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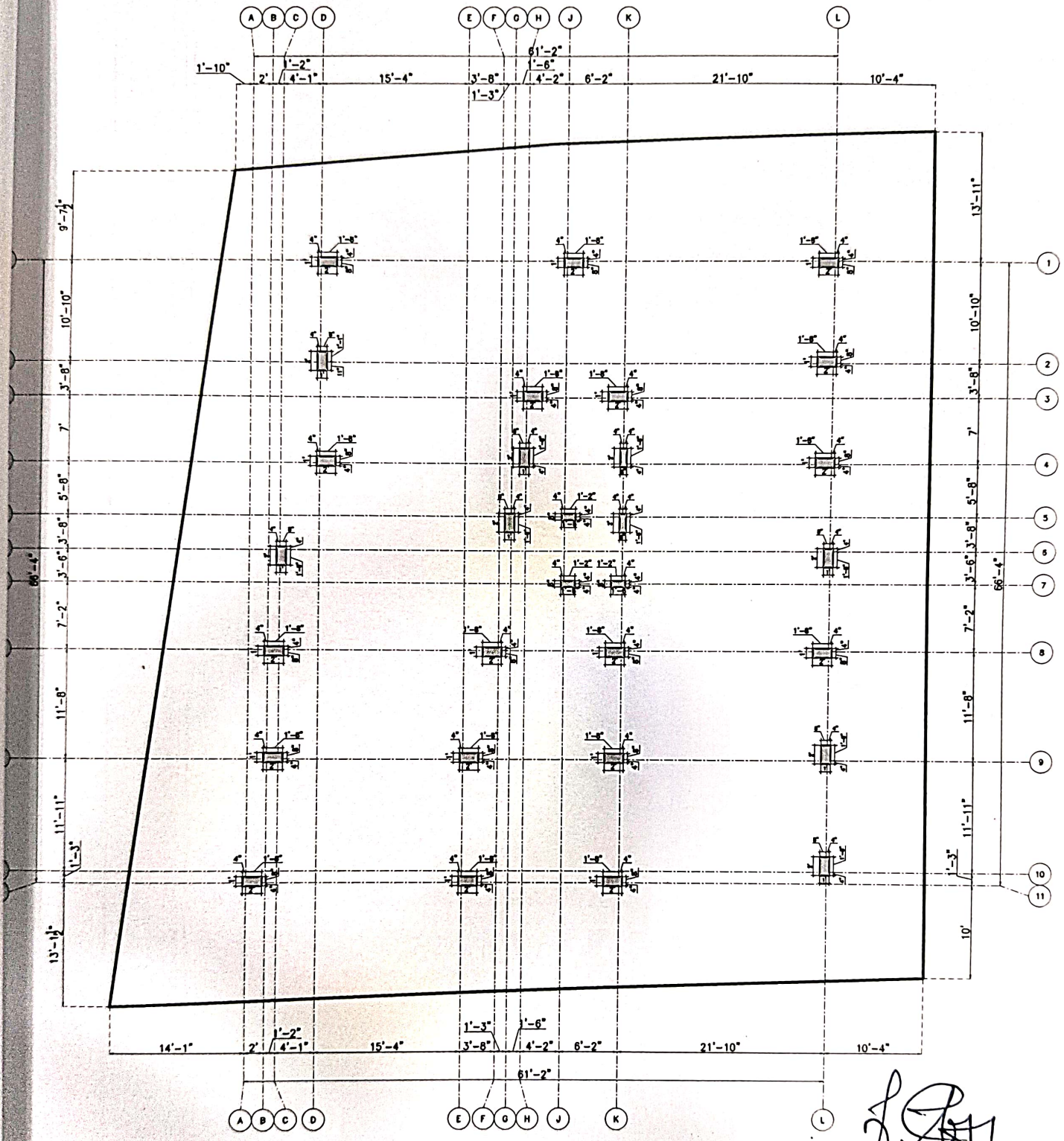
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R0	GOOD FOR CONSTRUCTION	29-04-2024	TBN



LAYOUT OF COLUMN SETTING OUT PLAN

LEGENDS

- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

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
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Mob:9791776685, Tel No:044-42663312

JOB NO: KAAF0001	All dimensions are in Feets and Inches							Sheet No: 01
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	29-04-2024		TBN	29-04-2024		R0

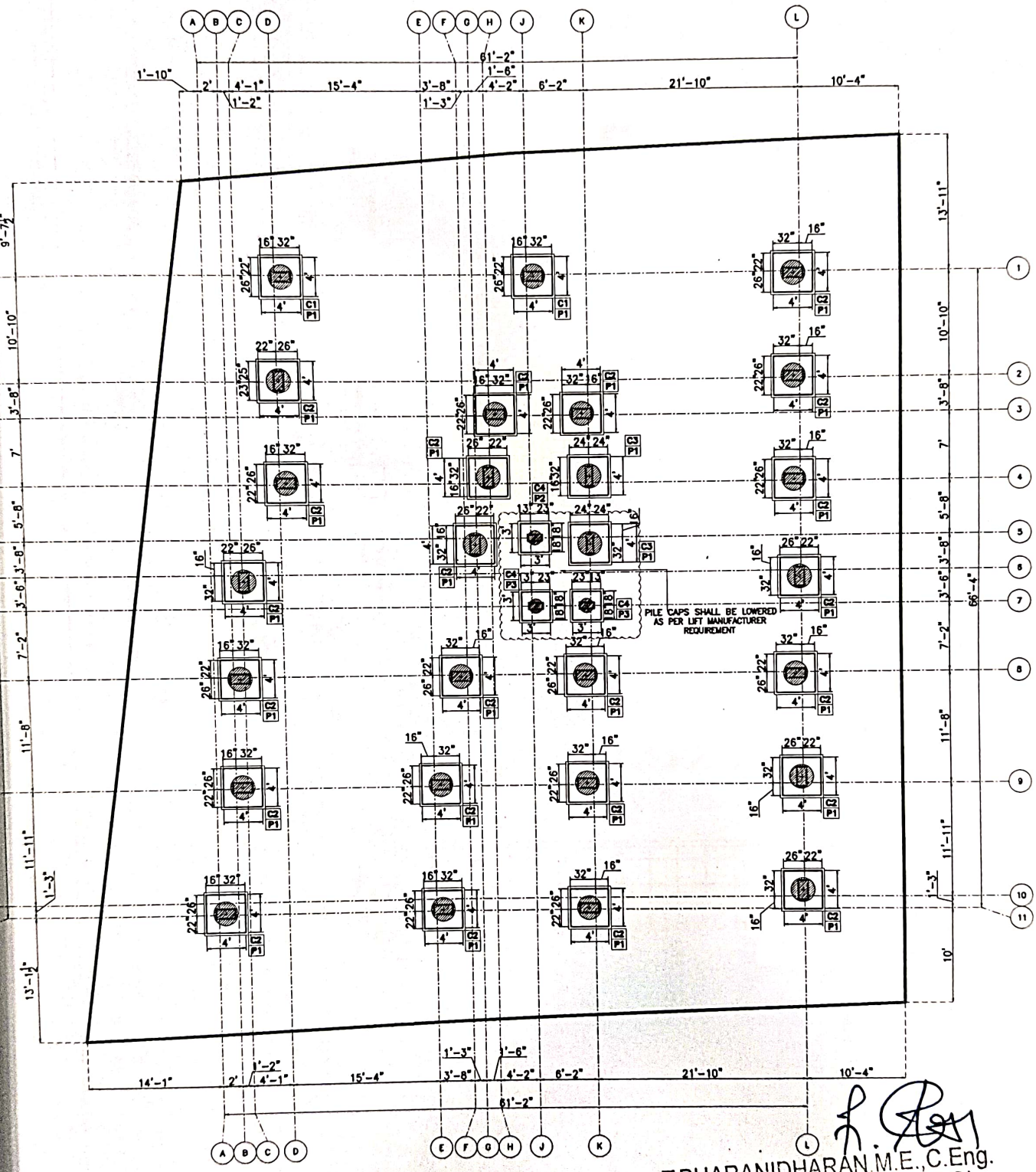
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF COLUMN SETTING OUT PLAN

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram,
Porur, Chennai-125, PH:044-42663312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	29-04-2024	TBN



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LAYOUT OF PILES AND PILE CAPS

LEGENDS
- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

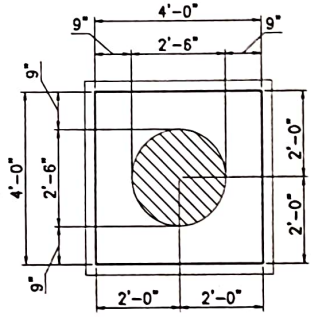
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Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	29-04-2024		TBN	29-04-2024		R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

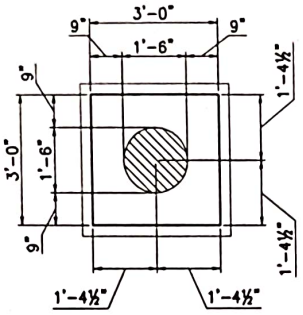
LAYOUT OF PILES AND PILE CAPS

CLIENT: KAIZEN BUILDERS

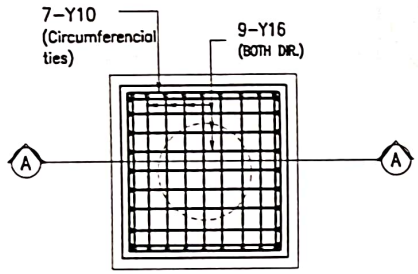
CONSULTANT: KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125, Ph:044-42864312, MOB:9791774685. Email:kuralassociates.engineers@gmail.com



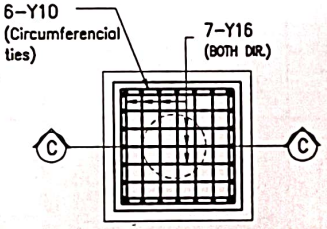
PLAN–DIMENSIONS–P1



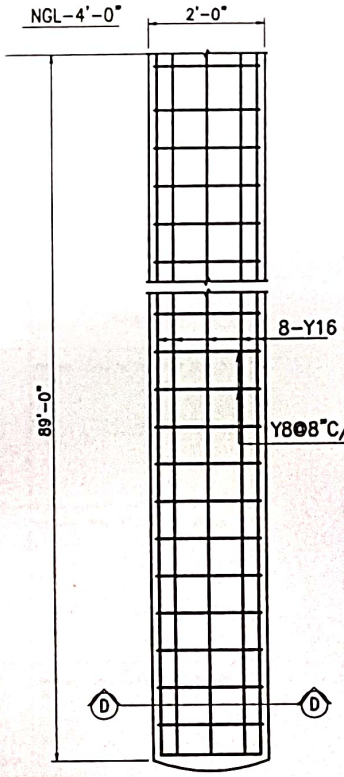
PLAN–DIMENSIONS–P3



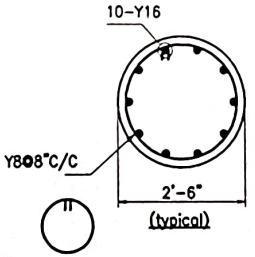
PLAN–REINFORCEMENTS–P1
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)

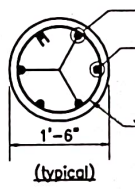


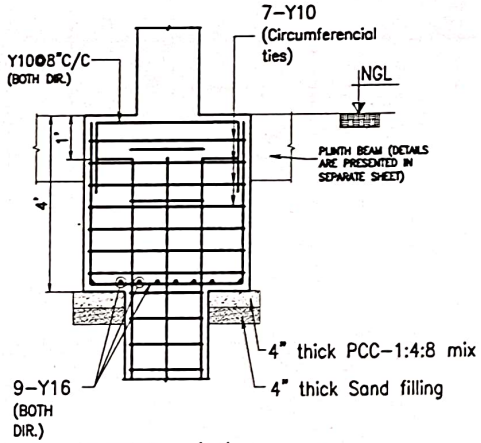
PLAN–REINFORCEMENTS–P3
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



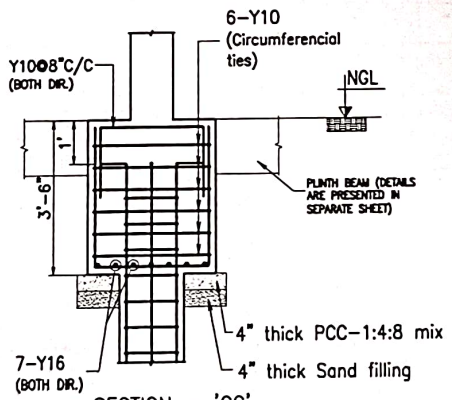
L.S OF BORED PILES
(PC 2'0" dia)
(typical)







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



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

TYPICAL PILE CAP DETAILS
FOR P3–(3 NOS)

TYPICAL PILE CAP DETAILS
FOR P1–(27 NOS)

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. Pile cap = 50mm
   b. Column = 40mm
5. Sand filling and PCC can be laid commonly for pile caps which are much closer to each other but structural concrete must be separated by a wooden plank/paper joint.
6. Any descripencies should be produced to the Engineer's immediately notice before execution.
7. Pile capacity as per geotechnical report is

MATERIAL STRENGTH

I. Grade of concrete - M30

II. Grade of steel - fe 500

PILE CAPS ARE DESIGNED ONLY FOR S+5 FLOORS.

As shown in Architectural drawing

*NOTES:–

If it is inconvinient to provide plinth beam monolithic with pile cap top level it can be raised so that will be placed exactly over pile caps respectively

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Madhanandapuram,
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Sheet:3 (A2 SHEET) | All dimensions are in Feets and Inches

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Job No: KAA(000)			29/04/2024			TBN	29/04/2024		R1

CLIENT: KAIZEN BUILDERS

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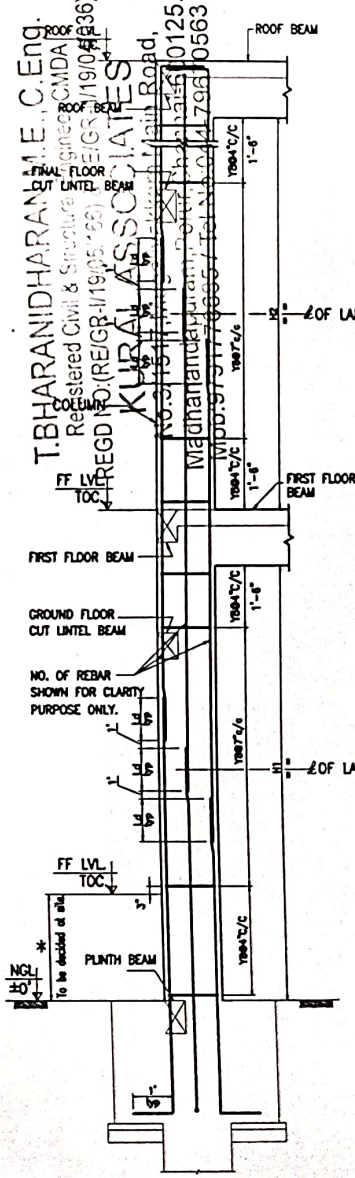
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF PILE CAPS

KURAL ASSOCIATES
Structural Consultants
No.3/1517, Mugappair West Road, Madhanandapuram, Post, Chennai-101. Phone: 6384078, 9626791/7485.
Email: kuralassociates.engineers@gmail.com

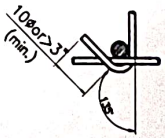
TBN | 29/04/2024 | GOOD FOR CONSTRUCTION | R1

R1	GOOD FOR CONSTRUCTION	29/04/2024	TBN

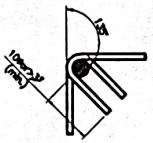
COLUMN NO.	NOS.	FROM FOUNDING LEVEL TO GROUND FLOOR ROOF LEVEL	FROM GROUND FLOOR ROOF LEVEL TO SECOND FLOOR ROOF LEVEL	FROM SECOND FLOOR ROOF LEVEL TO FOURTH FLOOR ROOF LEVEL	FROM FOURTH FLOOR ROOF LEVEL TO TERRACE FLOOR LEVEL	REMARKS
C1	2	2'-0" 'a'-4-Y20 'b'-8-Y20 'c'-2-Y20 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-6-Y20 'c'-2-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-6-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y16 'b'-6-Y16 S1'-Y8@4"/CTC/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C2	23	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y20 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-6-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y16 'b'-6-Y16 S1'-Y8@4"/CTC/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C3	2	2'-0" 'a'-4-Y20 'b'-8-Y20 'c'-2-Y20 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-8-Y20 'c'-2-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y16 S1'-Y8@4"/CTC/C	2'-0" 'a'-4-Y16 'b'-6-Y16 S1'-Y8@4"/CTC/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C4	3	1'-6" 'a'-4-Y16 'b'-4-Y16 S1'-Y8@4"/CTC/C	1'-6" 'a'-4-Y16 'b'-4-Y12 S1'-Y8@4"/CTC/C	1'-6" 'a'-4-Y12 'b'-4-Y12 S1'-Y8@4"/CTC/C	1'-6" 'a'-4-Y12 'b'-4-Y12 S1'-Y8@4"/CTC/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL



Typical column details.



DETAIL-A (typ)



DETAIL-B (typ)

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.

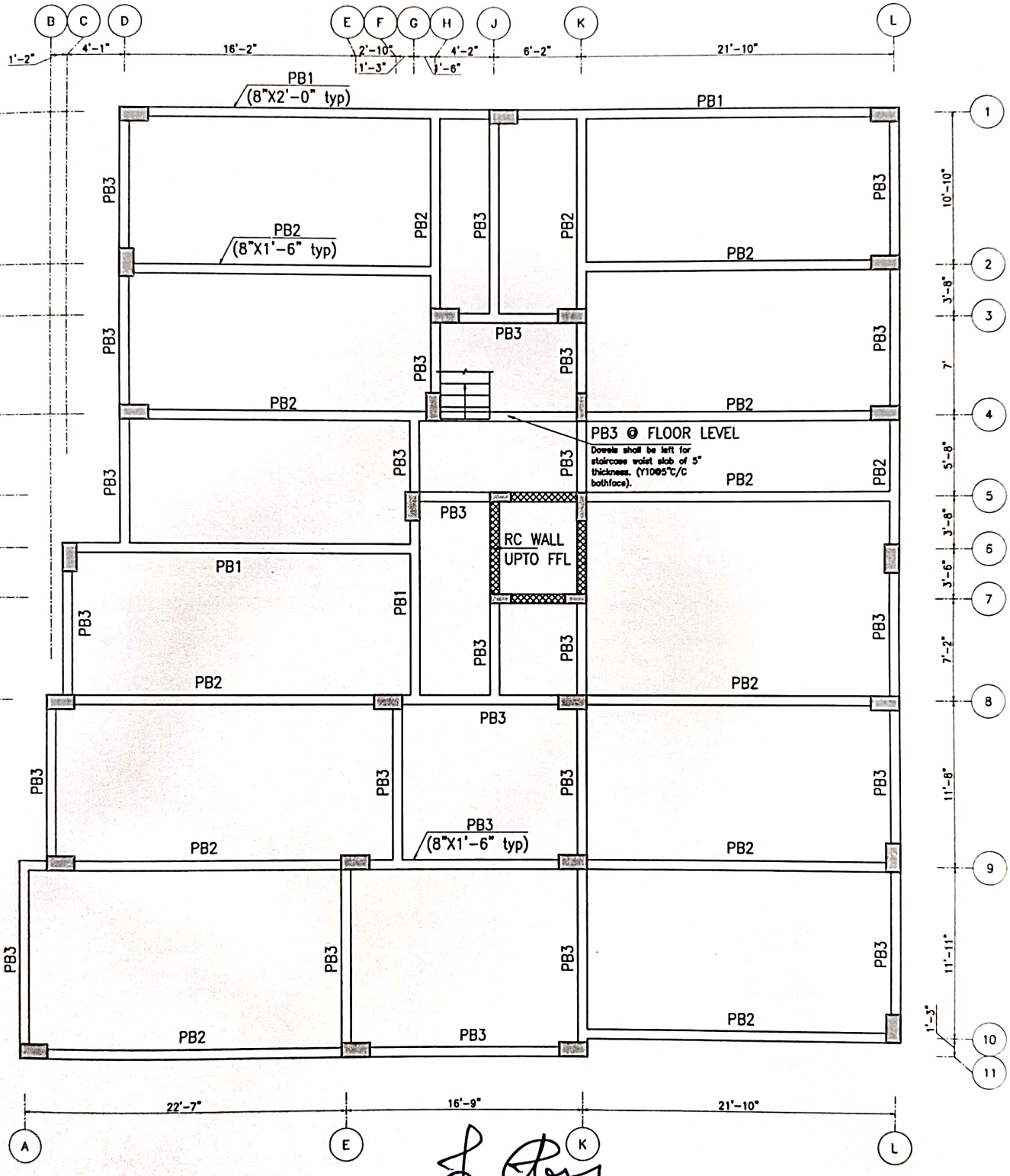
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TBN		TBN	29/04/2024		TBN	29/04/2024		R1

PROPOSED RESIDENTIAL AT MUGAPPAIR

CLIENT:

CONSULTANT: KURAL ASSOCIATES

R1	GOOD FOR CONSTRUCTION	29/04/2024	TBN



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(SE/GR-II/19/04/036)

LAYOUT OF PLINTH BEAMS AT NGL

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Email:kuralassociates.engineers@gmail.com

MATERIAL STRENGTH

I. Grade of concrete - M30

II. Grade of steel - fe 500

NOTE:
Clear cover = 30mm
All laps shall be 50ø
Top reinforcement shall be lapped at mdspan and bottom reinforcement at support.
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: KAAFD001			All dimensions are in Feets and Inches			Sheet:5 (A1 SHEET)	
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TBN		TBN		TBN	29-04-2024		R1

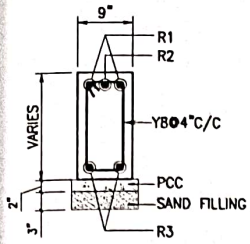
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

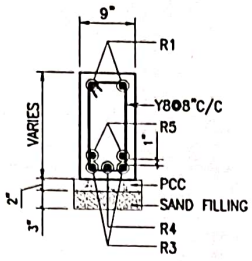
CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

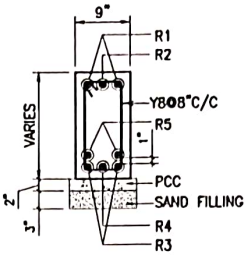
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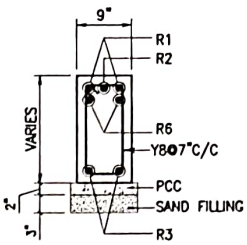
SECTION 1–1



SECTION 2–2

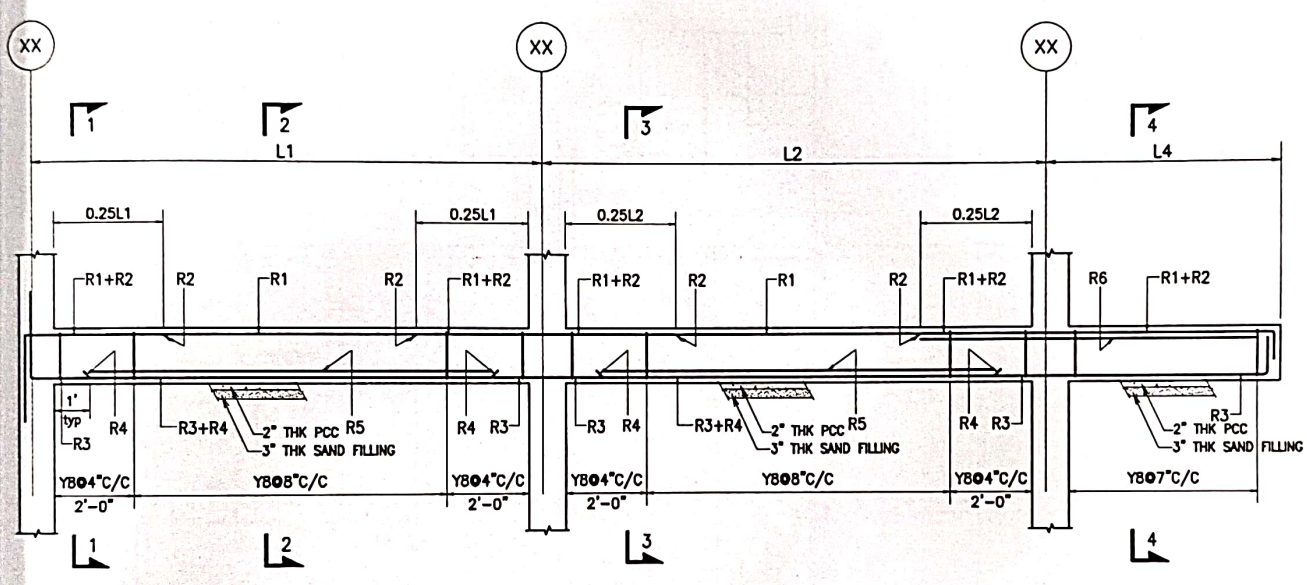


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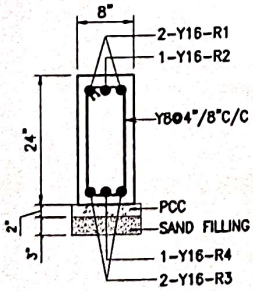


SECTION 4–4

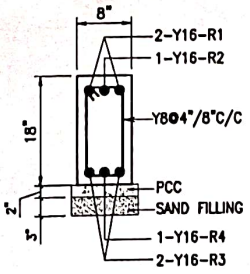
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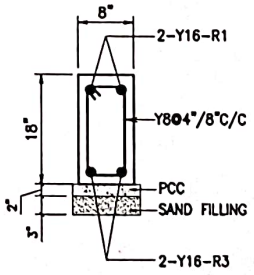
TYPICAL PLINTH BEAM DETAILS



C.S OF PB1
[8"X1'–2"]



C.S OF PB2
[8"X1'–6"]



C.S OF PB3
[8"X1'–6"]

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Madhanandhapuram, Porur, Chennai-600125.
Mob:+91 77666 85 / Ph:044-79670585

END
- CENTRE LINE
- NATURAL GROUND LEVEL
- FINISHED FLOOR LEVEL
- 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: A (A3 SHEET)		
Designed by	Sign	Checked by	Sign	Approved by		Date	Sign	Revision
TBN		TBN	29/04/2024		TBN	29/04/2024		R0

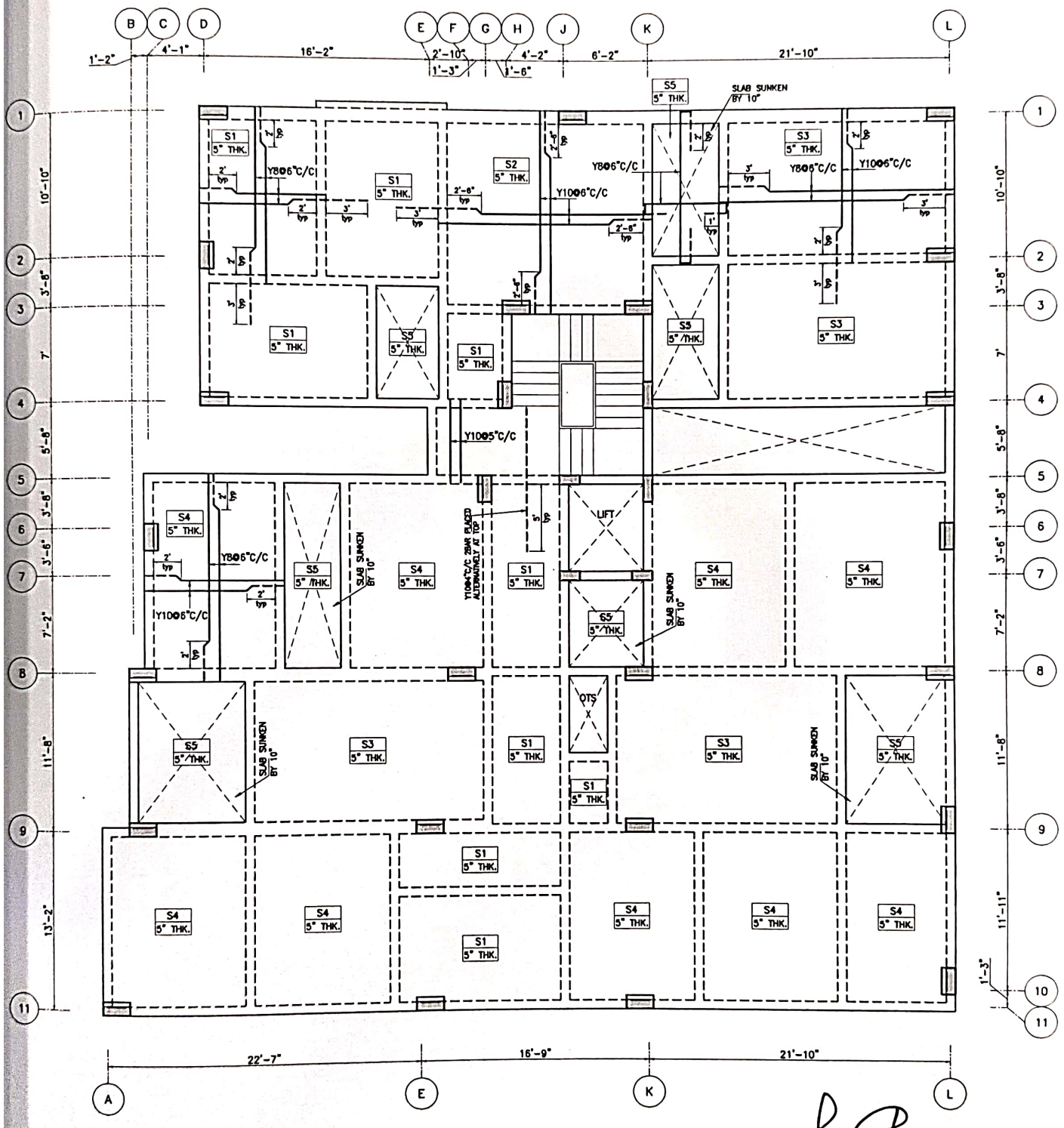
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

CLIENT:
KAIZEN BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. Ph:044-42844312, MOB:9791776683.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	29/04/2024	TBN



LAYOUT OF GROUND FLOOR ROOF SLAB

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Mob:9791726535 / Tel No:044-40670563

NOTE:
1. Lap 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
   — Denotes bottom reinforcement of slab
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 Feets and Inches			Sheet:7 (A3 SHEET)
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TBN		TBN	Date 29-04-2024	TBN	Date 29-04-2024

Revision: R0

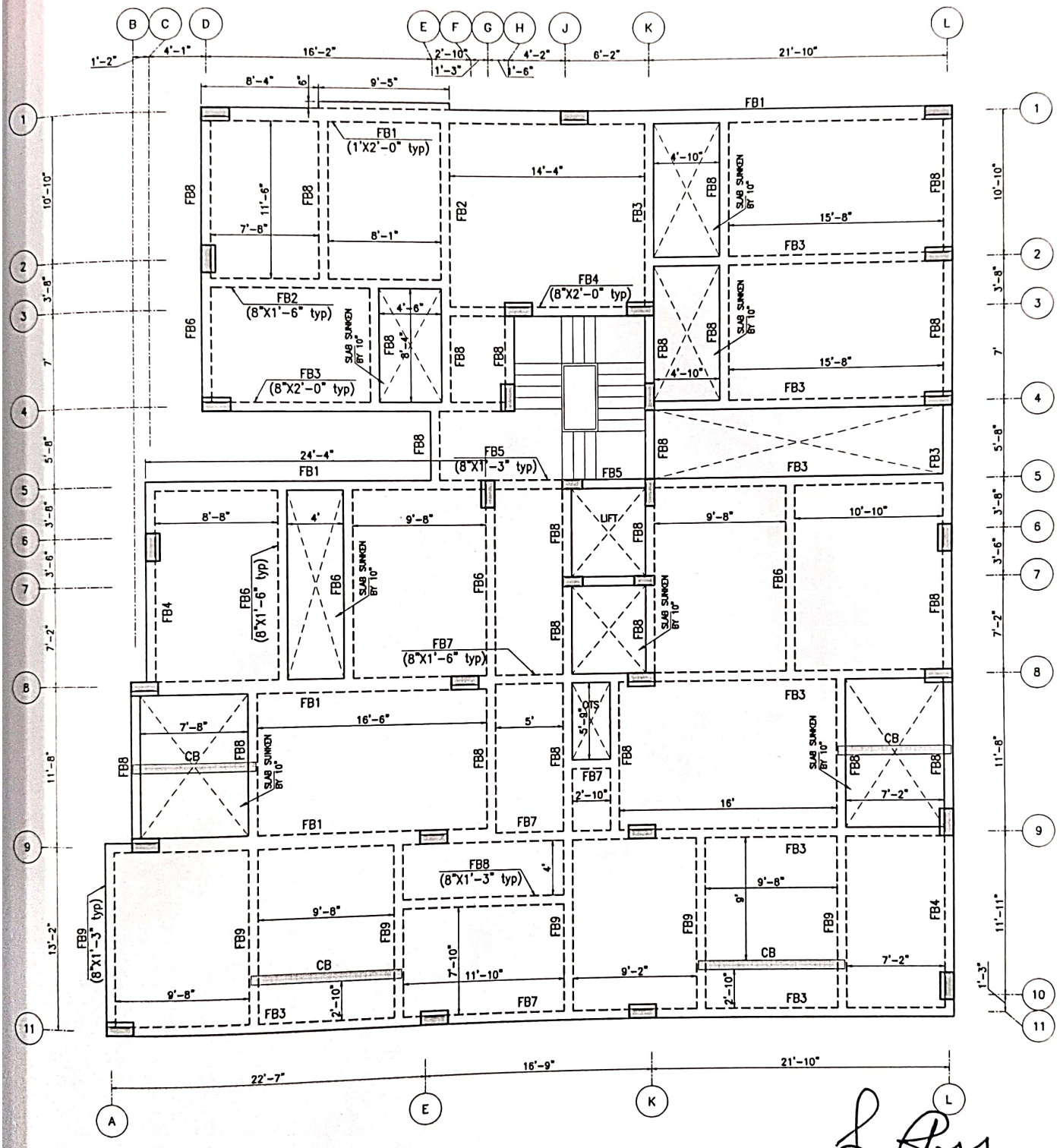
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LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF SLAB

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42846312, MOB:9791776465.
Email:kuralassociates.engineers@gmail.com

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Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)

KURAL ASSOCIATES

LAYOUT OF GROUND 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: 8 (A3 SHEET)
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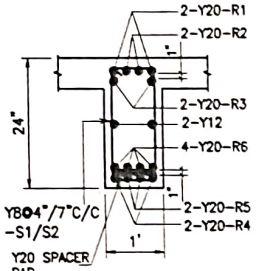
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAM

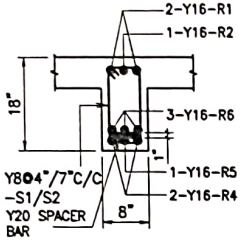
CLIENT:
KAIZEN BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

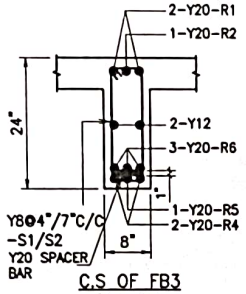
R0	FOR APPROVAL	29/04/2024	TBN



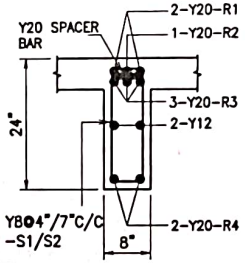
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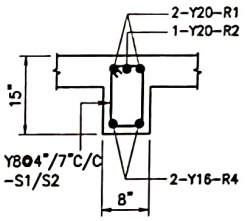
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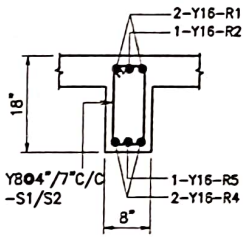
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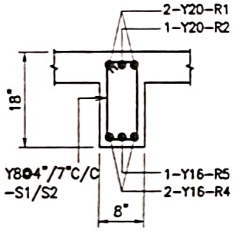
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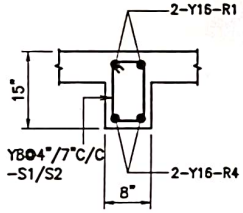
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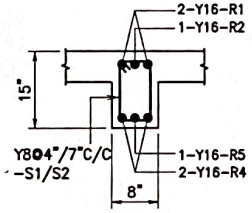
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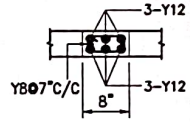
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C.S OF FB8
[8"X1'-3"]



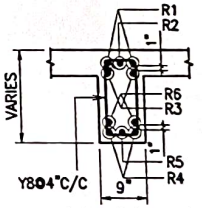
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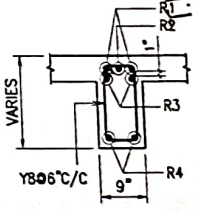
C.S OF CB
(CONCEALED BEAM)

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

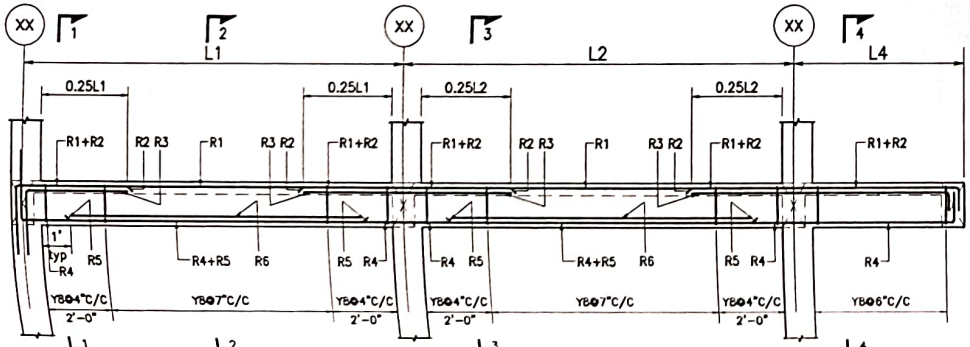
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(REIGR-II/19/05/166) RISE/GR-II/19/04/036)
KURAL ASSOCIATES
No.3/1517,Mugaiyavakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mobile:9677676685 / Tel No:044-79670563



SECTION 3-3

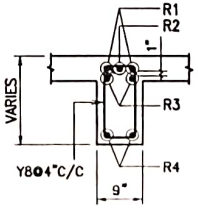


SECTION 4-4

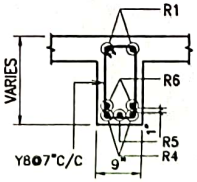


TYPICAL FLOOR BEAM DETAILS

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



SECTION 1-1



SECTION 2-2

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	29/04/2024		TBN	29/04/2024		R0	

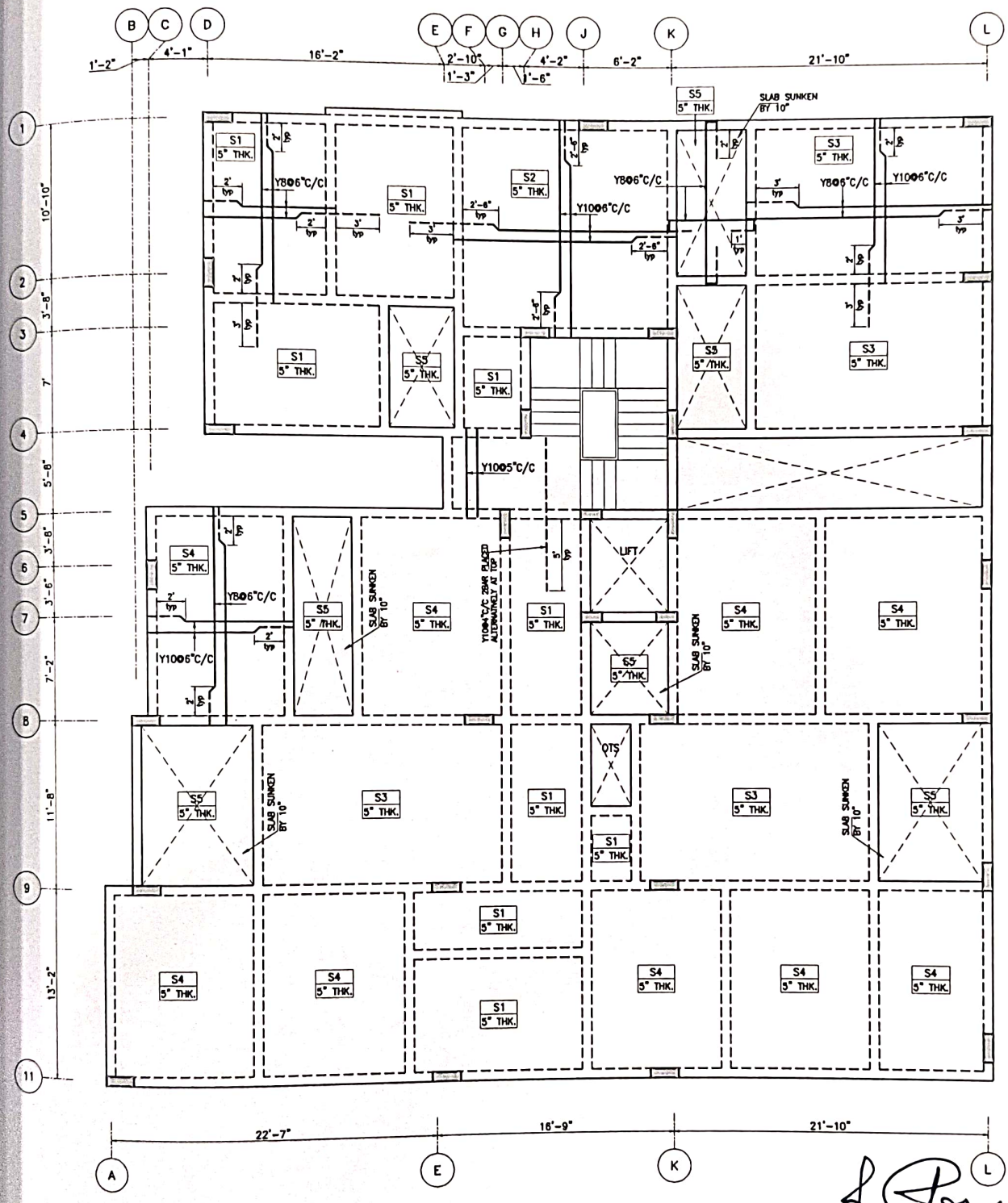
PROPOSED RESIDENTIAL AT MUGAPPAIR

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

LAYOUT OF REINFORCEMENT DETAILS OF

R0	GOOD FOR CONSTRUCTION	29/04/2024	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			Sheet: 10 (A3 SHEET)
Designed by	Sign	Checked by	Sign	Approved by	Sign
TBN		TBN	Date 29-04-2024	TBN	Date 29-04-2024

Revision: R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF SLAB

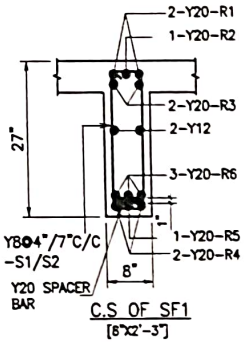
CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
Participation by Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

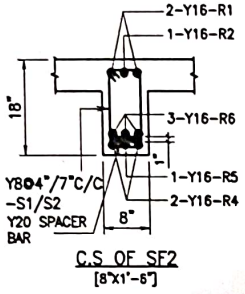
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)
KURAL ASSOCIATES

Digitally signed by Madhanandhapuram Mugalivakkam Main Road, Porur, Chennai-600125, Tel No.044-42866312, Mob 9791776685

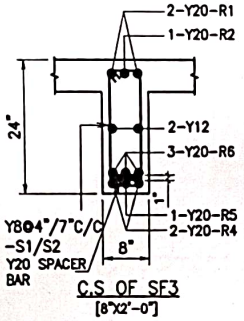
R0	FOR APPROVAL	29/04/2024	TBN		



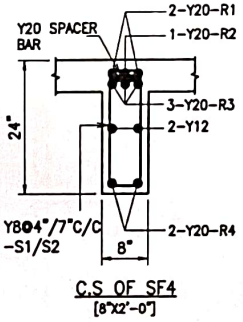
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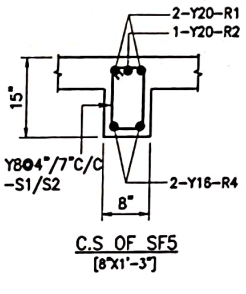
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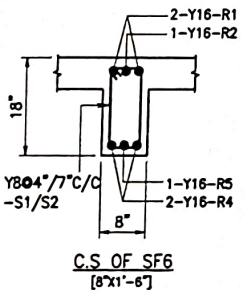
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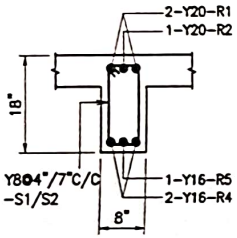
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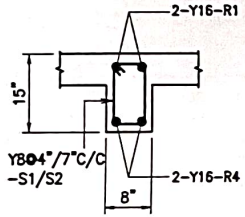
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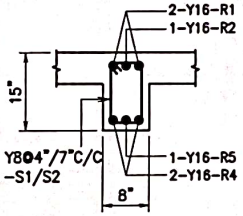
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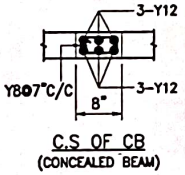
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C.S OF SF8
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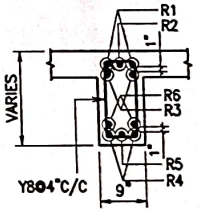
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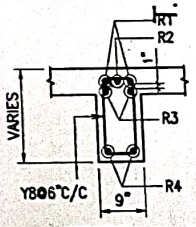
C.S OF CB
(CONCEALED BEAM)

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

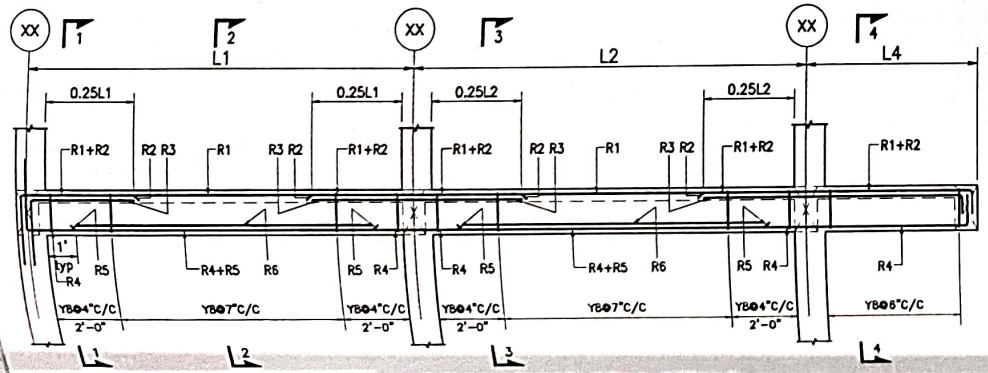
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-II/19/05/166) &(SE/GR-II/19/04/036)
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776065 / Tel:044-24760563



SECTION 3-3

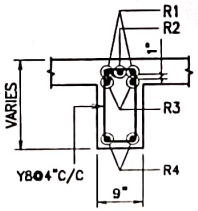


SECTION 4-4

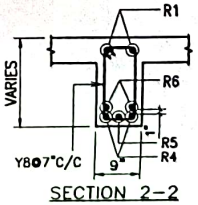


TYPICAL FLOOR BEAM DETAILS

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



SECTION 1-1

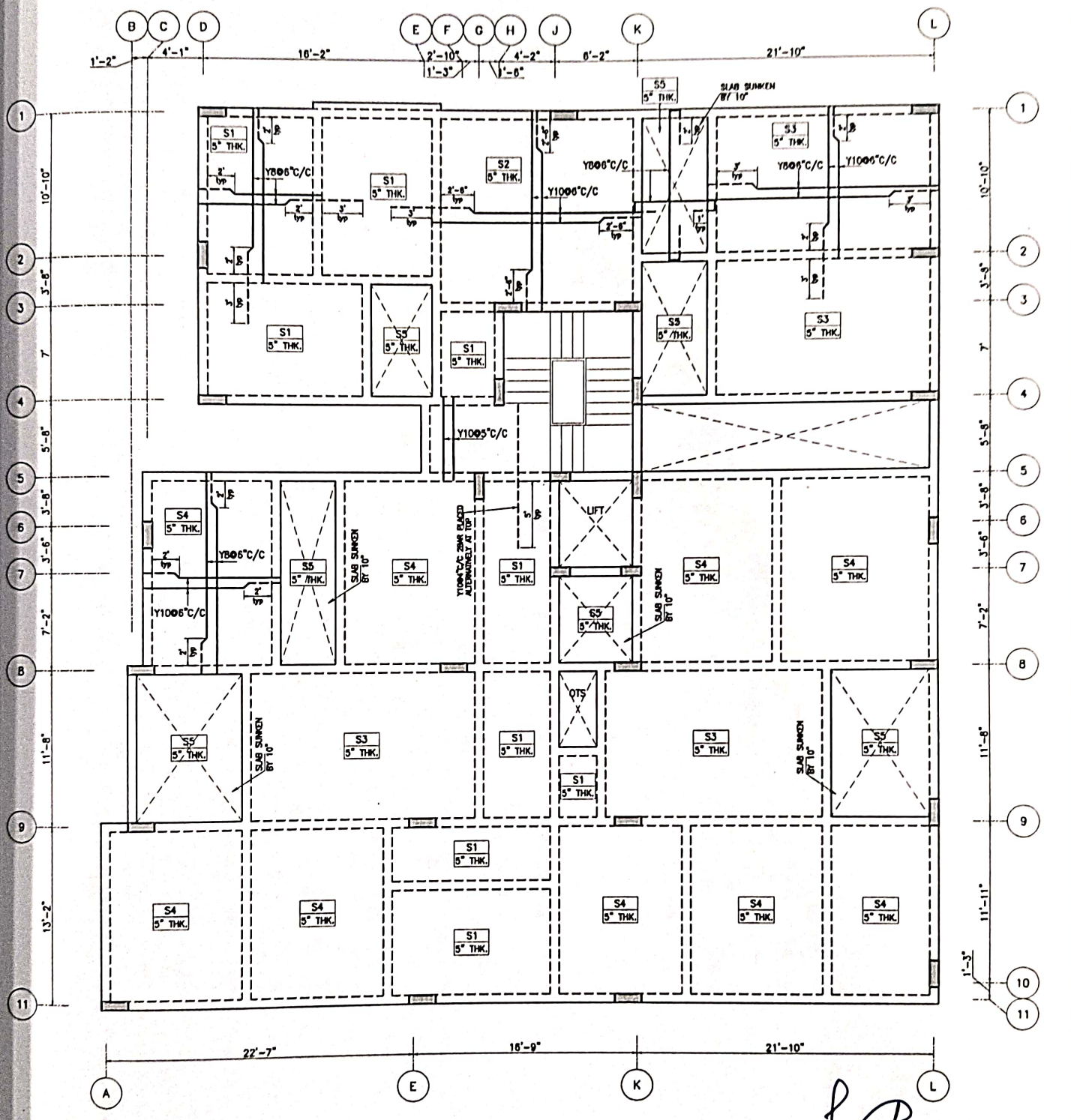


SECTION 2-2

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	29/04/2024		TBN	29/04/2024		R0	
PROPOSED RESIDENTIAL AT MUGAPPAIR				CLIENT: KAIZEN BUILDERS		CONSULTANT: KURAL ASSOCIATES			
LAYOUT OF REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAMS									

R0	GOOD FOR CONSTRUCTION	29/04/2024	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 SECOND FLOOR ROOF SLAB

NOTE:
Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented 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
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: 13 (A3 SHEET)
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	29-04-2024		TBN	29-04-2024		R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

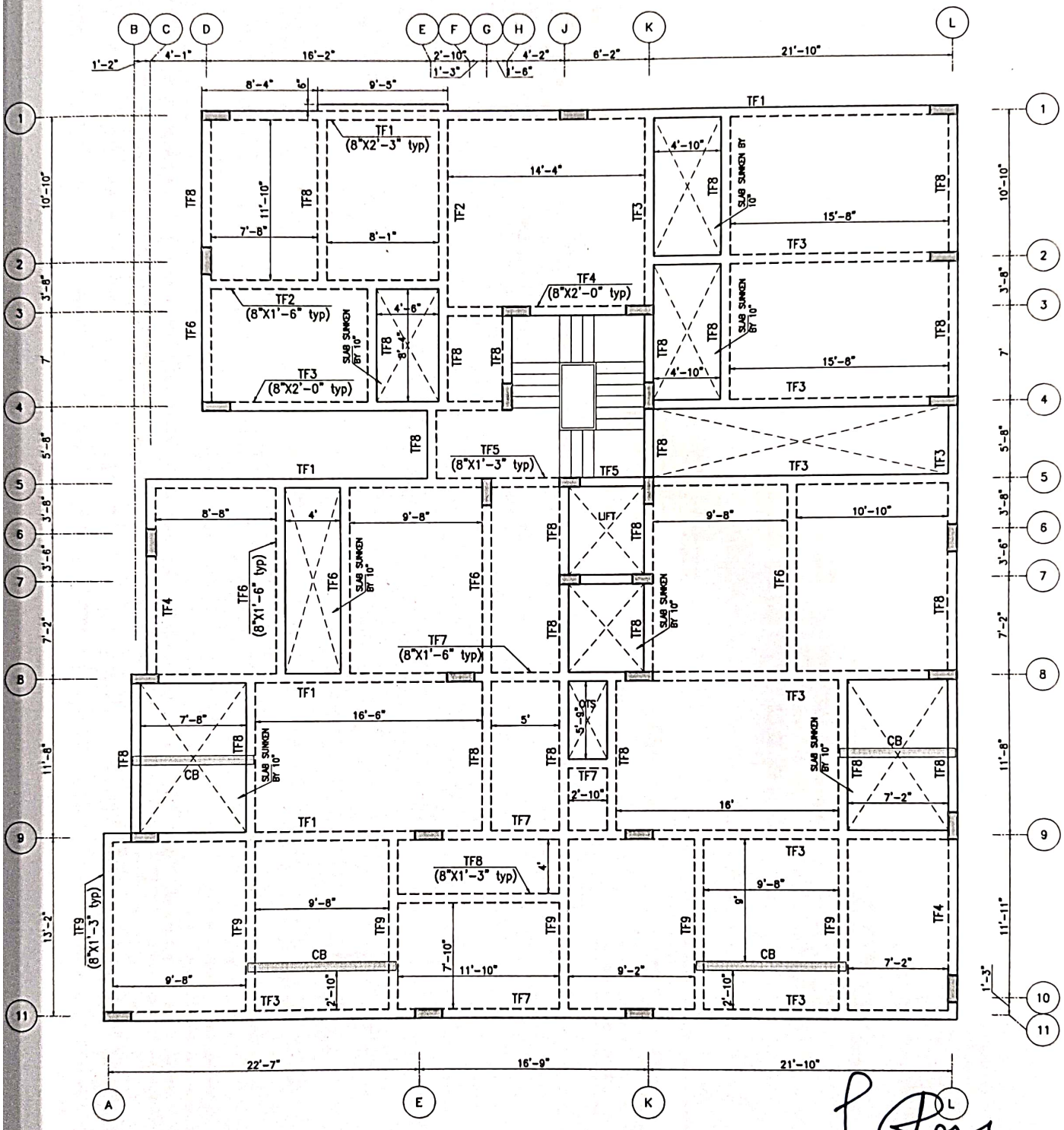
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF SLAB

CLIENT: KAIZEN BUILDERS

KURAL ASSOCIATES
Perception to Execution
NO.3/1317, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42846312, MOB:9791776685.
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Madhanandhapuram, Porur, Chennai-125.
Mob.9791776685 / Tel No:044-49070563

R0	GOOD FOR CONSTRUCTION	29/04/2024 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)
KURAL ASSOCIATES

LAYOUT OF SECOND FLOOR ROOF BEAM

...m column junction and main beam –
...ondary beam junctions must be reinforced as per
...scellaneous details presented in sheet–26.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and
...ttom reinforcement at support.
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 are in Feets and Inches				Sheet: 14 (A3 SHEET)	
Designed by	Sign	Checked by	Sign	Approved by	Sign	Revision	
TBN		TBN		TBN		R0	
		29-04-2024		29-04-2024			

PROPOSED RESIDENTIAL AT MUGAPPAIR

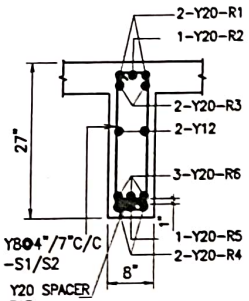
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAM

CLIENT: KAIZEN BUILDERS

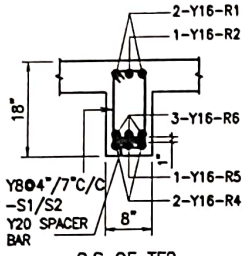
CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776683. Email:kuralassociates.engineers@gmail.com

No. 3/1517, Mugalivakkam Main Road, Madhanandapuram, Chennai-600125. Ph: 044-42864312, 9791776683

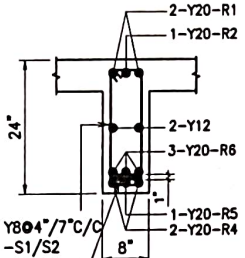
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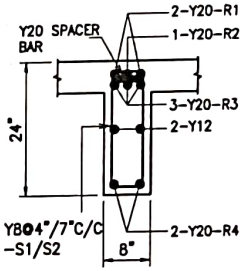
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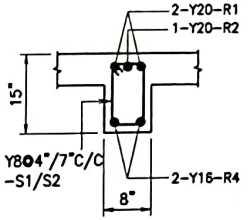
C.S OF TF2
[8"X1'-6"]



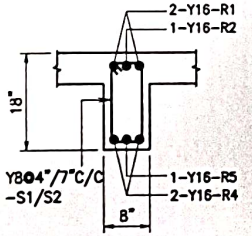
C.S OF TF3
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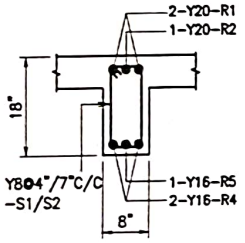
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[8"X2'-0"]



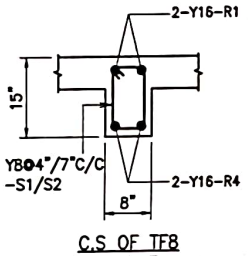
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[8"X1'-3"]



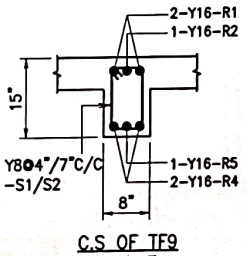
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[8"X1'-6"]



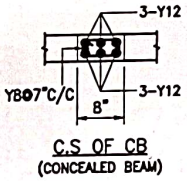
C.S OF TF7
[8"X1'-6"]



C.S OF TF8
[8"X1'-3"]



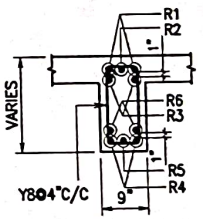
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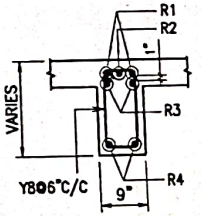
C.S OF CB
(CONCEALED BEAM)

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

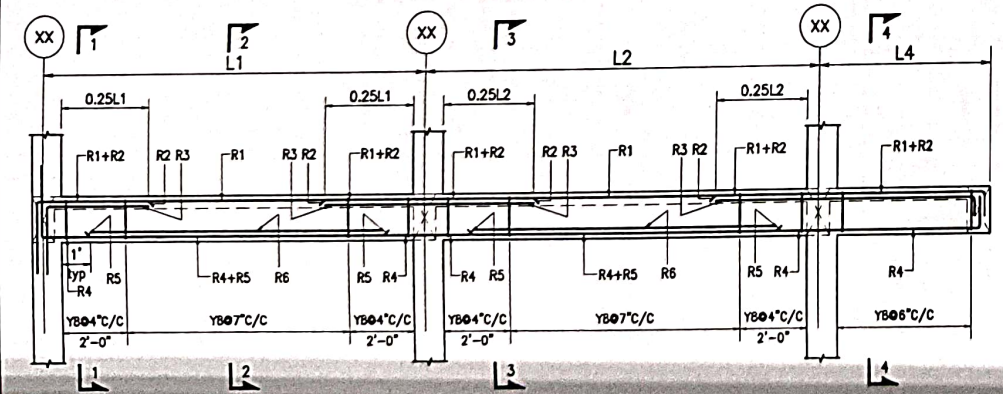
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/156) &(SE/GR-III/19/04/036)
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Mob:9791776685 / Tel No:044-79670563



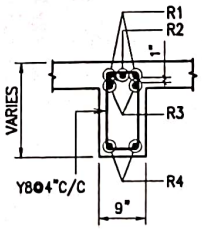
SECTION 3-3



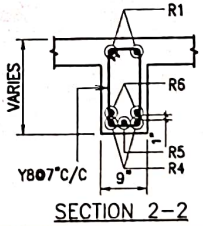
SECTION 4-4



TYPICAL FLOOR BEAM DETAILS



SECTION 1-1



SECTION 2-2

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

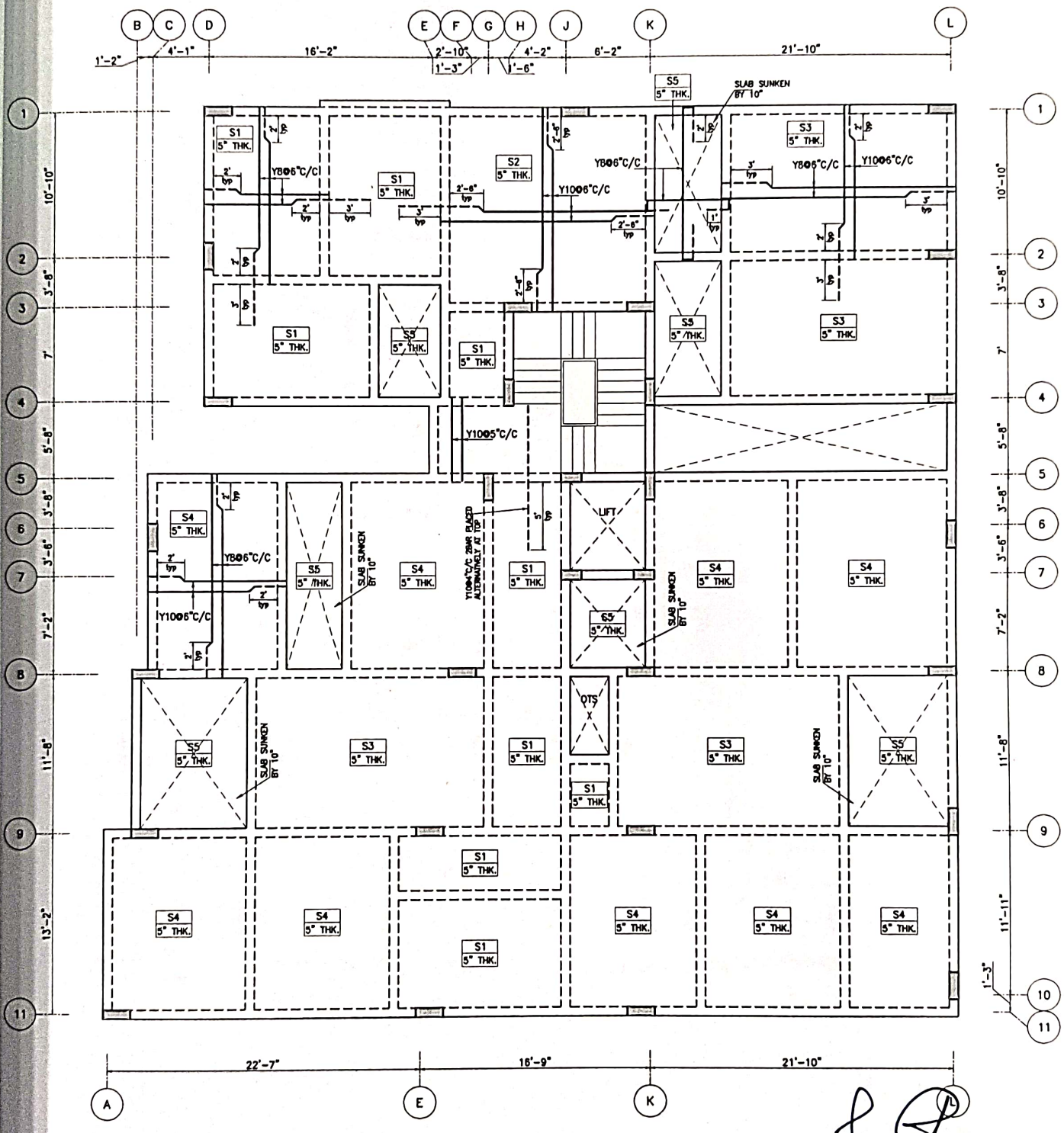
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Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision	
TBN		TBN	29/04/2024		TBN	29/04/2024		R0	

PROPOSED RESIDENTIAL AT MUGAPPAIR

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	29/04/2024	TBN



LAYOUT OF THIRD FLOOR ROOF SLAB

T.BHARANIDHARAN.M.E.,C.Eng.
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NO.3/1517,Mugalivakkam Main Road,
Madhanandapuram, Porur, Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

ink length for slabs with typical reinforcements
ll be made as per the miscellaneous details
sented 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: 16 (A1 SHEET)	
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TBN		TBN	Date 29-04-2024	TBN	Date 29-04-2024		R0

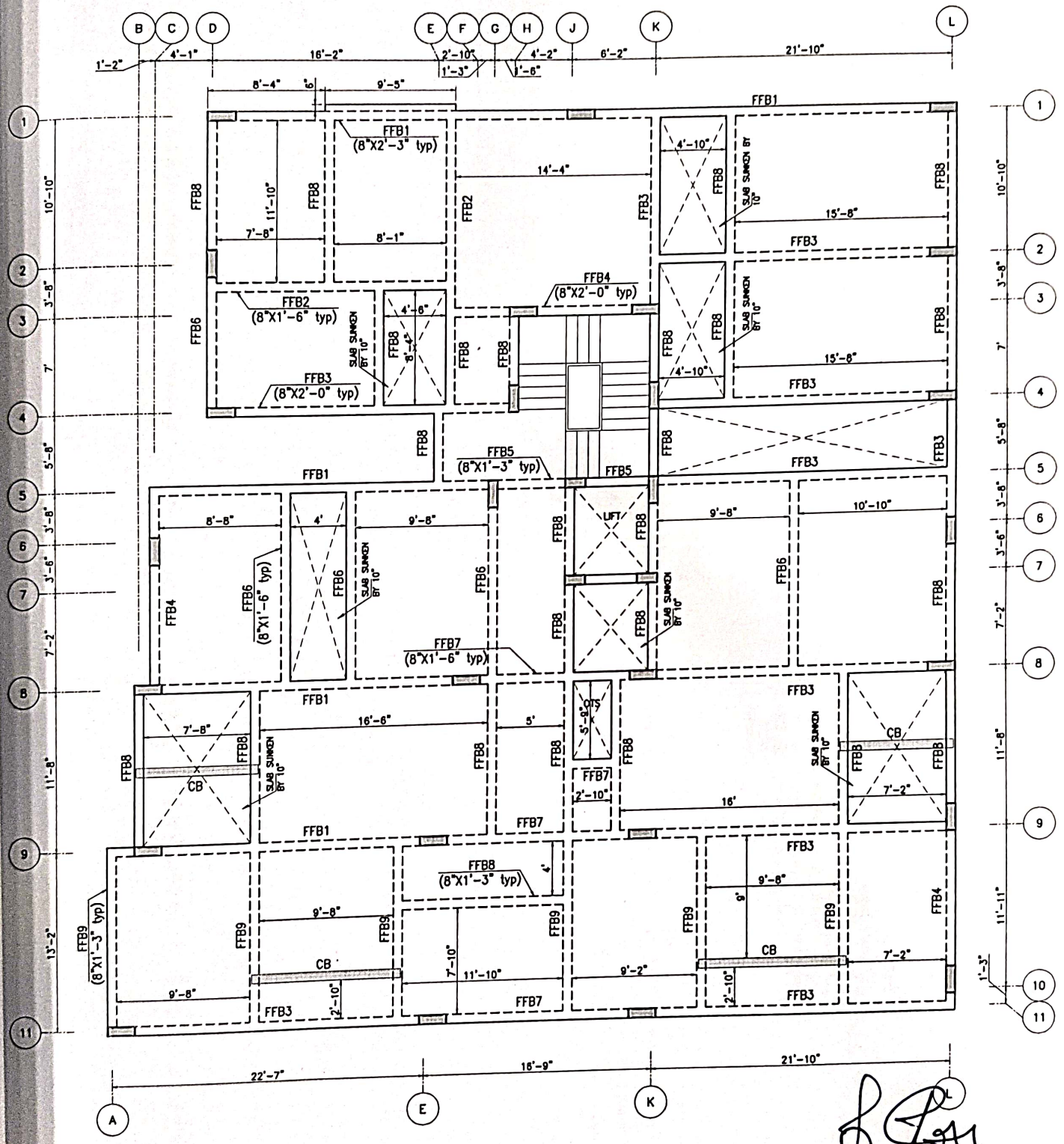
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

CLIENT:
KAIZEN BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866512, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	29/04/2024	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)
KURAL ASSOCIATES

LAYOUT OF THIRD FLOOR ROOF BEAM

m column junction and main beam –
ondary beam junctions must be reinforced as per
cellaneous details presented in sheet–26.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and
om 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 Feets and Inches		Sheet no / (A3 SHEET)
Designed by	Sign	Checked by	Approved by	Date / Revision
TBN		TBN	TBN	29-04-2024 / R0

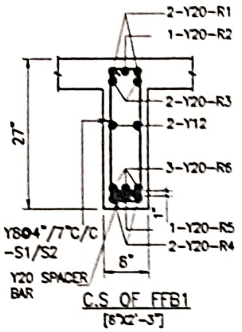
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAM

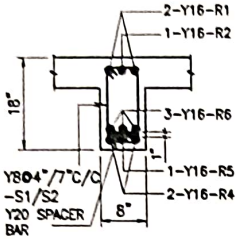
CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
Partnership for Innovation
NO.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-125, PH:044-42843212, MOB: 9791776685 / 9677056
Email:kuralassociates.engineers@gmail.com

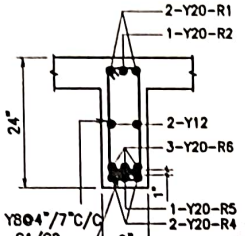
R0	FOR APPROVAL	29/04/2024	TBN



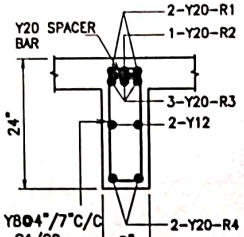
C.S OF FFB1
[8"X2'-3"]



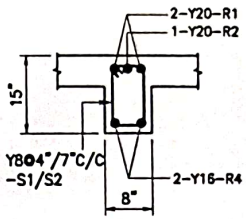
C.S OF FFB2
[8"X1'-6"]



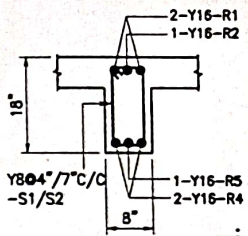
C.S OF FFB3
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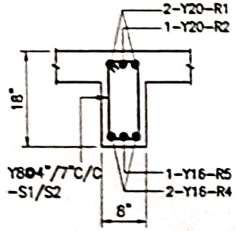
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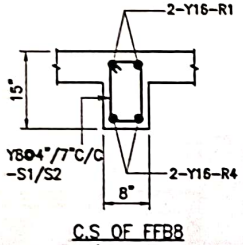
C.S OF FFB5
[8"X1'-3"]



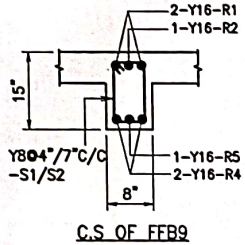
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[8"X1'-6"]



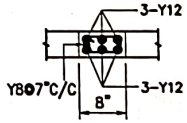
C.S OF FFB7
[8"X1'-6"]



C.S OF FFB8
[8"X1'-3"]



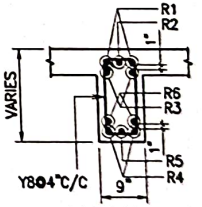
C.S OF FFB9
[8"X1'-3"]



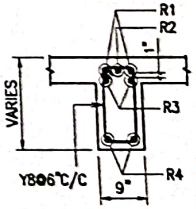
C.S OF CB
(CONCEALED BEAM)

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

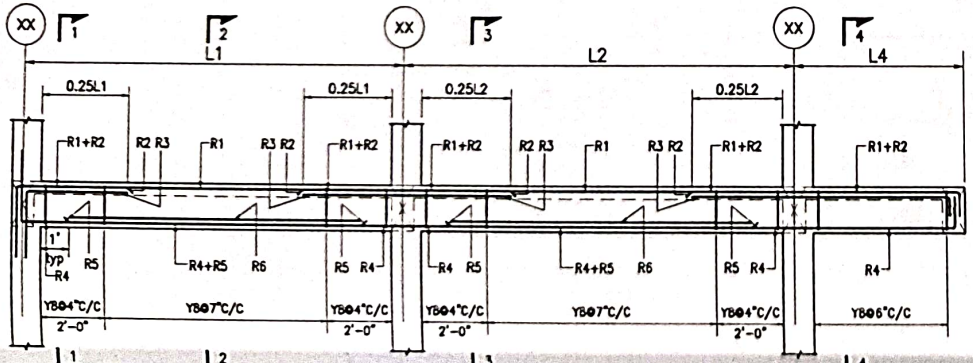
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-II/19/05/160 &(SE/GR-II/19/04/036)
KURAL ASSOCIATES
No.3/1517,Muganivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791777815 / Tel:NO:044-65070503



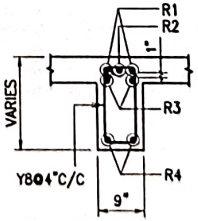
SECTION 3-3



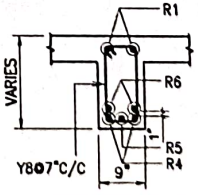
SECTION 4-4



TYPICAL FLOOR BEAM DETAILS



SECTION 1-1



SECTION 2-2

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

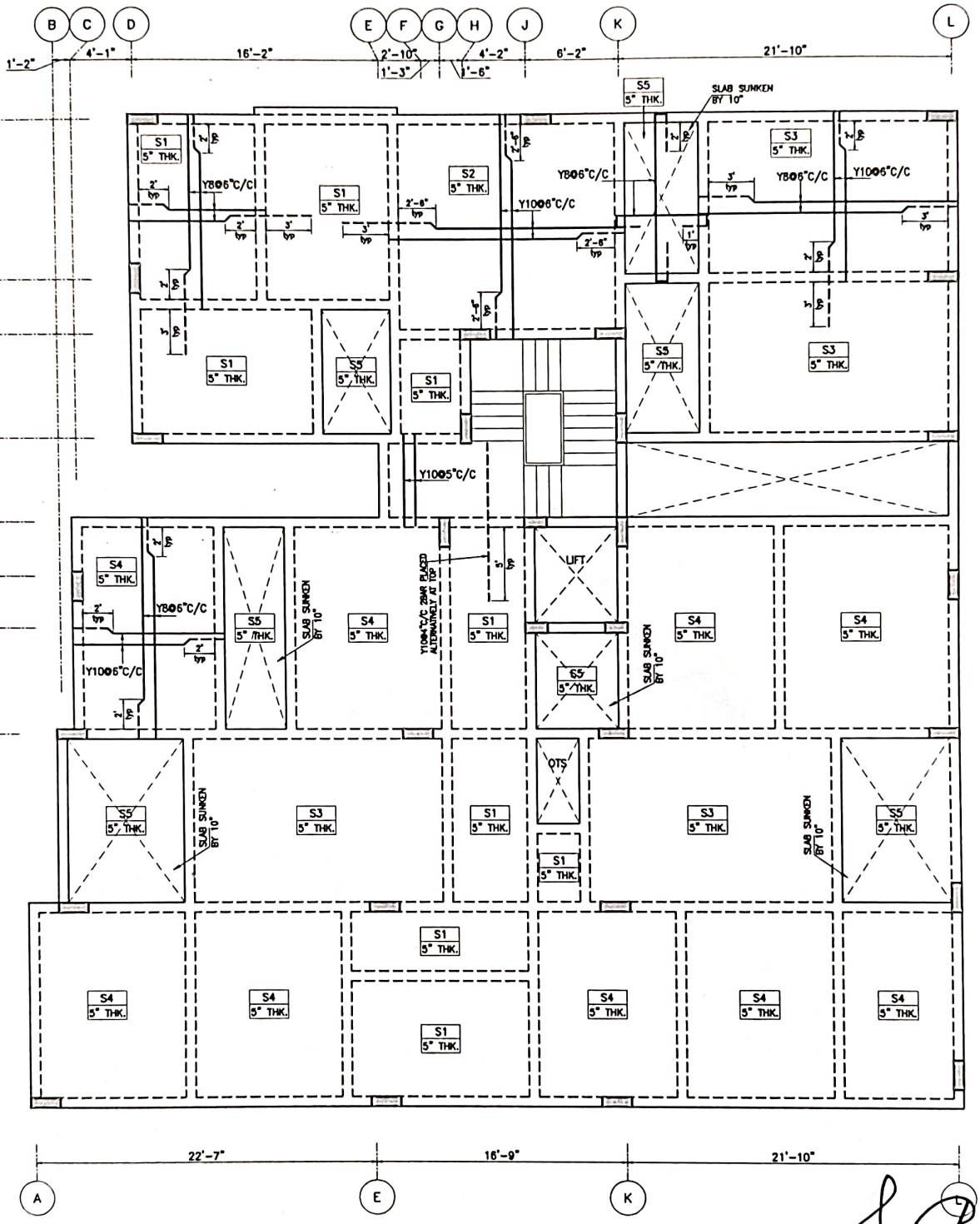
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Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	29/04/2024		TBN	29/04/2024		R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	29/04/2024	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)
KURAL ASSOCIATES
NO.3/1517, Main Road,

LAYOUT OF FOURTH FLOOR ROOF SLAB

ink length for slabs with typical reinforcements
all be made as per the miscellaneous details
sented 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 No. 11 (A3 SHEET)	
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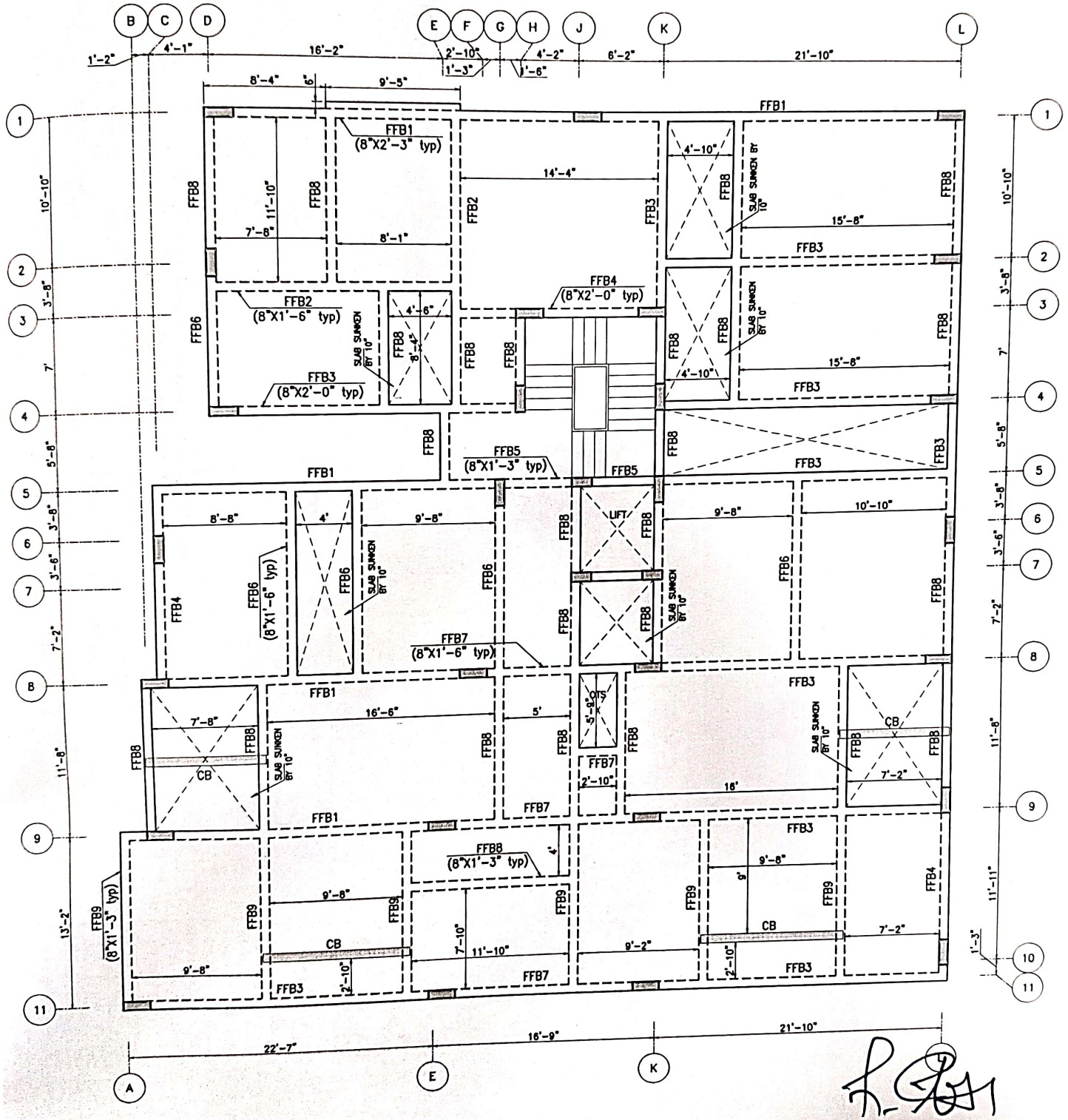
PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF SLAB

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776683.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	29/04/2024	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 FOURTH 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

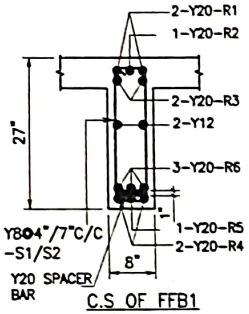
LEGEND
ℓ : CENTRE LINE
F.B : GROUND FLOOR
S1 : SLAB–1
TYP. : TYPICAL
× : COLUMN TERMINATED
⊠ : SUNKEN SLAB
THK. : THICKNESS OF SLAB

JOB NO: KAAF0001		All dimensions are in Feets And Inches		Approved by	Sign
Designed by	Sign	Checked by	Date	Drawn by	Revision
TBN		TBN	29/04/2024	TBN	R0

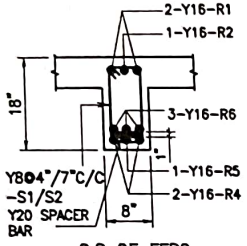
PROPOSED RESIDENTIAL AT MUGAPPAIR
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAM
CLIENT: KAIZEN BUILDERS

KURAL ASSOCIATES
No.3/1517,Mugaliyakkam Main Road,Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / ph:044-79670663
Emailkuralassociates.engineers@gmail.com

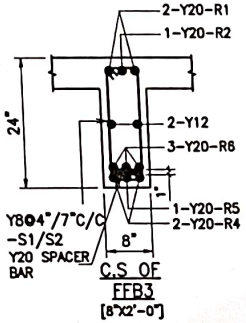
R0	FOR APPROVAL	29/04/2024	TBN		



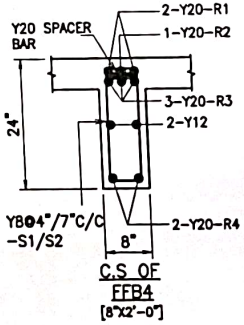
C.S OF FFB1
[8"X2'-3"]



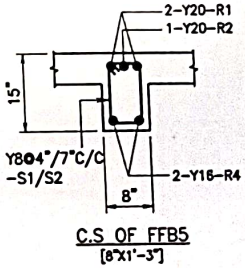
C.S OF FFB2
[8"X1'-6"]



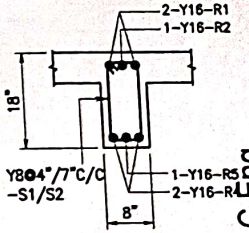
C.S OF FFB3
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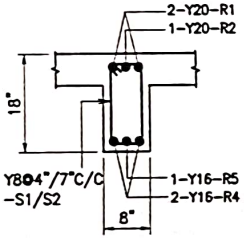
C.S OF FFB4
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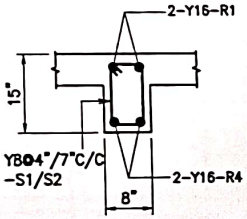
C.S OF FFB5
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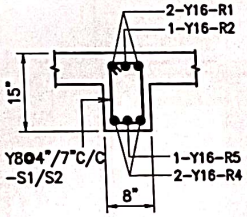
C.S OF FFB6
[8"X1'-6"]



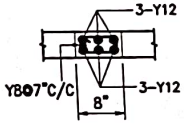
C.S OF FFB7
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C.S OF FFB8
[8"X1'-3"]



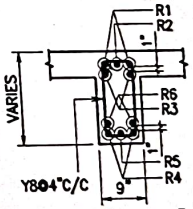
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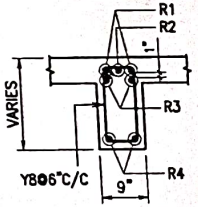
C.S OF CB
(CONCEALED BEAM)

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

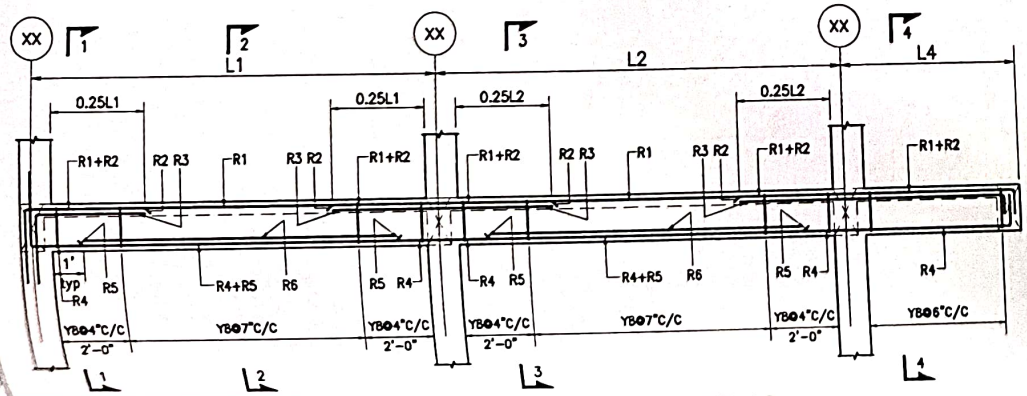
T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)
KURAL ASSOCIATES
No.3/1517,Mugaliwakkam Main Road,
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Mob:9791776605 / Tel NO:044-26570563



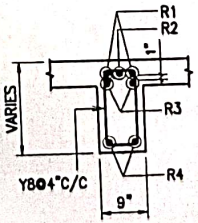
SECTION 3-3



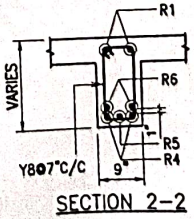
SECTION 4-4



TYPICAL FLOOR BEAM DETAILS



SECTION 1-1



SECTION 2-2

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	29/04/2024		TBN	29/04/2024		R0

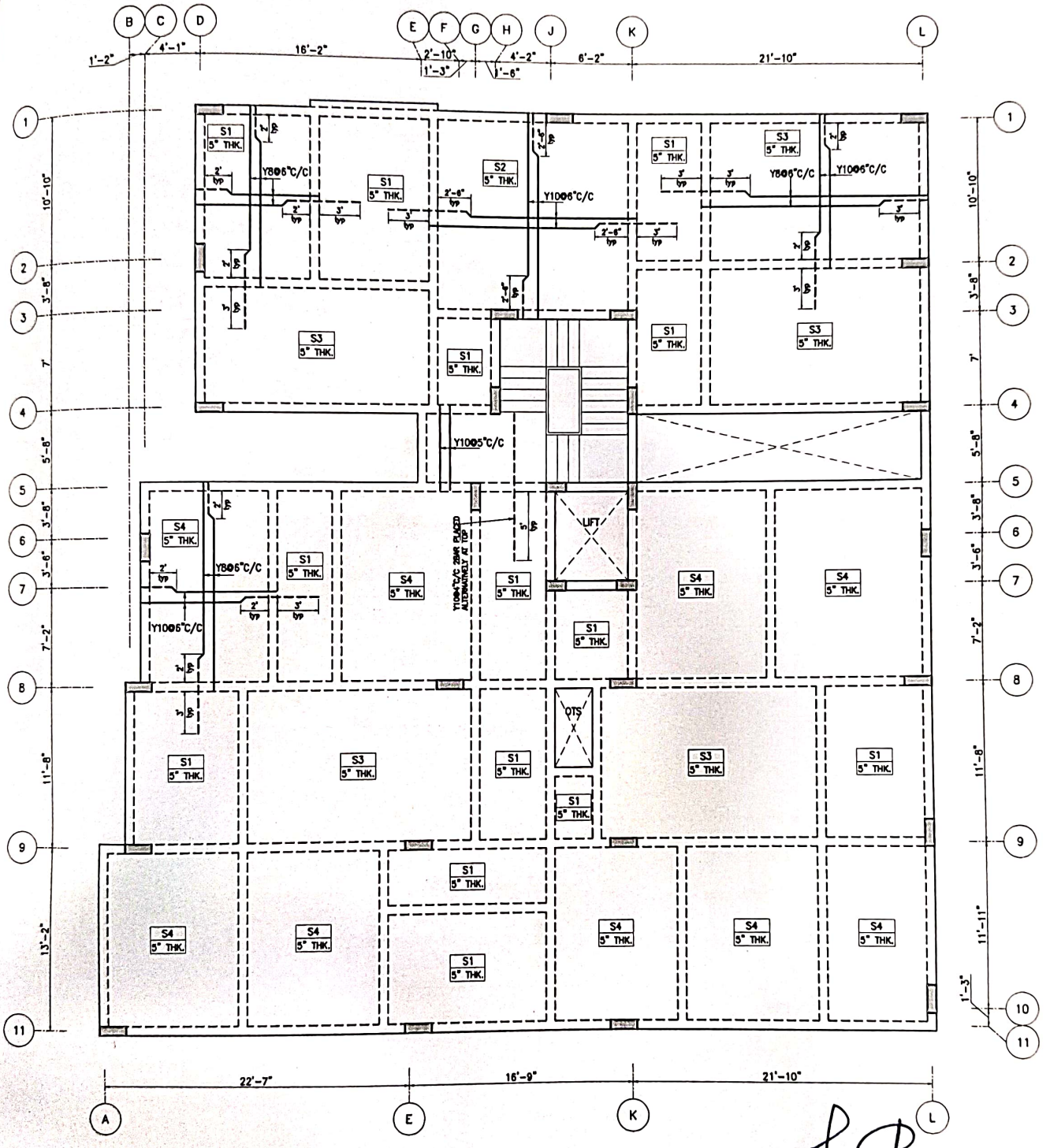
PROPOSED RESIDENTIAL AT MUGAPPAIR

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

LAYOUT OF REINFORCEMENT DETAILS OF

R0	GOOD FOR CONSTRUCTION	29/04/2024	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)
KURAL ASSOCIATES

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			Sheet: 22 (A3 SHEET)
Designed by: TBN	Sign	Checked by: TBN	Date: 29-04-2024	Approved by: TBN	Sign	Date: 29-04-2024	Revision: R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

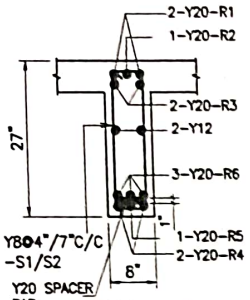
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF SLAB

CLIENT: KAIZEN BUILDERS

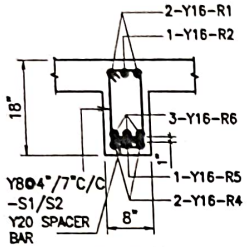
CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1317, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-123. PH:044-42863312, MOB:9791776685
Email:kuralassociates.engineers@gmail.com

No.3/1317, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-600125. Mob:9791776685 / Tel No:04442863312 / 9790670563

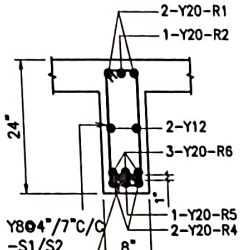
R0	FOR APPROVAL	29/04/2024	TBN



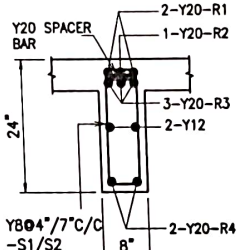
C.S OF RB1
[8"X2'-3"]



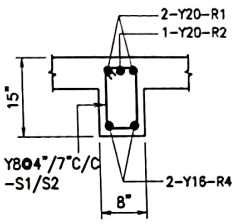
C.S OF RB2
[8"X1'-6"]



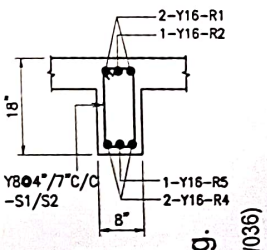
C.S OF RB3
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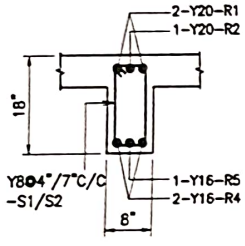
C.S OF RB4
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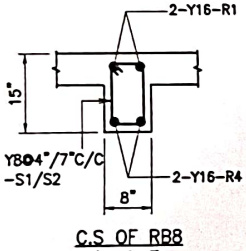
C.S OF RB5
[8"X1'-3"]



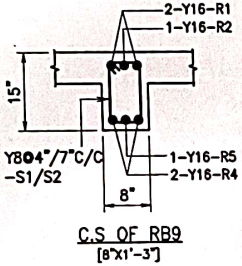
C.S OF RB6
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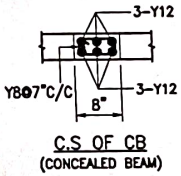
C.S OF RB7
[8"X1'-6"]



C.S OF RB8
[8"X1'-3"]



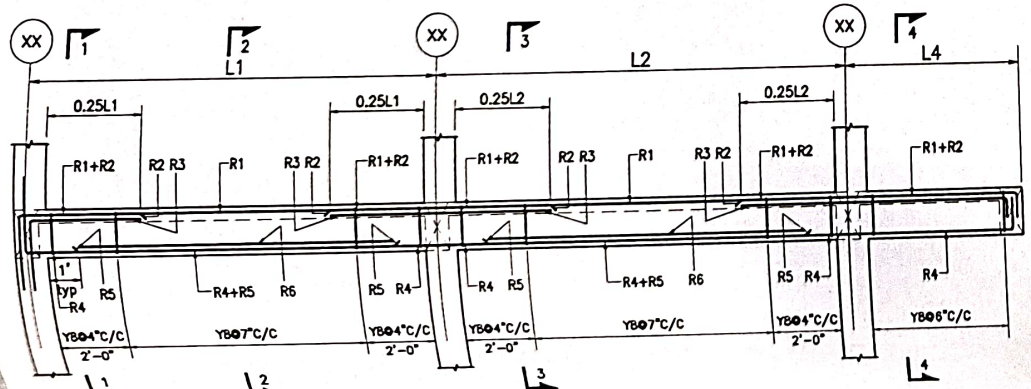
C.S OF RB9
[8"X1'-3"]



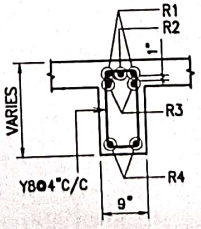
C.S OF CB
(CONCEALED BEAM)

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

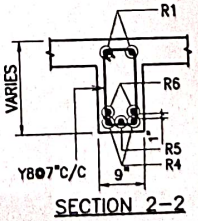
T.BHARANIDHARAN.M.E.,C.Eng.
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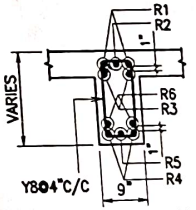
TYPICAL FLOOR BEAM DETAILS



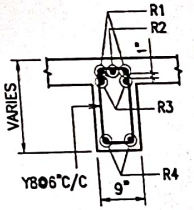
SECTION 1-1



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: 24 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	29/04/2024		TBN	29/04/2024		R0

PROPOSED RESIDENTIAL AT MUGAPPAIR

LAYOUT OF REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAMS

CLIENT: KAIZEN BUILDERS

CONSULTANT: KURAL ASSOCIATES

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



our services doesn't just end there

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Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

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Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

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