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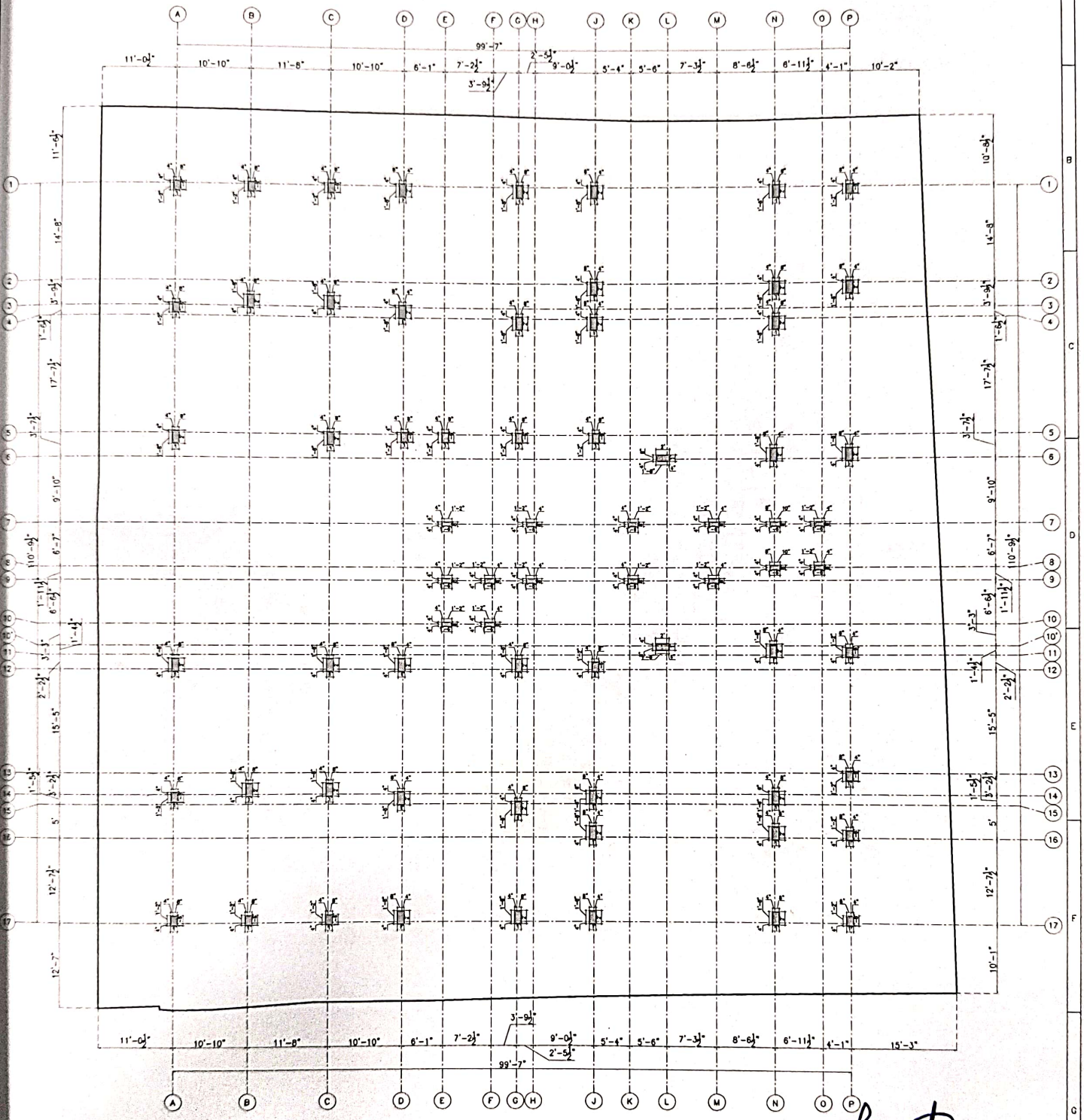
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R0	GOOD FOR CONSTRUCTION	05-01-2024	TBN



T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)

LAYOUT OF COLUMN SETTING OUT PLAN

JOB NO: KAAF0001		All dimensions are in Feets and Inches		Sheet: A1 (A3 SHEET)	
Designed by	Sign	Checked by	Sign	Approved by	Sign
TBN		TBN		TBN	
			Date	Date	Revision
			05-01-2024	05-01-2024	R0

LEGENDS
- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

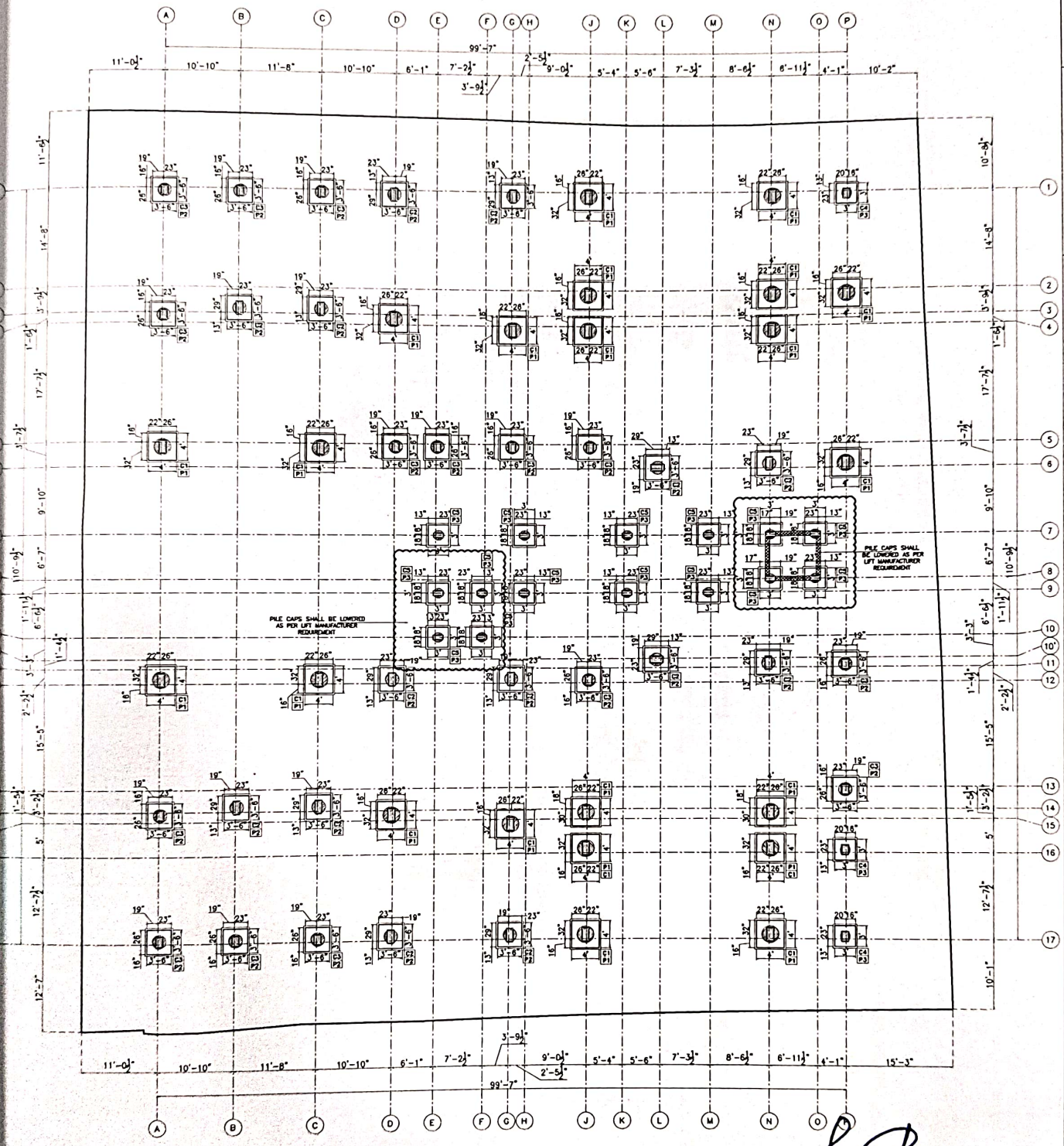
PROPOSED RESIDENTIAL AT Sokkil Nagar, Porur.

CLIENT: KAIZEN BUILDERS

LAYOUT OF COLUMN SETTING OUT PLAN

KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-600125.
Mob:9791776685 / Tel No:044-79670506

R0	GOOD FOR CONSTRUCTION	05-01-2024 TBN



LAYOUT OF PILES AND PILE CAPS

LEGENDS
- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

JOB NO: KAAF0001		All dimensions are in Feets and Inches			Sheet: A3 (A3 SHEET)
Designed by	Sign	Checked by	Sign	Approved by	Sign
TBN		TBN		TBN	
Date		03-01-2024		05-01-2024	Revision R0

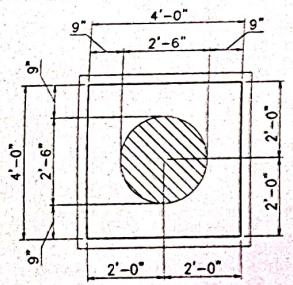
PROPOSED RESIDENTIAL AT Sokthi Nagar, Porur.

CLIENT: KAIZEN BUILDERS

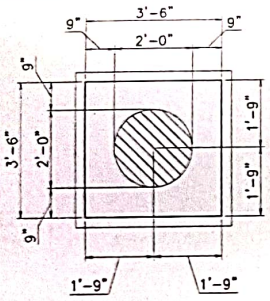
LAYOUT OF PILES AND PILE CAPS

T.BHARANIDHARAN M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)

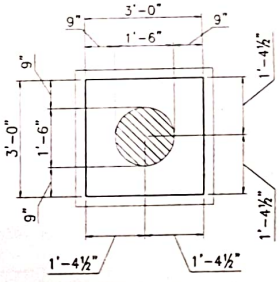
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram, Chennai-600125.
Mob:9791776685 / Tel No:044-79670561
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Chennai-125. PH:044-42866312, MOB:9791776685
Email:kuralassociates.engineers@gmail.com



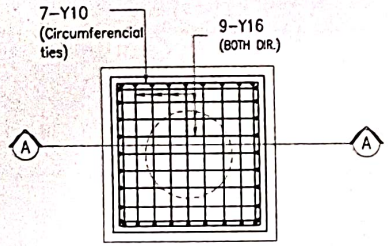
PLAN–DIMENSIONS–P1



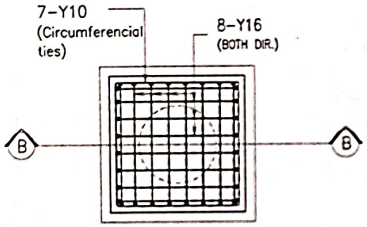
PLAN–DIMENSIONS–P2



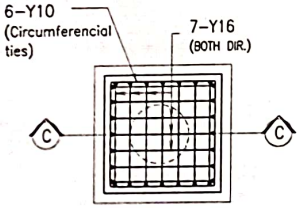
PLAN–DIMENSIONS–P3



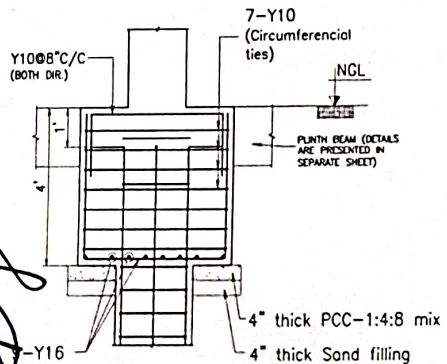
PLAN–REINFORCEMENTS–P1
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



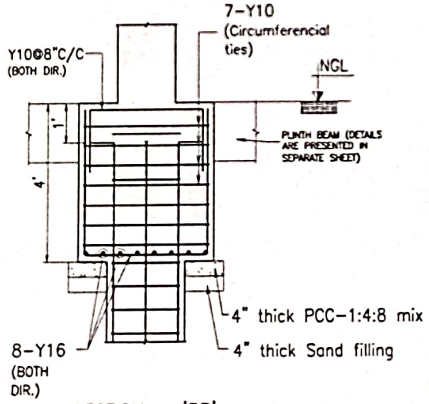
PLAN–REINFORCEMENTS–P2
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



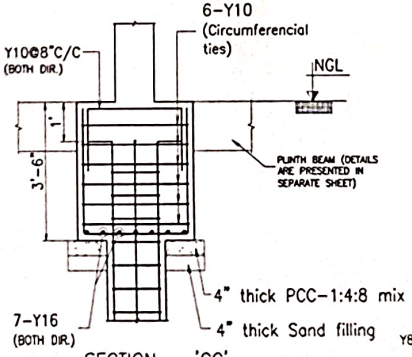
PLAN–REINFORCEMENTS–P3
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



SECTION – 'AA'
(COLUMN REINFORCEMENTS NOT SHOWN FOR CLARITY)

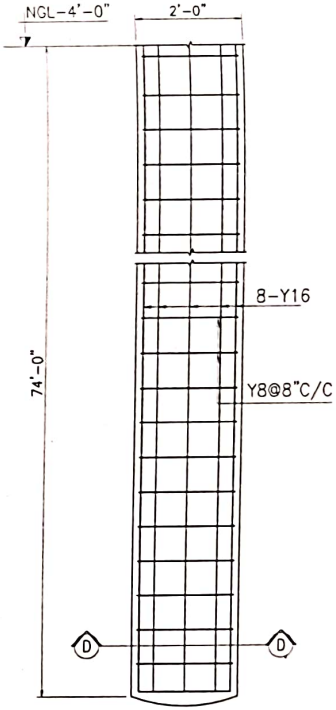


SECTION – 'BB'
(COLUMN REINFORCEMENTS NOT SHOWN FOR CLARITY)

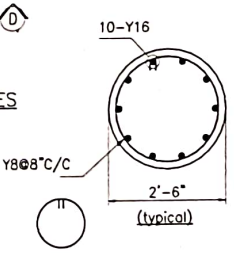


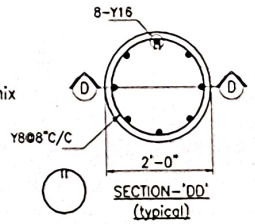
SECTION – 'CC'
(COLUMN REINFORCEMENTS NOT SHOWN FOR CLARITY)

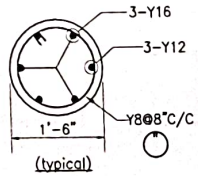
TYPICAL PILE CAP DETAILS
FOR P3–(19 NOS)



L.S OF BORED PILES
(PC 2'0" dia)
(typical)







TYPICAL PILE CAP DETAILS
FOR P1–(22 NOS)

TYPICAL PILE CAP DETAILS
FOR P2–(29 NOS)

PILE CAPS ARE DESIGNED ONLY FOR S+5 FLOORS.	MATERIAL STRENGTH
As shown in Architectural drawing	I. Grade of concrete - M30
	II. Grade of steel - fe 500

8	TBN	05/01/2024			
7					
6					
5	GOOD FOR CONSTRUCTION				
4	R1				
3					
2					
1					

Sheet 3 (A2 SHEET)

Revision	Sign	Date	Approved by	Sign	Checked by	Sign	Designed by
R1		05/01/2024	TBN		TBN		TBN

JOB NO. KAAF0001

All dimensions are in Feets and Inches

CLIENT: KAIZEN BUILDERS

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

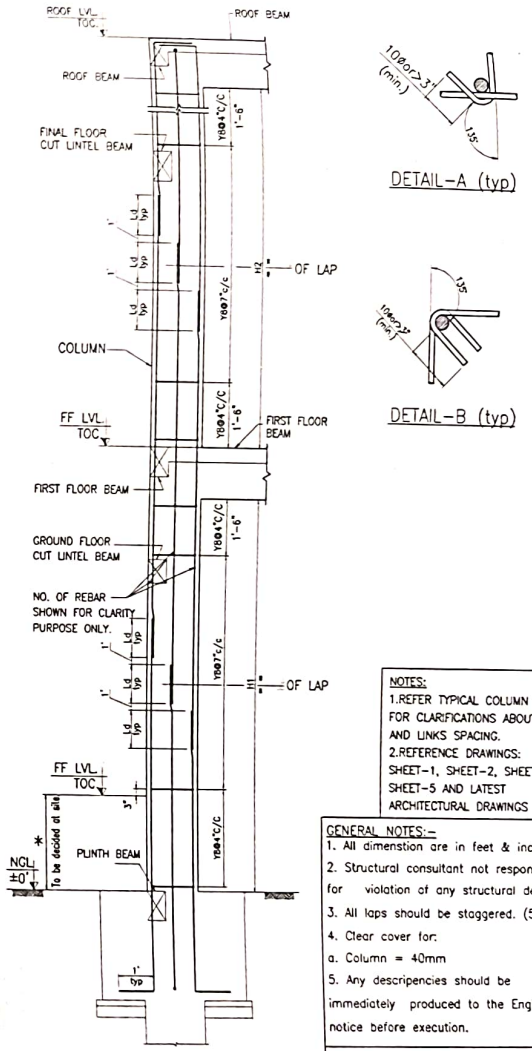
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF PILE CAPS

KURAL ASSOCIATES
CONSULTANTS

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Mob:9791776685 / Tel No:044-79670563

R1	GOOD FOR CONSTRUCTION		05/01/2024	TBN

COLUMN NO.	NOS.	FROM FOUNDING LEVEL TO GROUND FLOOR ROOF LEVEL	FROM GROUND FLOOR ROOF LEVEL TO SECOND FLOOR ROOF LEVEL	FROM SECOND FLOOR ROOF LEVEL TO FOURTH FLOOR ROOF LEVEL	FROM FOURTH FLOOR ROOF LEVEL TO TERRACE FLOOR LEVEL	REMARKS
C1	22	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y20 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y20 'b'-6-Y16 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/T"C/C"	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C2	14	2'-0" 'a'-4-Y16 'b'-6-Y16 'c'-2-Y16 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y16 'b'-6-Y12 'S1'-Y8@4"/T"C/C"	2'-0" 'a'-4-Y16 'b'-6-Y12 'S1'-Y8@4"/T"C/C"	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C3	15	1'-6" 'a'-4-Y20 'b'-4-Y16 'c'-2-Y16 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y16 'c'-2-Y16 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y16 'c'-2-Y12 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C4	3	1'-6" 'a'-4-Y16 'b'-4-Y16 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y16 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
	16	1'-6" 'a'-4-Y16 'b'-4-Y16 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/T"C/C"	COLUMNS SHALL BE TERMINATED TERRACE LEVEL



Typical column details.

NOTES:
1.REFER TYPICAL COLUMN DETAIL FOR CLARIFICATIONS ABOUT TIES AND LINKS SPACING.
2.REFERENCE DRAWINGS: SHEET-1, SHEET-2, SHEET-3, SHEET-5 AND LATEST ARCHITECTURAL DRAWINGS

GENERAL NOTES:-
1. All dimenstion are in feet & inches.
2. Structural consultant not responsible for violation of any structural details
3. All laps should be staggered. (50xdia.)
4. Clear cover for:
a. Column = 40mm
5. Any descripencies should be immediately produced to the Engineer's notice before execution.

MATERIAL STRENGTH
I. Grade of concrete - M30
II. Grade of steel - fe 500

FOOTINGS ARE DESIGNED ONLY FOR S+5 FLOORS.

As shown in Architectural drawing

JOB NO: KAAF0001	All dimensions are in Feets and Inches							Sheet. 4 (A2 SHEET)
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R1

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

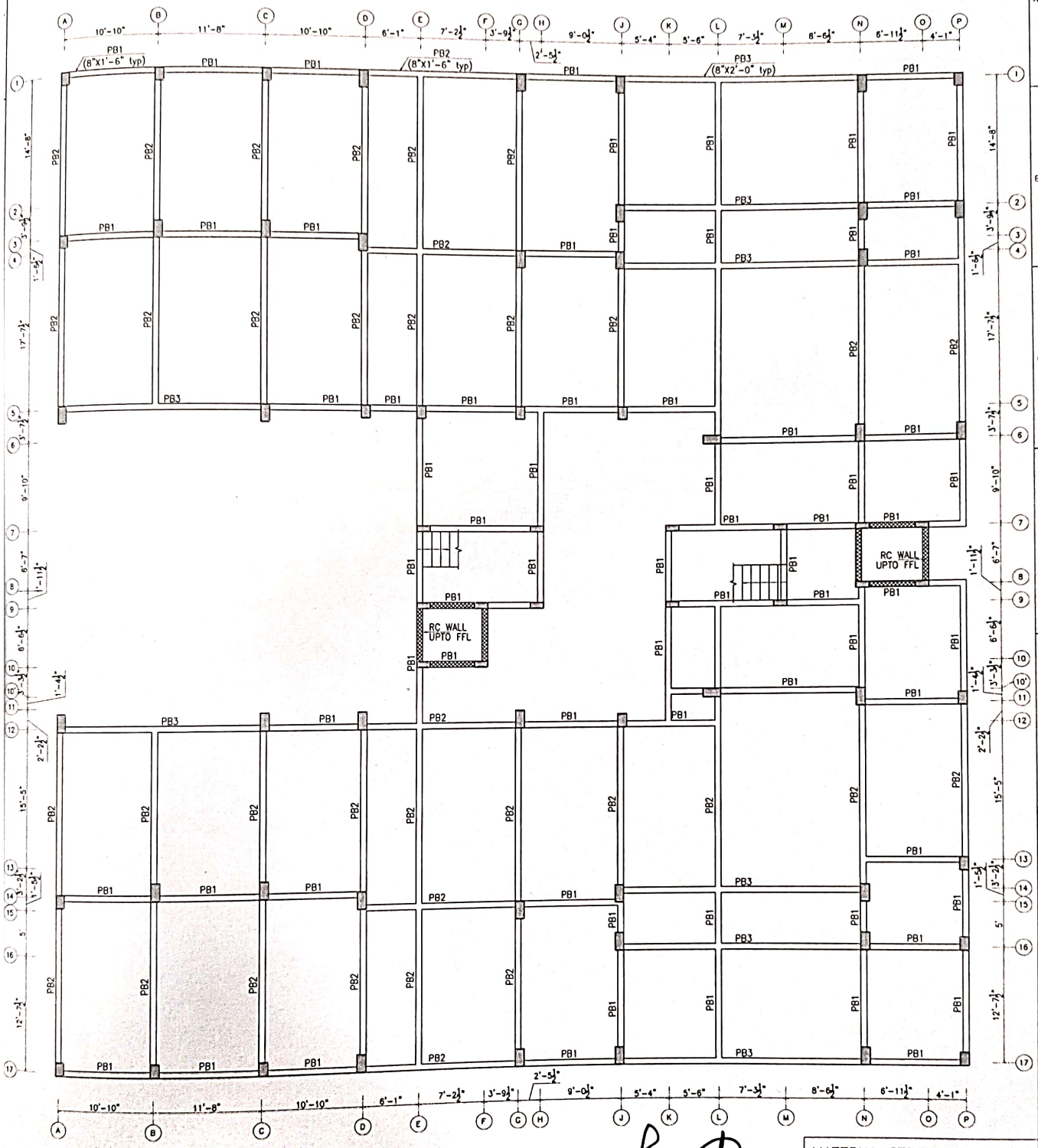
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF COLUMNS

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

T.R.HARANIDHARAN M.E., C.Eng.
Registered Civil & Structural Engineer CMDA
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Mob:9791776665 / Tel No:044-79670563

R1	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF PLINTH BEAMS AT NGL

MATERIAL STRENGTH

I. Grade of concrete - M30

II. Grade of steel - fe 500

T.BHARANIDHARAN M.E., I.O.Engg.
Registered Engineer/CMDA
REGD NO.(RE/GR-I/19591/5) & SE/GR-III/04/036)
KURAL ASSOCIATES
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Madhanandapuram, Perungudi, Chennai-600125.
Mob:9791756585 / Tel: KAIZEN BUILDERS 79670563

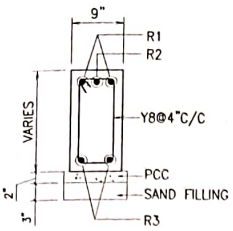
NOTE:
1. Clear cover = 30mm
2. All laps shall be 50ø
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. 3" thick sand and pcc layers shall be laid below all beams.

LEGEND

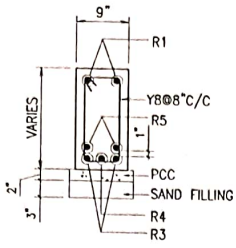
℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

JOB NO: KAMP0001	All dimensions are in feet and inches		Sheet: 5 (A1 SHEET)
Designed by: SMA	Checked by: TBN	Date: 05-01-2024	Sign / Revision: R1
PROPOSED RESIDENTIAL AT Sakthi Nagar, Kamakkarai Main Road, Kumbakonam			CLIENT'S SIGNATURE
LAYOUT OF PLINTH BEAMS	REINFORCEMENT DETAILS OF PLINTH BEAMS	KAIZEN BUILDERS	KURAL ASSOCIATES

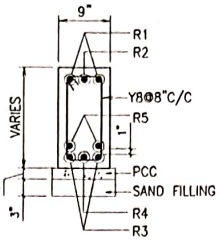
R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



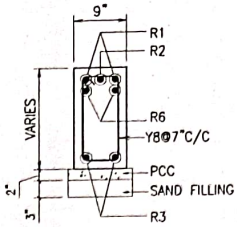
SECTION 1–1



SECTION 2–2

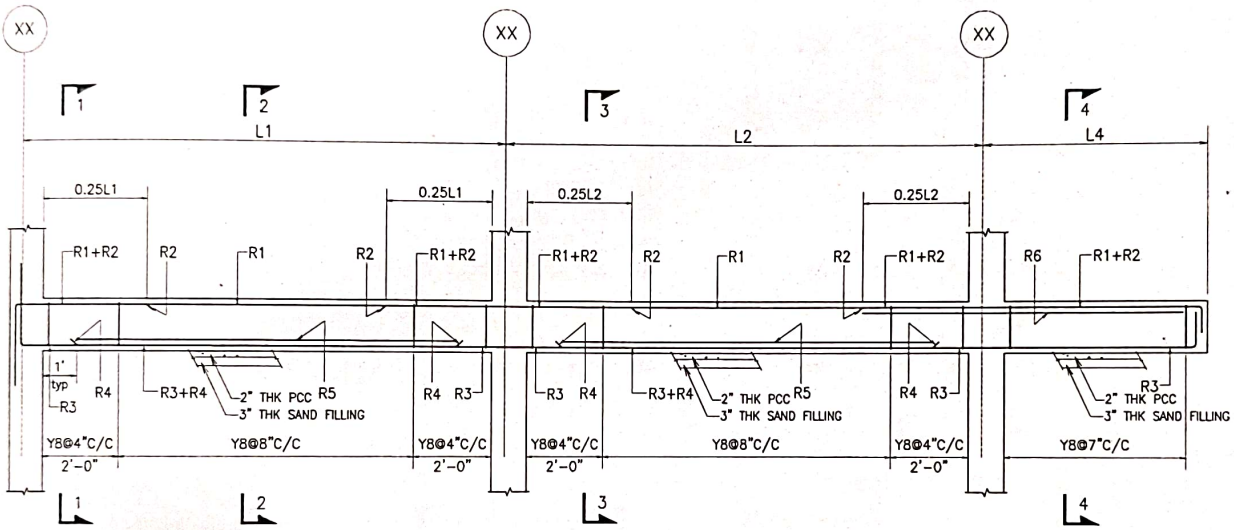


SECTION 3–3

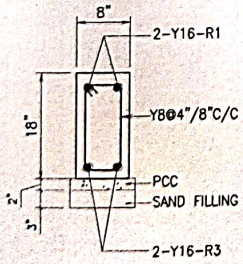


SECTION 4–4

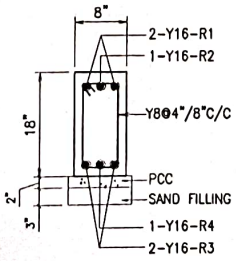
NOTE:
SECTION 1–1,2–2,3–3&4–4 ARE ONLY FOR EXPLANATORY PURPOSE.



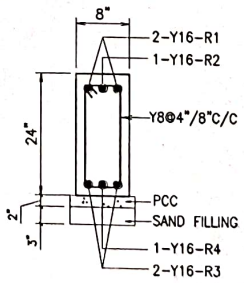
TYPICAL PLINTH BEAM DETAILS



C.S OF PB1
[8"X1'-6"]



C.S OF PB2
[8"X1'-6"]



C.S OF PB3
[8"X2'-0"]

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KURAL ASSOCIATES
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Madhanandapuram,Porur,Chennai-600125
Mob:9791776685 Tel No:044-79670563

LEGEND

℄	CENTRE LINE
NGL	NATURAL GROUND LEVEL
FFL	FINISHED FLOOR LEVEL
TYP.	TYPICAL
■	COLUMN
—	COLUMN CENTERLINE
—	SITE BOUNDARY

NOTE:
1. Clear cover = 30mm
2. All laps shall be 50ø
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. 3" thick sand and pcc layers shall be laid below all beams.

JOB NO: KAAF0001		All dimensions are in Feets and Inches		Sheet No (A2SHEET)	
Designed by	Sign	Drawn by	Approved	Date	Revision
TBN		TBN	TBN	05/01/2024	R0

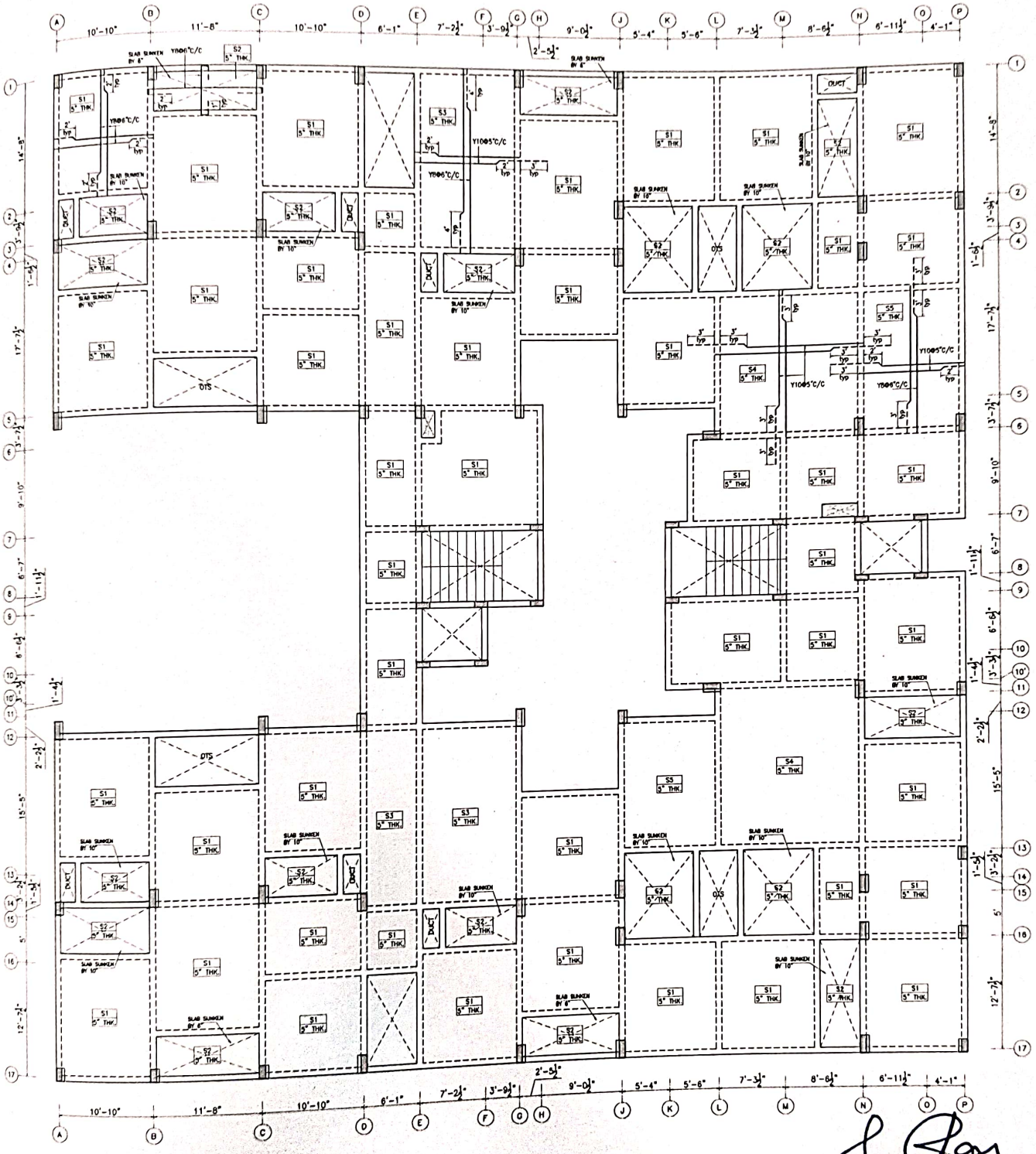
PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

CLIENT: M/S SRI SAKTHI BUILDERS

KURAL ASSOCIATES
NO.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF GROUND FLOOR ROOF SLAB

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and Inches		Size: A1 (A3 SHEET)	
Designed by	Sign	Checked by	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05-01-2024	TBN	05-01-2024		R0

PROPOSED RESIDENTIAL APARTMENT AT Porur.

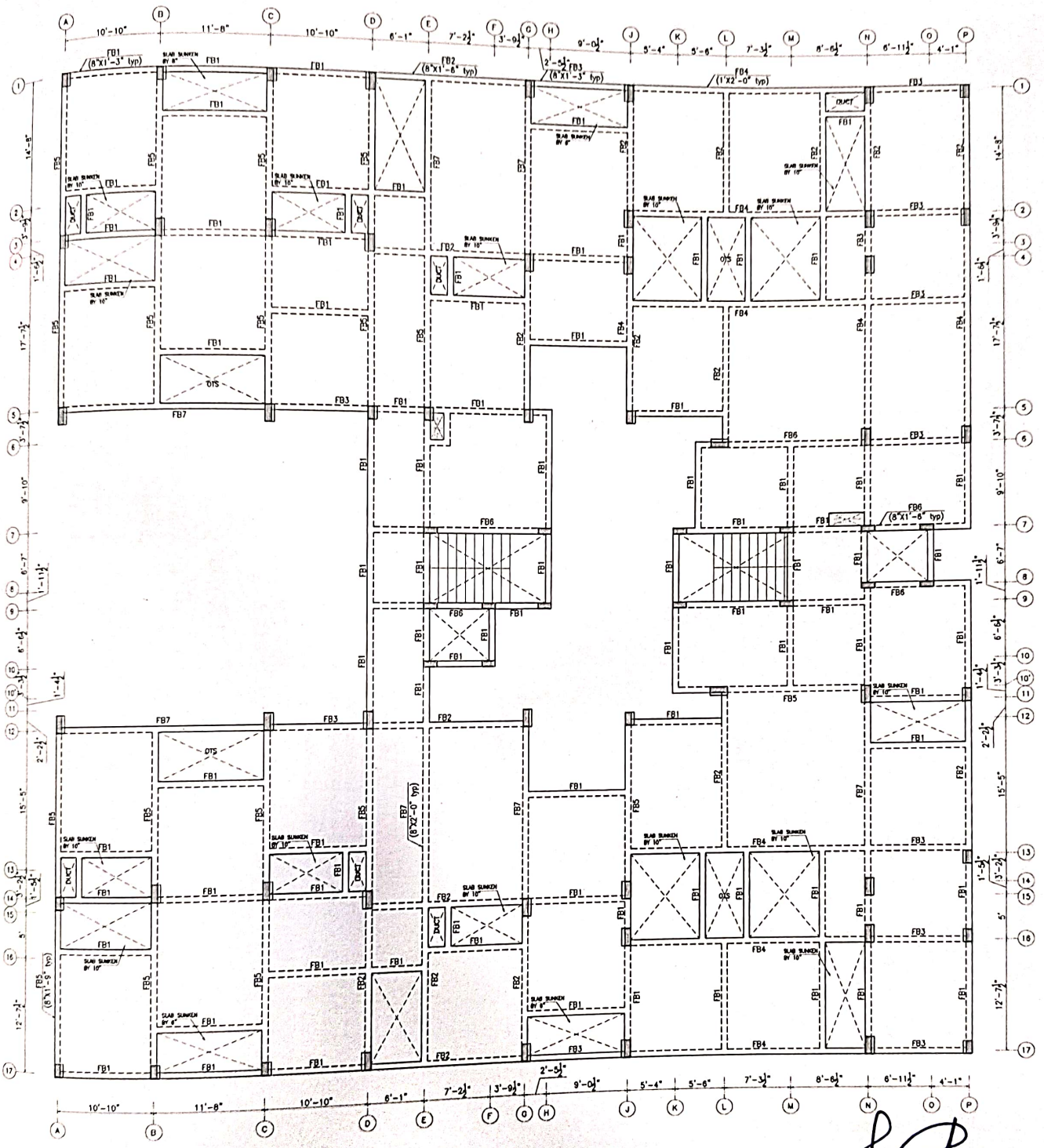
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF SLAB

Client: KAIZEN BUILDERS

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO (RE/GR-I/10/05/166) &(SE/GR-II/19/04/036)

KURAL ASSOCIATES
ASSOCIATES
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Mob:9791776685 / Tel No:044-79670668

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF GROUND FLOOR ROOF BEAM

NOTE:

1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet–26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
☒	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and Inches		Sheet no. (A3 SHEET)	
Designed by	Sign	Checked by	Date	Approved by	Date	Sign	Revision
TBN		TBN	05-01-2024	TBN	05-01-2024		R0

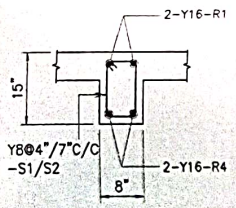
PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAM

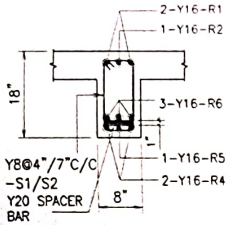
KAIZEN BUILDERS

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD.NO.(RE/GR-I/10/05/166) &(SE/GR-II/19/04/036)

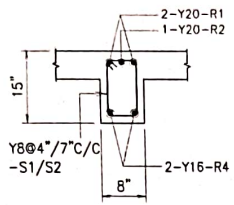
KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-600125. Ph:044-42866312, M:9791776685
Mob:9791776685 / Tel No:044-42866312
KURAL ASSOCIATES
Partnership for Excellence
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. Ph:044-42866312, M:9791776685
Email:kuralassociates.engineers@gmail.com



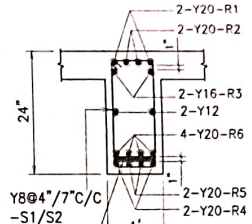
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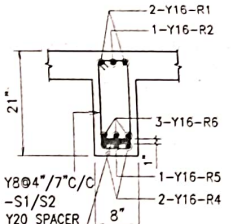
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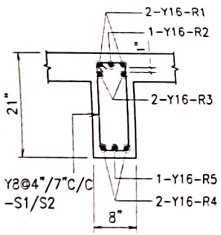
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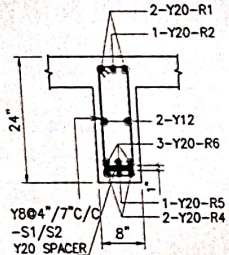
C.S OF FB4
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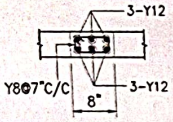
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[8"X1'-9"]



C.S OF FB6
[8"X1'-9"]



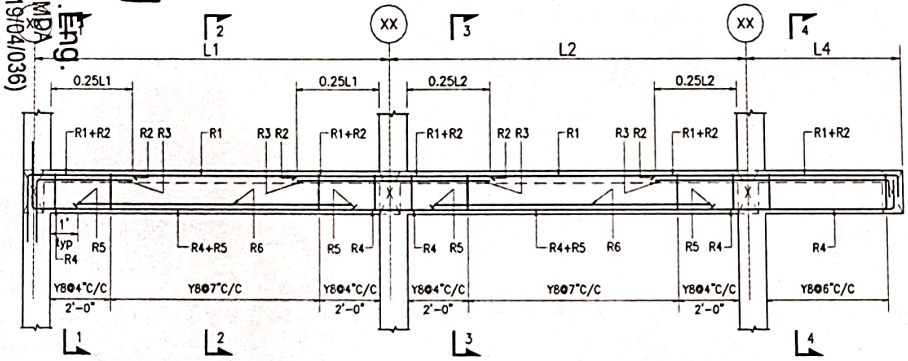
C.S OF FB7
[8"X2'-0"]



C.S OF CB
(CONCEALED BEAM)

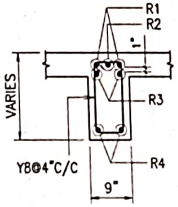
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

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Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

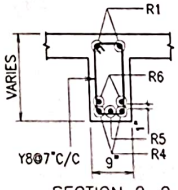


TYPICAL FLOOR BEAM DETAILS

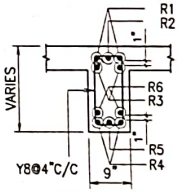
NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE.



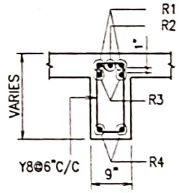
SECTION 1-1



SECTION 2-2



SECTION 3-3



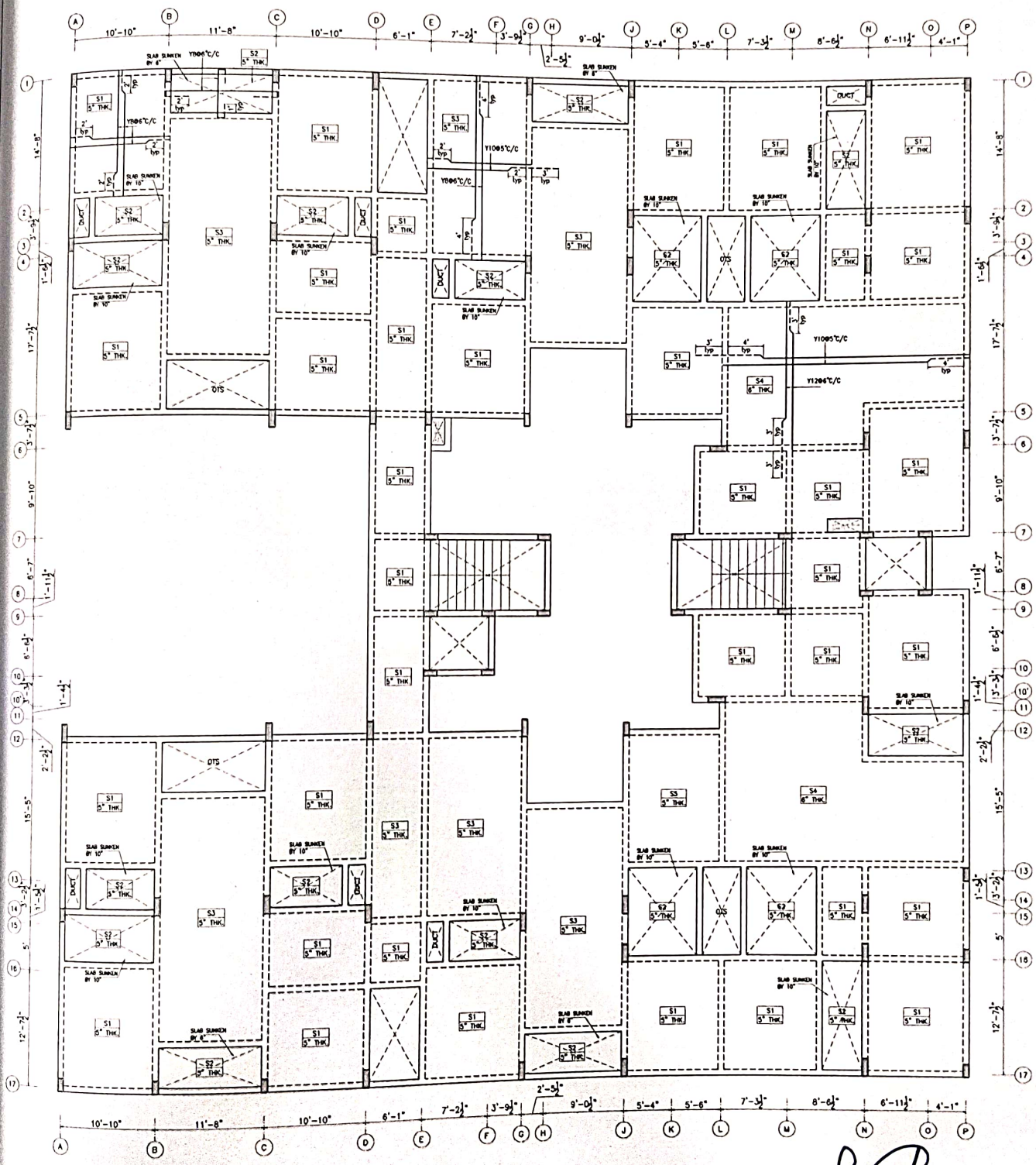
SECTION 4-4

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 9 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.	CLIENT: KAIZEN BUILDERS	CONSULTANT: KURAL ASSOCIATES
LAYOUT OF REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAMS		

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF FIRST FLOOR ROOF SLAB

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet–26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
☒	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001				All dimensions are in Feets and inches	
Designed by	Sign	Checked by	Date	Approved by	Date
TBN		TBN	05-01-2024	TBN	05-01-2024

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

CLIENT: KAIZEN BUILDERS

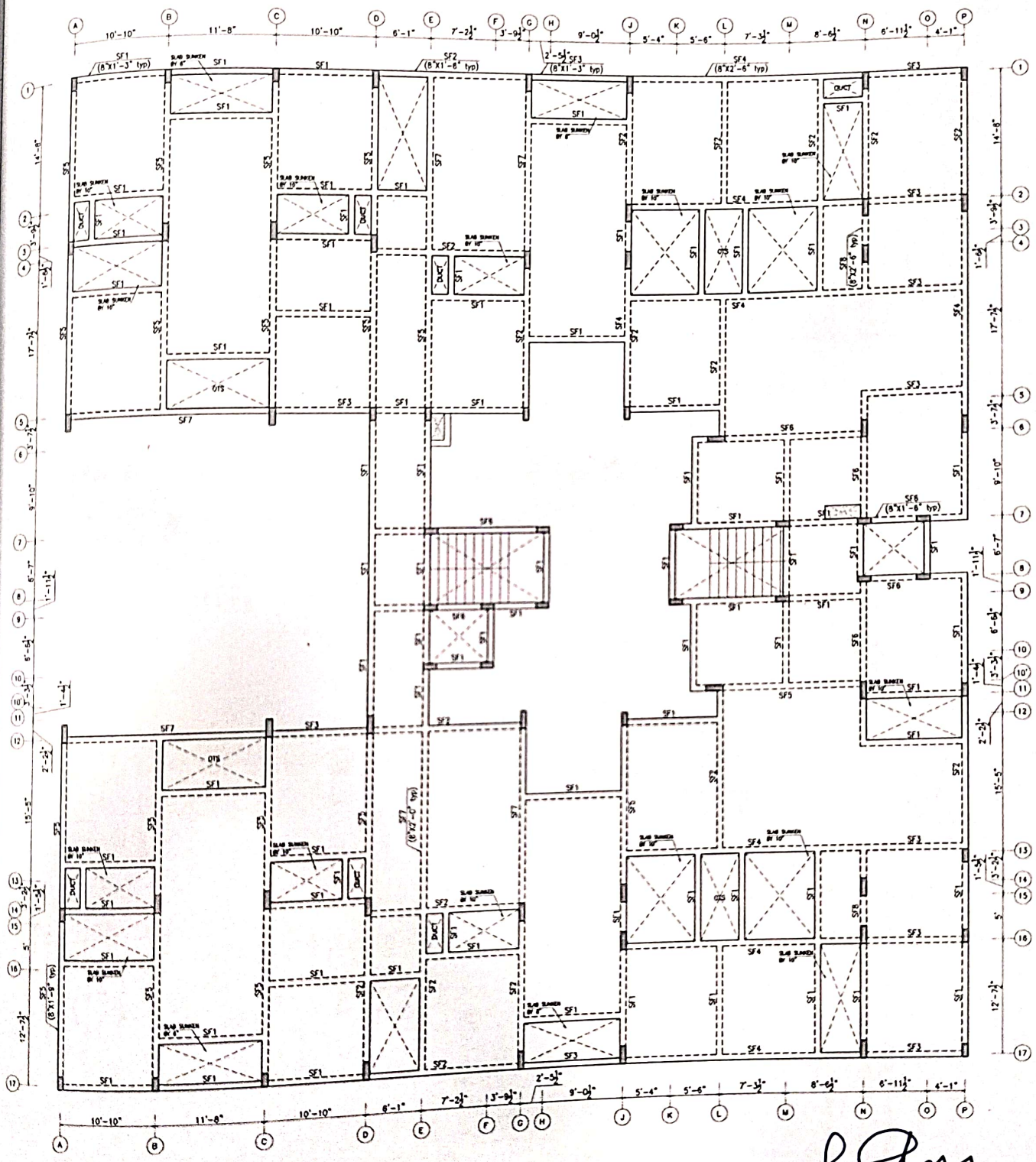
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF SLAB

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Drawn by	Checked by	Approved by	Revision
TBN	TBN	TBN	R0

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF FIRST FLOOR ROOF BEAM

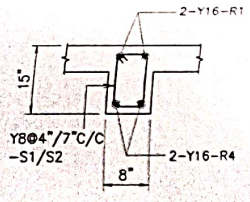
NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length = 50ϕ and all laps must be staggered

LEGEND

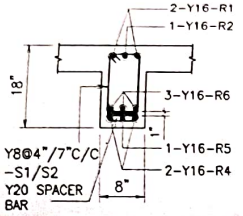
℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions in millimeters unless otherwise noted	Sheet No. (A3 SHEET)
Designed by	Sign	Checked	Sign
TBN		TBN	05-01-2024
PROPOSED RESIDENTIAL AT Sai Nagar, Porur.			
LAYOUT OF DIMENSIONS AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAM			

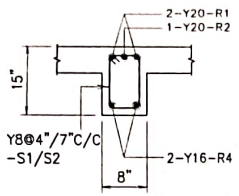
T.BHARANIDHARAN.M.E.,C.Eng.
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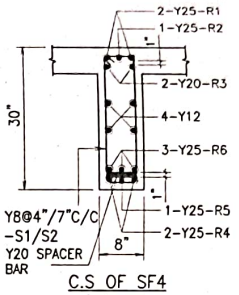
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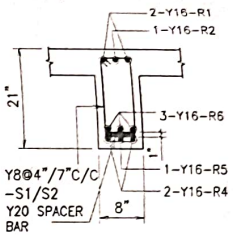
C.S OF SF2
[8"X1'-6"]



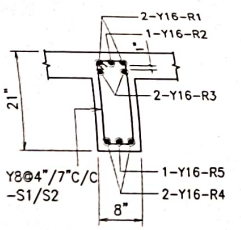
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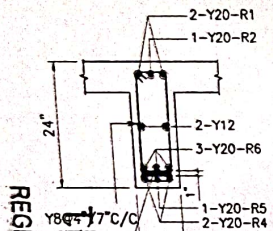
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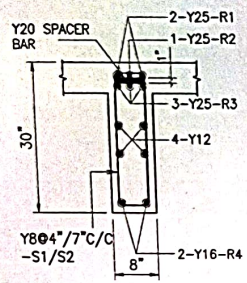
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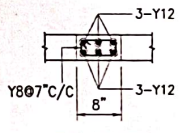
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[8"X1'-9"]



C.S OF SF7
[8"X2'-0"]



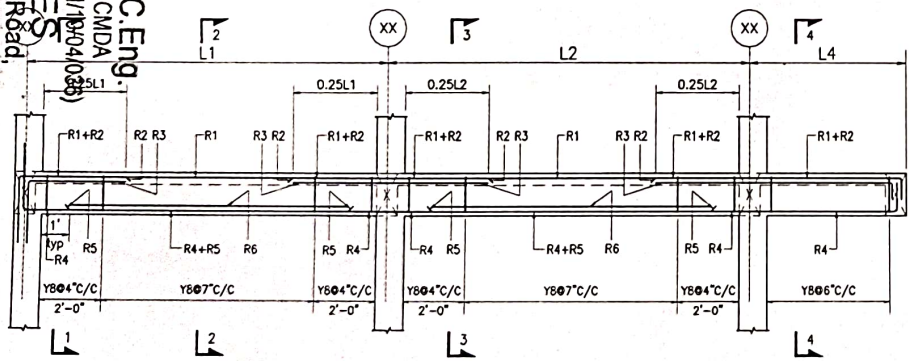
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C.S OF CB
(CONCEALED BEAM)

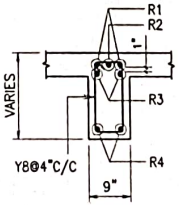
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

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Mob:9791770663 / Tel No:044-79670563

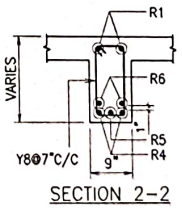


TYPICAL FLOOR BEAM DETAILS

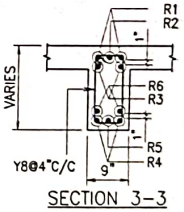
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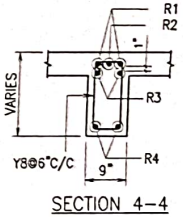
SECTION 1-1



SECTION 2-2



SECTION 3-3



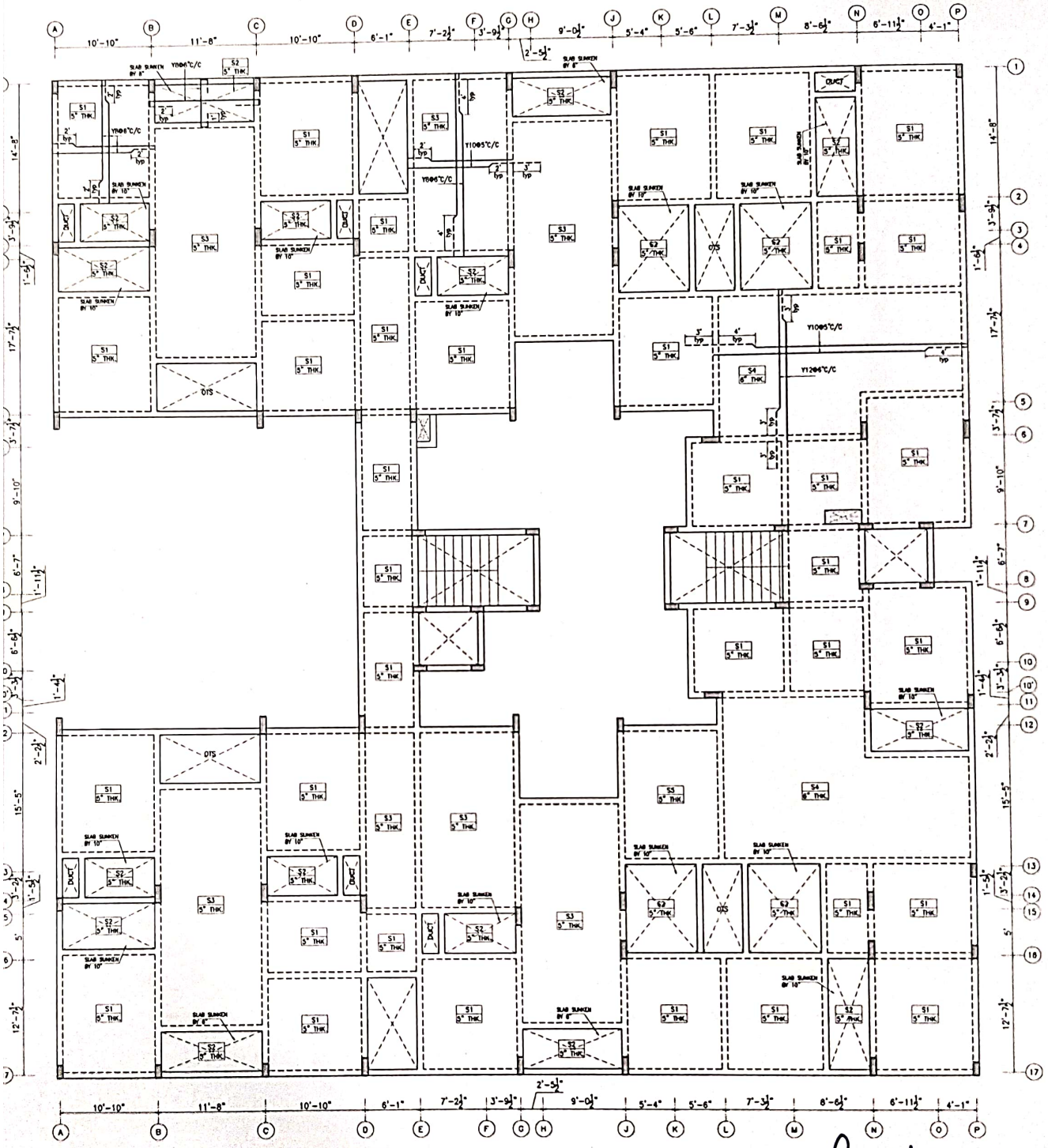
SECTION 4-4

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 12 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.	CLIENT: KAIZEN BUILDERS	CONSULTANT: KURAL ASSOCIATES
LAYOUT OF REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAMS		

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF SECOND FLOOR ROOF SLAB

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No.3/1517, Mugalivakkam Main Road,
Madhanandapuram Porur Chennai-600125.
Mob:9791776685, Tel No:044-79670563.

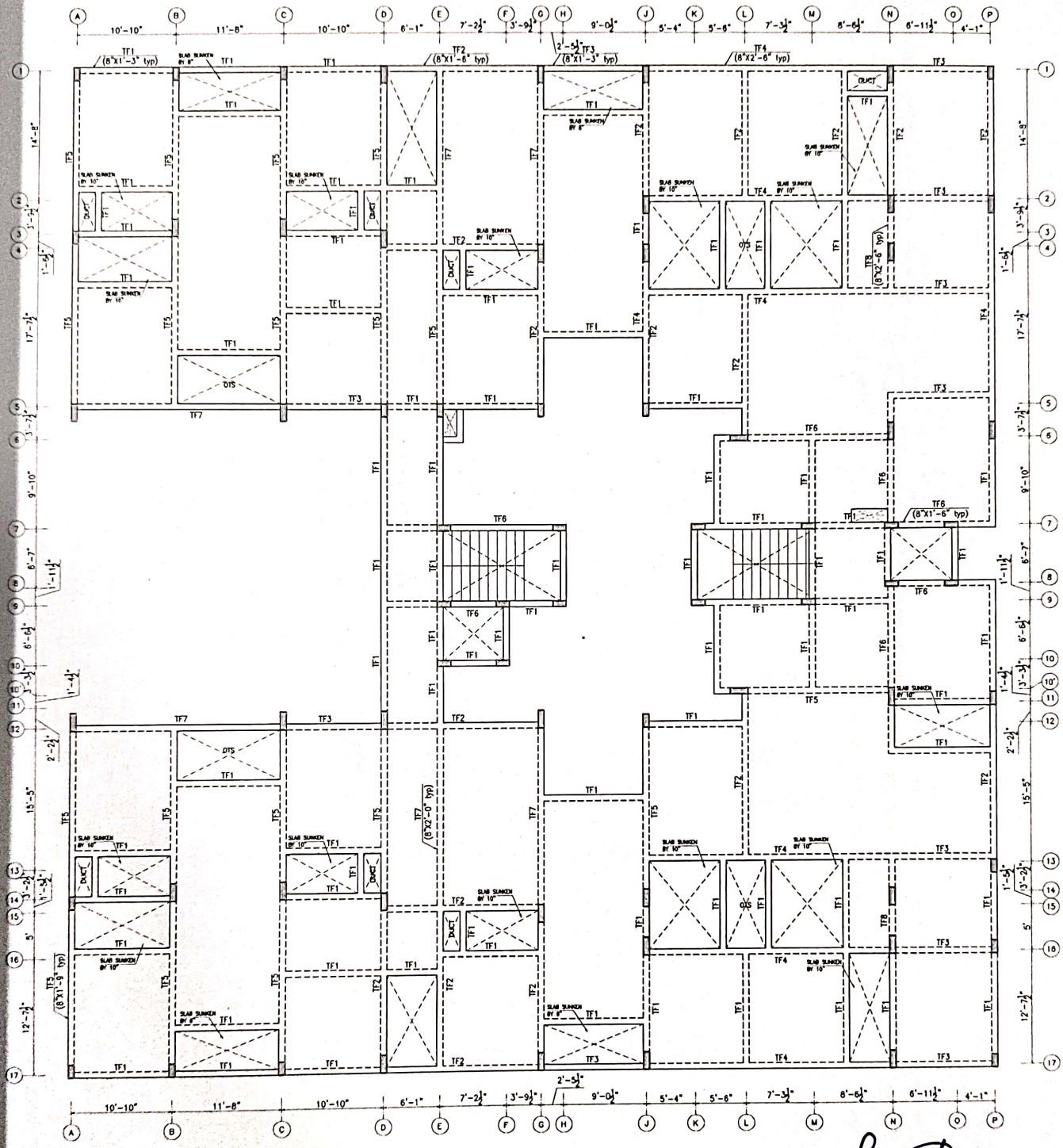
E:
ank length for slabs with typical reinforcements
all be made as per the miscellaneous details
esented in sheet-26.
Clear cover = 15mm.
— Denotes top reinforcement of slab
— Denotes bottom reinforcement of slab
Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
☒	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and Inches			Sheet: 13 (A3 SHEET)
Designed by	Sign	Drawn by	Sign	Date	Revision
TBN		TBN	TBN	05-01-2024	TBN 05-01-2024 R0
PROPOSED RESIDENTIAL Porur					
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF SLAB			KAIZEN BUILDERS		KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF SECOND FLOOR ROOF BEAM

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

LEGEND

ℓ	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and Inches			Sheet(A1 SHEET)
Designed by	Sign	Checked by	Sign	Approved by	Sign	Revision
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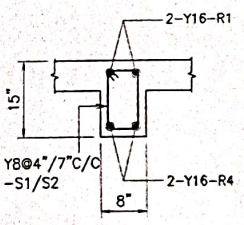
PROPOSED RESIDENTIAL AT Sunkan Nagar, Porur.

Client: KAIZEN BUILDERS

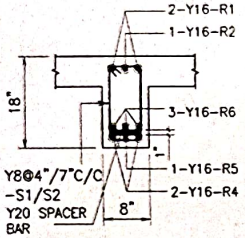
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAM

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR/119/0[illegible]/(SE/GR-III/9/04/036)

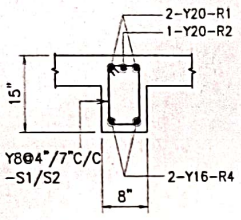
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:97917[illegible] / Tel No:044-79670563



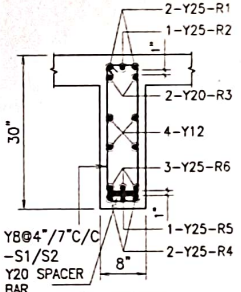
C.S OF TF1
[8"X1'-3"]



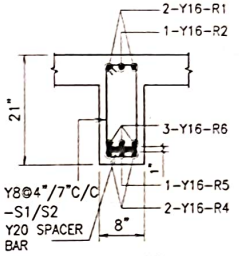
C.S OF TF2
[8"X1'-6"]



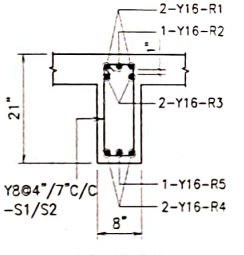
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[8"X1'-3"]



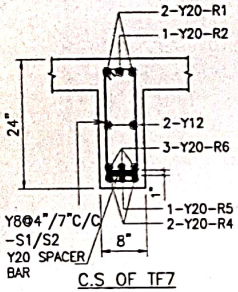
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[8"X2'-6"]



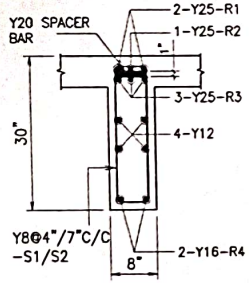
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[8"X1'-9"]



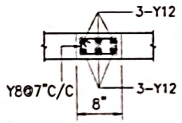
C.S OF TF6
[8"X1'-9"]



C.S OF TF7
[8"X2'-0"]

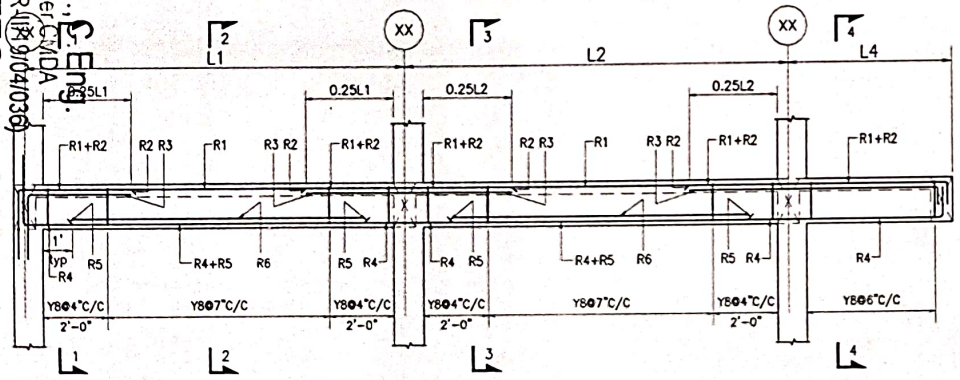


C.S OF TF8
[8"X2'-6"]

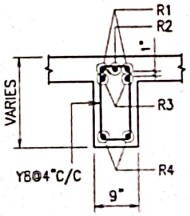


C.S OF CB
(CONCEALED BEAM)

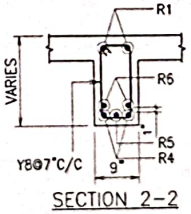
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



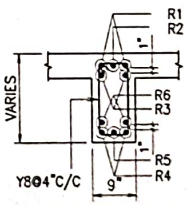
TYPICAL FLOOR BEAM DETAILS



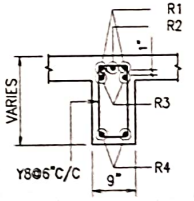
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE.

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All dimensions are in Feets and Inches					Sheet: 15 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

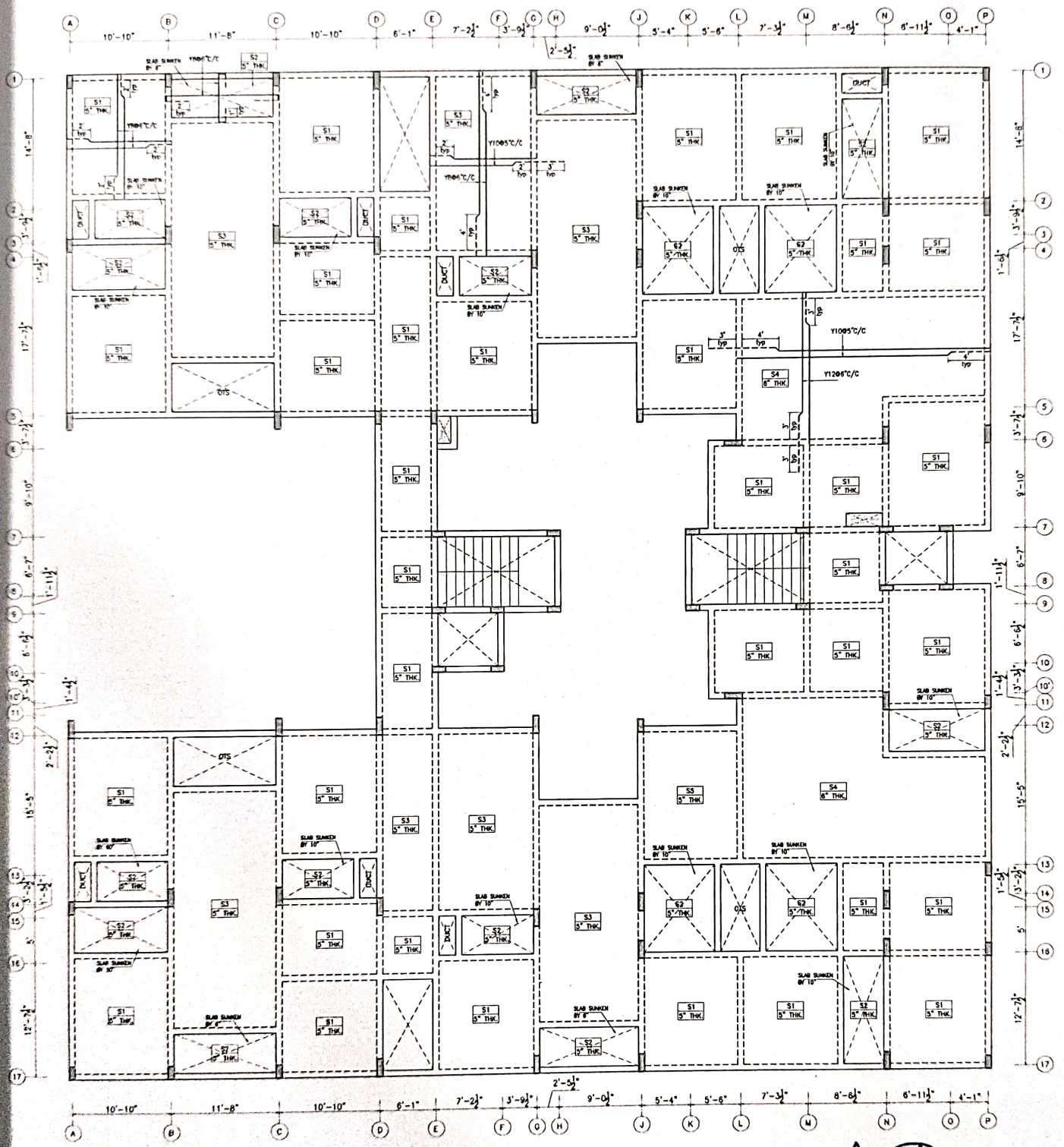
CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

LAYOUT OF REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAMS

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-I/19/04/036)
KURAL ASSOCIATES
No:3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF THIRD FLOOR ROOF SLAB

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(R)/GR-II/19/05/1 & (S)/GR-II/19/04/036)

NOTE:

1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and Inches			Sheet: 16 (A3 SHEET)
Designed by	Sign	Drawn by	Sign	Approved by	Sign
TBN		TBN		TBN	
		Date	05-01-2024	Date	05-01-2024
					Revision R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Vaseeg... Porur

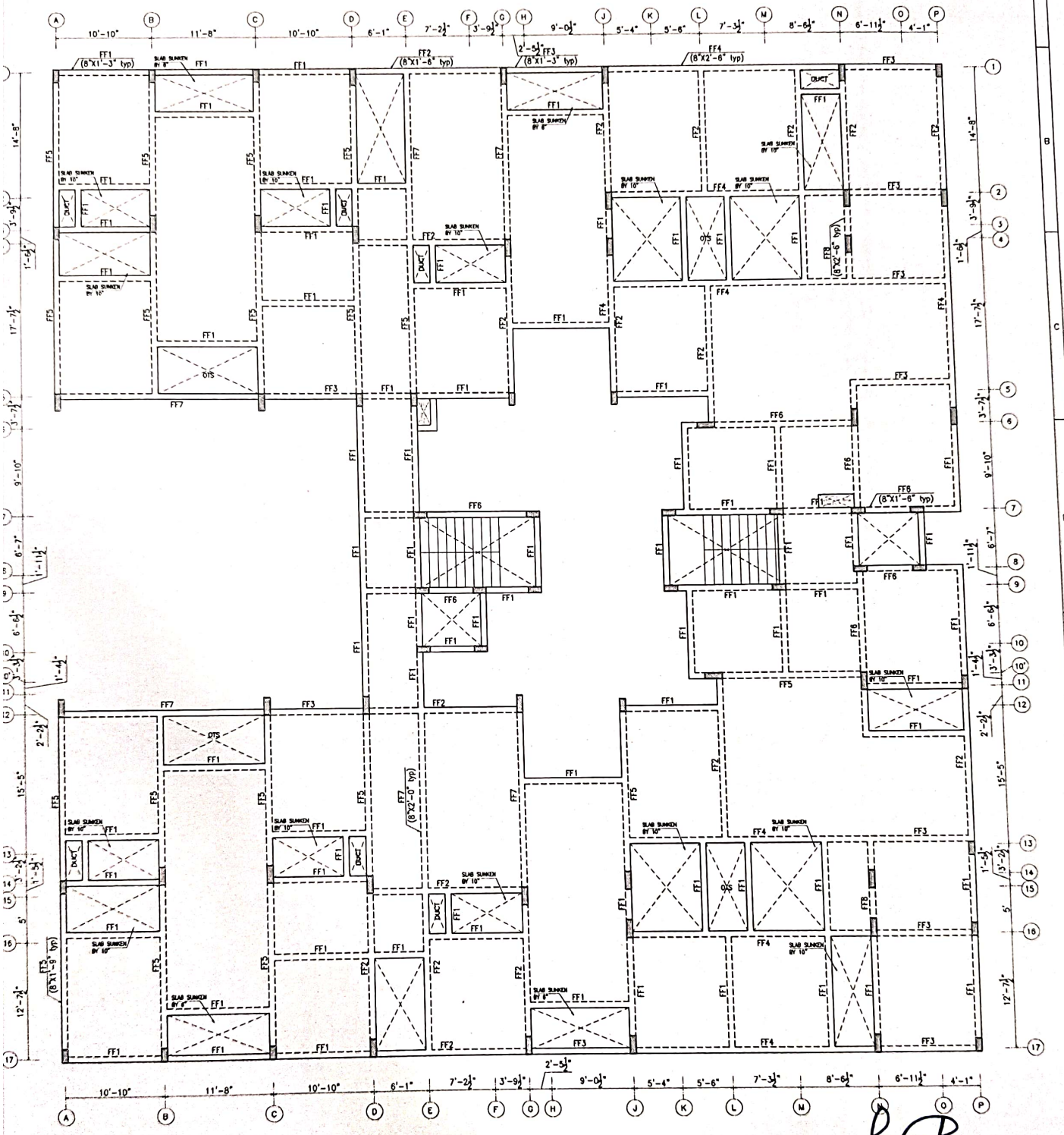
LAYOUT OF DIMENSIONAL CONTROL & REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

BUILDERS

KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-600 125.
Tel No:044-29670563, 91776 44455

KAIZEN

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF THIRD FLOOR ROOF BEAM

TE:
eam column junction and main beam –
econdary beam junctions must be reinforced as per
niscellaneous details presented in sheet–26.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and
ottom reinforcement at support.
Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in mm unless otherwise specified			Sheet No:
Designed by	Sign	Checked by	Sign	Approved by	Sign
TBN		TBN	05-01-2024	TBN	05-01-2024

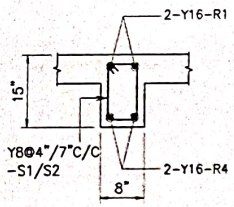
PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAM

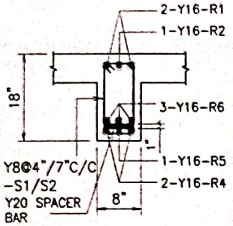
KAIZEN CONSULTANT

R0

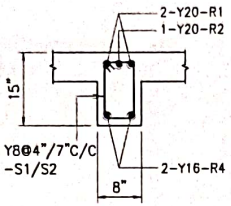
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Valuer & Structural Engineer, OMDA
REGD.NO.(REAGR-I/19/Tvl-06) & (GE/GR-III/19/04/036)
KURALI ASSOCIATES
No:3/1511, Mugalivakkam Main Road,
Madhanandanuram, Porur, Chennai-600125.
Mob:9791176685 / Tel No:044-79670563



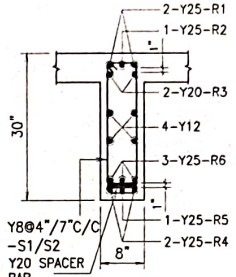
C.S OF FF1
[8"X1'-3"]



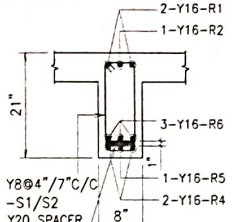
C.S OF FF2
[8"X1'-6"]



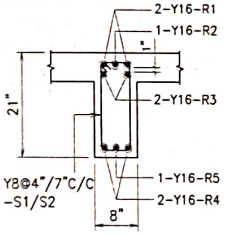
C.S OF FF3
[8"X1'-3"]



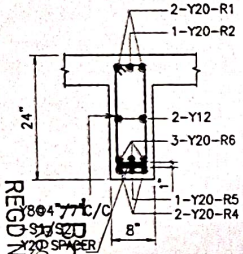
C.S OF FF4
[8"X2'-6"]



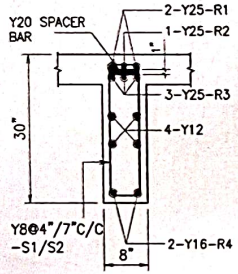
C.S OF FF5
[8"X1'-9"]



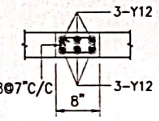
C.S OF FF6
[8"X1'-9"]



C.S OF FF7
[8"X2'-0"]



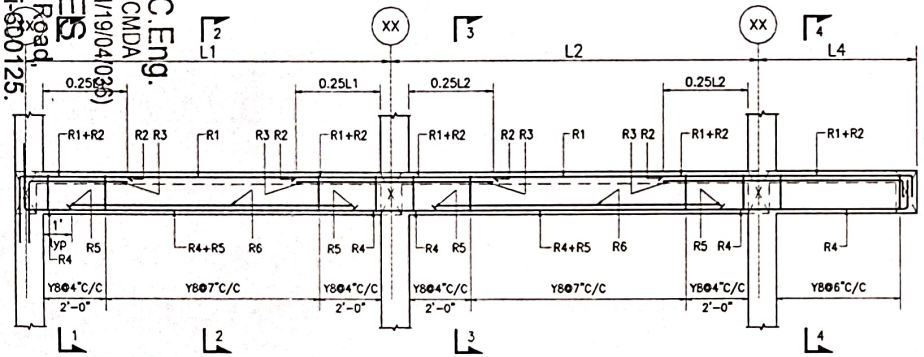
C.S OF FF8
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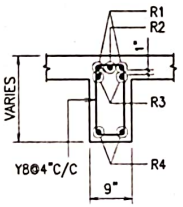
C.S OF CB
(CONCEALED BEAM)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

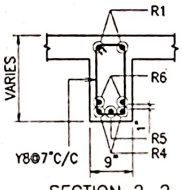
R.RAJARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19051166) &(RE/GR-II/19040326)
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563.



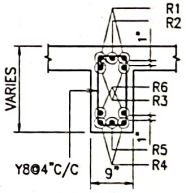
TYPICAL FLOOR BEAM DETAILS



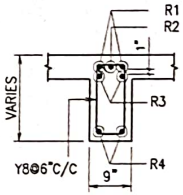
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE.

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet.18 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

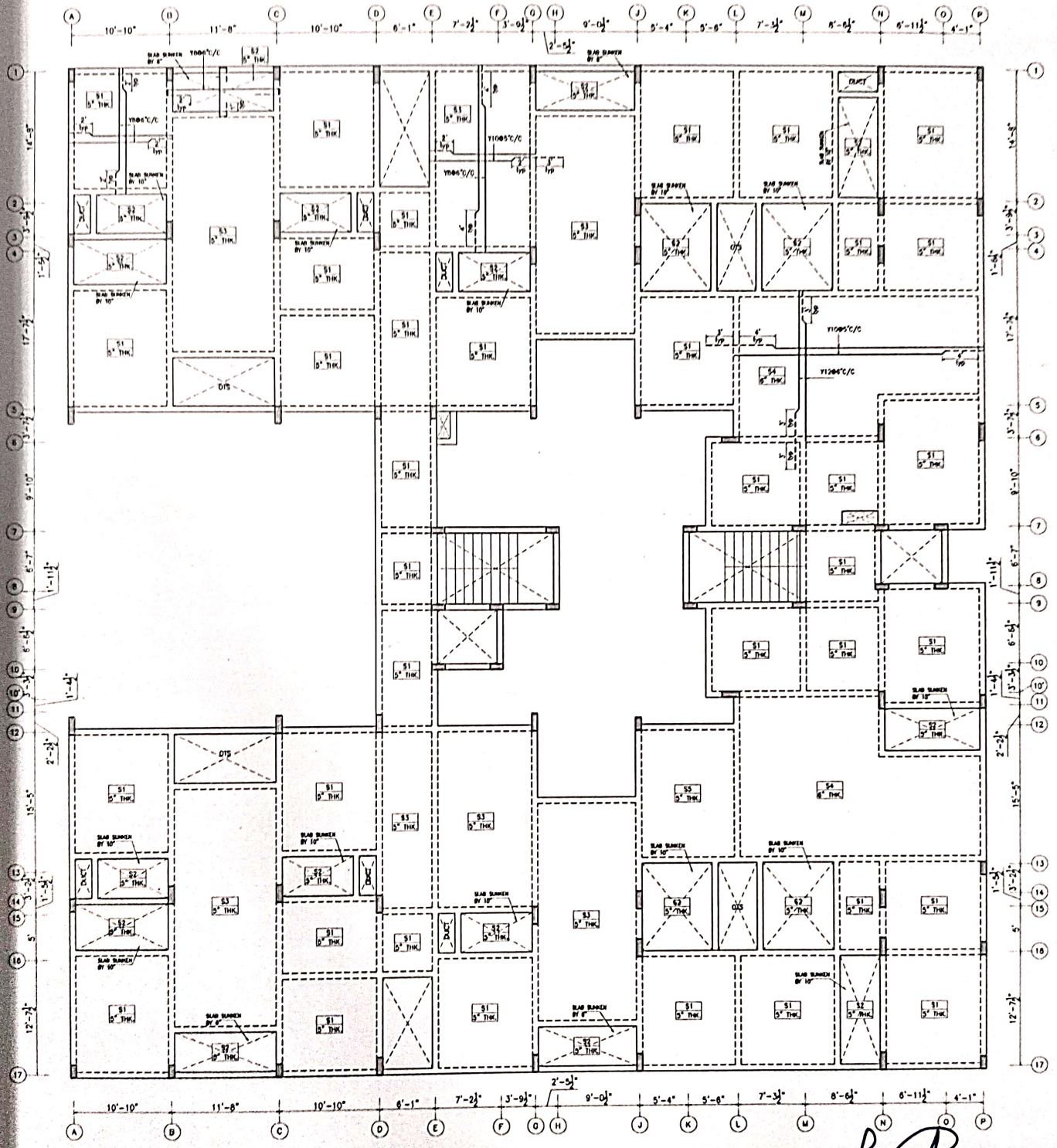
PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

LAYOUT OF REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAMS

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF FOURTH FLOOR ROOF SLAB

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
☒	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feet & Inches		Sheet: 19 (A3 SHEET)
Designed by	Sign	Checked by	Approved & Signed by (SE/GR-III/19/04/036)	Revision
TBN		TBN	TBN	R0
		05-01-2024	05-01-2024	

PROPOSED RESIDENTIAL AT Survey No. 1/1A, Porur.

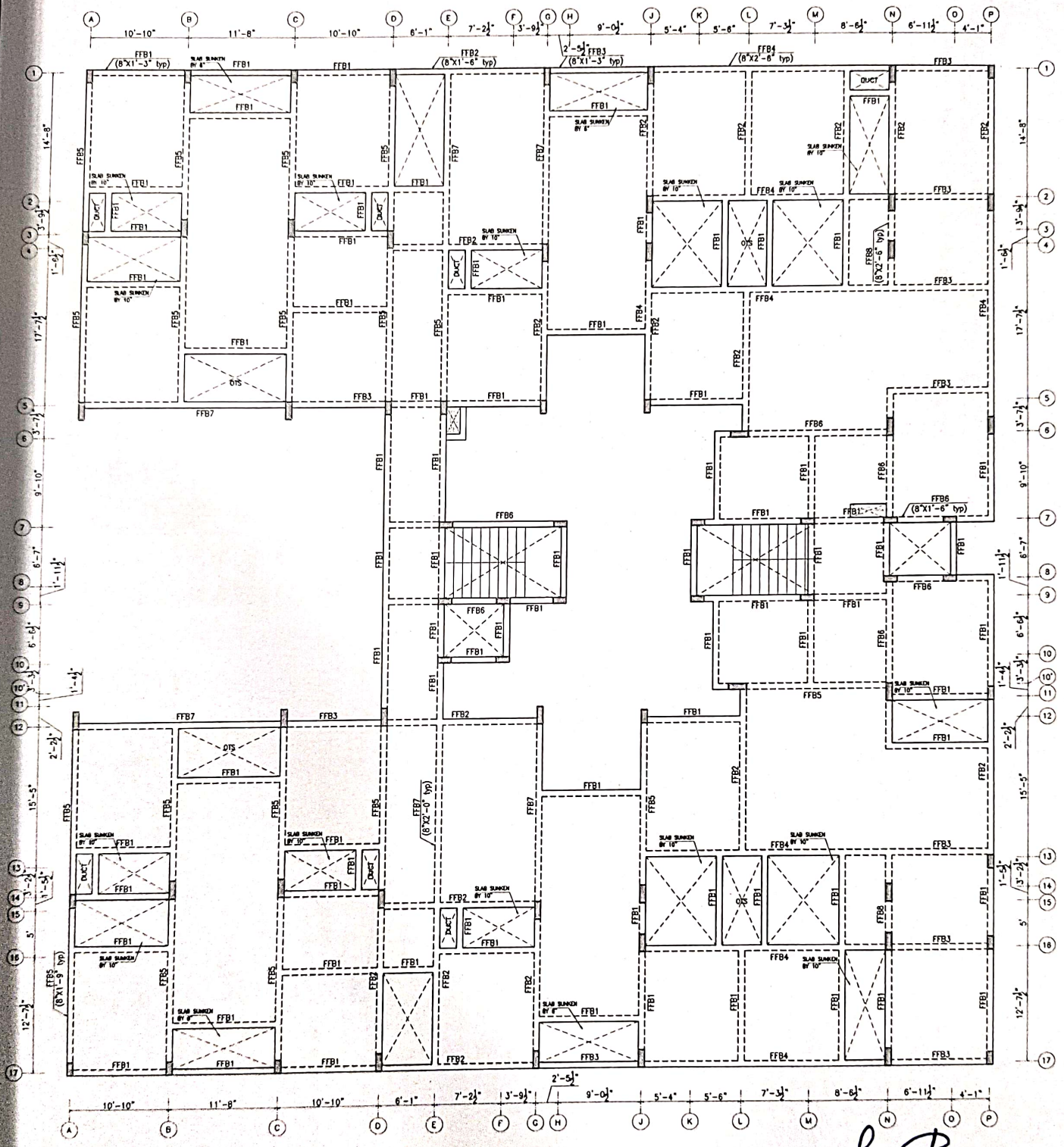
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF SLAB

CLIENT: KAIZEN

CONSULTANT: KURAL ASSOCIATES

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer, CMDA
REGD NO:RE/GR-III/19/03/067
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No.3/1517, Mugalivakkam Main Road,
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Mob:9791770055 / Tel No:044-79670563.

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



LAYOUT OF FOURTH FLOOR ROOF BEAM

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO.(REGR-1/9466) &(SE-PRM/19/04/036)
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feet-Inch unless otherwise noted		Sheet 1 of 1 Sheets	
Designed by	Sign	Checked by	Date	Sign	Revision
TBN		TBN	05-01-2024	TBN	05-01-2024 R0

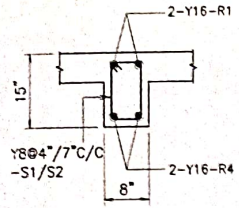
PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

CLIENT: KAIZEN BUILDERS

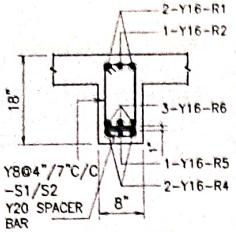
CONSULTANT: KURAL ASSOCIATES

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAM

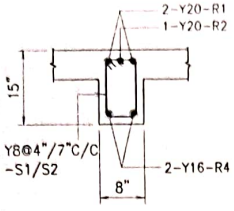
NO.3/1517 Mugalivakkam Main Road Madhanandhapuram, Porur, Chennai-125. Ph:044-42866312 MOB:9791776685 Email:kuralassociates.engineers@gmail.com



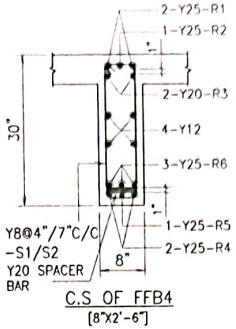
C.S OF FFB1
[8"X1'-3"]



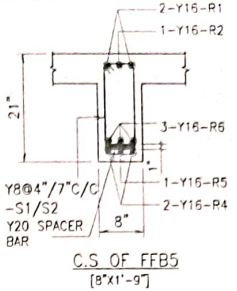
C.S OF FFB2
[8"X1'-6"]



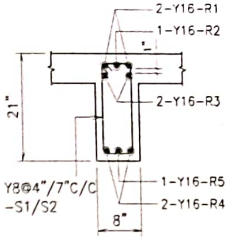
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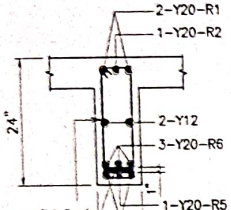
C.S OF FFB4
[8"X2'-6"]



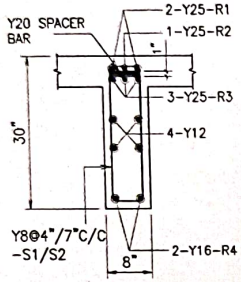
C.S OF FFB5
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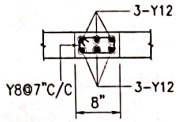
C.S OF FFB6
[8"X1'-9"]



C.S OF
FFB7
[8"X2'-0"]



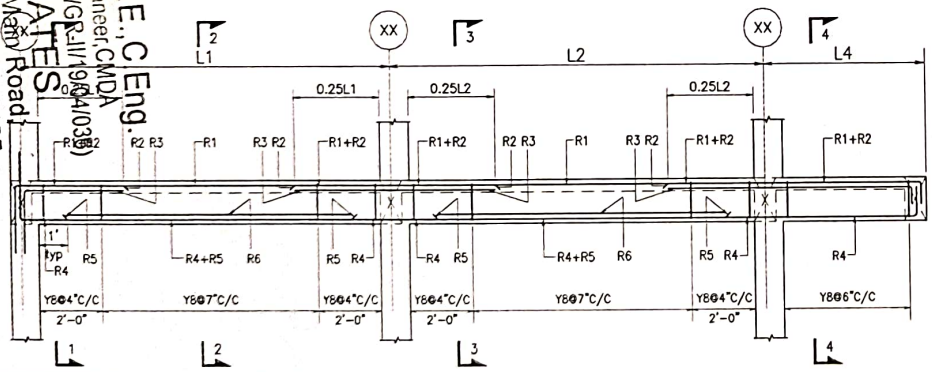
C.S OF FFB8
[8"X2'-6"]



C.S OF CB
(CONCEALED BEAM)

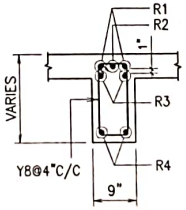
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

Dr.BHARANIDHARAN.M.E.,C.Eng.
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Mathanandapuram, Porur, Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

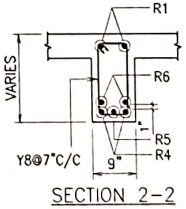


TYPICAL FLOOR BEAM DETAILS

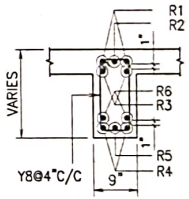
NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE.



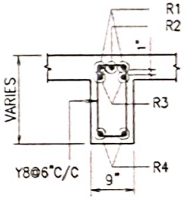
SECTION 1-1



SECTION 2-2



SECTION 3-3



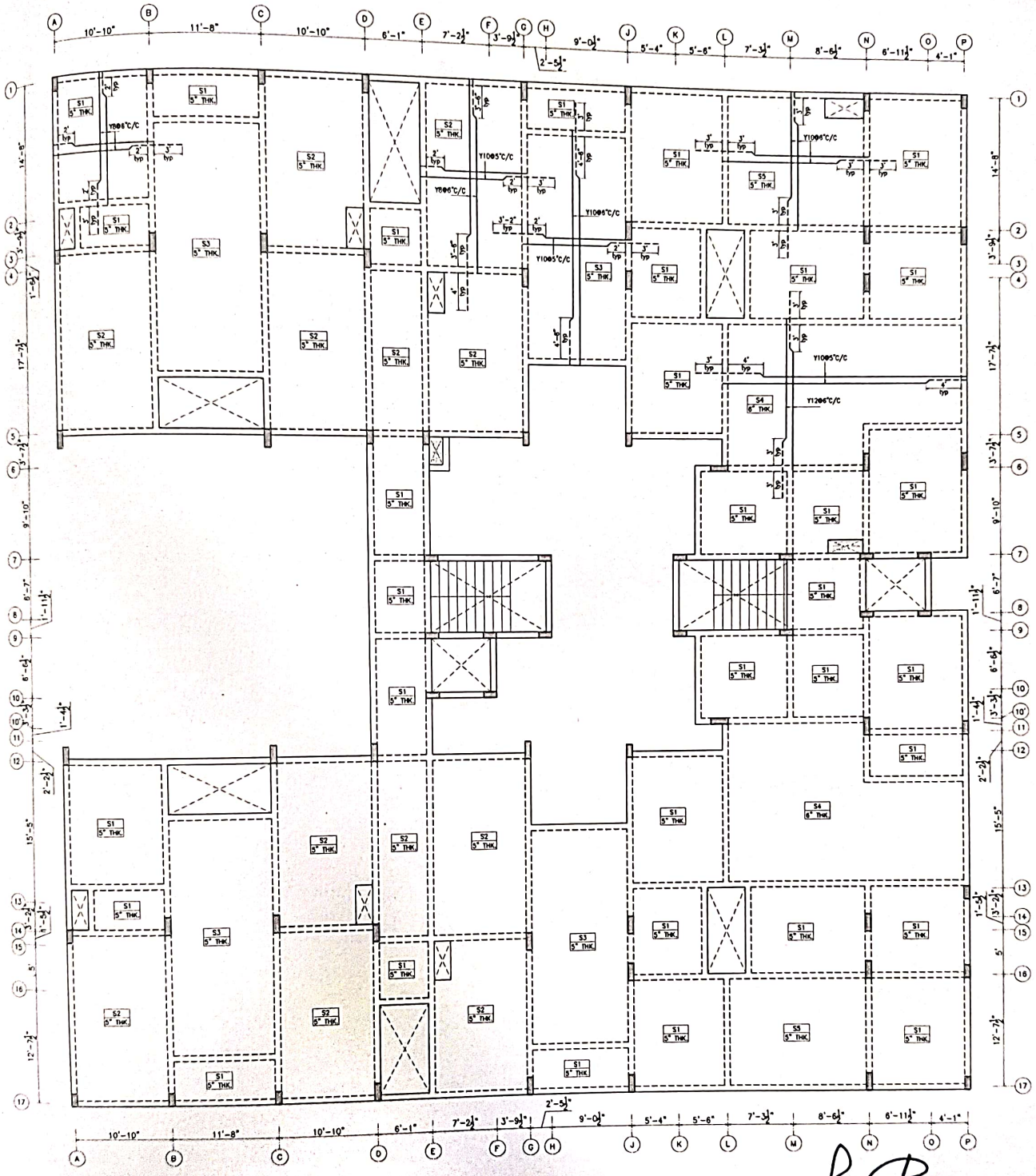
SECTION 4-4

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 21 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.	CLIENT: KAIZEN BUILDERS	CONSULTANT: KURAL ASSOCIATES
LAYOUT OF REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAMS		

R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



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REGD.NO.(RE/2018/14036)

LAYOUT OF FIFTH FLOOR ROOF SLAB

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-26.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND
℄ : CENTRE LINE
F.B : GROUND FLOOR
S1 : SLAB-1
TYP. : TYPICAL
× : COLUMN TERMINATED
⊠ : SUNKEN SLAB
THK. : THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets and inches, & SF (Sheet no/Revision)					
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Revision
TBN		TBN	05-01-2024		TBN	05-01-2024	R0

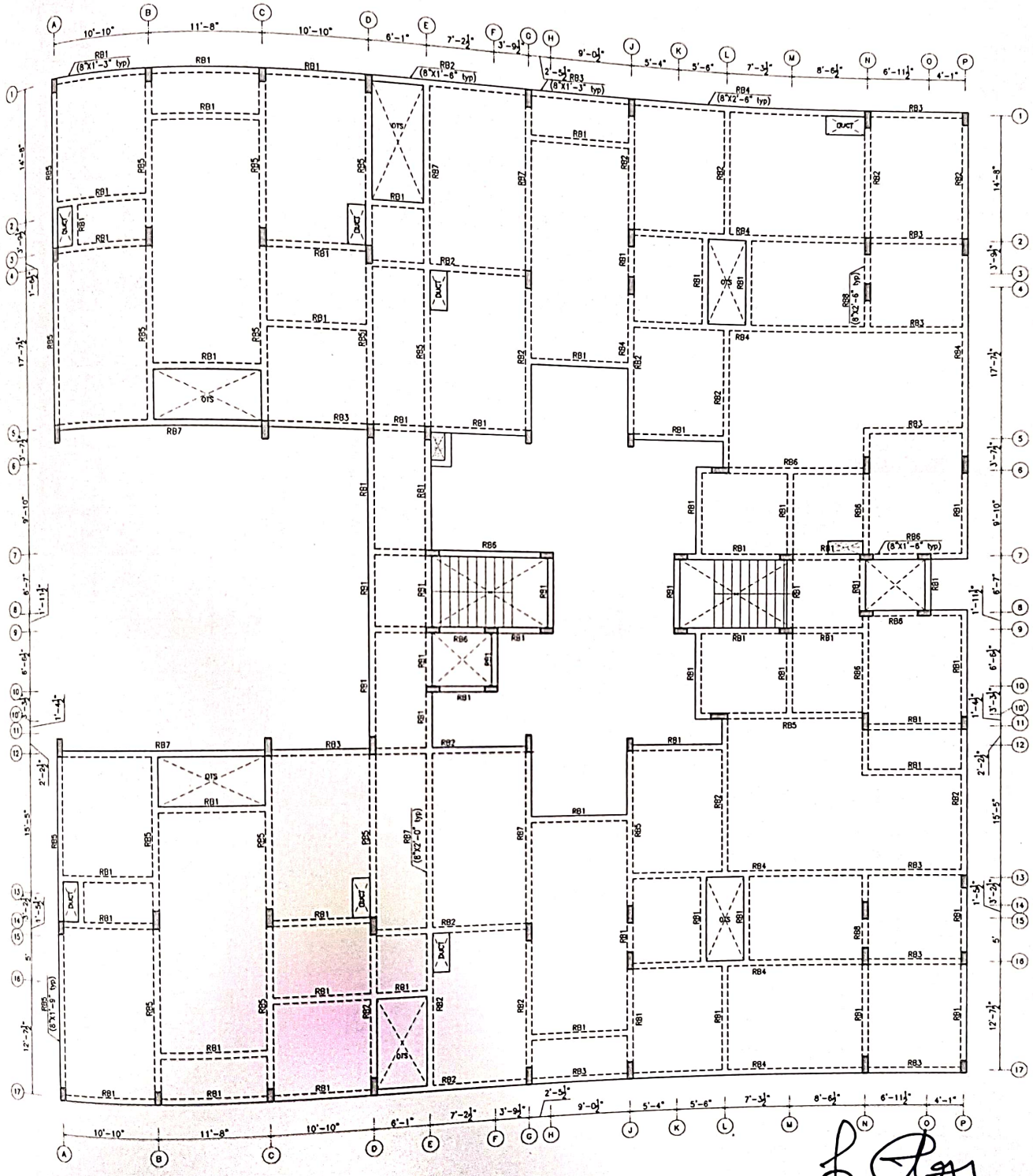
PROPOSED RESIDENTIAL AT Porur.

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF SLAB

CLIENT: KAIZEN BUILDERS

KURALA & ASSOCIATES
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Madhanandapuram,Porur,Chennai-600125.
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R0	GOOD FOR CONSTRUCTION	05/01/2024	TBN



T.BHARANIDHARAN M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(PE/GR/10015 and 16863)(SE/GR/11/04/036)

LAYOUT OF FIFTH FLOOR ROOF BEAM

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–26.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
F.B	:	GROUND FLOOR
S1	:	SLAB-1
TYP.	:	TYPICAL
×	:	COLUMN TERMINATED
⊠	:	SUNKEN SLAB
THK.	:	THICKNESS OF SLAB

JOB NO: KAAF0001		AR Drawing No:			
Designed by	Sign	Checked by	Sign	Approved by	Sign
TBN		TBN	05/01/2024	TBN	05/01/2024

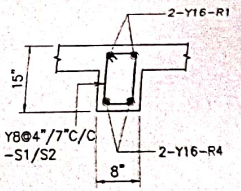
PROPOSED RESIDENTIAL APARTMENTS at Madhanandapuram, Porur, Chennai-600125

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAM

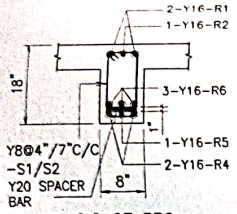
CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
No.3/157, Mugaliyan kattu Main Road, Porur, Chennai-600125
Mob:9791776685 / Tel No:044-79670563

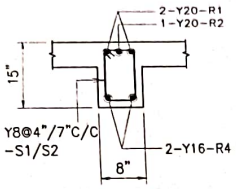
Date	Revision
05/01/2024	R0



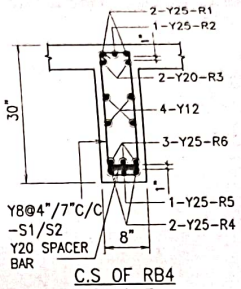
C.S OF RB1
[8"X1'-3"]



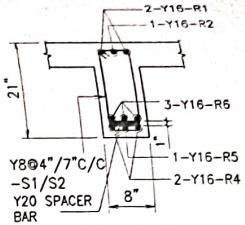
C.S OF RB2
[8"X1'-6"]



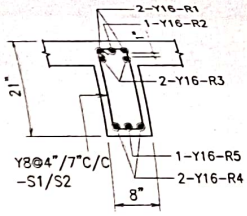
C.S OF RB3
[8"X1'-3"]



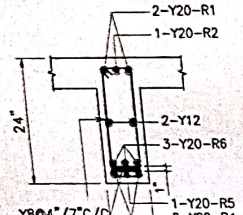
C.S OF RB4
[8"X2'-6"]



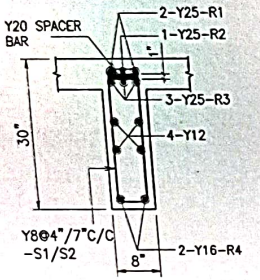
C.S OF RB5
[8"X1'-9"]



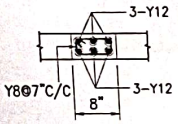
C.S OF RB6
[8"X1'-9"]



C.S OF RB7
[8"X2'-0"]

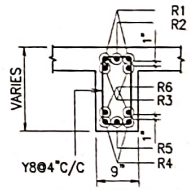


C.S OF RB8
[8"X2'-6"]

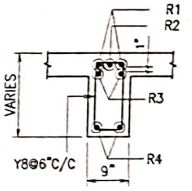


C.S OF CB
(CONCEALED BEAM)

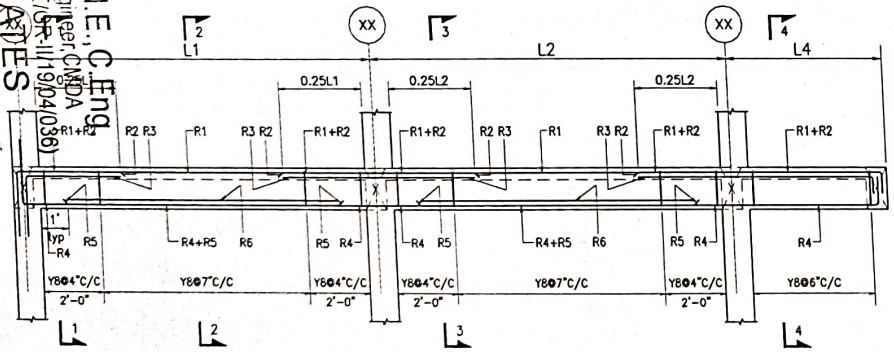
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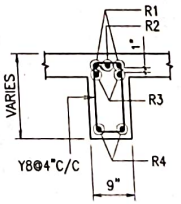
SECTION 3-3



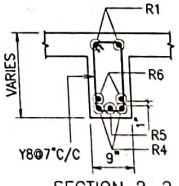
SECTION 4-4



TYPICAL FLOOR BEAM DETAILS



SECTION 1-1



SECTION 2-2

NOTE:
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NOTE:
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JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet 24 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	05/01/2024		TBN	05/01/2024		R0

PROPOSED RESIDENTIAL AT Sakthi Nagar, Porur.

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

LAYOUT OF REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAMS

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