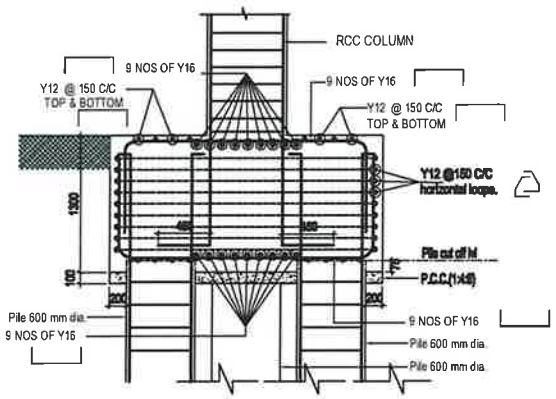
SECTION 2 - 2



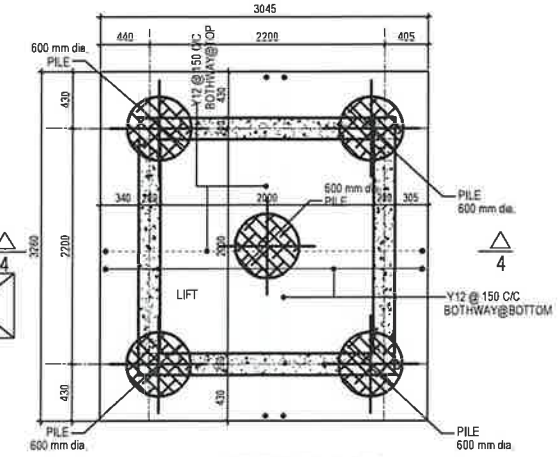
PLAN OF THREE PILE CAP (PC3)
PLAN OF BOTTOM REINFORCEMENT



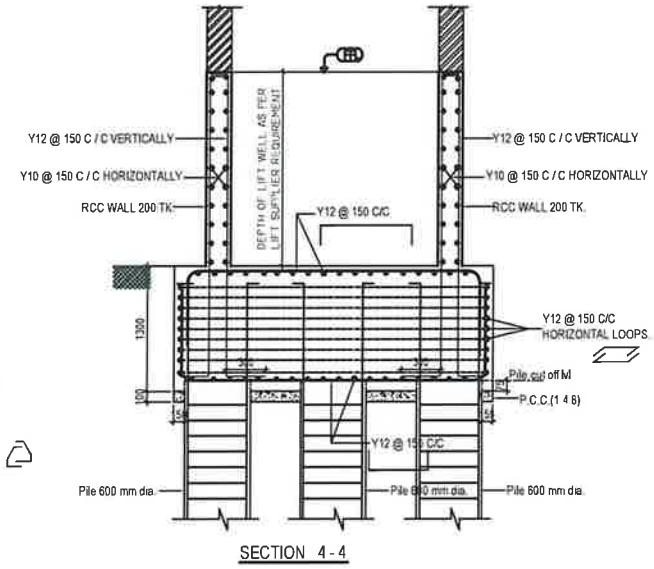
PLAN OF THREE PILE CAP (PC3)
PLAN OF TOP REINFORCEMENT



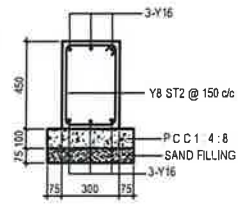
SECTION 3 - 3



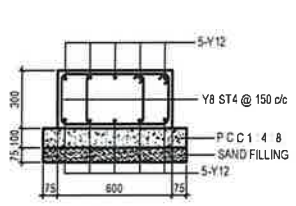
PLAN OF FIVE PILE CAP (PC5)



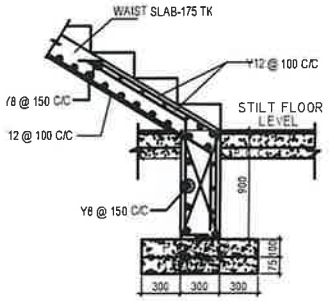
SECTION 4 - 4



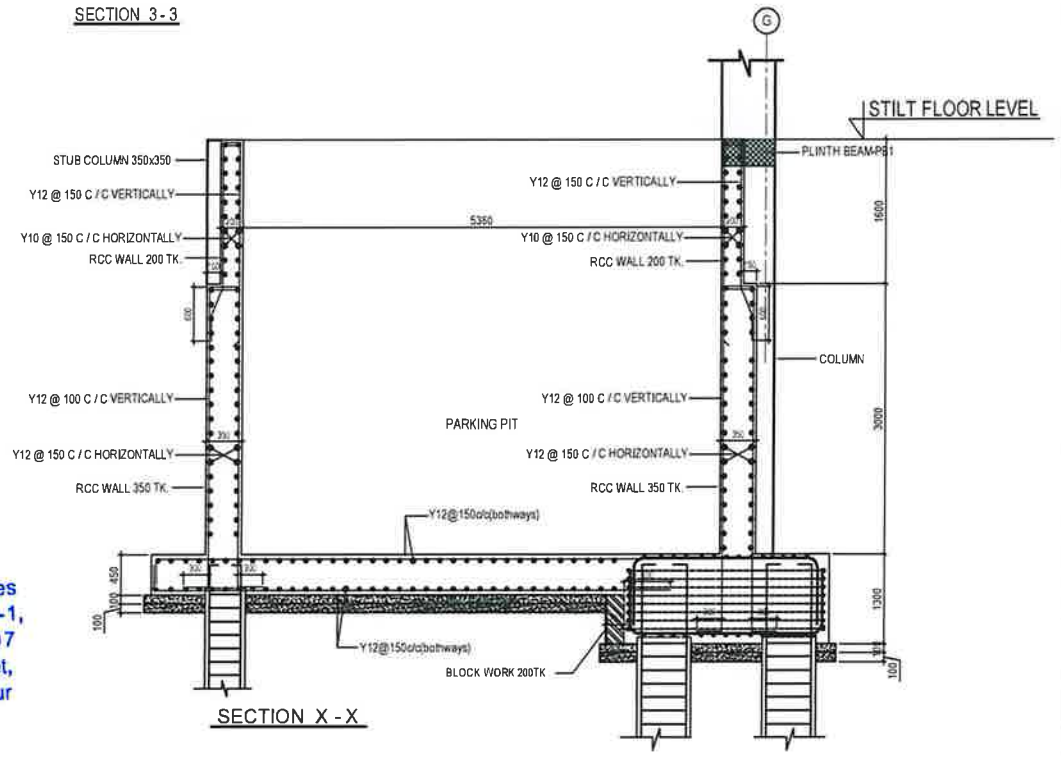
GRADE BEAM -GB1
(300 x 450 SIZE)



PLINTH BEAM -PB1
(600 x 300 SIZE)



TYP. DETAIL OF
STAIRCASE DOWELS



SECTION X - X

ES. KUMAR, M.Tech.- Structures
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Chengalpattu - 603 003
Cell:9840448613

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ——— 24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ——— 3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ——— 7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ——— 7 DAYS.
ii) SPANNING OVER 4.50M ——— 14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ——— 14 DAYS.
ii) SPANNING OVER 6.00M ——— 21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

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

ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

iii). DEVELOPMENT LENGTH (Ld) SHALL BE AS PER SP: 34 - 1999 AND THE MINIMUM Ld=50d, WHERE d= Dia. of Rod TO BE LAPPED.

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

v). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

vi). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

vii). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. ANY DISCREPENCIES NOTICED IN THE DWG. SHALL BE BROUGHT TO OUR KNOWLEDGE IMMEDIATELY.
4. THIS DWG. SHOULD TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWGs. (LATEST REVISION).
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
GRADE OF CONCRETE FOR COLUMN & PILE - M30.
FOR COLUMNS C4 & C5 (600X750) ADOPT - M35.
FOR PILE CAP, RCC WALL AND GRADE BEAM - M25.
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE 500 CONFIRMING TO IS 1786 : 2008
7. CLEAR COVER TO THE REINFORCEMENT
A. COLUMNS ——— 40mm
B. PILE ——— 75mm
C. PILE CAP BOTTOM - 75mm, TOP & SIDES - 50mm
D. GRADE BEAM —— 30 mm

DIA. OF PILE (MM)	SAFE LOAD IN COMPRESSION (T)
600 MM (P1)	1300 KN

8. THE BUILDING FOUNDATION HAS BEEN DESIGNED FOR STILT FLOOR + THREE FLOORS ABOVE ONLY
9. THE BUILDING HAS BEEN DESIGNED FOR EARTHQUAKE RESISTANCE AS PER IS 1893 (PART 1) : 2002 - CODE FOR EARTHQUAKE RESISTANT DESIGN OF STRUCTURES

REV.	DESCRIPTION	DRN.	CHK.	DATE
03	GOOD FOR CONSTRUCTION	MD	ESK	02-06-24
02	UPDATED FOR 14M HEIGHT & PT BEAM & SLAB	MD	ESK	20-05-24
01	COLUMN AND PILE CAP DETAIL UPDATED	MD	ESK	02-01-24
00	ISSUED FOR APPROVAL	MD	ESK	15-12-23

PROJECT NAME :

PROPOSED CONSTRUCTION OF COMMERCIAL (RETAIL) BUILDING AVAILING PREMIUM FSI AT PLOT NO 4951, OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1. AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040. COMPRISED IN OLD S.NO: 69 Pt & 73 Pt , T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE, AMINJIKARAI TALUK, ZONE VIII, DIVISION 103 OF GREATER CHENNAI CORPORATION.

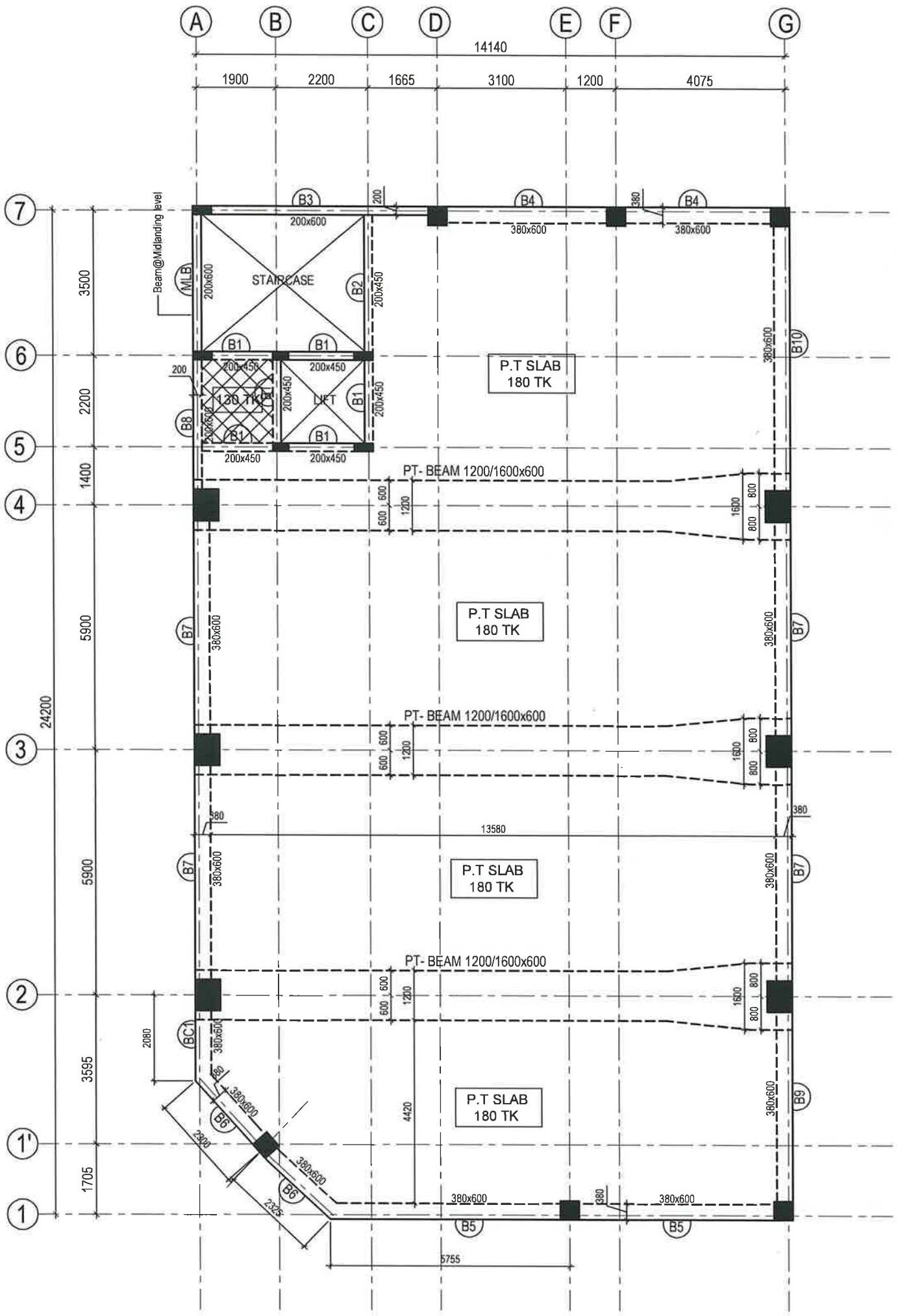
DRAWING TITLE: FOUNDATION DETAILS

JOB NO.	DWG. NO.	REV. NO. 03	REF. CODE
KA -	S-05	Date 02-06-24	

STRUCTURAL CONSULTANTS:
ES.KUMAR.,M.Tech. (structures),
KIRTE ASSOCIATES, CIVIL & STRUCTURAL ENGINEERING CONSULTANTS,
PLOT NO:1233, FIRST FLOOR,
FLAT NO:1B,PRIYA AJAY ARCADE,
18th MAIN ROAD, ANNA NAGAR, (WEST)
Chennai - 600 040. Mob: 98404 48613.

ARCHITECTS:
RJ ARCHITECTS PVT.LTD.
NO.7(OLD NO.Y 81) FIRST FLOOR
6TH STREET.Y- BLOCK 5TH AVENUE
CHENNAI - 600 040.TELE 4261 2003

Drawn M.D	Designed ES	Checked ES.KUMAR



STILT FLOOR ROOF BEAM LAYOUT

BEAM SCHEDULE

SL.NO.	NAME	SIZE
01.	B1	200 x 450
02.	B2	200 x 450
03.	B3	200 x 600
04.	B4	380 x 600
05.	B5	380 x 600
06.	B6	380 x 600
07.	B7	380 x 600
08.	B8	200 x 600
09.	B9	380 x 600
10.	B10	380 x 600
11.	BC1	380 x 600
12.	MLB	200 x 450

ES. KUMAR, M.Tech.- Structures
CMDA Structural Engineer-Grade-1,
Reg. No. SE/Gr-I/2024/02/007
97-B/1, Dr. Abdul Kalam Street,
Ramakrishna Nagar, Melamaiyur
Chengalpattu - 603 003
Cell: 98404 48613

LEGEND

= SUNKEN BY 250

NOTES:

FOR P.T BEAM & SLAB DETAIL, REFER UCON DWGS.

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ---------- 24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ---------- 3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ---------- 7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ---------- 7 DAYS.
ii) SPANNING OVER 4.50M ---------- 14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ---------- 14 DAYS.
ii) SPANNING OVER 6.00M ---------- 21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

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

ii). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

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

v). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

vi). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

vii). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

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4. THIS DWG. SHOULD TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWG. (LATEST REVISION).
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000 GRADE OF CONCRETE FOR COLUMN , BEAM AND SLAB - M25
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE Fe 500 CONFIRMING TO IS 1786 : 2008
7. CLEAR COVER TO THE REINFORCEMENT
   A. COLUMNS ——— 40mm
   B. ROOF BEAM ——— 30mm
   C. ROOF SLAB ——— 20 mm
8. DEPTH OF BEAM IS INCLUSIVE OF SLAB THICKNESS

REV.	DESCRIPTION	DRN.	CHK.	DATE
00	ISSUED FOR APPROVAL	MD	ESK	15-06-2

PROJECT NAME :
PROPOSED CONSTRUCTION OF STILT FLOOR(MECHANIZED PIT PUZZLE PARKING) + 3 FLOORS COMMERCIAL (RETAIL) BUILDING (14.00M HEIGHT) AT PLOT NO 4951, OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1, AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040 COMPRISED IN OLD S.NO: 69 Pt & 73 Pt & 74Pt, T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE WITHIN THE OF GREATER CHENNAI CORPORATION.

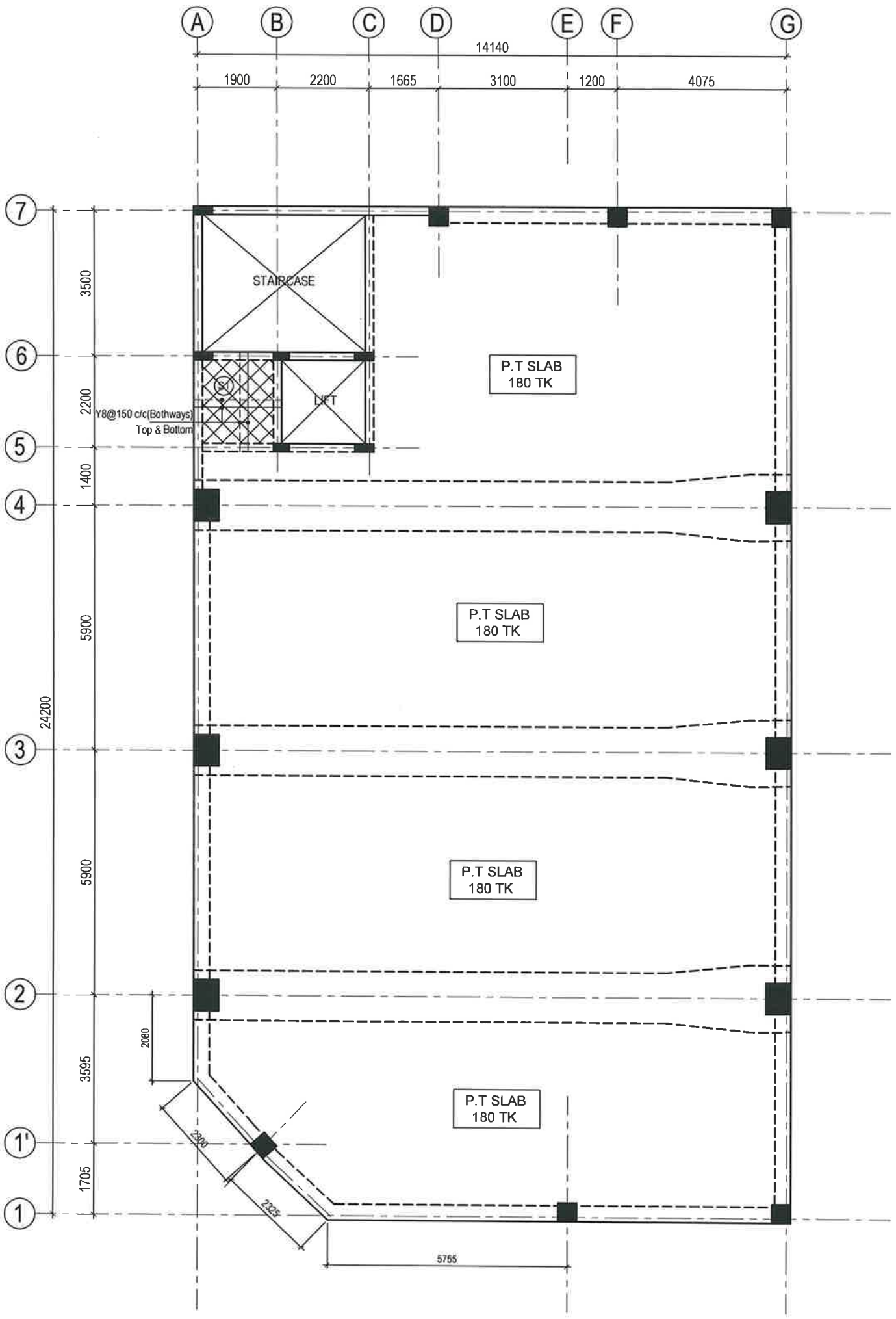
DRAWING TITLE:
STILT FLOOR ROOF BEAM LAYOUT

JOB NO.	DWG. NO.	REV. NO. 00	REF. CO
KA-	S-06	Date 15-06-24	

STRUCTURAL CONSULTANTS:
ES.KUMAR.,M.Tech. (structures),
KIRTE ASSOCIATES, CIVIL & STRUCTURAL ENGINEERING CONSULTANTS,
PLOT NO:1233, FIRST FLOOR,
FLAT NO:1B,PRIYA AJAY ARCADE,
18th MAIN ROAD, ANNA NAGAR, (WEST)
Chennai - 600 040. Mob: 98404 48613.

ARCHITECTS:
RJ ARCHITECTS PVT.LTD.
NO.7(OLD NO.Y 81) FIRST FLOOR,
6TH STREET,Y- BLOCK, 5TH AVENUE
CHENNAI - 600 040.TELE : 4261 2003

Drawn: M.D	Designed: ES	Checked : ES.KUMAR
Scale :	Date : 15.06.2024	



STILT FLOOR ROOF SLAB LAYOUT

SLAB SCHEDULE

S.NO.	NAME	THICK
01.	S1	130

ES. KUMAR, M.Tech.- Structures
CMDA Structural Engineer-Grade-1,
Reg. No. SE/Gr-I/2024/02/007
97-B/1, Dr. Abdul Kalam Street,
Ramakrishna Nagar, Melamaiyur
Chengalpattu - 603 003
Cell : 98 40 44 86 13

LEGEND

= SUNKEN BY 250

NOTES:

FOR P.T BEAM & SLAB DETAIL, REFER UCON DWGS.

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ---------- 24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ---------- 3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ---------- 7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ---------- 7 DAYS.
ii) SPANNING OVER 4.50M ---------- 14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ---------- 14 DAYS.
ii) SPANNING OVER 6.00M ---------- 21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

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

ii). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

iii). DEVELOPMENT LENGTH (Ld) SHALL BE AS PER SP: 34 - 1999 AND THE MINIMUM Ld=50d, WHERE d= Dia. of Rod TO BE LAPPED

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

v). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

vi). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

vii). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. ANY DISCREPENCIES NOTICED IN THE DWG. SHALL BE BROUGHT TO OUR KNOWLEDGE IMMEDIATELY.
4. THIS DWG. SHOULD TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWG. (LATEST REVISION).
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456 : 2000
   GRADE OF CONCRETE FOR COLUMN , BEAM AND SLAB - M25
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE Fe 500 CONFIRMING TO IS 1786 : 2008
7. CLEAR COVER TO THE REINFORCEMENT
   A. COLUMNS ——— 40mm
   B. ROOF BEAM ——— 30mm
   C. ROOF SLAB ——— 20 mm
8. DEPTH OF BEAM IS INCLUSIVE OF SLAB THICKNESS

REV.	DESCRIPTION	DRN.	CHK.	DATE
00	ISSUED FOR APPROVAL	MD	ESK	15-06-:

PROJECT NAME :
PROPOSED CONSTRUCTION OF STILT FLOOR(MECHANIZED PIT PUZZLE PARKING) + 3 FLOORS COMMERCIAL (RETAIL) BUILDING (14.00M HEIGHT) AT PLOT NO 4951,
OLD DOOR NO: AC-64/1, NEW DOOR NO: 254/1, AC BLOCK 4TH AVENUE & 5TH AVENUE, ANNA NAGAR, CHENNAI - 600 040
COMPRISED IN OLD S.NO: 69 Pt & 73 Pt & 74Pt, T.S.NO: 158 OF BLOCK NO: 1B OF NADUVAKKARAI VILLAGE WITHIN THE OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:
STILT FLOOR ROOF SLAB LAYOUT

JOB NO.	DWG. NO.	REV. NO. 00	REF. CO
KA-	S-07	Date 15-06-24	

STRUCTURAL CONSULTANTS:
ES.KUMAR.,M.Tech. (structures),
KIRTE ASSOCIATES, CIVIL & STRUCTURAL ENGINEERING CONSULTANTS,
PLOT NO:1233, FIRST FLOOR,
FLAT NO:1B,PRIYA AJAY ARCADE,
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ARCHITECTS:
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NO.7(OLD NO.Y 81) FIRST FLOOR,
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CHENNAI - 600 040.TELE : 4261 2003

Drawn: M.D	Designed: ES	Checked : ES.KUMAR
Scale -	Date 15.06.2024	

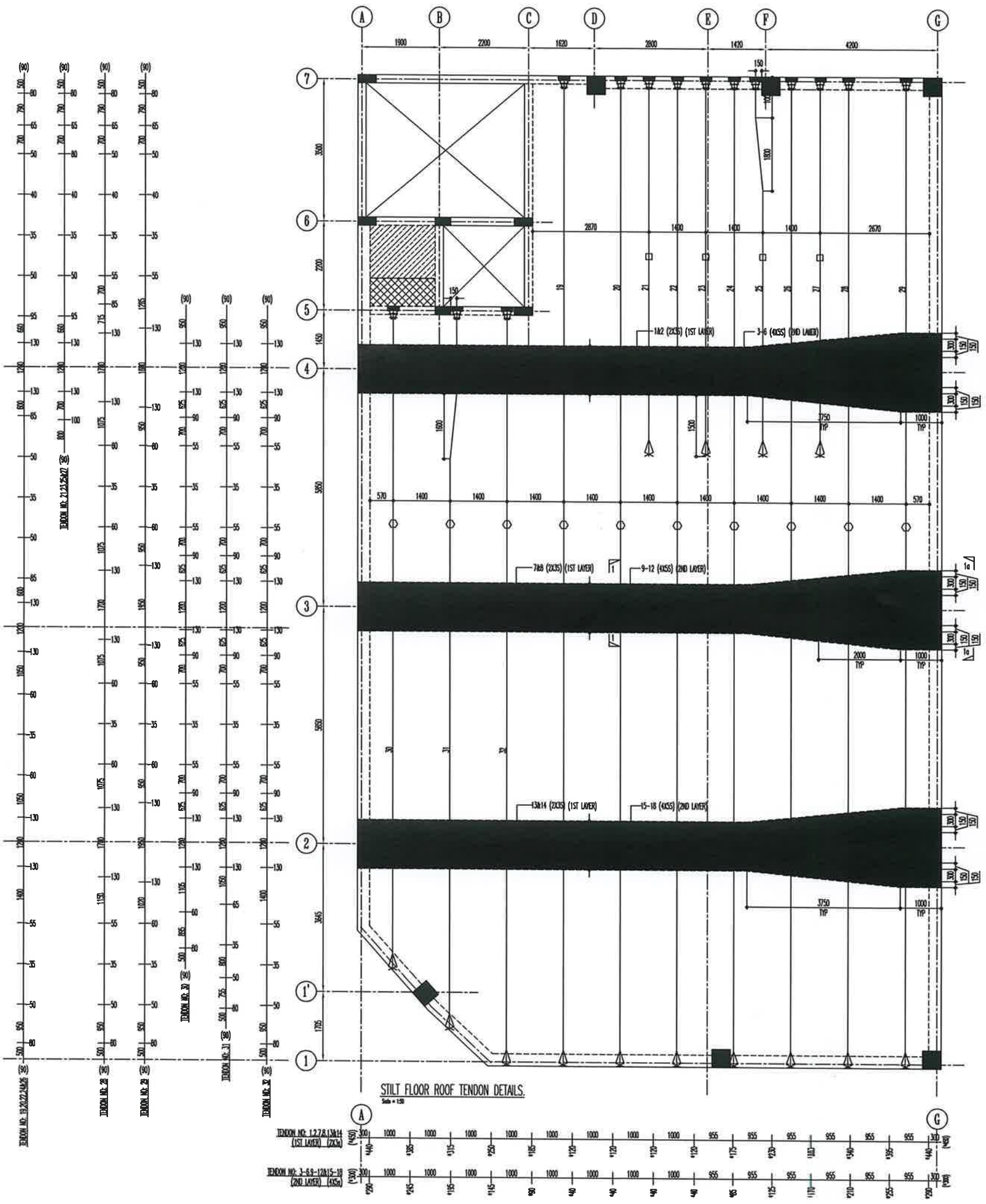
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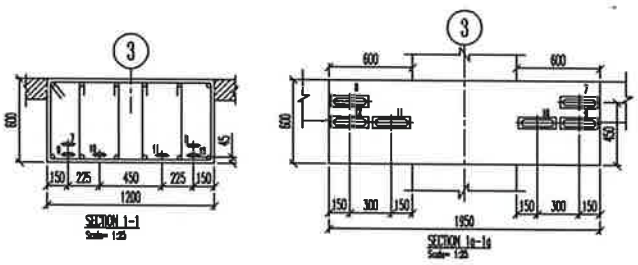
- TWO STRAND SLAB TENDON.
- THREE STRAND SLAB TENDON.
- FIVE STRAND SLAB TENDON.
- STRESSING END.
- DEAD END.

NOTES:

UNLESS OTHERWISE SHOWN.

1) USE 0.5" OR 12.7mm STRAND.
2) ALL SPLAY SHOULD BE 1 IN 8/10.
3) ALL TENDON PROFILE SPACING NOT SHOWN TO BE 1000.
4) ALL TENDON PROFILE ARE MEASURED FROM SOFFIT OF SLAB/BEAM TO SOFFIT OF DUCTS.
5) ( ) DENOTES TENDON PROFILE MEASURED FROM SOFFIT OF SLAB/BEAM TO C.G. OF DUCTS.
6) DEAD END & LIVE END CAN BE INTERCHANGED AS PER SITE CONDITION FOR STRESSING FEASIBILITY.





ES. KUMAR, M.Tech.- Structures
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Reg. No SE/Gr-I/2024/02/007
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Ramakrishna Nagar, Melamaiyur
Chengalpattu - 603 003
Cell: 9840448613

C	REVISED AS PER LATEST STRUCTURAL DWG.	JAYSON	RAJIV	SIVA
		01-07-25	SEELAN	SIVA
B	PROFILES ADDED	KAMESH	RAJIV	SIVA
		14-05-24	SEELAN	SIVA
A	ISSUE FOR APPROVAL	KAMESH	RAJIV	SIVA
		06-05-24	SEELAN	SIVA
Rev.	DESCRIPTION	DRAWN	DESIGNED	CHECKED
		DATE	APPROVED	REVIEWED

CLIENT: MR. ASIF ALI

ARCHITECT: M/S. RJ ARCHITECTS

CONSULTING: M/S. KIRTE ASSOCIATES

PT SPECIALIST: UCON STRUCTURAL SYSTEMS PRIVATE LIMITED
No.45, 5th Street,Padmanaba Nagar, Adyar, Chennai-600 020, INDIA
Tel:+91 (44) 24468001/2/3 Fax:+91 (44) 2446 8004
E-Mail:
Website: www.ucongt.com/www.ucon.co.in

PROJECT TITLE: PROPOSED COMMERCIAL BUILDING AT AC-64 SHANTHI COLONY ANNA NAGAR FOR MR.ASIF ALI.

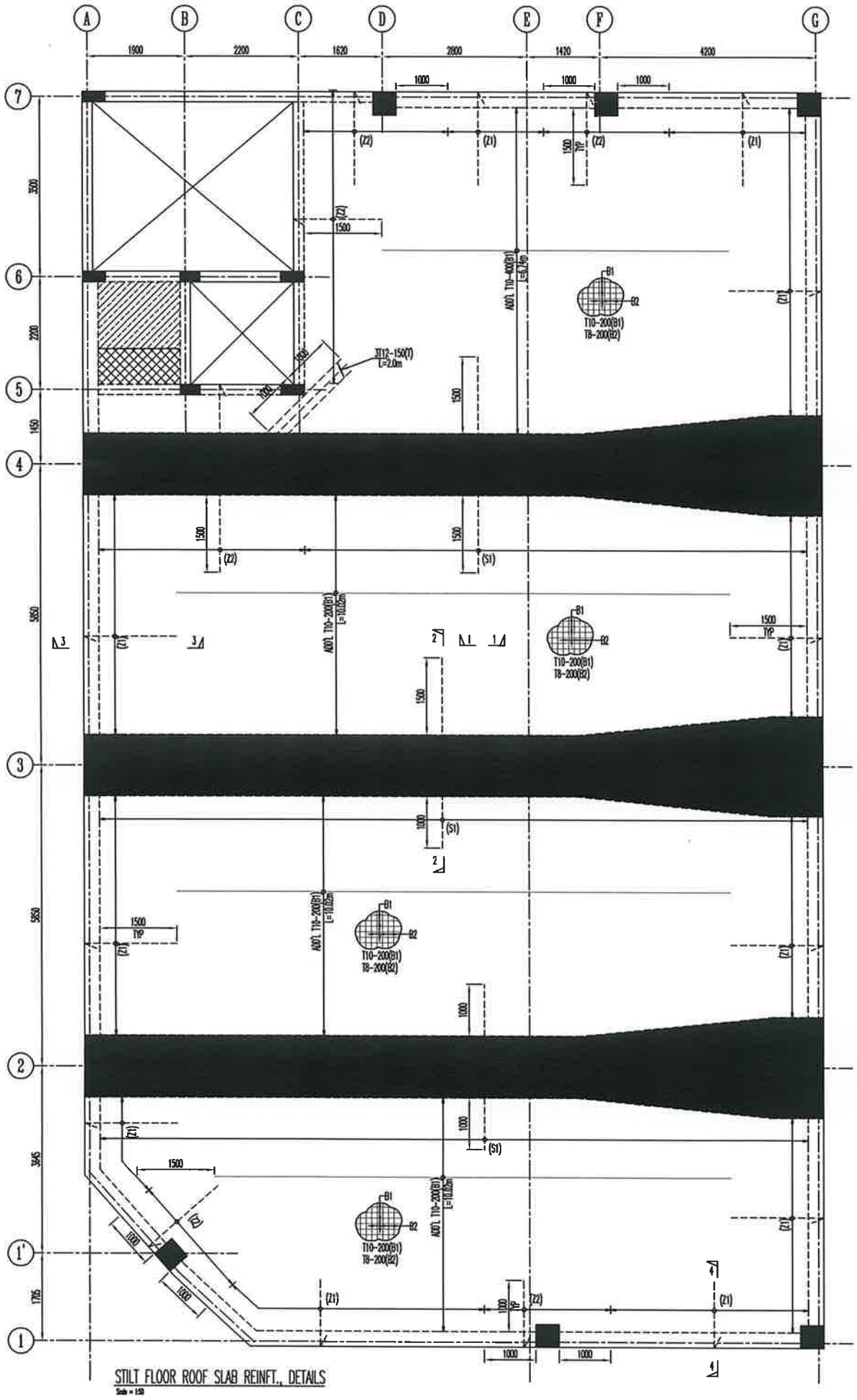
DRAWING TITLE: POST-TENSIONED
STILT FLOOR ROOF TENDON DETAILS.

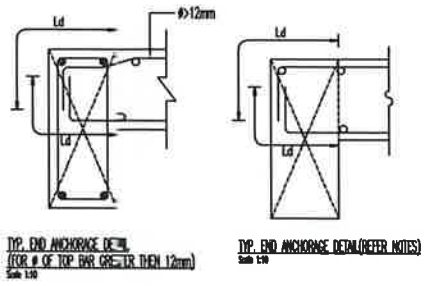
DRAWN: KAMESH	DESIGNED: RAJIV	CHECKED: SIVA	REVIEWED: SIVA
SCALE: 1:50	DATE: 06-05-2024	E-MAIL:	APPROVED: SEELAN

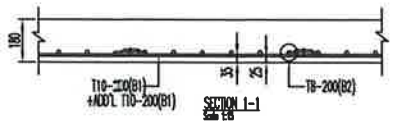
DRAWING NO: UCON/240194/SD/1-P1 REVISION: C

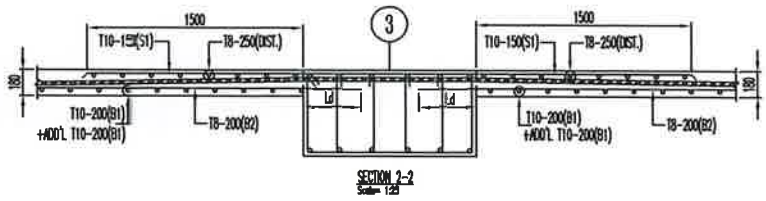
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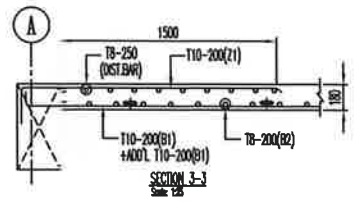
ORIGINAL SIZE OF THIS DRAWING IS A1











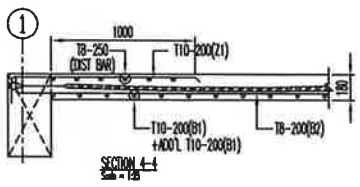


TABLE-1 (TOP REINFT. DETAILS)

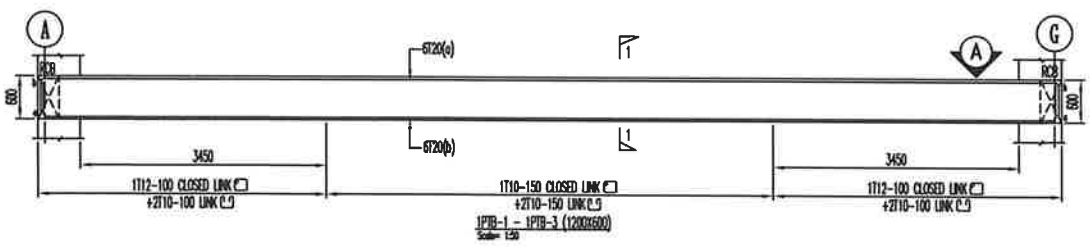
SL.NO.	TYPE	MAIN BAR	DISTRIBUTION BAR
1	Z1	T10-200	T8-250
2	Z2	T12-200	T12-200
3	S1	T10-150	T8-250

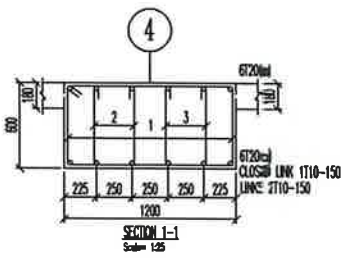
NOTES:
UNLESS OTHERWISE SHOWN,
1) ALL DIMENSIONS ARE IN MM
2) ALL SLAB BOTTOM BARS SHOWN TO BE FOR
   i) 180mm SLAB THICK T10-200(B1) & T8-200(B2)
3) CONCRETE CLEAR COVER FOR SLABS:
   TOP: 25mm TO THE NEAREST REINFT.
   BTM: 25mm TO THE NEAREST REINFT.
4) GRADE OF STEEL = Fe500
5) ALL LAPPING LENGTH SHOULD BE MINIMUM 600mm (OR) 50ϕ OF BAR FOR M35 GRADE OF CONCRETE & Fe500 GRADE OF STEEL AND LAPS SHOULD BE KEPT STAGGERED.
6) ALL SLAB TOP MAIN BARS SHOULD BE EXTENDED 1000mm INTO RC AREA WHEREVER APPLICABLE.
7) DEVELOPMENT LENGTH SHOULD BE MINIMUM 600mm (OR) 50ϕ OF BAR FOR M35 GRADE OF CONCRETE & Fe500 GRADE OF STEEL WHICHEVER IS GREATER.
8) TOP BAR SHOULD BE LAPPED AT MID SPAN & BOTTOM BARS SHALL BE LAPPED AT ONE FOURTH OF SPAN DISTANCE FROM SUPPORT.
9) ALL HOOKS, BENDS & LAPS SHALL CONFIRM TO IS2502:1963 & IS13920:2016

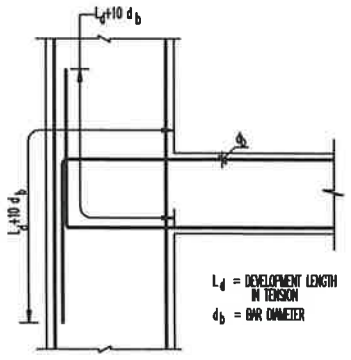
LEGENDS:
B1 - REPRESENT FIRST LAYER OF REINFT. FROM BOTTOM
B2 - REPRESENT SECOND LAYER OF REINFT. FROM BOTTOM
------ DENOTES TOP BAR
——— DENOTES BOTTOM BAR
T8-200
T - GRADE OF STEEL Fe500
8 - DIAMETER OF BAR
200 - C/C DIST. BETWEEN BARS

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Cell: 9840448613

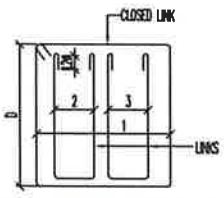
STILT FLOOR ROOF PT BEAM REINFT., DETAILS
Scale = 1:50



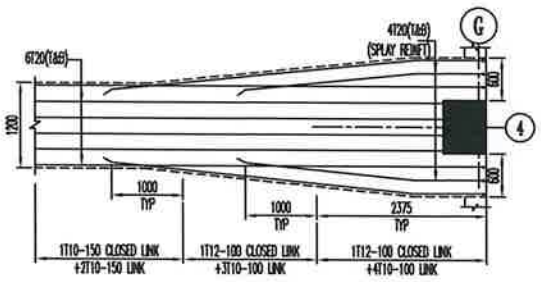




TYPICAL DETAILS FOR ANCHORAGE OF BEAM BARS
Scale 1:25



TYP. SHEAR LINK DETAIL FOR 1PTB-1 - 1PTB-3
Scale= 1:25



SPLAY DETAIL-A
Scale 1:50

PT BEAM NOTES:
UNLESS OTHERWISE SHOWN
1) SHEAR LINKS DIMENSIONS TO MAINTAIN AS SHOWN IN THE SECTION TO AVOID CLASHING WITH TENDONS.
2) MAINTAIN A GAP OF 25mm BETWEEN VERTICAL LAYERS OF REINFORCEMENT.
3) COLUMN TO FIRST SHEAR LINK DISTANCE SHALL BE MAINTAINED MAX. 50mm.
4) TOP BARS SHOULD BE LAPPED AT MIDSPAN & BOTTOM BARS SHALL BE LAPPED AT ONE FOURTH OF SPAN DISTANCE FROM SUPPORT.
5) DEVELOPMENT LENGTH SHOULD BE 50 TIMES DIA OF BAR FOR M35 GRADE OF CONCRETE.
6) ALL HOOKS, BENDS & LAPS SHALL CONFIRM TO IS2502:1968 & IS13920:2016
7) ALL LAPPING LENGTH SHALL BE 50ϕ OF BAR FOR M35 GRADE OF CONCRETE AND LAPS SHOULD BE KEPT STAGGERED.
8) CONCRETE COVER FOR BEAMS:
   TOP: 40mm TO THE NEAREST LINKS
   BTM: 30mm TO THE NEAREST LINKS.

B	REVISED AS PER LATEST STRUCTURAL DWG.	JAISON	RAJIV	SIVA
		01-07-25	SEELAN	SIVA
A	ISSUE FOR APPROVAL	RAMESH	RAJIV	SIVA
		08-05-24	SEELAN	SIVA
Rev.	DESCRIPTION	DRAWN	DESIGNED	CHECKED
		DATE	APPROVED	REVISED

CLIENT: MR. ASIF ALI

ARCHITECT: M/S. RJ ARCHITECTS

CONSULTING: M/S. KIRTE ASSOCIATES

PT SPECIALIST: UCON STRUCTURAL SYSTEMS PRIVATE LIMITED
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Tel:+91 (44) 24468001/2/3 Fax:+91 (44) 2446 8004
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Website: www.ucongpt.com/www.ucon.co.in

PROJECT TITLE: PROPOSED COMMERCIAL BUILDING AT AC-64 SHANTHI COLONY ANNA NAGAR FOR MR.ASIF ALI.

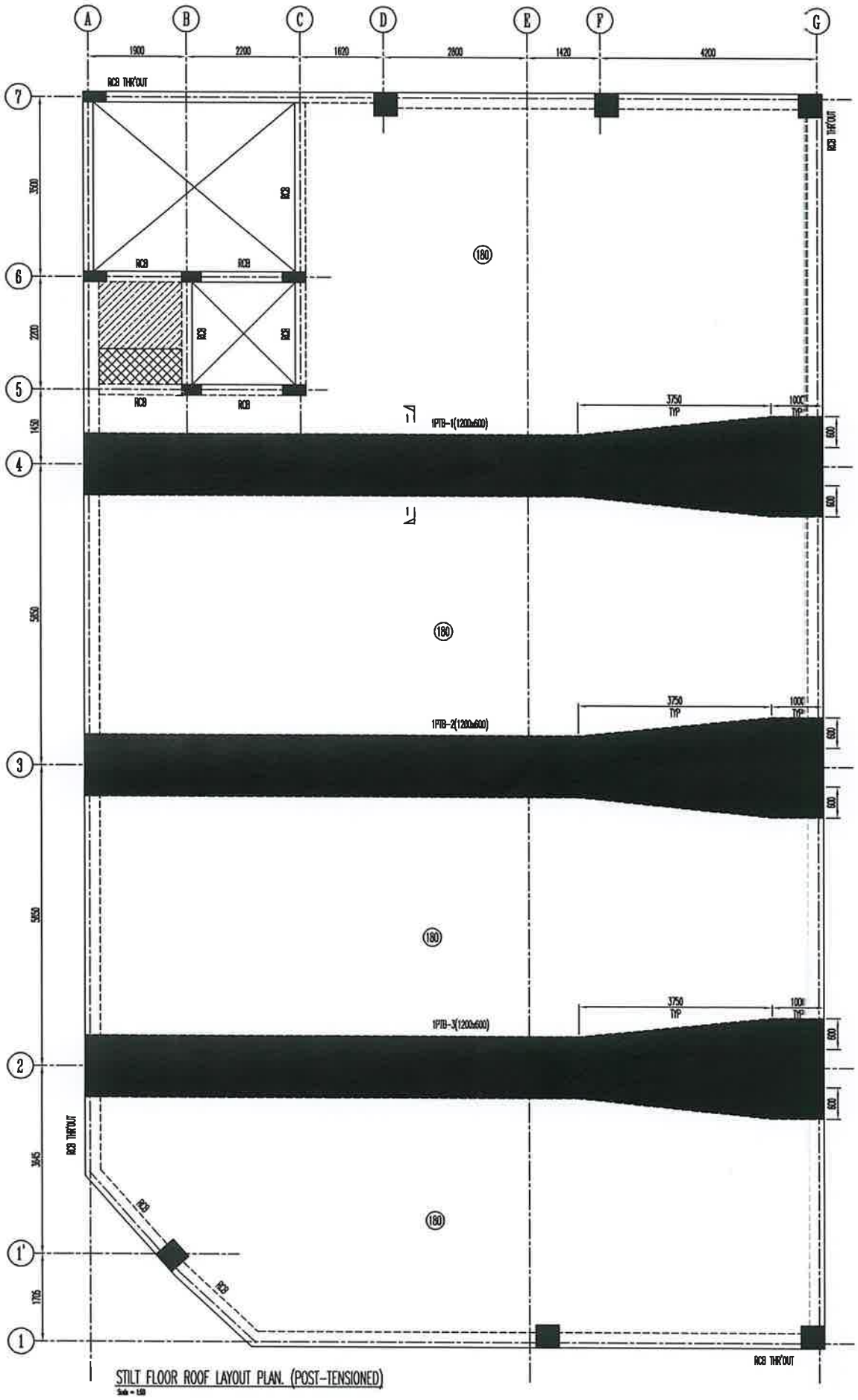
DRAWING TITLE: POST-TENSIONED
STILT FLOOR ROOF PT BEAM & PT SLAB REINFT., DETAILS

DRAWN:	DESIGNED:	CHECKED:	REVIEWED:
RAMESH	RAJIV	SIVA	SIVA
SCALE:	DATE:	E-MAIL:	APPROVED:
1:50	08-05-2024	unideslgn1@dracoindia.com	SEELAN

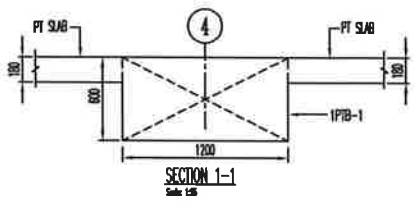
DRAWING NO: UCON/240194/SD/1-02 REVISION: B

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STILT FLOOR ROOF LAYOUT PLAN. (POST-TENSIONED)



SECTION 1-1

NOTES:
UNLESS OTHERWISE SHOWN,
1) ALL DIMENSIONS ARE IN MM
2) POST-TENSIONED SLAB TO BE 180 THK.
3) GRADE OF CONCRETE = M35, GRADE OF STEEL = Fe500
4) LOADINGS:
L.L. = 5.0 kN/m²
SDL. = 2.0 kN/m²
TOTAL= 7.0 kN/m²
5) SHADED AREAS, FRAMING NOT SHOWN AS PT BEAM & EDGE BEAMS TO BE DESIGNED AS R.C. BY STRUCTURAL CONSULTANT.
6) FOR COLUMN SIZES & LAYOUT REFER STRUCTURAL CONSULTANT DRAWING.
7) THIS DRAWING HAS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND RELATED STRUCTURAL DRAWING.
8) IT HAS TO BE ENSURED THAT AT ANY CASE THE TOTAL CONSTRUCTION LOADS DOES NOT EXCEED THE SPECIFIED DESIGN LOADS.
9) SUFFICIENT SUPPORTS (IF REQUIRED) HAS TO BE MAINTAINED BELOW THIS FLOOR WHILE CONCREEING UPPER SLABS.
10) LEGENDS:-
1000MM STRESSING POCKET
(THIS AREA HAS TO BE CONCREETED AFTER STRESSING.)

1.SUMMARY OF PT BEAM SIZES:-

BEAM MARK.	BEAM SIZES.	
	W	D
1PTB-1 - 1PTB-3	1200	600

C1 - COLUMN SIZES REVISED 600x400

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Ramakrishna Nagar, Melamaiyur
Chengalpattu - 603 003
Cell: 9840248613

Rev.	DESCRIPTION	DRAWN	DESIGNED	CHECKED
		DATE	APPROVED	REVIEWED
B	REVISED AS PER LATEST STRUCTURAL DRG.	JAISON 01-07-25	RAJM SEELAN	SMA SMA
A	ISSUE FOR APPROVAL	NAMESH 08-05-24	RAJM SEELAN	SMA SMA

CLIENT: MR. ASIF ALI

ARCHITECT: M/S. RJ ARCHITECTS

CONSULTANT: M/S. KIRTE ASSOCIATES

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E-Mail:
Website: www.uconpt.com/www.ucon.co.in

PROJECT TITLE: PROPOSED COMMERCIAL BUILDING AT AC-64 SHANTHI COLONY ANNA NAGAR FOR MR.ASIF ALI.

DRAWING TITLE: POST-TENSIONED STILT FLOOR ROOF LAYOUT PLAN

DRAWN:	DESIGNED:	CHECKED:	REVIEWED:
NAMESH	RAJM	SMA	SMA
SCALE:	DATE:	E-MAIL:	APPROVED:
1:50	08-05-2024		SEELAN

DRAWING NO: UCON/240194/SD/1-01 REVISION: B

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CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. E.S. KUMAR** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.Tech.,(Structural Engg.)** and experience in the relevant field for **27years**.

He has been given the Registration No.**SE/GR-I/2024/02/007** on **27.02.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **26.02.2029**.



CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
CHENNAI-600 008.

22/2/24

(A. MEGANATHAN)
Superintendent

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