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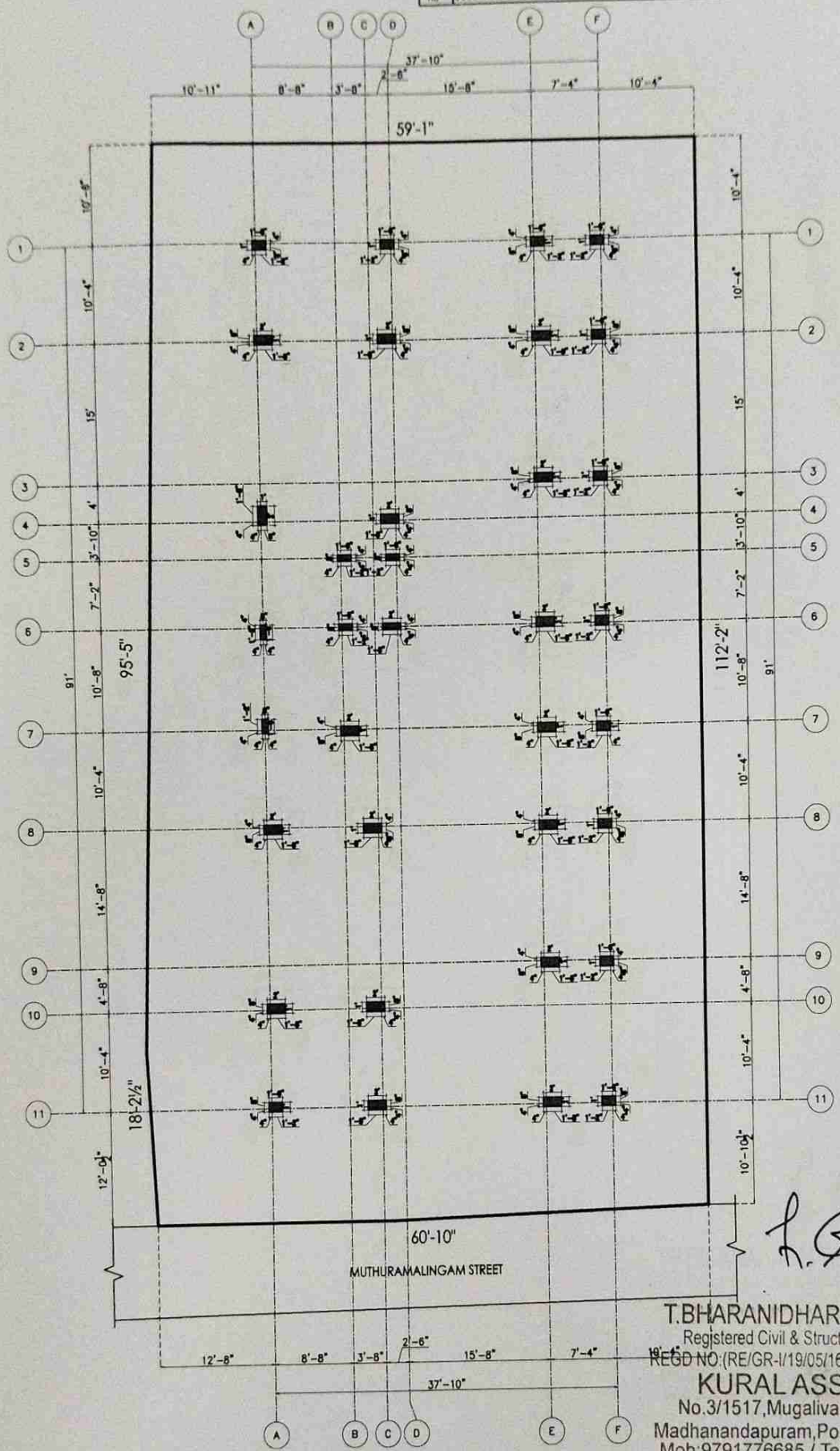
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R0	GOOD FOR CONSTRUCTION	14-10-2024 TBN



LAYOUT OF COLUMN SETTING OUT PLAN

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 1 (A3 SHEET)		
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision	
TBN		TBN	14-10-2024		TBN	14-10-2024		R0	

LEGENDS
- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

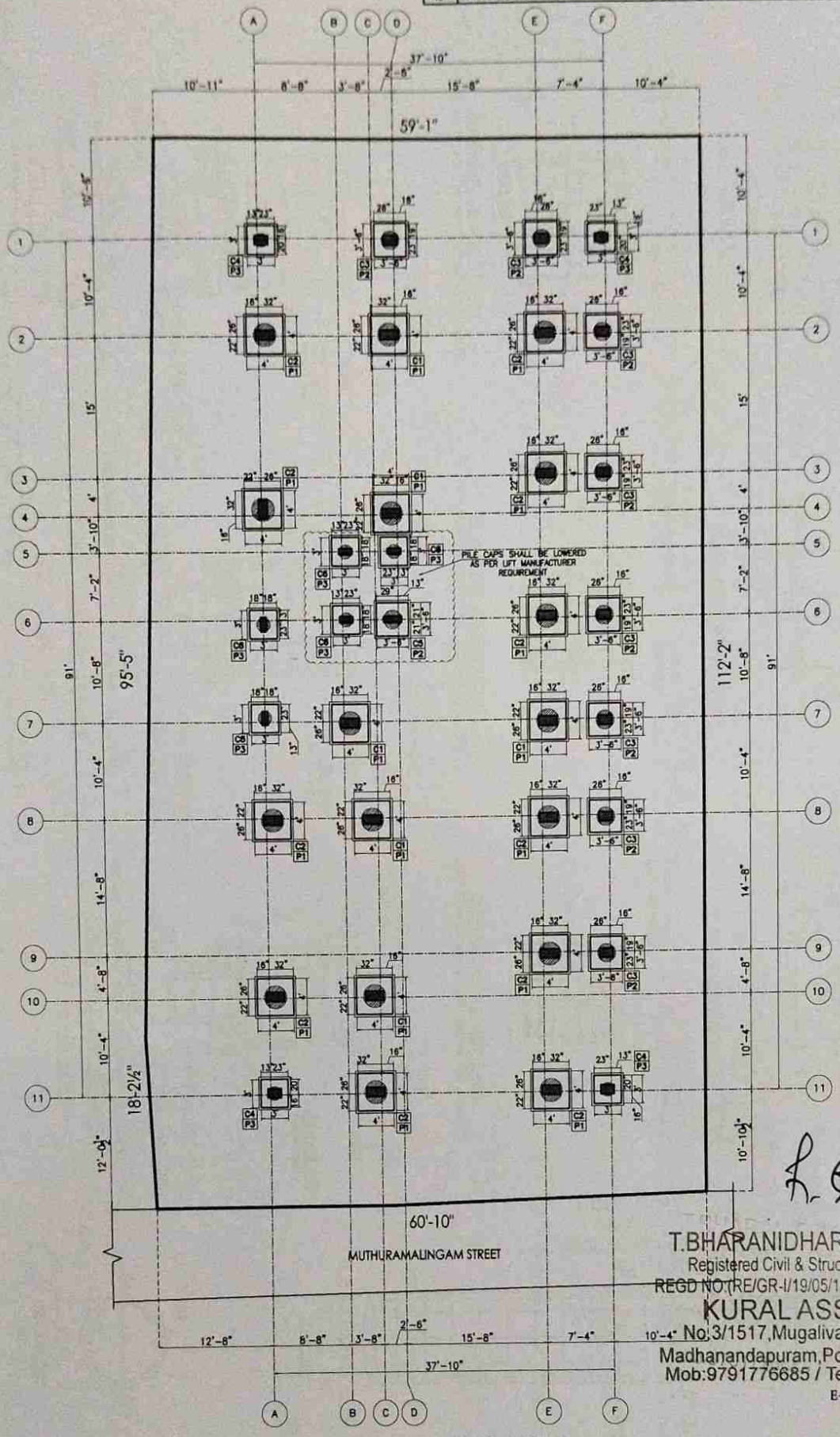
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF COLUMN SETTING OUT PLAN

CLIENT:
EVERRIZE BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandapuram, Porur, Chennai-125. PH:044-42566312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	14-10-2024 TBN



LAYOUT OF PILES AND PILE CAPS

T.BHARANIDHARAN.M.E.,C.Eng.
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REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/086)
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Mob:9791776685 / Tel No:044-79670563

JOB NO: KAAF0001		All dimensions are in Feets and Inches				Sheet: 2 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

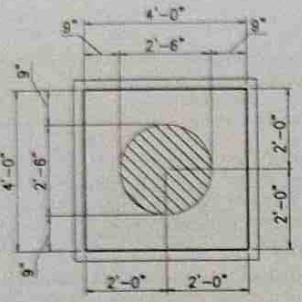
LEGENDS
- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

PROPOSED RESIDENTIAL AT SALIGARAMAM

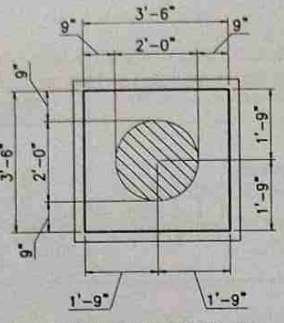
LAYOUT OF PILES AND PILE CAPS

CLIENT: EVERRIZE BUILDERS

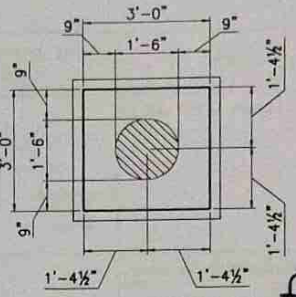
CONSULTANT: KURAL ASSOCIATES



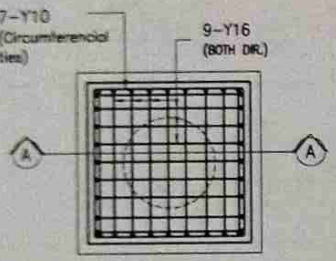
PLAN–DIMENSIONS–P1



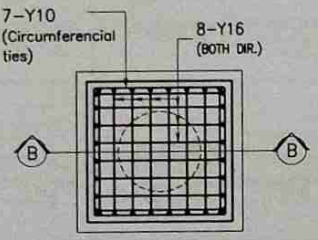
PLAN–DIMENSIONS–P2



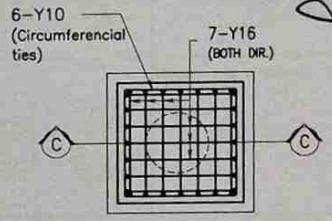
PLAN–DIMENSIONS–P3



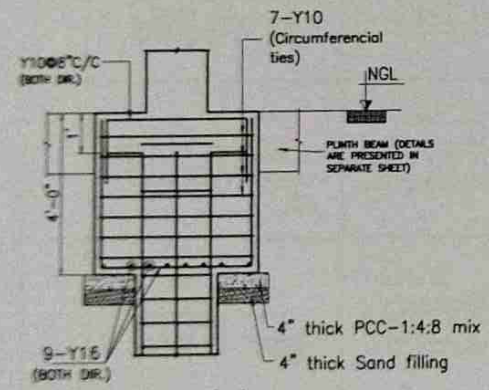
PLAN–REINFORCEMENTS–P1
(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



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

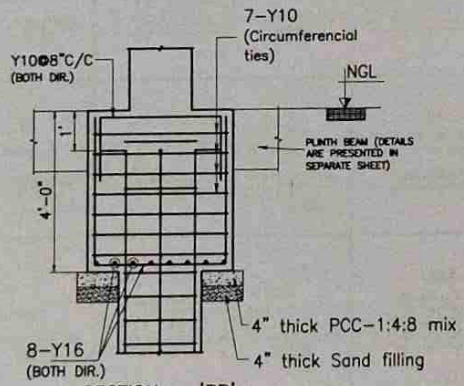


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(TOP REINFORCEMENT NOT SHOWN FOR CLARITY)



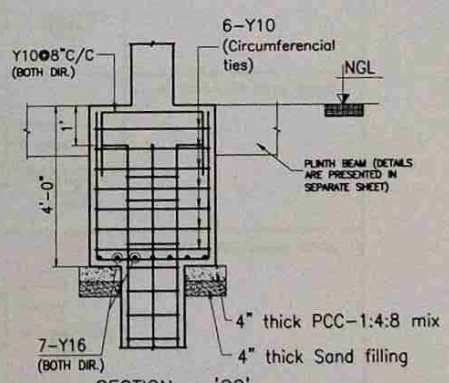
SECTION – 'AA'
(COLUMN REINFORCEMENTS NOT SHOWN FOR CLARITY)

TYPICAL PILE CAP DETAILS
FOR P1–(17 NOS)



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

TYPICAL PILE CAP DETAILS
FOR P2–(9 NOS)



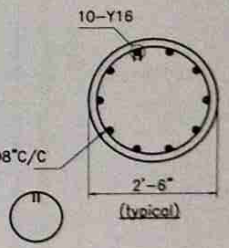
SECTION – 'CC'
(COLUMN REINFORCEMENTS NOT SHOWN FOR CLARITY)

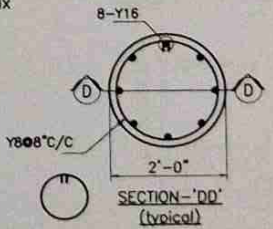
TYPICAL PILE CAP DETAILS
FOR P3–(9 NOS)

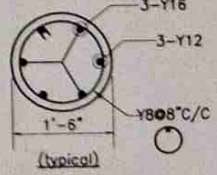
T.BHARANIDHARAN.M.E.,C.Eng.,
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KURAL ASSOCIATES
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Madhanandapuram, Ponur Chennai-600 125.
Mob:9791776685 / Tel No:044-79670563



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







Sheet:3 (A2 SHEET)					
All dimensions are in Feets and Inches				Revision	R1
Checked by	Date	Sign	Approved by	Date	14/10/2024
TBN	14/10/2024		TBN	Sign	
CLIENT: EVERRIZE BUILDERS					
PROPOSED RESIDENTIAL AT SALIGRAMAM					
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF PILE CAPS					
JOB NO: KAAP0001					
Designed by	Sign				
TBN					

KURAL ASSOCIATES
Structural & Architectural Consultants
NO.3/1517, Mugalivakkam Main Road,Madhanandapuram, Ponur, Chennai-125. PHONE:+(044)-24843172, MOB:9791776685.
Email:kuralassociates.engineer@gmail.com

14/10/2024 TBN
R1 GOOD FOR CONSTRUCTION

GENERAL NOTES:-

1. All dimension 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:

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

7. Pile capacity as per geotechnical report is taken as
for 750mm pile = 160tons
600mm pile = 120tons
450mm pile = 75tons

PILE CAPS ARE DESIGNED ONLY FOR S+5 FLOORS.

MATERIAL STRENGTH

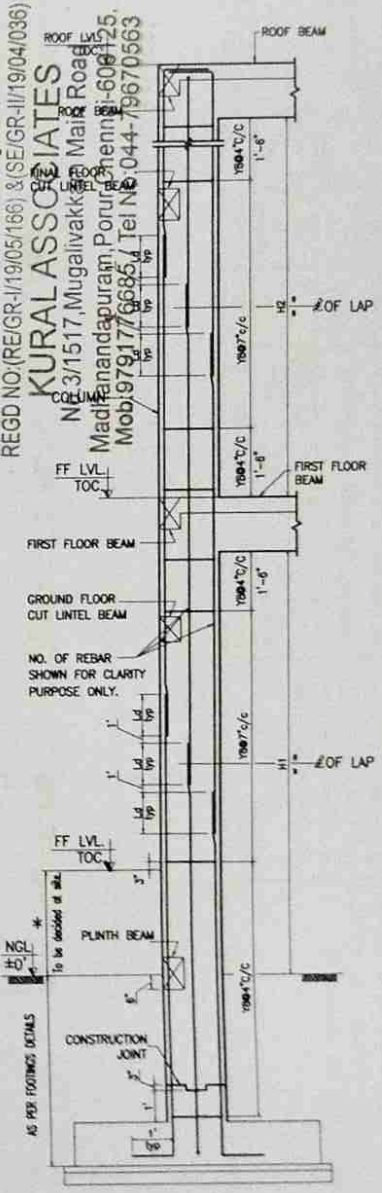
I. Grade of concrete - M30

II. Grade of steel - fe 500

R0	FOR APPROVAL			14/10/2024	TBN

COLUMN NO.	NOS.	FROM FOUNDING LEVEL TO GROUND FLOOR ROOF LEVEL	FROM GROUND FLOOR ROOF LEVEL TO FIRST FLOOR ROOF LEVEL	FROM FIRST FLOOR ROOF LEVEL TO SECOND FLOOR ROOF LEVEL	FROM SECOND FLOOR ROOF LEVEL TO TERRACE LEVEL	REMARKS
C1	6	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y20 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C2	11	2'-0" 'a'-4-Y16 'b'-6-Y16 'c'-2-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C3	8	1'-6" 'a'-4-Y16 'b'-4-Y16 'c'-2-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y16 'b'-4-Y16 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C4	4	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C5	1	2'-0" 'a'-4-Y20 'b'-6-Y16 'c'-2-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y20 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y16 'S1'-Y8@4"/7"C/C*	2'-0" 'a'-4-Y16 'b'-6-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C6	5	1'-6" 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	1'-6" 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/7"C/C*	COLUMNS SHALL BE TERMINATED TERRACE LEVEL

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



Typical column details.

GENERAL NOTES:-

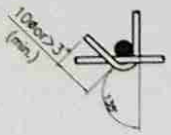
1. All dimension are in feet & inches.
2. Structural consultant not responsible for deviation of any structural details
3. All laps should be staggered. (50adia.)
4. Clear cover for
5. Any descripancies should be immediately

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

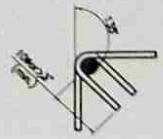
MATERIAL STRENGTH
(Grade of concrete - M30

FOOTINGS ARE DESIGNED ONLY FOR S+5 FLOORS.

As shown in Architectural drawing

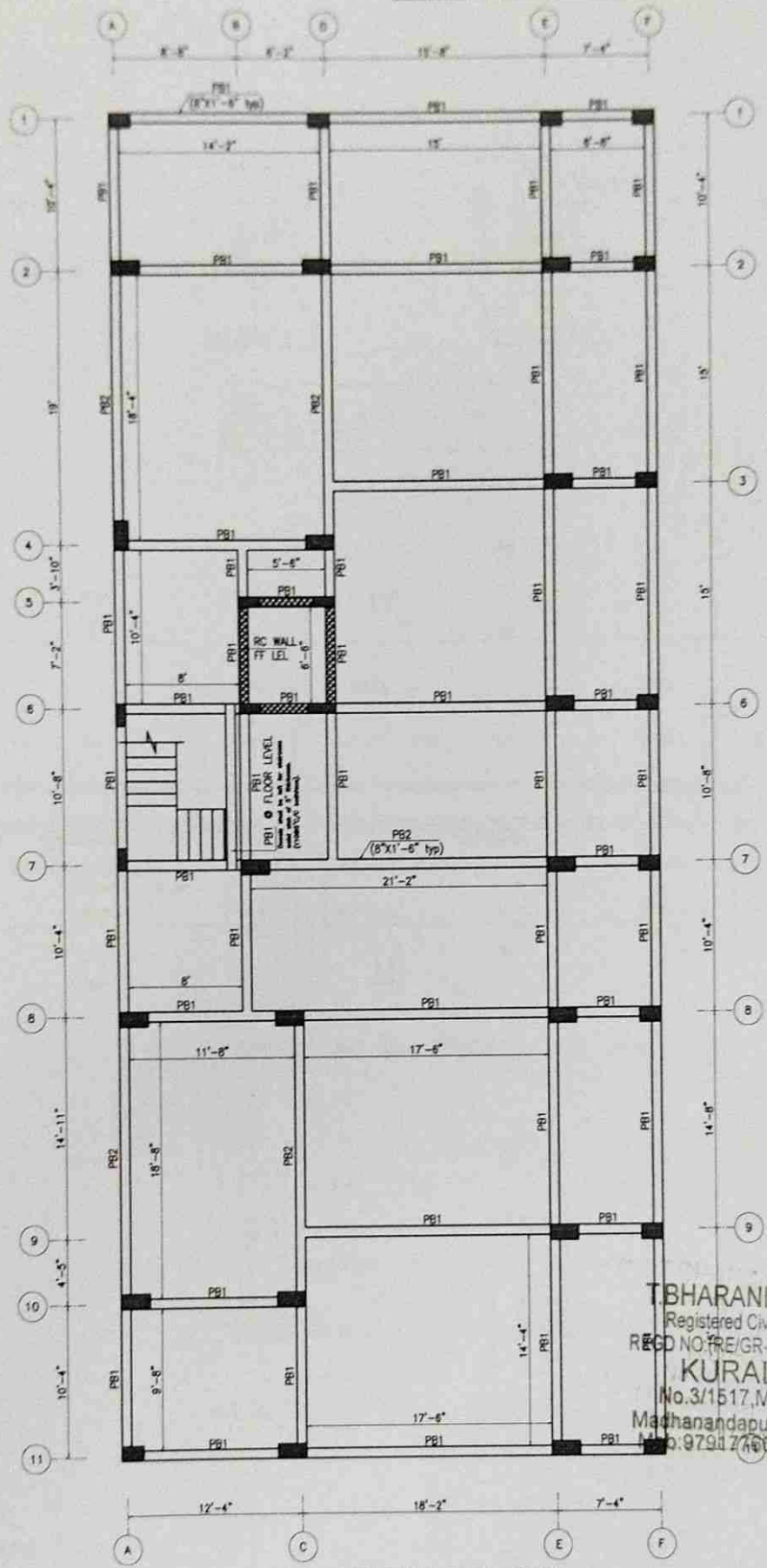


DETAIL-A (typ)



DETAIL-B (typ)

JOB NO. KAA/0001	All Dimensions are in feets and inches			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 14/10/2024	Filename	Date 14/10/2024 / Scale 1:6.4
PROPOSED RESIDENTIAL AT SALIGRAMAM		LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF COLUMNS		



LAYOUT OF PLINTH BEAMS AT NGL

T.BHARANIDHARAN.M.E.,C.Eng.
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Madhanandapuram,Porur,Chennai-600125
Mob:9791276685 / Tel No.044-79670563

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: KAAF0001		All dimensions are in Feets and Inches					Sheet: 3 (A1 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

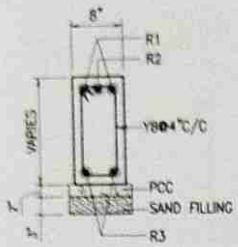
PROPOSED RESIDENTIAL AT SALIGARAMAM

CLIENT: EVERRIZE BUILDERS

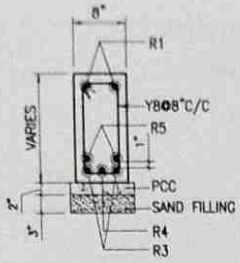
LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

SUBMITTED: KURAL ASSOCIATES

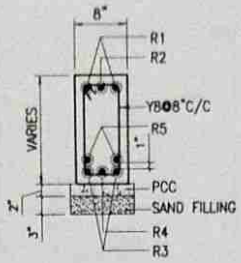
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



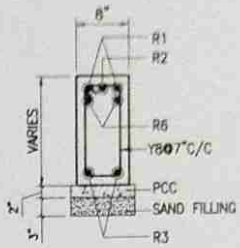
SECTION 1-1



SECTION 2-2

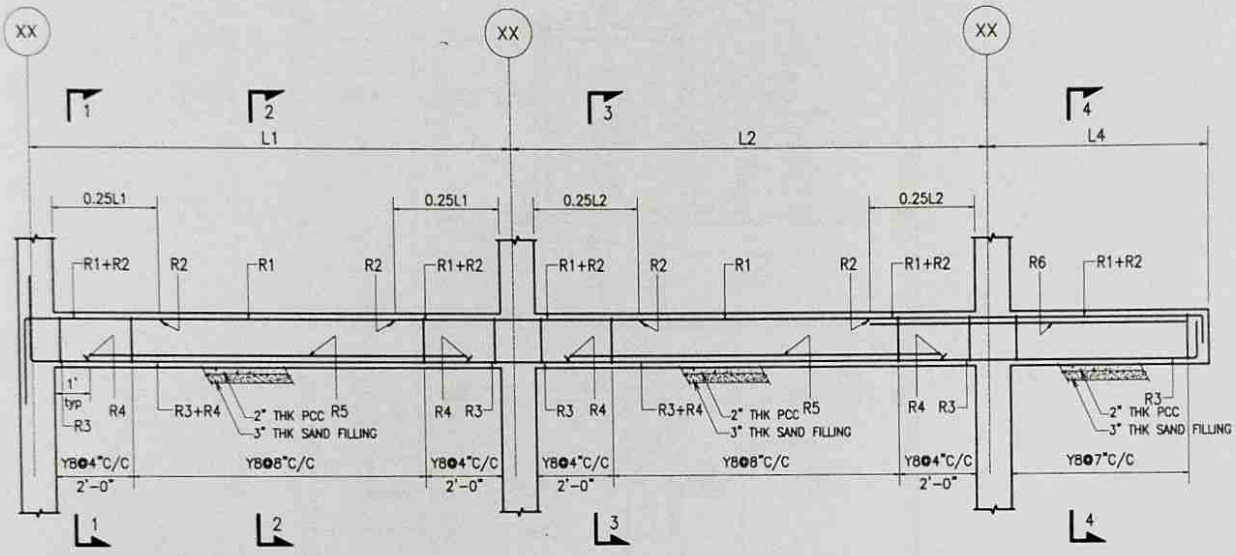


SECTION 3-3

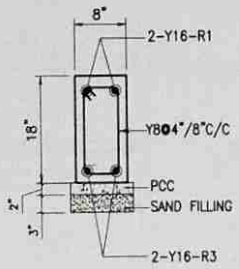


SECTION 4-4

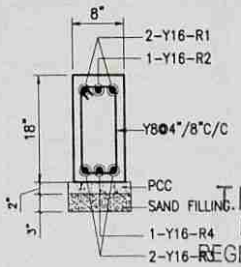
NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE.



TYPICAL PLINTH BEAM DETAILS



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



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

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Mob:9791776685 / Tel No:044-79670563

ATERIAL STRENGTH
Grade of concrete - M30
Grade of steel - fe 500

SEND
: 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: 6 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14/10/2024		TBN	14/10/2024		R0

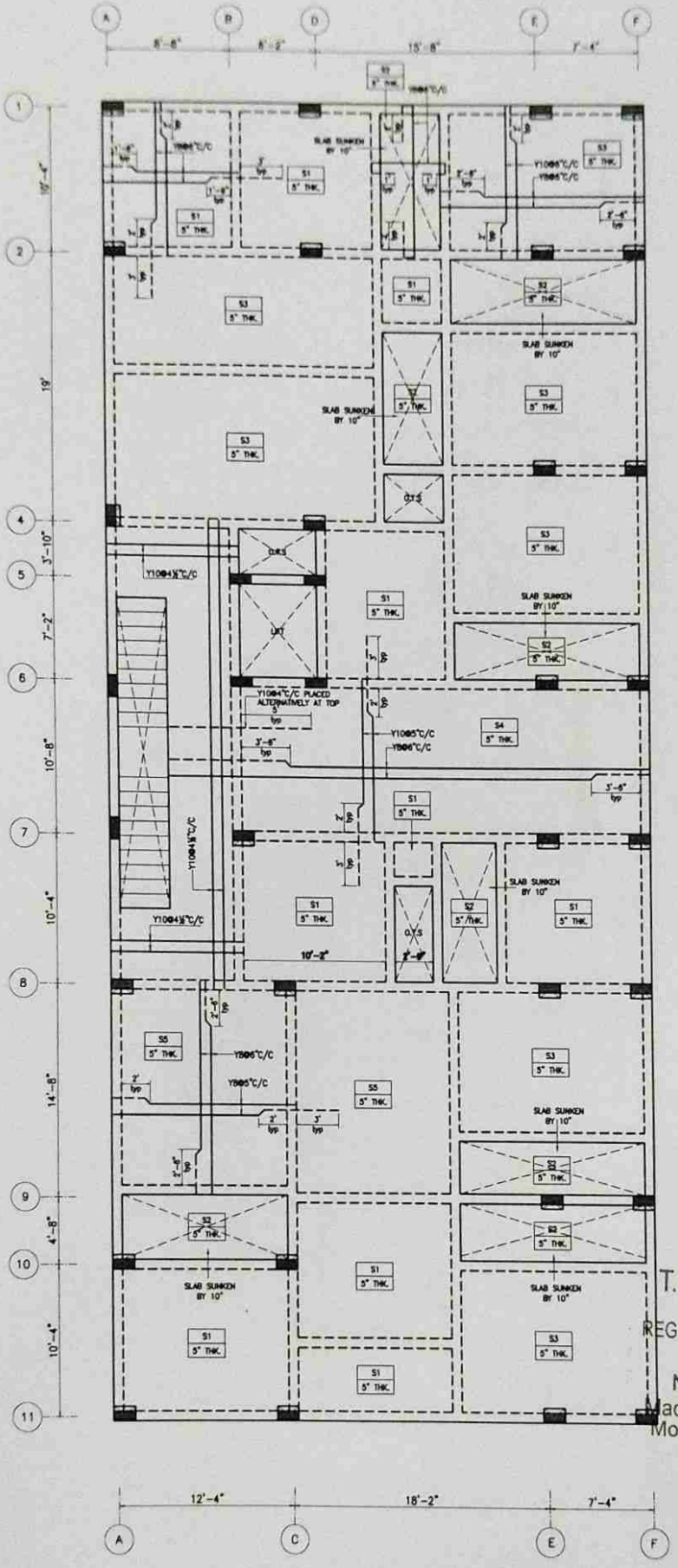
PROPOSED RESIDENTIAL AT SALIGARAMAM

CLIENT: EVERRIZE BUILDERS

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF GROUND FLOOR ROOF SLAB

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

NOTE:
Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
Clear cover = 15mm.
— Denotes top reinforcement of slab
— Denotes bottom reinforcement of slab
Lap length=50ϕ and all laps must be staggered

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

JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 7 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

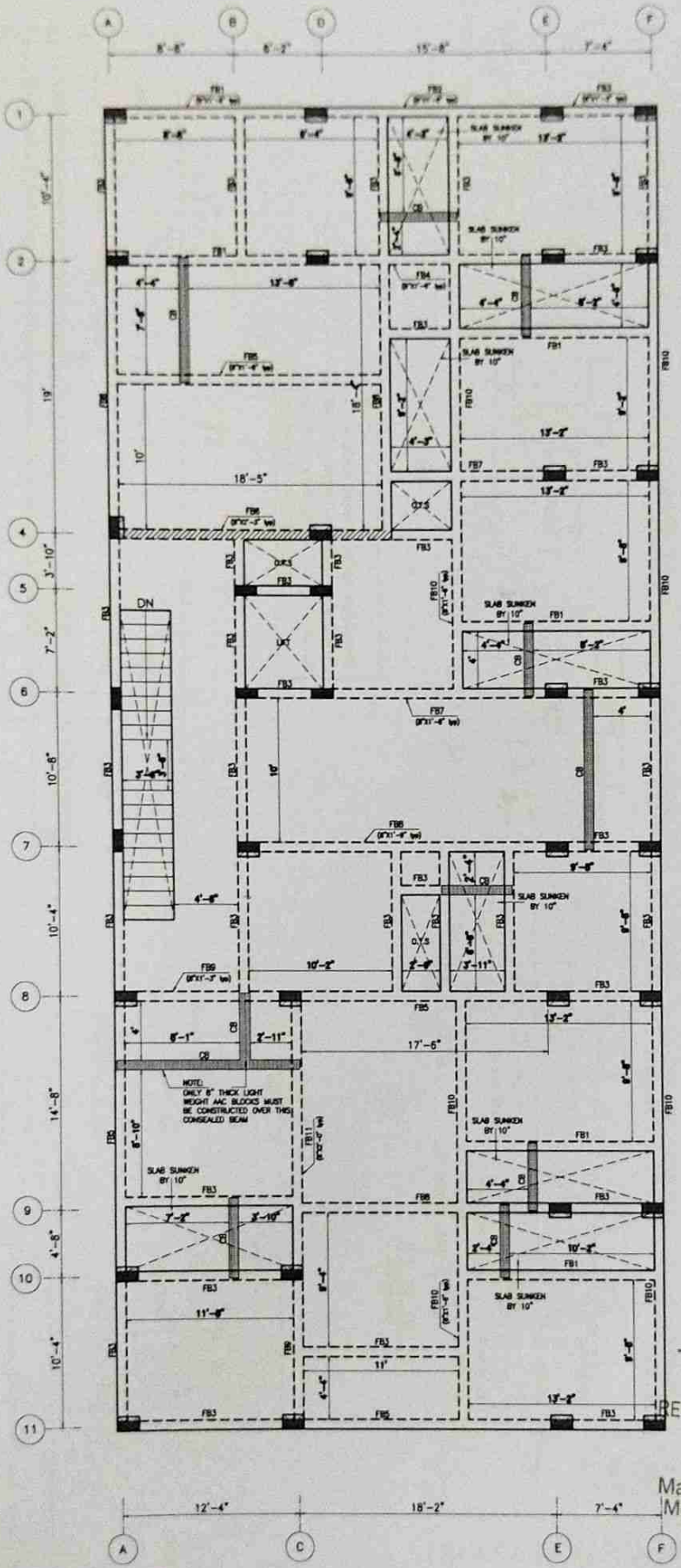
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF SLAB

CLIENT:
EVERRIZE BUILDERS

CONSULTANT:
KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	14/10/2024



LAYOUT OF GROUND FLOOR ROOF BEAM

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,
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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-14.
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 staggere

LEGEND

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches						Sheet: 8 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision	
TBN		TBN	14-10-2024		TBN	14-10-2024		R0	

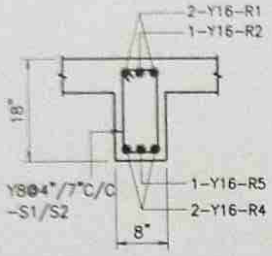
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAM

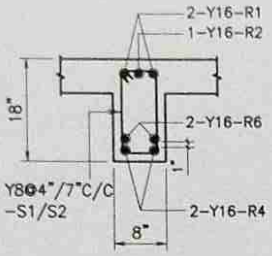
CLIENT: EVERNIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

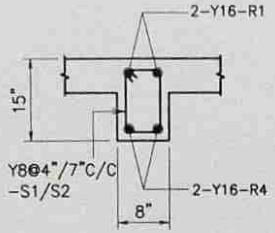
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



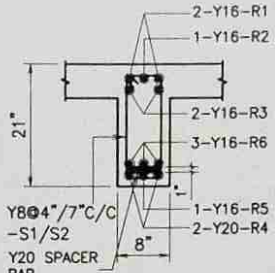
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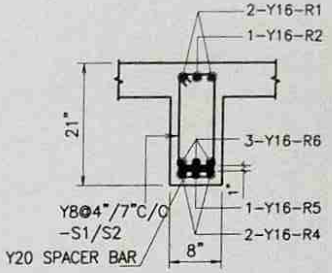
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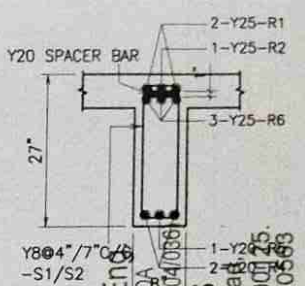
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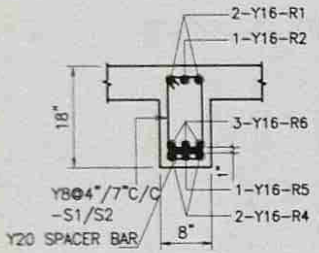
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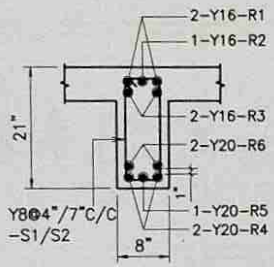
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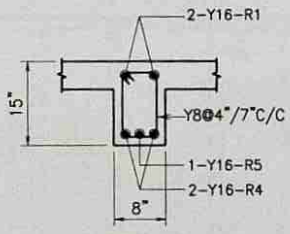
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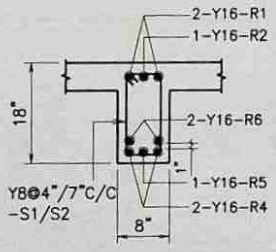
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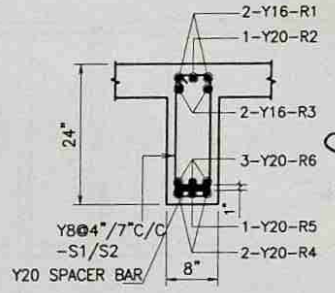
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C.S OF FB9
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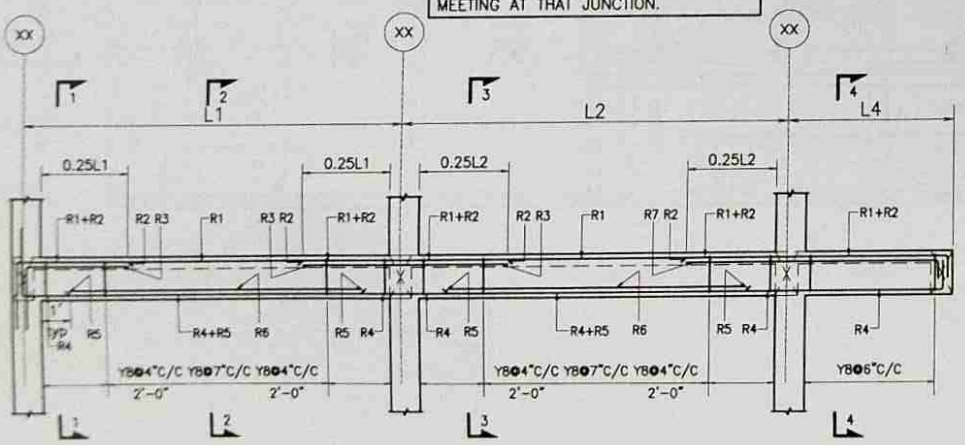


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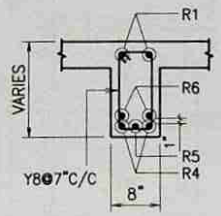


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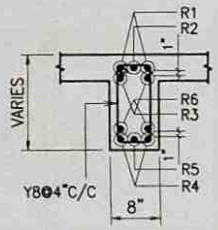
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



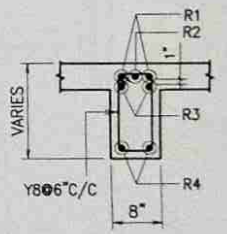
TYPICAL FLOOR BEAM DETAILS



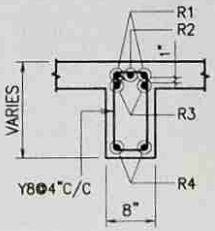
SECTION 2-2



SECTION 3-3



SECTION 4-4



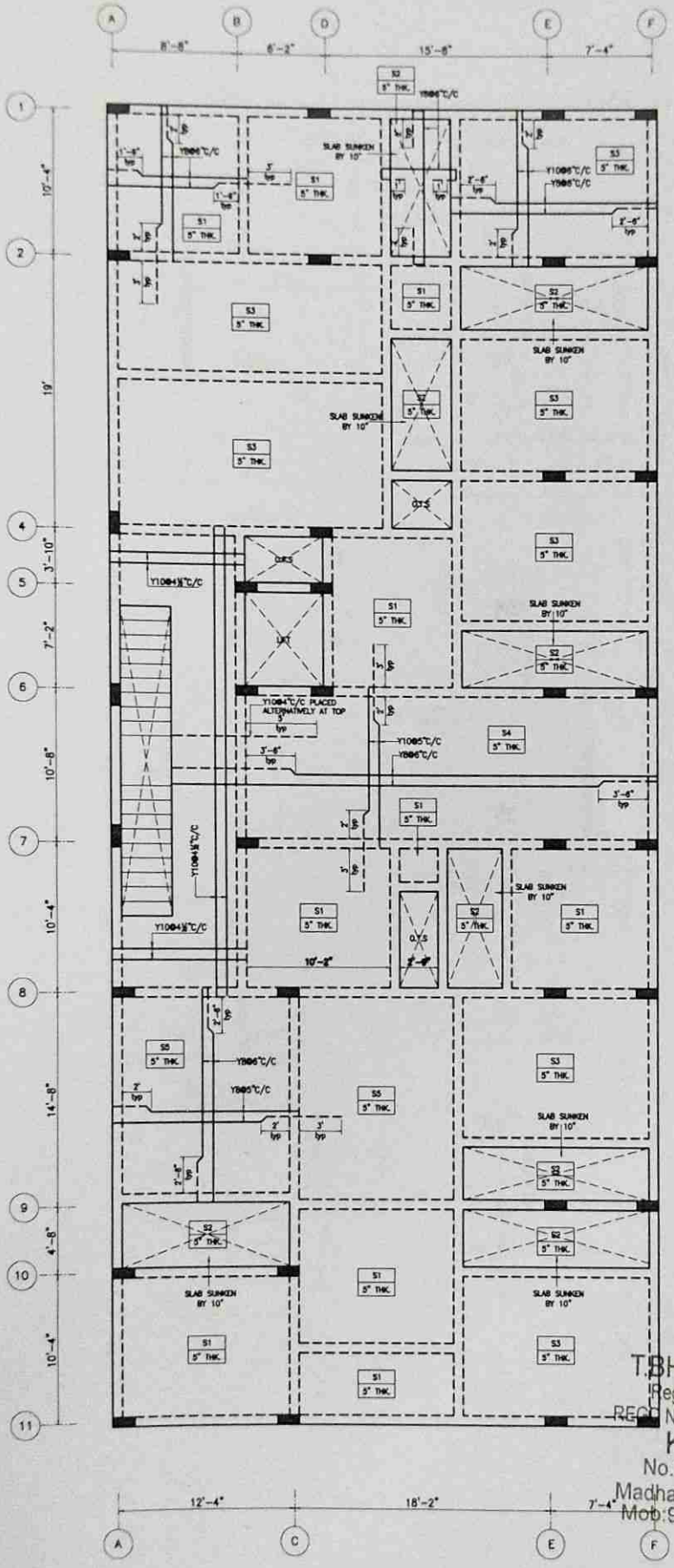
SECTION 1-1

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 14/10/2024	Filename	Date 14/10/2024	Scale 1:3.3
PROPOSED RESIDENTIAL AT SALIGRAMAM		LAYOUT OF REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAMS	

T.BHARANIDHARAN.M.E.,C.E.,
Registered Civil & Structural Engineer,CMDA
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-I/19/04/036)
KURAL ASSOCIATES
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Madhanandapuram,Porur,Chennai-600 125.
Mob:9791776685 / Tel No:044-79670563

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF FIRST FLOOR ROOF SLAB

T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
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KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

NOTE:
- Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
- Clear cover = 15mm.
- — Denotes top reinforcement of slab
- — Denotes bottom reinforcement of slab
- Lap length=50ϕ and all laps must be staggered

LEGEND

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 10 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

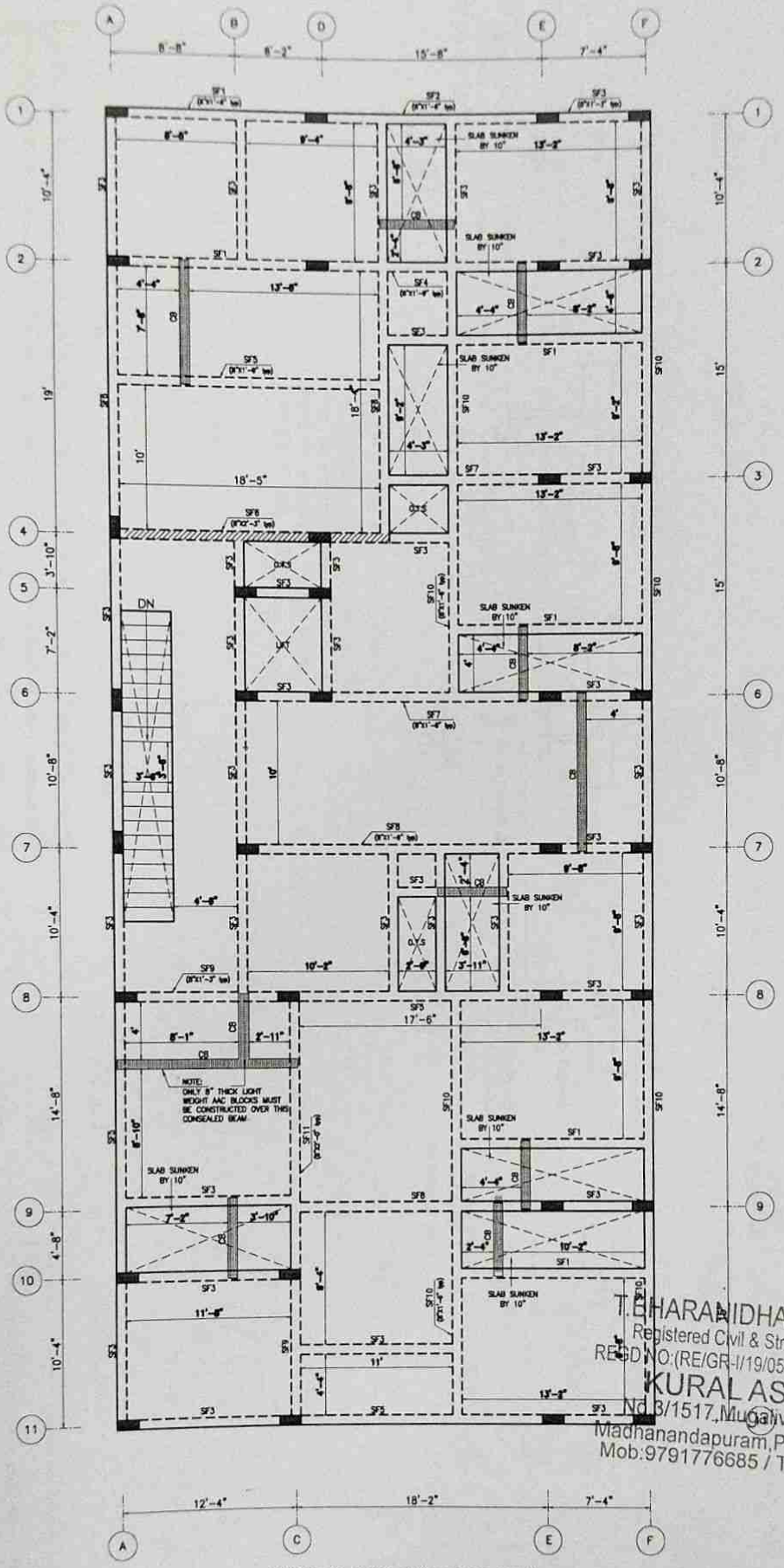
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF SLAB

CLIENT: EVERRIZE BUILDERS

KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-123. PH:044-42864212, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	14/10/2024 TBN



LAYOUT OF FIRST FLOOR ROOF BEAM

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)
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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–14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
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- ■ : COLUMN
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JOB NO: KAAF0001	All dimensions are in Feets and inches						Sheet: 11 (A3 SHEET)	
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TBN		TBN	14-10-2024		TBN	14-10-2024		R0

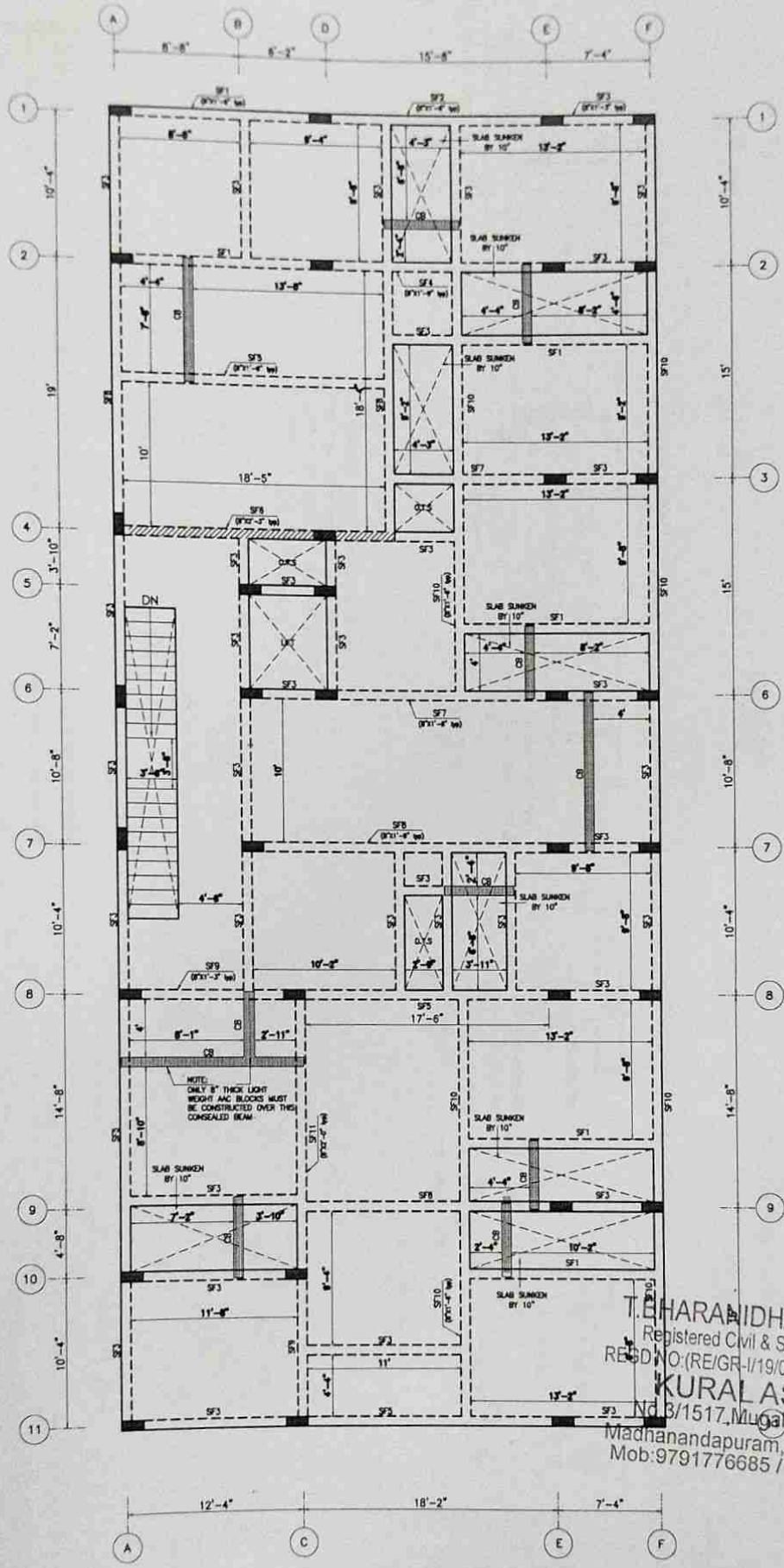
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAM

CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF FIRST FLOOR ROOF BEAM

T.SHARANIDHARAN.M.E.,C.Eng.
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REGD.NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/04/036)
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Mob:9791776685 / Tel No:044-79670563

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TYP.	:	TYPICAL
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—	:	COLUMN CENTERLINE
—	:	SITE BOUNDARY

JOB NO: KAAF0001 | All dimensions are in Feets and Inches | Sheet: 11 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

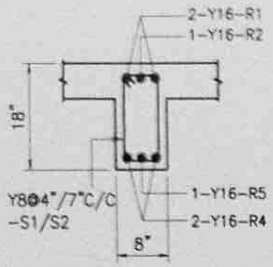
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAM

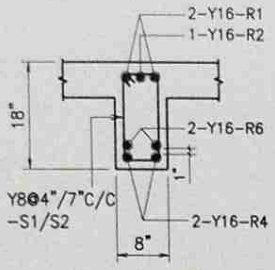
CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42664212, MOB:9791776685.
Email:kuralassociates.engineer@gmail.com

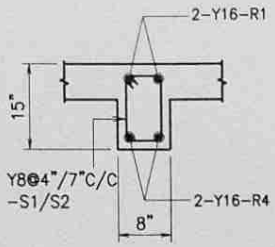
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



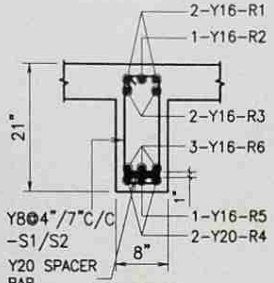
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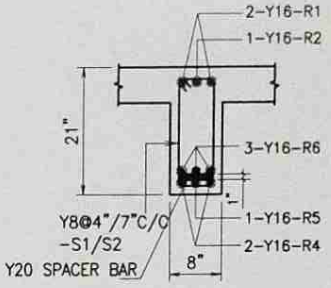
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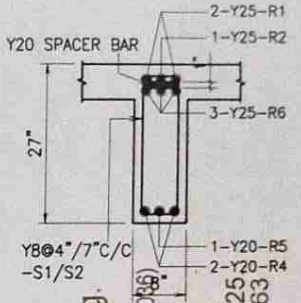
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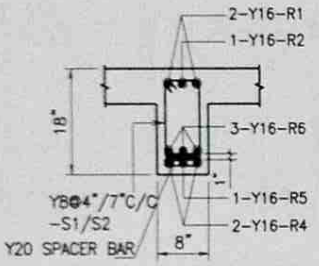
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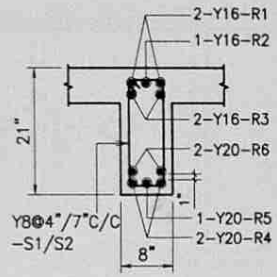
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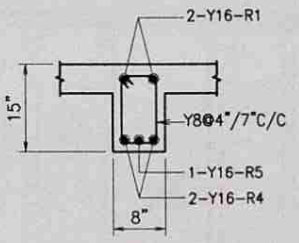
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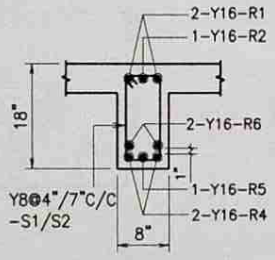
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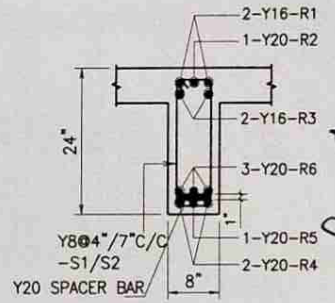
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C.S OF SF9
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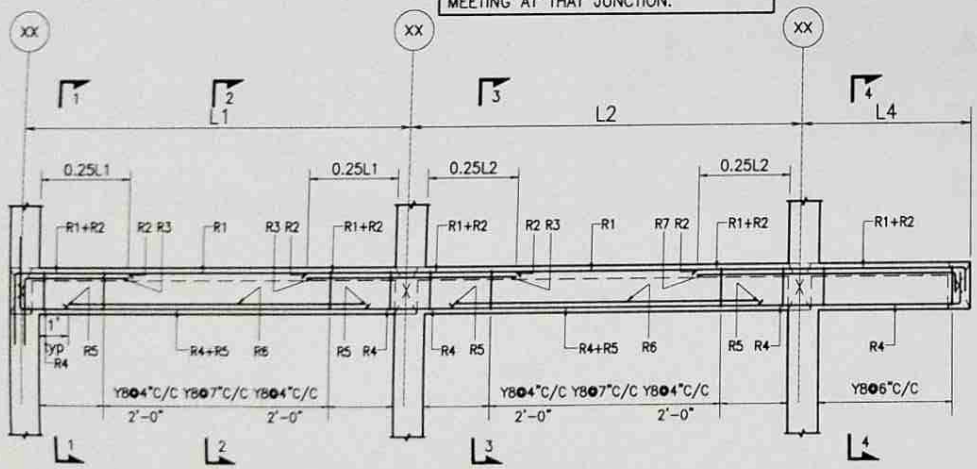
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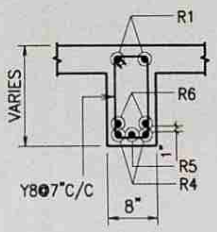
C.S OF SF11
[8"X2'-0"]

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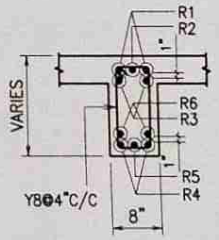
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



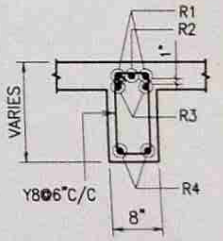
TYPICAL FLOOR BEAM DETAILS



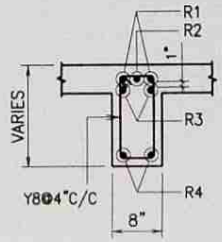
SECTION 2-2



SECTION 3-3



SECTION 4-4



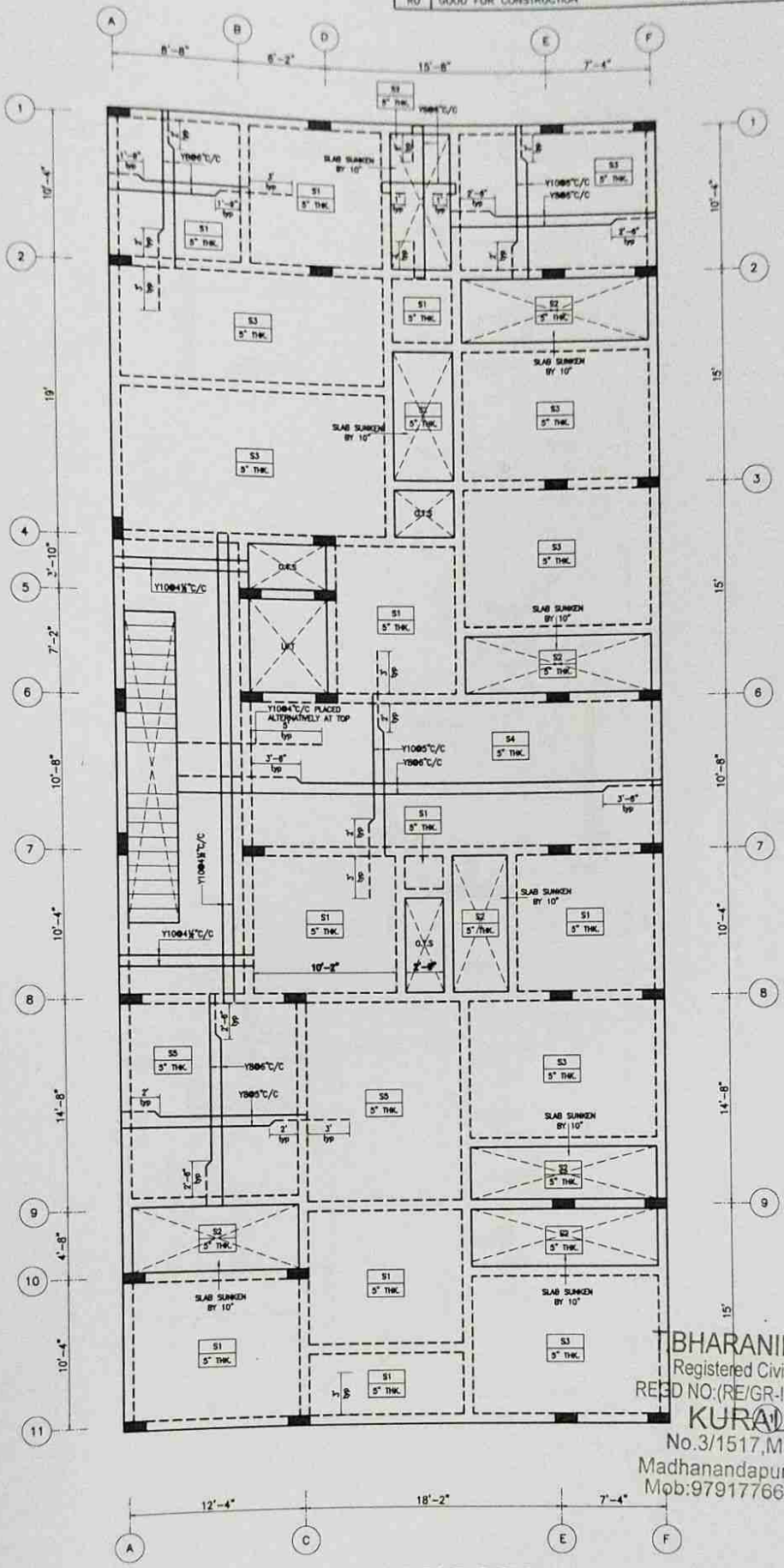
SECTION 1-1

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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: KAAT0001	All Dimensions are in feets and inches		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 14/10/2024	Filename / Date 14/10/2024	Scale 1:3.3
PROPOSED RESIDENTIAL AT SALIGRAMAM	LAYOUT OF REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAMS		

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

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF SECOND FLOOR ROOF SLAB

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)
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Mob:9791776685 / Tel No:044-79670563

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
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
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

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	14-10-2024		TBN	14-10-2024		R0

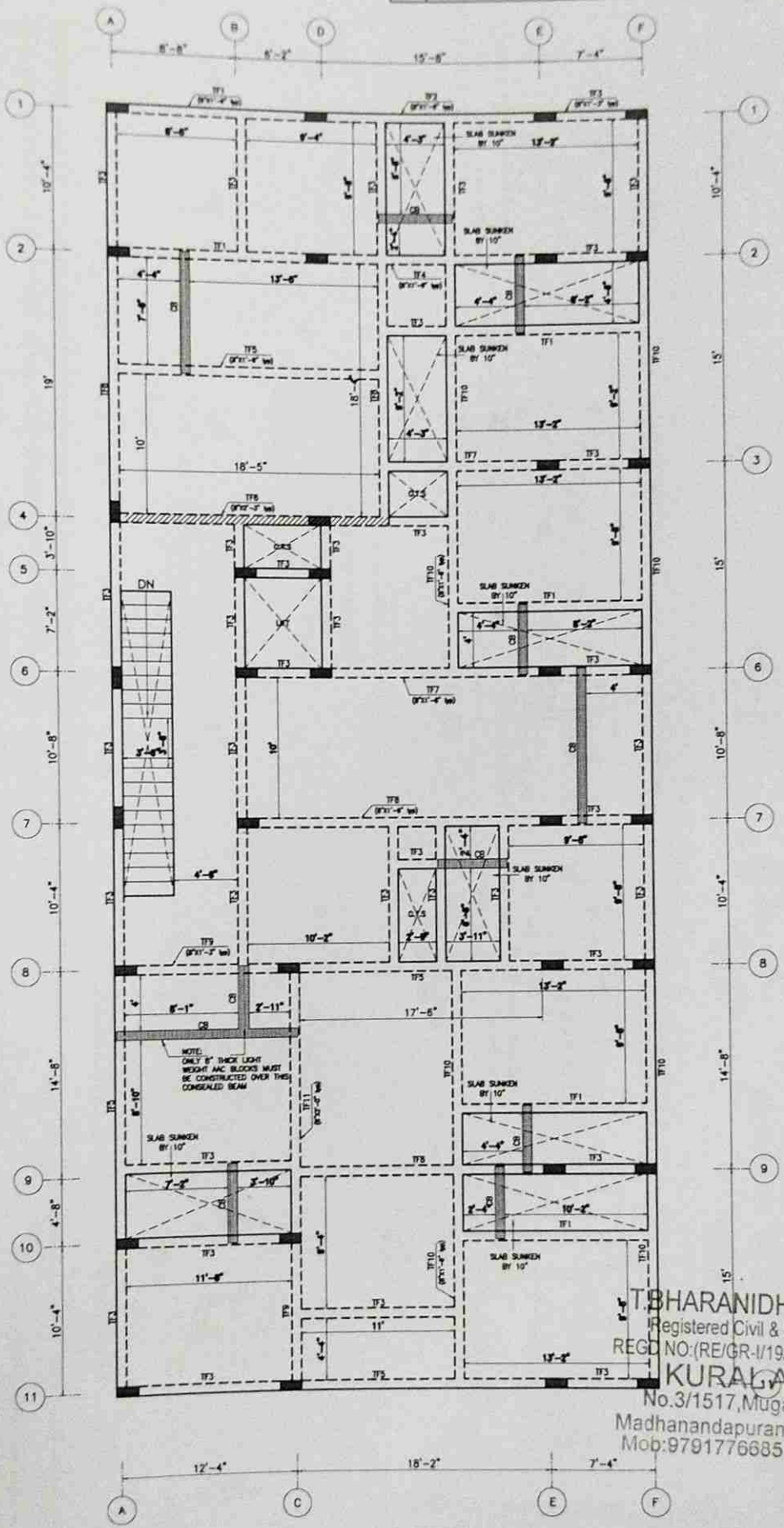
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF SLAB

CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-125. Ph:044-42864313, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

NO	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF SECOND FLOOR ROOF BEAM

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

TE:
Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-14.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
p length=50ϕ and all laps must be staggere

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 14 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

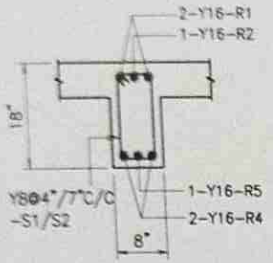
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAM

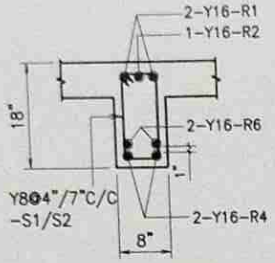
CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

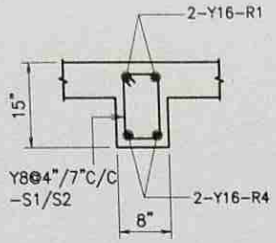
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



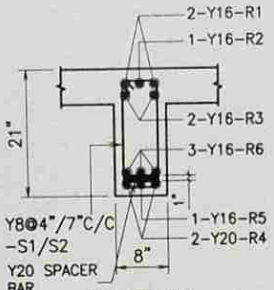
C.S OF TF1
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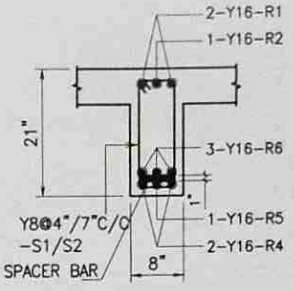
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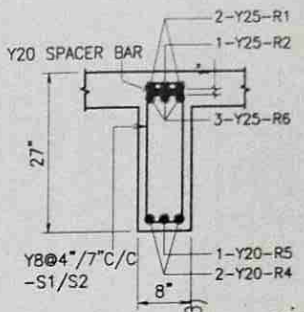
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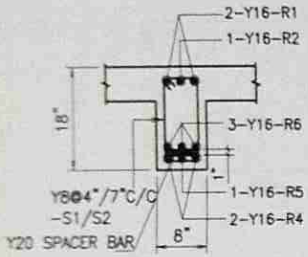
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[8"X1'-9"]



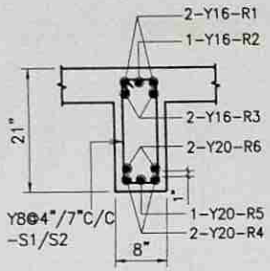
C.S OF TF5
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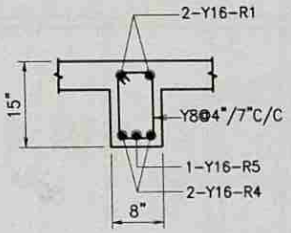
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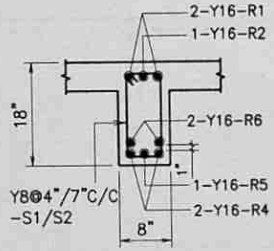
C.S OF TF7
[8"X1'-6"]



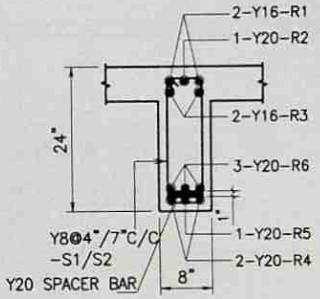
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[8"X1'-9"]



C.S OF TF9
[8"X1'-3"]

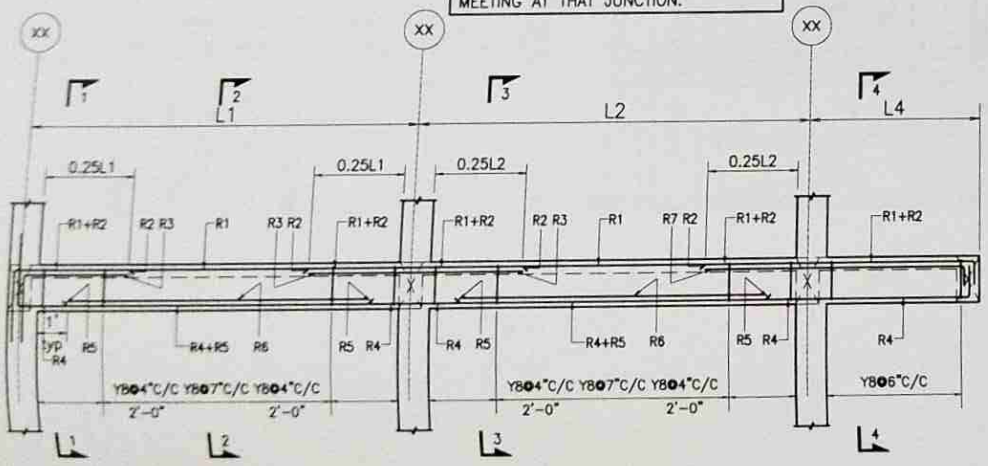


C.S OF TF10
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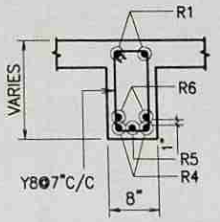


C.S OF TF11
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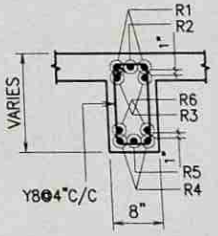
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



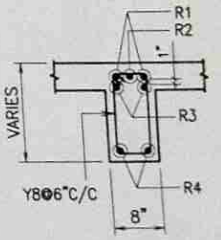
TYPICAL FLOOR BEAM DETAILS



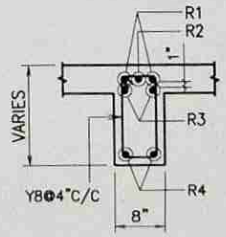
SECTION 2-2



SECTION 3-3



SECTION 4-4



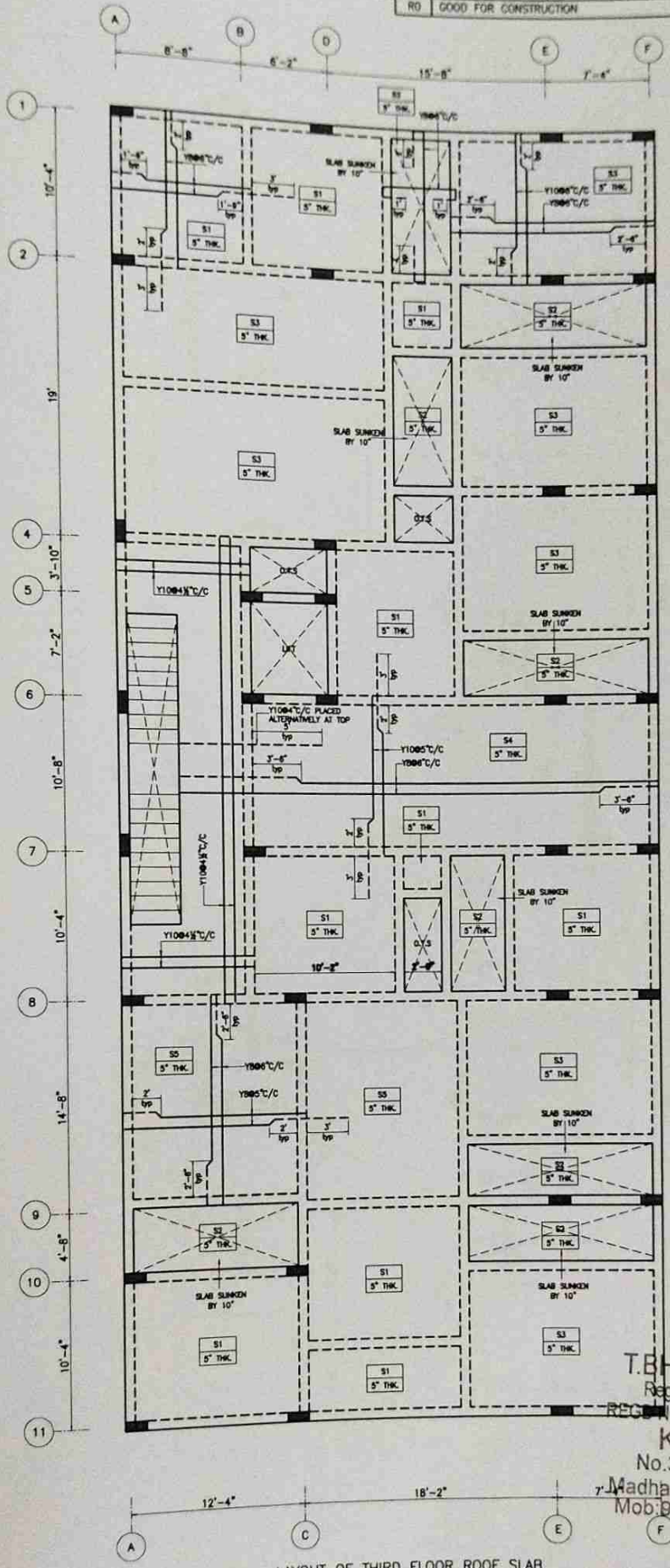
SECTION 1-1

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 14/10/2024	Filename	Date 14/10/2024	Scale 1:3.3
PROPOSED RESIDENTIAL AT SALIGRAMAM			LAYOUT OF REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAMS

T.BHARANIDHARAN.M.E.,C.E.,F.I.V.
Registered Civil & Structural Engineer,CMDA(APP.NO:1938)
REGD NO:(RE/GR-I/19/05/166) &(SE/GR-II/19/05/138)
KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF THIRD FLOOR ROOF SLAB

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

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
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
- NGL : NATURAL GROUND LEVEL
- FFL : FINISHED FLOOR LEVEL
- TYP. : TYPICAL
- ■ : COLUMN
- — : COLUMN CENTERLINE
- — : SITE BOUNDARY

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	14-10-2024		TBN	14-10-2024		R0

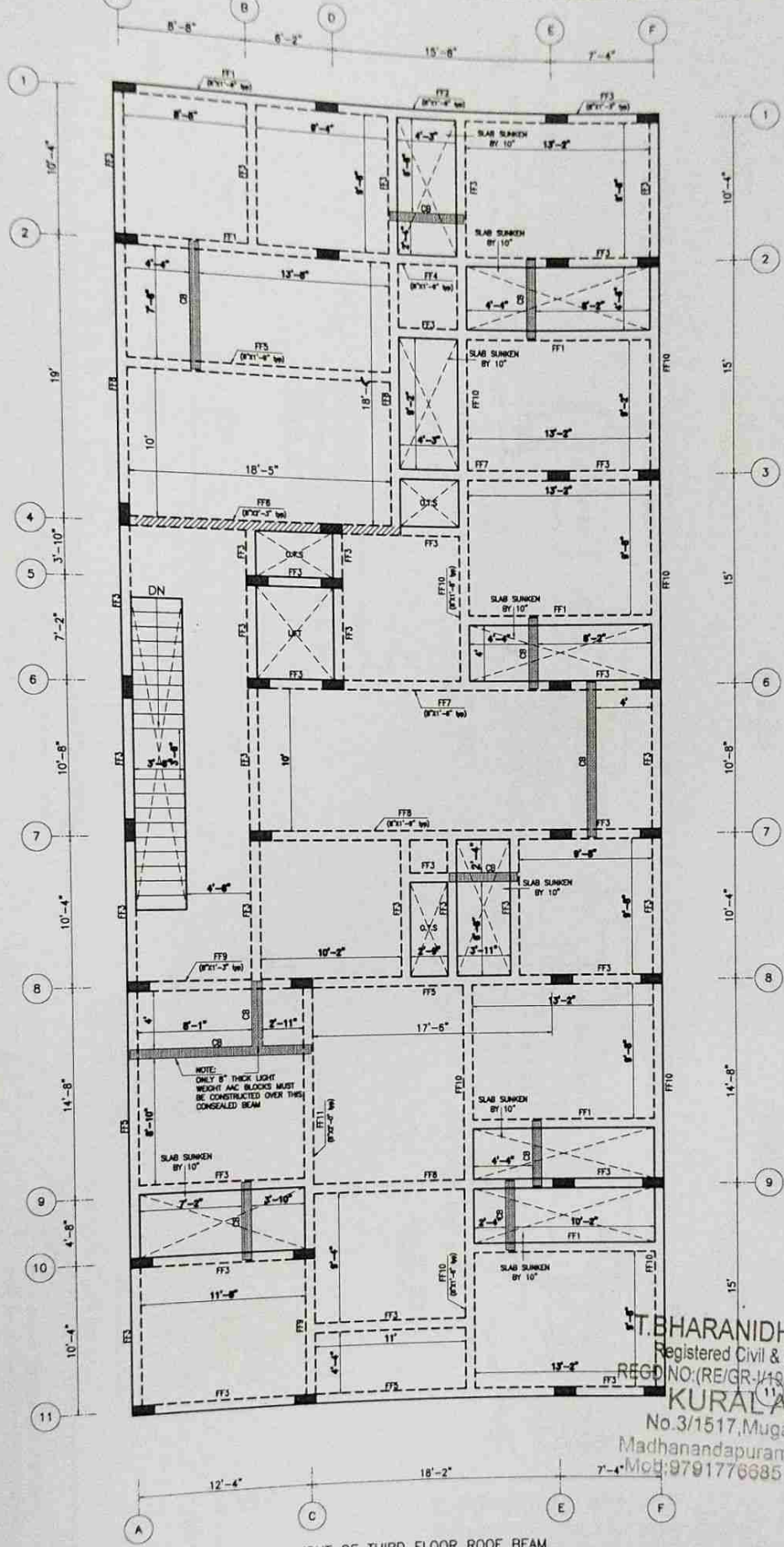
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42844312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF THIRD FLOOR ROOF BEAM

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
Lap length=50ø and all laps must be staggere

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 17 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

PROPOSED RESIDENTIAL AT SALIGARAMAM

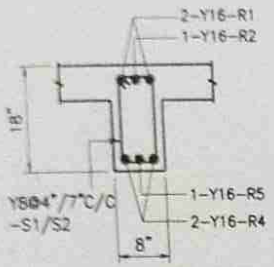
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAM

CLIENT: EVERRIZE BUILDERS

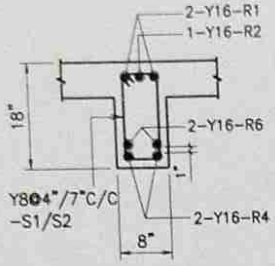
CONSULTANT: KURAL ASSOCIATES
No.3/1517, Mugalivakkam Main Road, Madhanandapuram, Porur, Chennai-125. Ph:044-42663212, MOB:9791776685
Email:kuralassociates.engineers@gmail.com

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

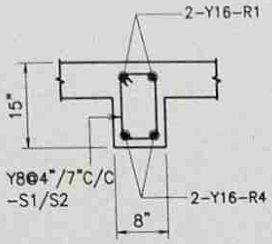
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



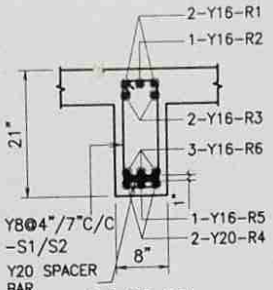
C.S OF FF1
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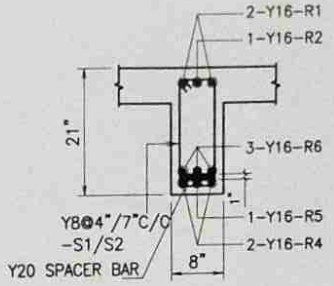
C.S OF FF2
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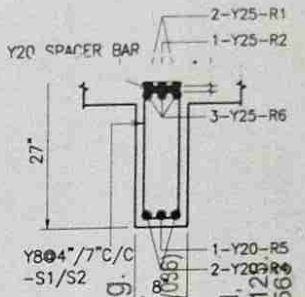
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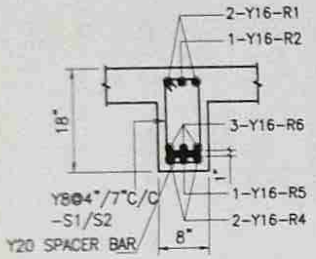


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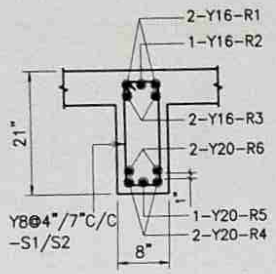


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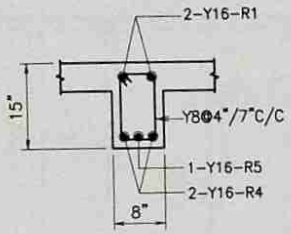




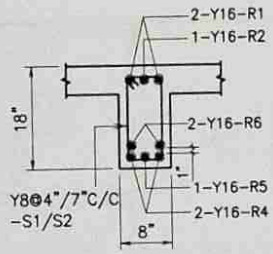
C.S OF FF7
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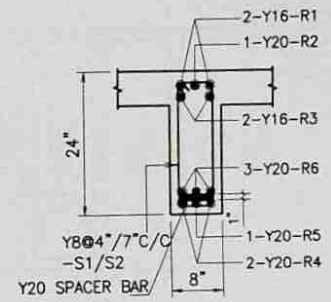
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[8"X1'-9"]



C.S OF FF9
[8"X1'-3"]

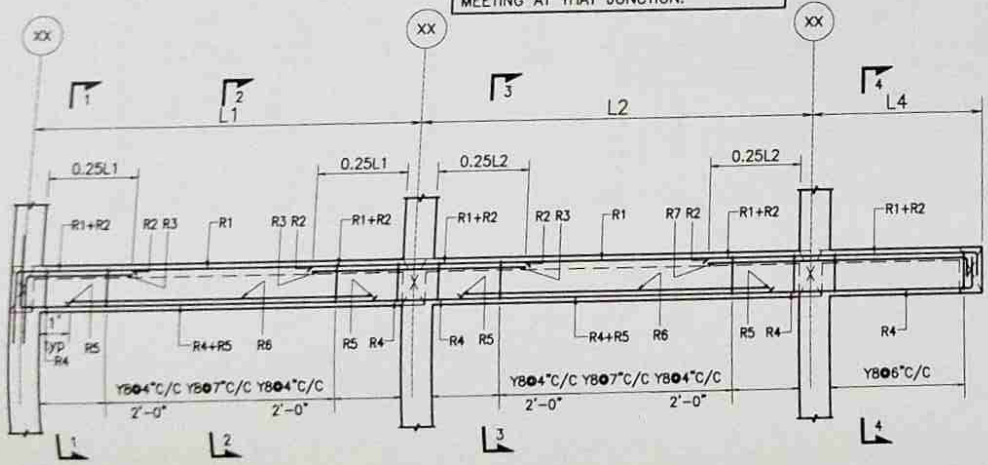


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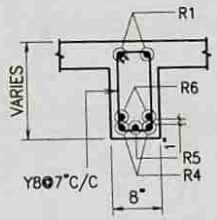


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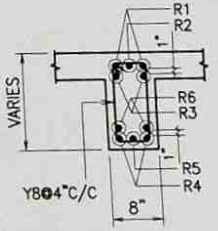
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



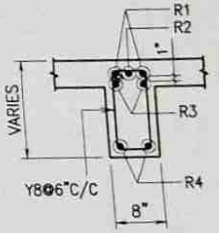
TYPICAL FLOOR BEAM DETAILS



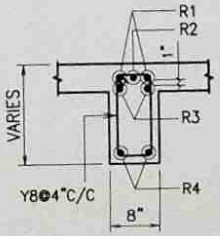
SECTION 2-2



SECTION 3-3



SECTION 4-4



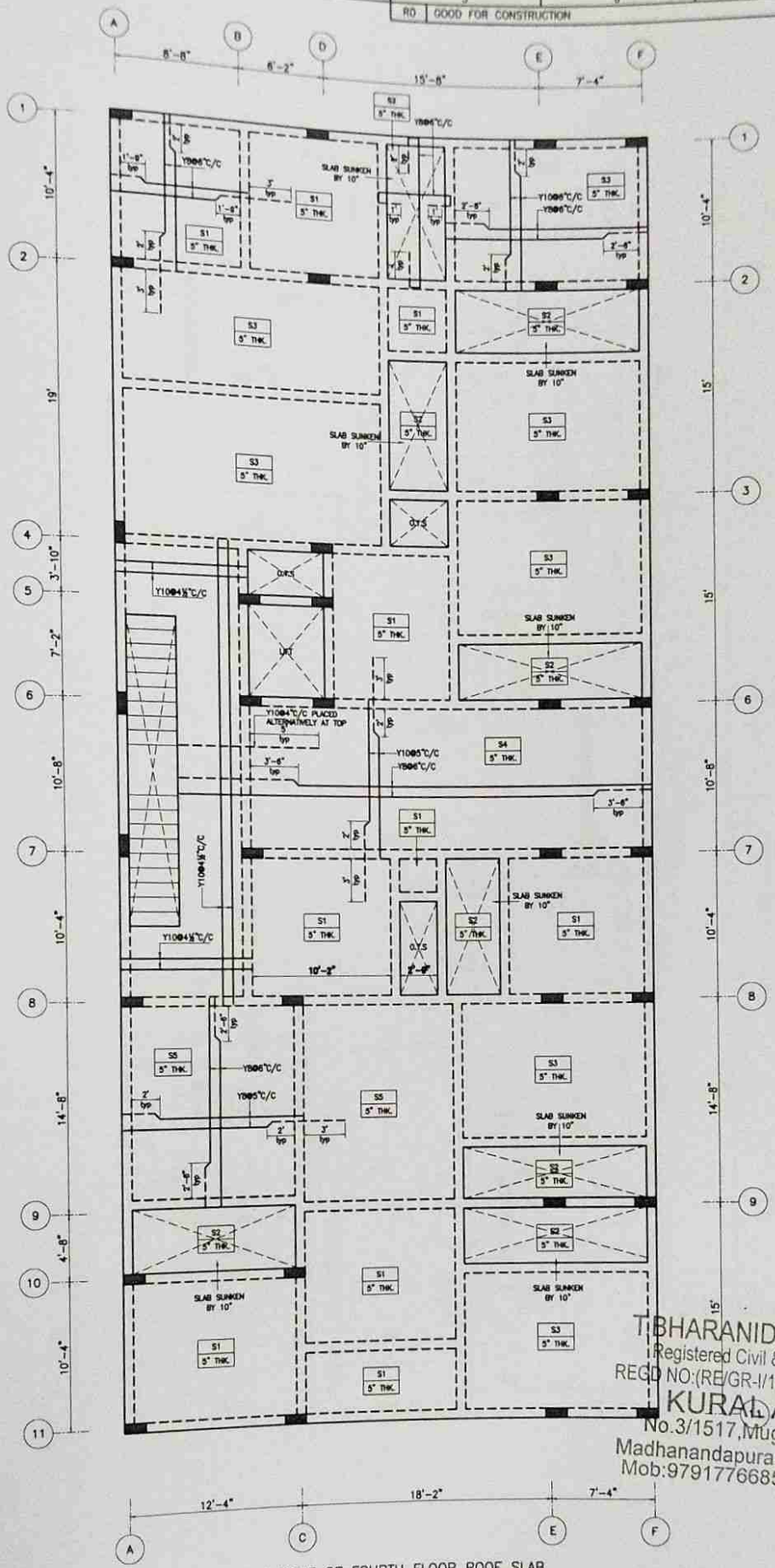
SECTION 1-1

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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

T.BHARANIDHARAN.M.E.,C.Eng.,
Registered Civil & Structural Engineer (KOA
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:044-79670564

JOB NO: KAAF0001	All Dimensions are in feets and inches			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 14/10/2024	Filename	Date 14/10/2024 / Scale 1:3.3
PROPOSED RESIDENTIAL AT SALIGRAMAM			LAYOUT OF REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAMS	
CLIENT			KURAL ASSOCIATES	Revision / Sheet

R0	GOOD FOR CONSTRUCTION	14/10/2024 TBN



LAYOUT OF FOURTH FLOOR ROOF SLAB

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

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
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
- NGL : NATURAL GROUND LEVEL
- FFL : FINISHED FLOOR LEVEL
- TYP. : TYPICAL
- ■ : COLUMN
- — : COLUMN CENTERLINE
- ▬ : SITE BOUNDARY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 19 (A3 SHEET)
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

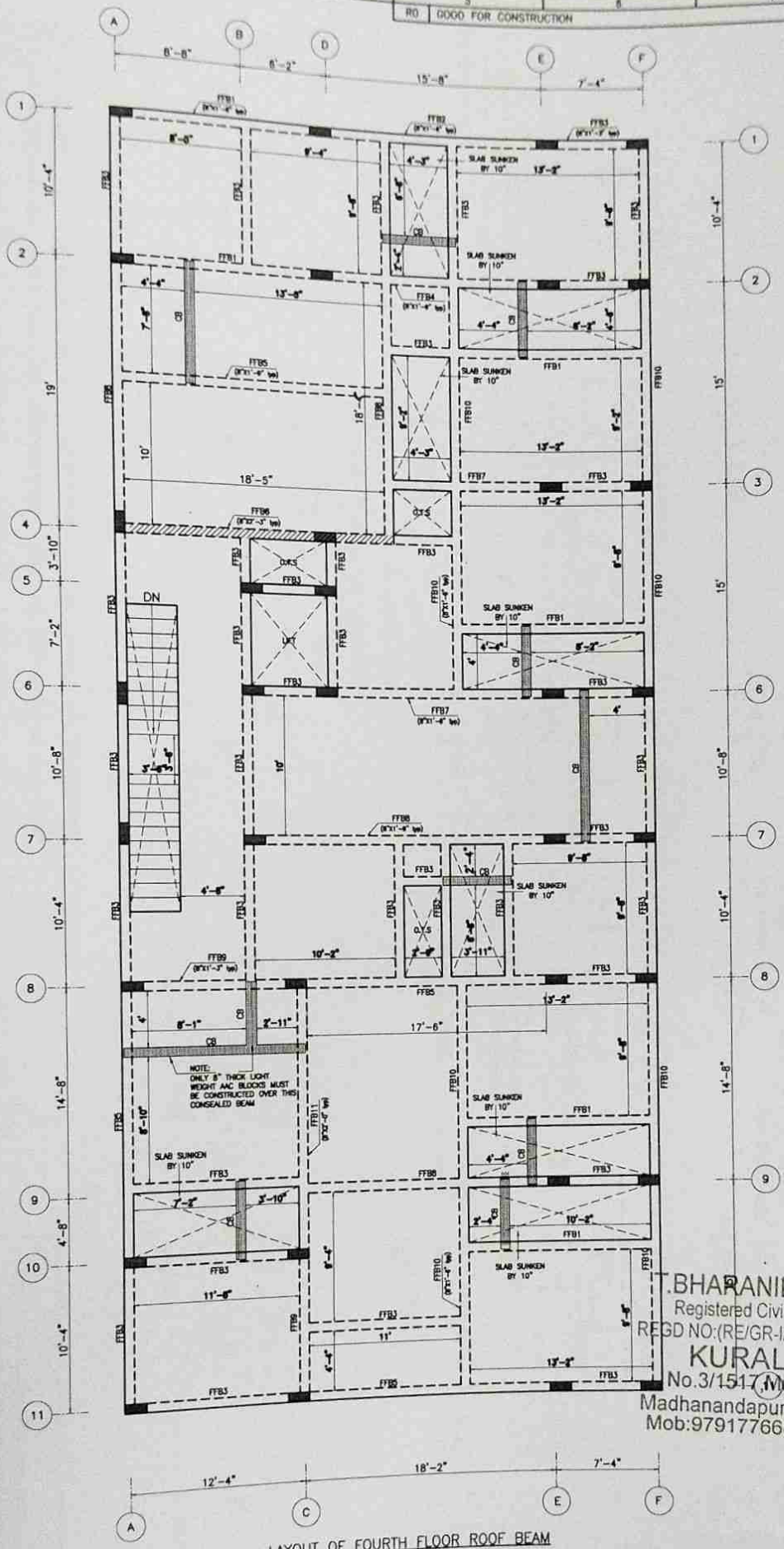
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF SLAB

CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



LAYOUT OF FOURTH FLOOR ROOF BEAM

T.BHARANIDHARAN.M.E.,C.Eng.,
Registered Civil & Structural Engineer,CMDA
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KURAL ASSOCIATES
No.3/1517,Mugalivakkam Main Road,
Madhanandapuram,Porur,Chennai-600125.
Mob:9791776685 / Tel No:044-79670563

Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
Lap length=50ϕ and all laps must be staggere

LEGEND

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

JOB NO: KAAF0001 | All dimensions are in Feets and Inches | Sheet: 20 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
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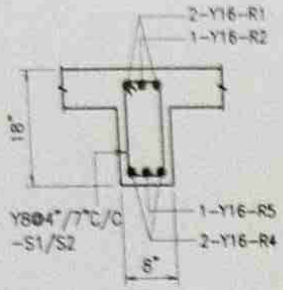
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAM

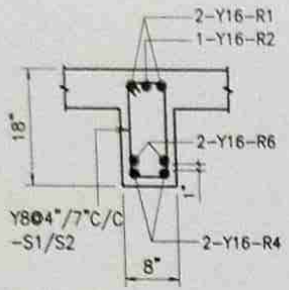
CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

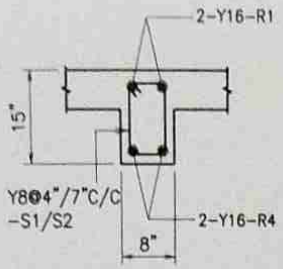
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



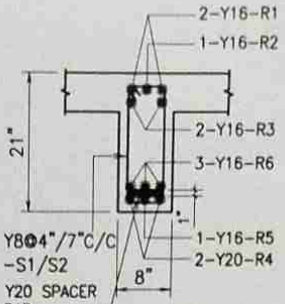
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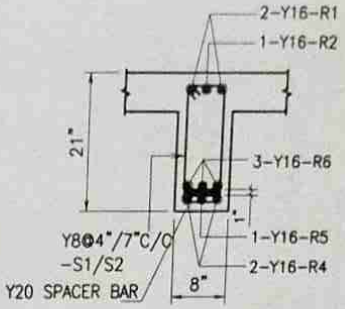
C.S OF FFB2
[8"X1'-6"]



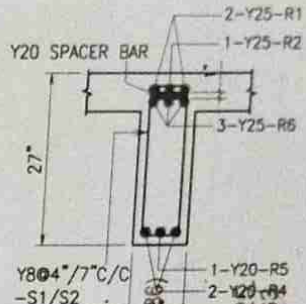
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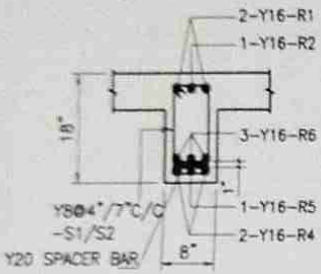
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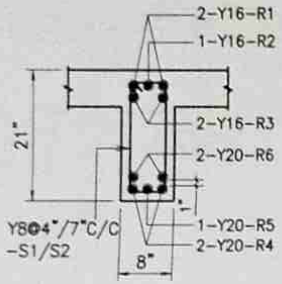
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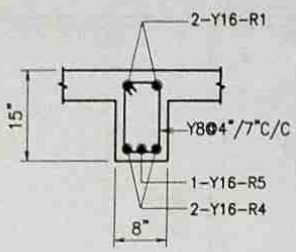
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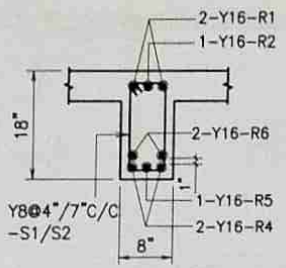
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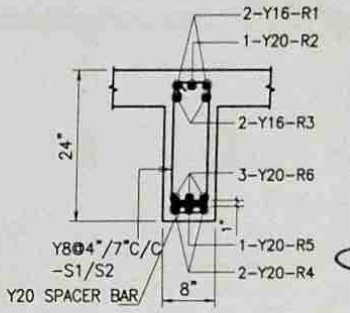
C.S OF FFB8
[8"X1'-9"]



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



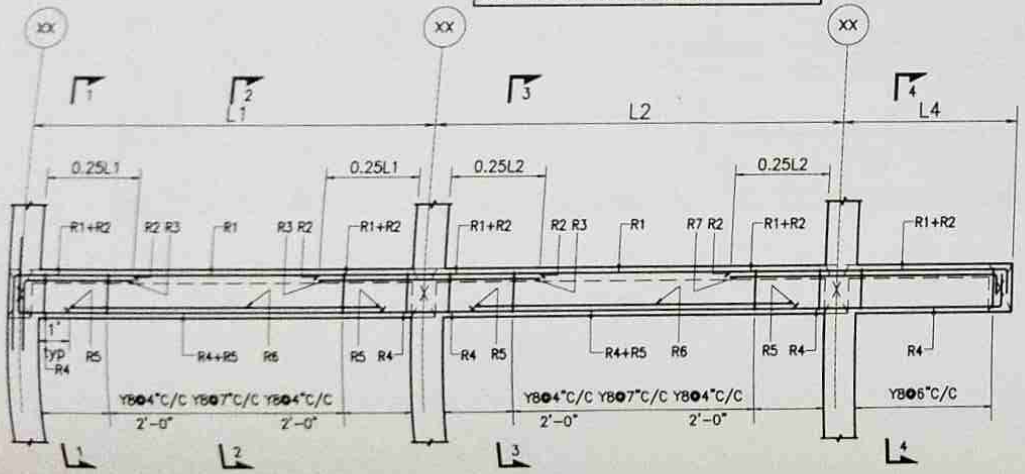
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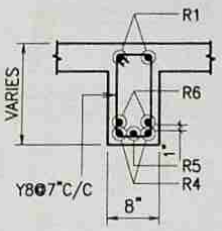
C.S OF FFB11
[8"X2'-0"]

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Mob:9791776685 / Tel No:044-79670563

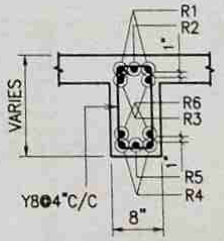
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



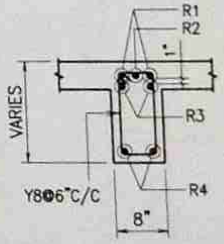
TYPICAL FLOOR BEAM DETAILS



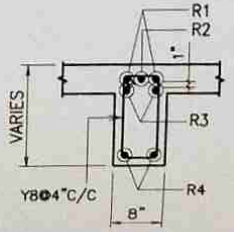
SECTION 2-2



SECTION 3-3



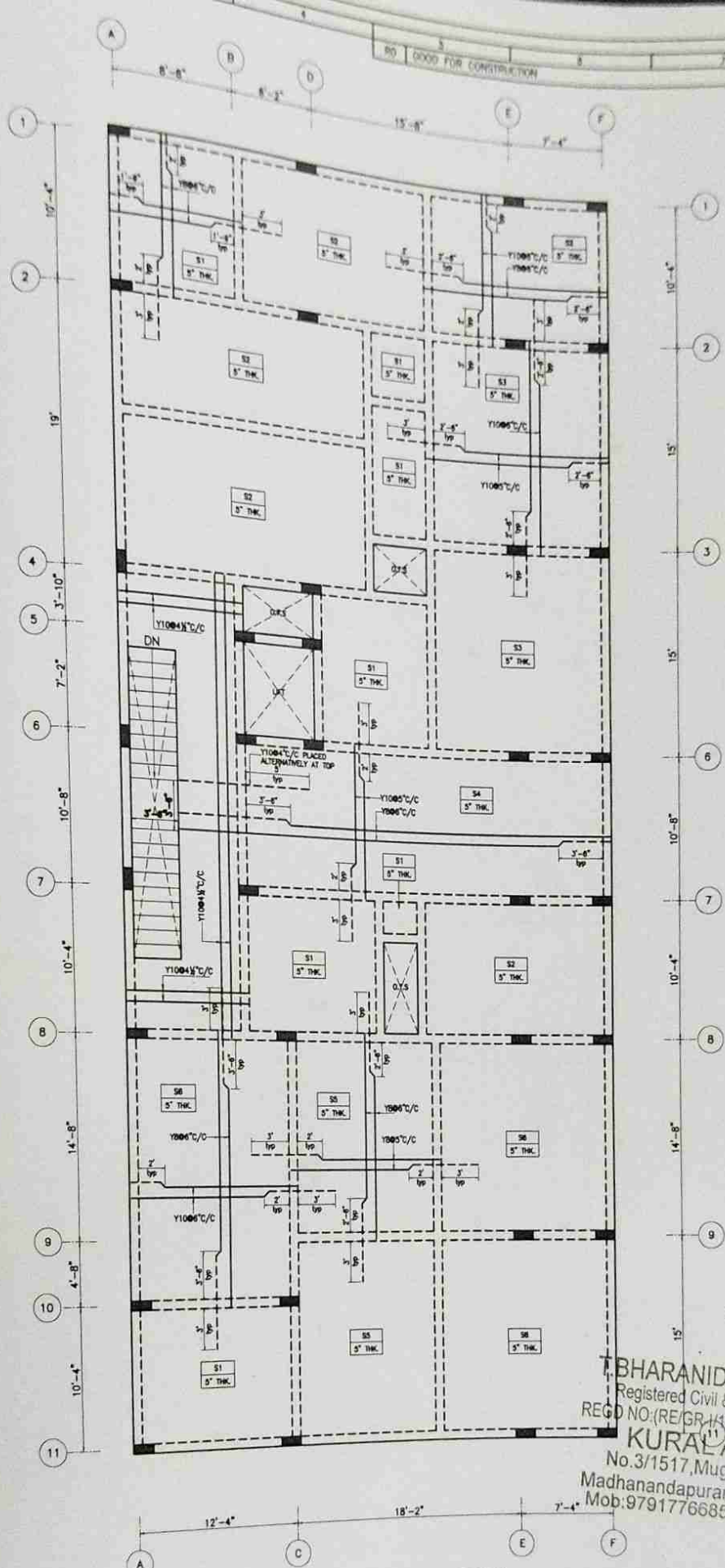
SECTION 4-4



SECTION 1-1

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 14/10/2024	Filename	Date 14/10/2024 Scale 1:3.3
PROPOSED RESIDENTIAL AT SALIGRAMAM				LAYOUT OF REINFORCEMENT DETAILS OF FOURTH FLOOR SLAB (SHEET 1)



LAYOUT OF FIFTH FLOOR ROOF SLAB

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Mob:9791776685 / Tel No:044-79670563

Note:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ϕ and all laps must be staggered

LEGEND

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

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 22 (A3 SHEET)

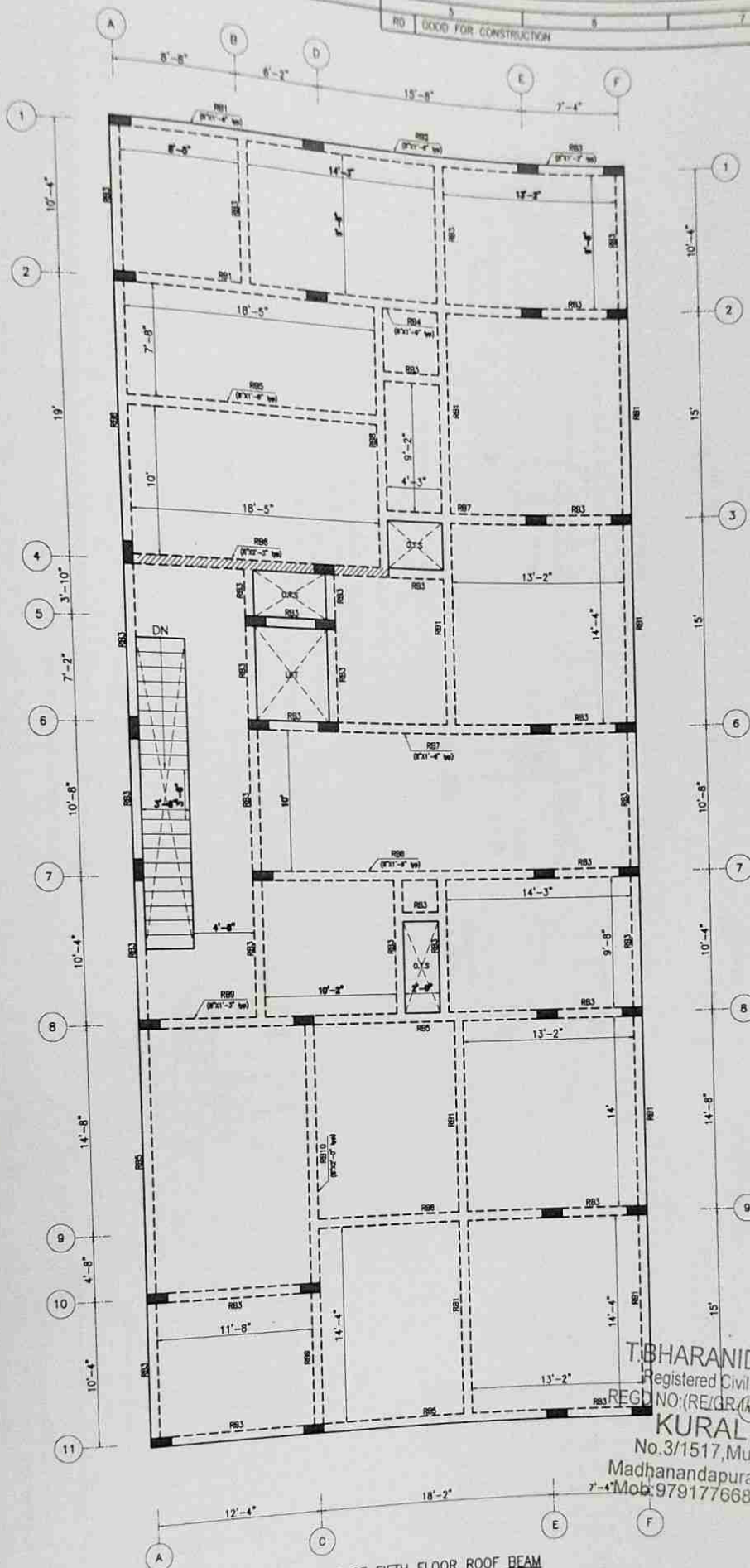
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		R0

PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF SLAB

CLIENT: EVERNIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES



T.BHARANIDHARAN.M.E.,C.Eng.
Registered Civil & Structural Engineer,CMDA
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Mob:9791776685 / Tel No:044-79670563

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-14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
Lap length=50ø and all laps must be staggere

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

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 23 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	14-10-2024		TBN	14-10-2024		RO

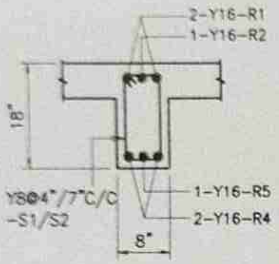
PROPOSED RESIDENTIAL AT SALIGARAMAM

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAM

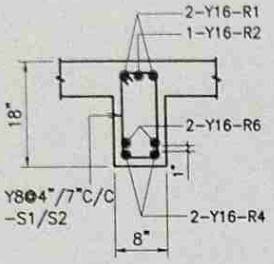
CLIENT: EVERRIZE BUILDERS

CONSULTANT: KURAL ASSOCIATES

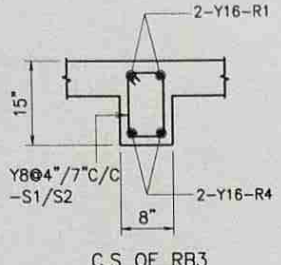
R0	GOOD FOR CONSTRUCTION	14/10/2024	TBN



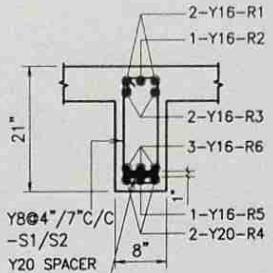
C.S OF RB1
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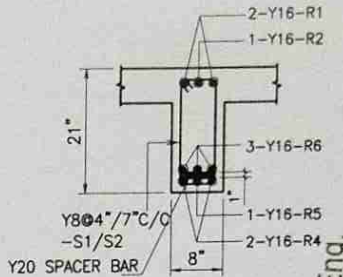
C.S OF RB2
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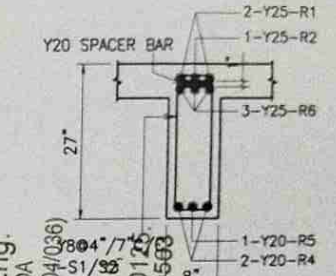
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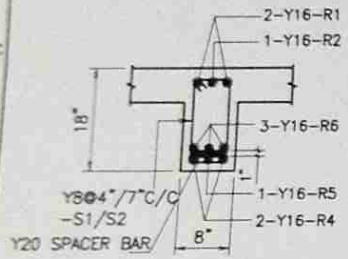
C.S OF RB4
[8"X1'-9"]



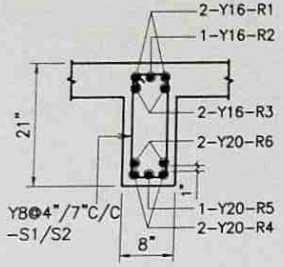
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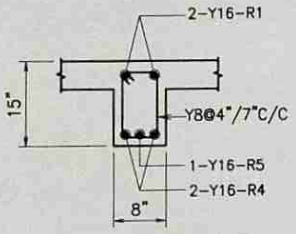
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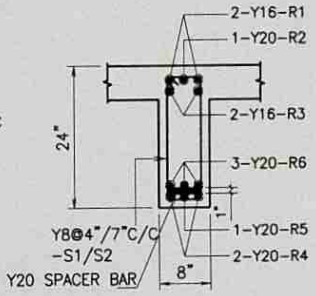
C.S OF RB7
[8"X1'-6"]



C.S OF RB8
[8"X1'-9"]

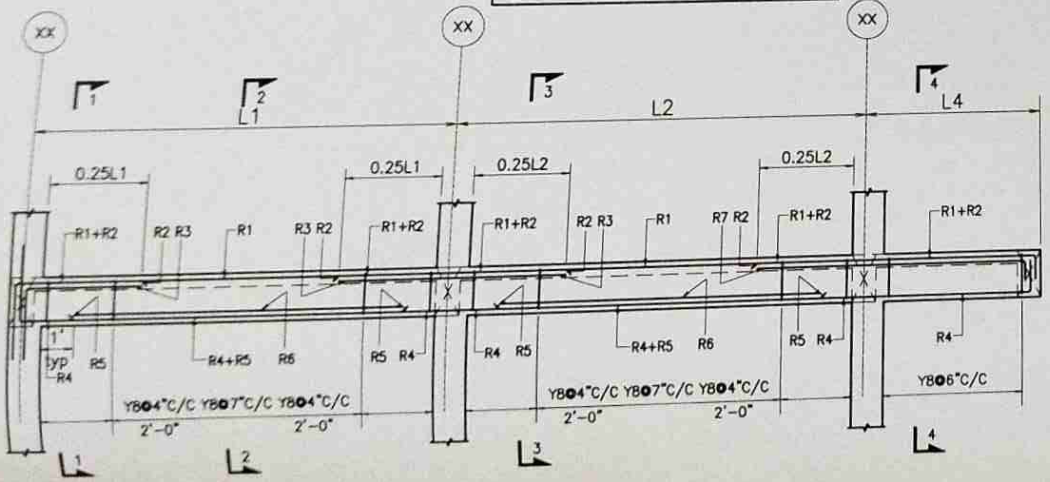


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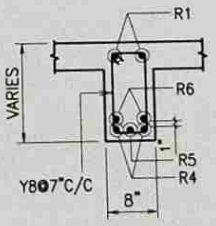


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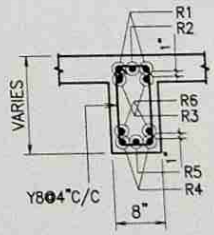
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



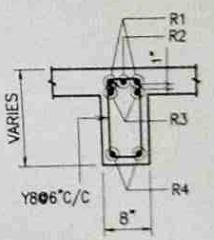
TYPICAL FLOOR BEAM DETAILS



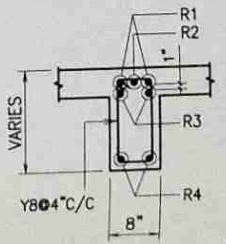
SECTION 2-2



SECTION 3-3



SECTION 4-4



SECTION 1-1

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
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		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 14/10/2024	Filename	Date 14/10/2024	Scale 1:1.3
PROPOSED RESIDENTIAL AT SALIGRAMAM		LAYOUT OF REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAMS	
CLIENT:	CONSULTANT: KURAL ASSOCIATES		Edition 1	Sheet

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Mob:9791776685 / Tel No:04429706503



our services doesn't just end there

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Ownership, Compliance & Legal Verification

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

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

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Home Vastu Shastra, Plot Vastu Shastra, Property Management

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