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DIGITALLY VERIFIED RECORD

T. Bharanitharan M.E, AMIE.
+91 9791 7766 85
Registered Civil & Structural Engineer
Chartered Engineer

KURAL ASSOCIATES
Perception to Execution

STRUCTURAL STABILITY CERTIFICATE

SITE ADDRESSS:- PROPOSED CONSTRUCTION OF STILT+ 3 RESIDENTIAL BUILDING AT DOOR NO 152, METTU STREET, AYANAVARAM,CHENNAI-23, ANNA NAGAR SUB REGISTRATION DISTRICT, T.S.NO. 84, BLOCKNO 28, PAIMASH NO 980 OF AYANAVARAM VILLAGE WITH IN THE LIMITS OF GREATER CHENNAI CORPORATION.

The Residential Building referred to above is a framed structure with **S+3 upper floor**. The structural design and drawing for the building are being prepared by us conforming to the relevant bureau of Indian Standards viz. IS 456:2000 for plain and reinforced concrete, IS 875(part-II)- 1987 for imposed loads and IS 1893:2002(part-1) for seismic force.

We certify that the building when constructed according to our structural designs and drawings will be **structurally safe and sound** taking earthquake effects in account and fit for occupation. No more future vertical expansion will be allowed except staircase & lift headroom.

T.BHARANITHARAN,M.E.,C.Eng(I).
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

PROPOSED CONSTRUCTION OF STILT+ 3 RESIDENTIAL BUILDING AT DOOR NO 152, METTU STREET, AYANAVARAM,CHENNAI-23, ANNANAGAR SUB REGISTRATION DISTRICT, T.S.NO. 84, BLOCKNO 28, PAIMASH NO 980 OF AYANAVARAM VILLAGE WITH IN THE LIMITS OF GREATER CHENNAI CORPORATION.

Structural design brief

Introduction

The proposed residential building is a framed structure with stilt and three upper floors. The building is analyzed and designed conforming to loading standards IS: 875 (part II) and to seismic force as per IS 1893: 2002, the revised India code for earth quake resistant design of structures.

A. Load considered in the design

Live load on roof	1.5 KN/M^2
Live load on floor	2 KN/M^2
Weathering course on roof	2KN/M^2
Floor finish	1 KN/M^2
Light partition	1 KN/M^2
Unit weight of brickwork	20 KN/M^3
Unit weight of concrete	25 KN/M^3

B. Design details

Design method	LIMIT STATE DESIGN
Codes & special publication used	IS 456: 2000, IS 1893:2002(PART I), SP 16, IS 875(PART II)
Concrete grade	M25
Steel grade	FE 415

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C. Foundation Details

Type of foundation pile	Open shallow foundation
Allowable capacity as per soil test report	25tons/m²
Depth of foundation	2.3m below NGL
Diameter of main bars in footings	25mm,16mm,12mm

D. Slab Details

Type of slab	Two way slab
Thickness of the slab provided	125mm
Steel cover to slab	25mm
Diameter of main bars used	8mm

E. Beam Details

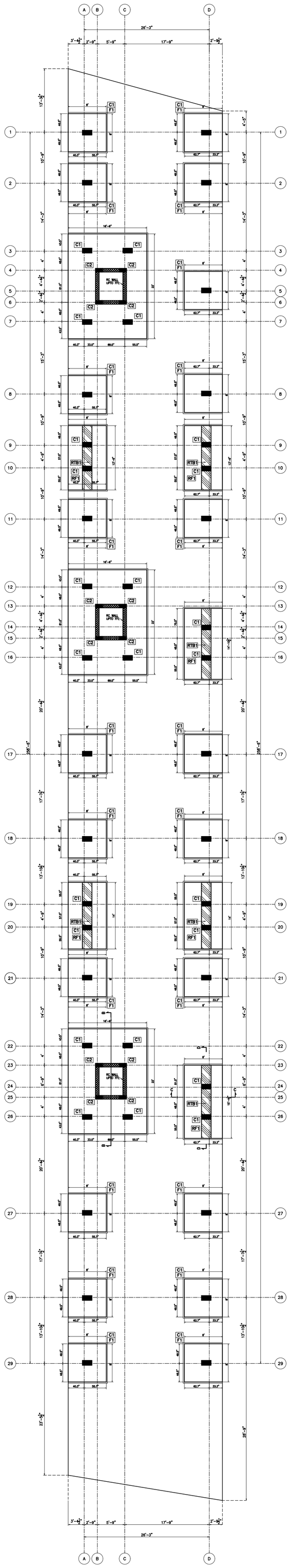
Size of the beam provided	230 x 450mm, 300 x 900mm, 300 x 450mm
Bottom steel cover to beam	25mm
Diameter of main bars used	25mm, 20mm, 16mm, 12mm
Stirrups used	2 legged stirrups 8mm dia

F. Column Details

Size of the columns provided	300mmx450mm
Steel cover to column	40mm
Diameter of main bars used	25mm, 20mm, 16mm
Binder diameter	8mm

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LAYOUT OF COLUMN SETTING OUT PLAN

LEGENDS

- COLUMNS
- COLUMN CENTRELINE
- SITE BOUNDRY

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	7/22/2025		TBN	7/22/2025		R0

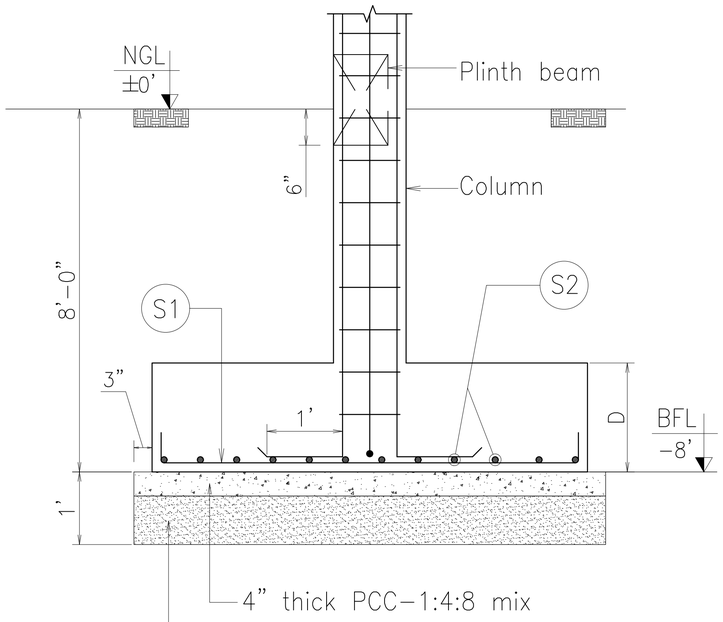
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF COLUMN SETTING OUT PLAN

CLIENT:

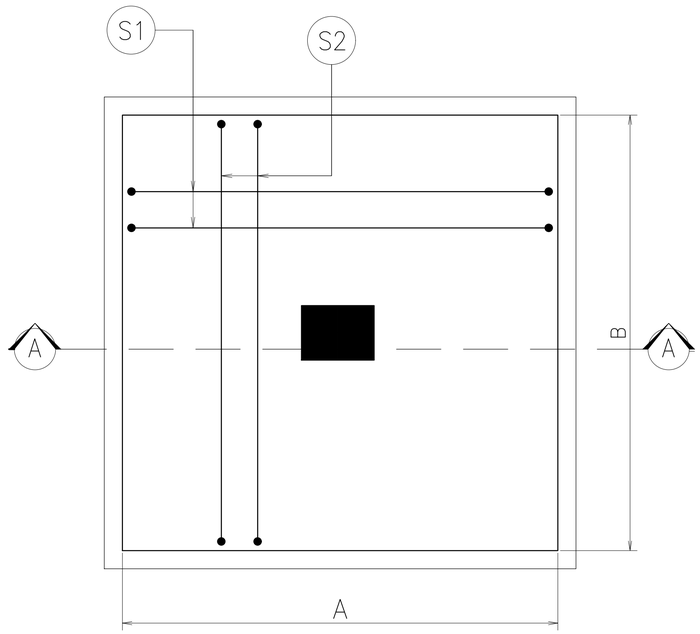
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram,
Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
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A x B

SECTION – 'AA'



PLAN

TYPICAL FOOTING DETAIL

TYPE – 1

FTG. NO.	NOS.	FOOTING DETAILS			S1	S2	REMARK
		A	B	D			
F1	21	8'-0"	8'-0"	2'-3"	Y12@6"C/C	Y12@6"C/C	Type – 1

GENERAL NOTES:–

1. All dimenstion are in feet & inches.
2. Structural consultant not responsible violation of any structural details for
3. All laps should be staggered. (50xdia.)
4. Clear cover for:
   a. Footing = 50mm
   b. Column = 40mm
5. Sbc=16t/M2 (at –2.75m level as per related experienve)
6. Sand filling and PCC can be laid commonly for footings which are much closer to each other but structural concrete must be separated by a wooden plank/paper joint.
7. Any descripencies should be produced to the Engineer's immediately notice before execution.

LEGEND

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

FOOTINGS ARE DESIGNED ONLY FOR S+3 FLOORS.

As shown in Architectural drawing

MATERIAL STRENGTH

I. Grade of concrete – M30
II. Grade of steel – fe 500

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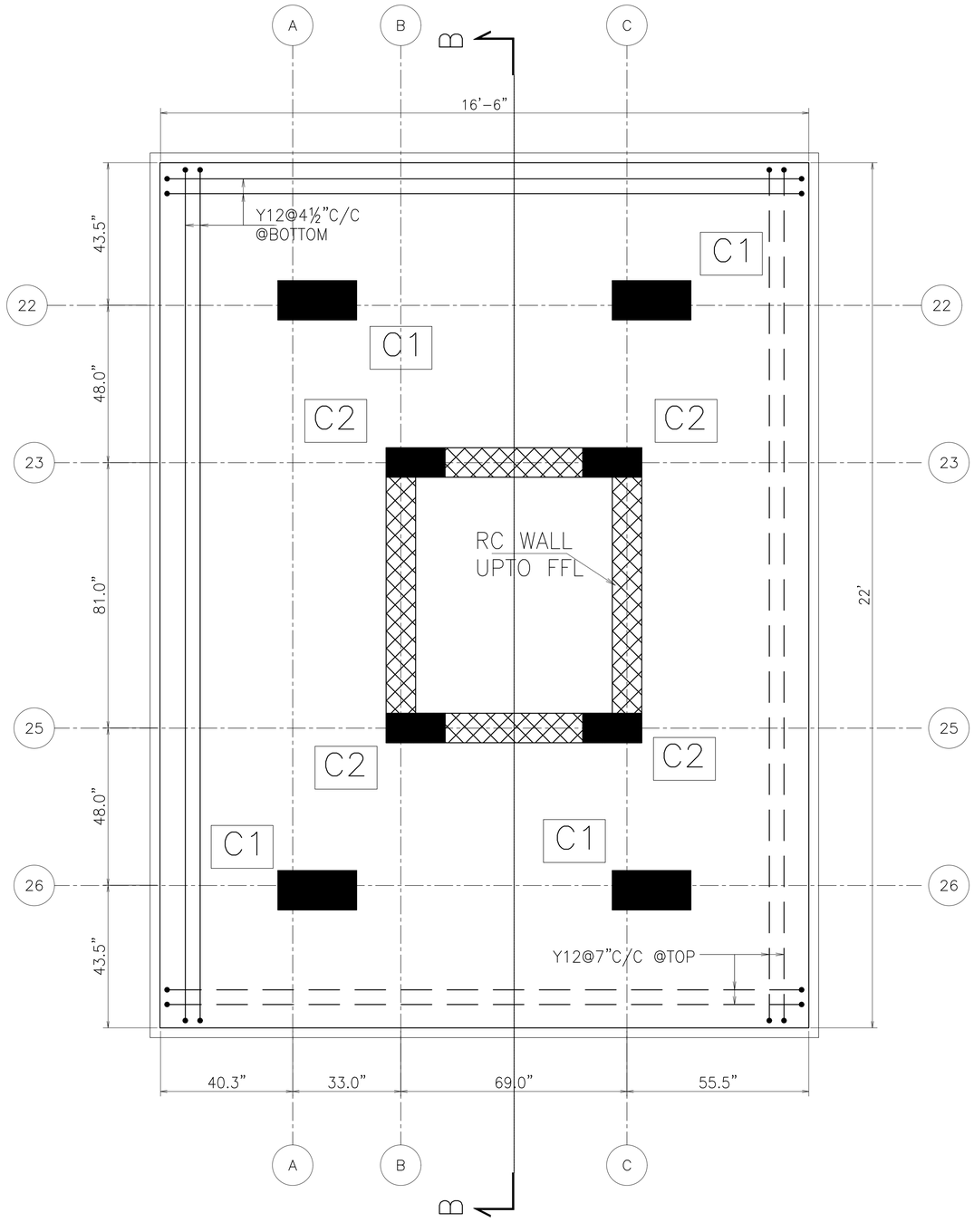
PROPOSED RESIDENTIAL BUILDING

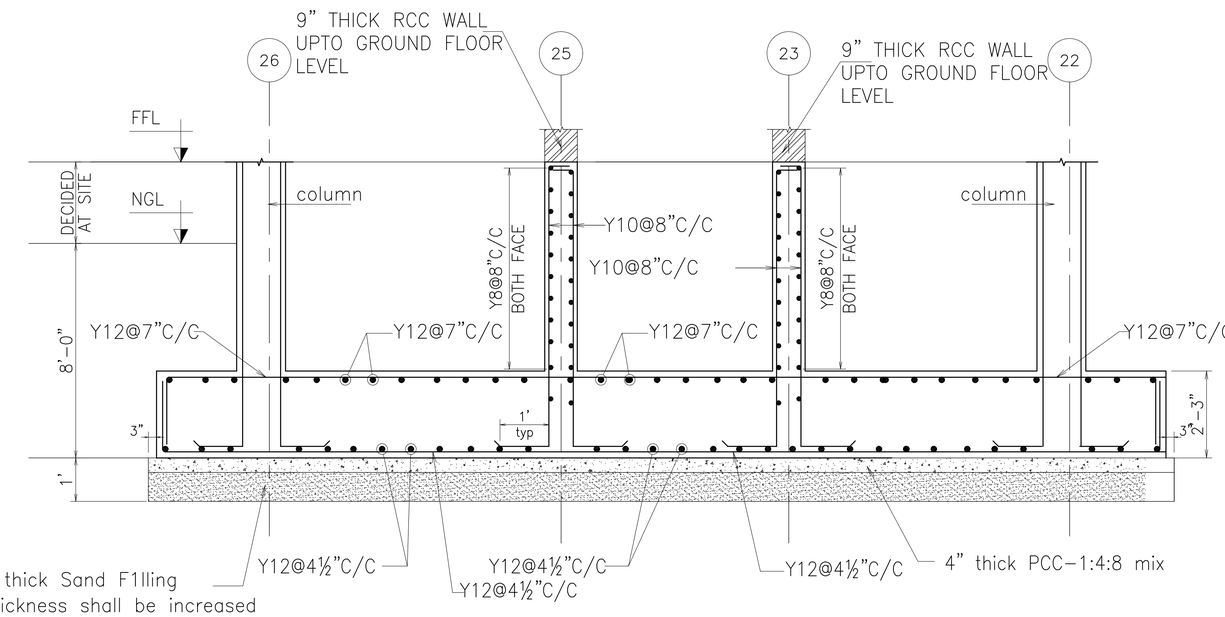
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOOTINGS

CLIENT:

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
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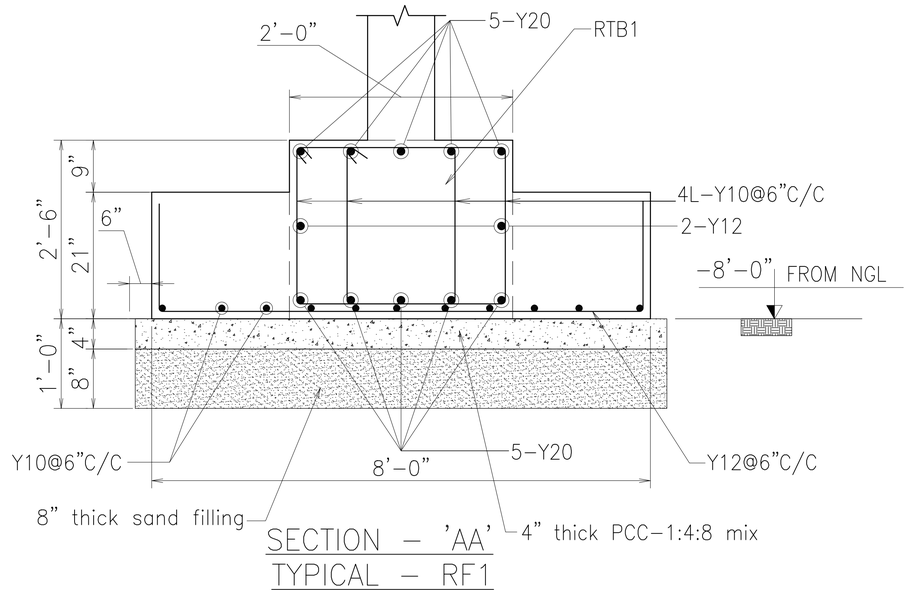
8" thick Sand F1lling
(Thickness shall be increased upto 1'-2" when soil is more clayey at founding level.)

SECTION – 'BB'

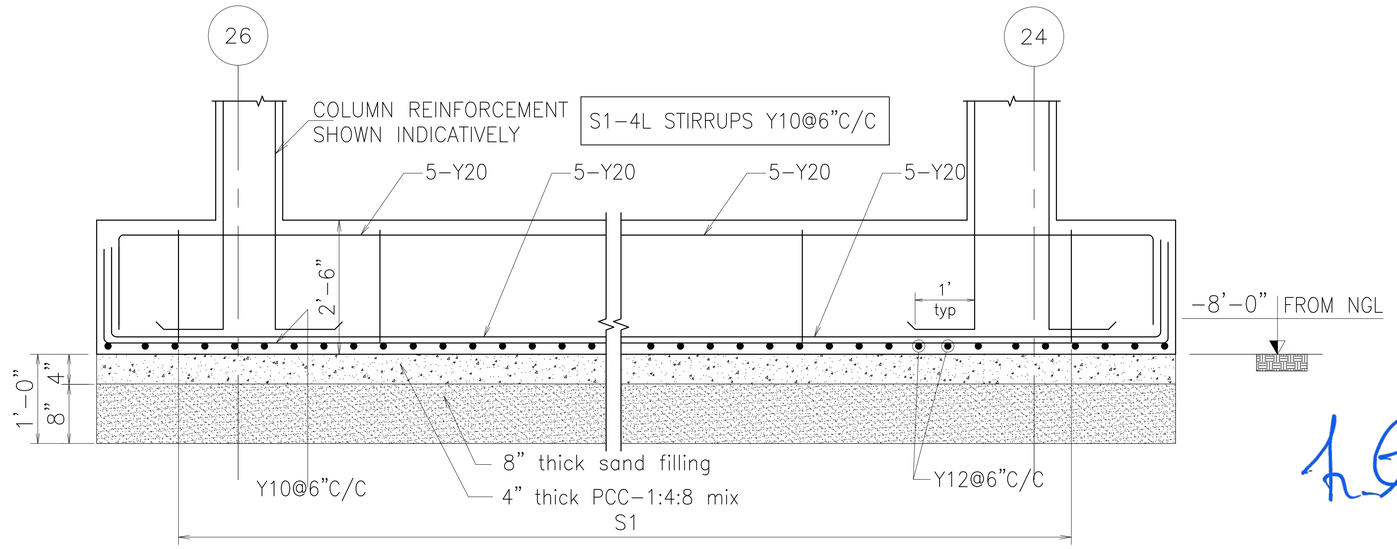
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PROPOSED RESIDENTIAL BUILDING				CLIENT: _____		CONSULTANT: KURAL ASSOCIATES Perception to Execution		
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOOTINGS						NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com		

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SECTION – 'AA'
TYPICAL – RF1



SECTION – 'BB'

GENERAL NOTES:–

1. All dimenstion are in feet & inches.
2. Structural consultant not responsible violation of any structural details for
3. All laps should be staggered. (50xdia.)
4. Clear cover for:
a. Footing = 50mm
b. Column = 40mm
5. Sbc=6t/M2 (at –1.9m level as per Geotechnical Investigation report)
6. Sand filling and PCC can be laid commonly for footings which are much closer to each other but structural concrete must be separated by a wooden plank/paper joint.
7. Any descripencies should be produced to the Engineer's immediately notice before execution.

LEGEND

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

FOOTINGS ARE DESIGNED ONLY FOR S+3 FLOORS.

As shown in Architectural drawing

MATERIAL STRENGTH

I. Grade of concrete – M30

II. Grade of steel – fe 500

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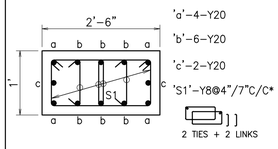
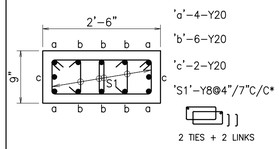
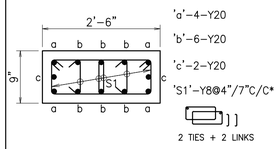
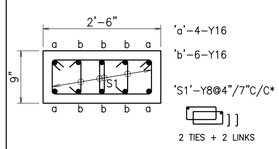
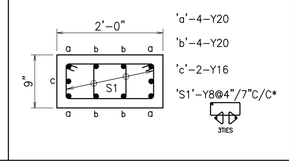
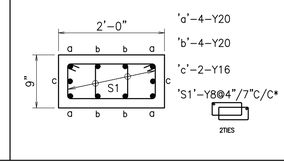
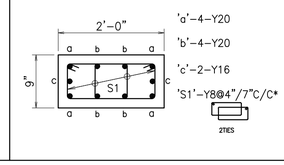
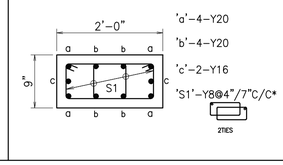
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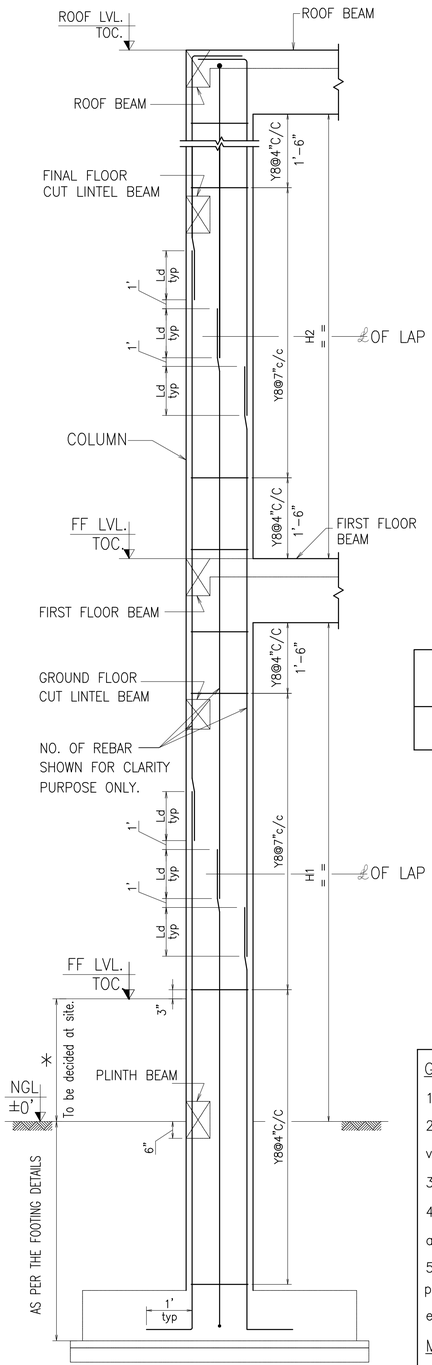
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOOTINGS

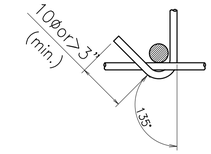
CLIENT: -----

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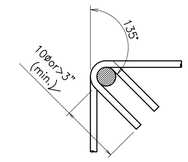
COLUMN NO.	NOS.	FROM FOUNDING LEVEL TO GROUND FLOOR ROOF LEVEL	FROM GROUND FLOOR ROOF LEVEL TO FIRST FLOOR ROOF LEVEL	FROM FIRST FLOOR ROOF LEVEL TO SECOND FLOOR ROOF LEVEL	FROM SECOND FLOOR ROOF LEVEL TO TERRACE	REMARKS
C1	41					COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C2	12					COLUMNS SHALL BE TERMINATED TERRACE LEVEL



Typical column details.



DETAIL–A (typ)



DETAIL–B (typ)

COLUMN ARE DESIGNED ONLY FOR S+3 FLOORS.
As shown in Architectural drawing

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 – M40
II. Grade of steel – fe 500

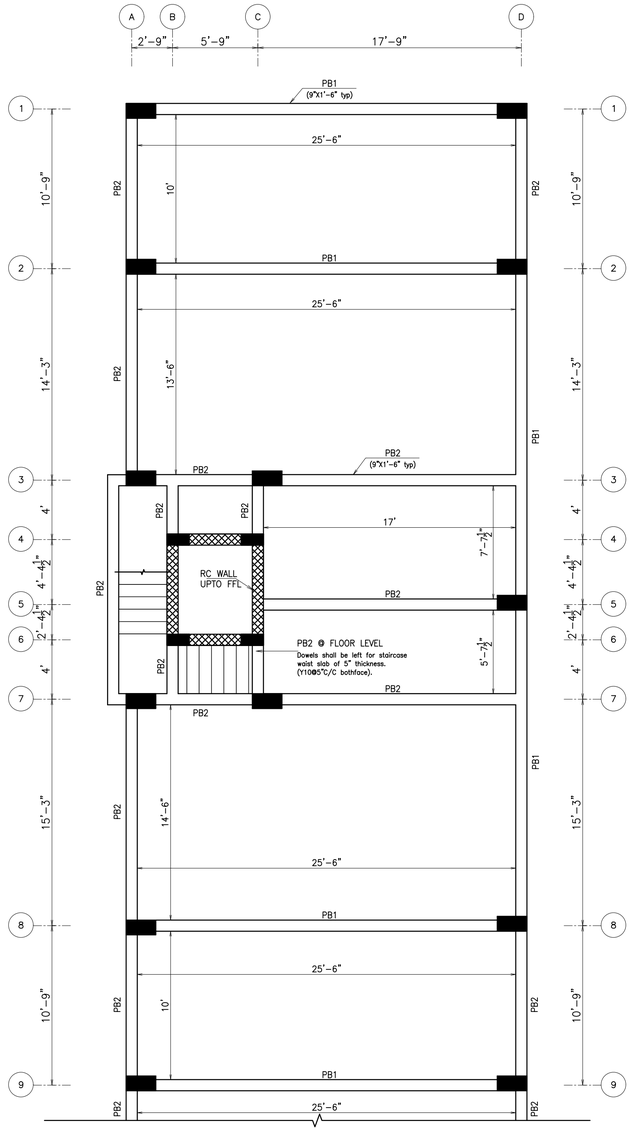
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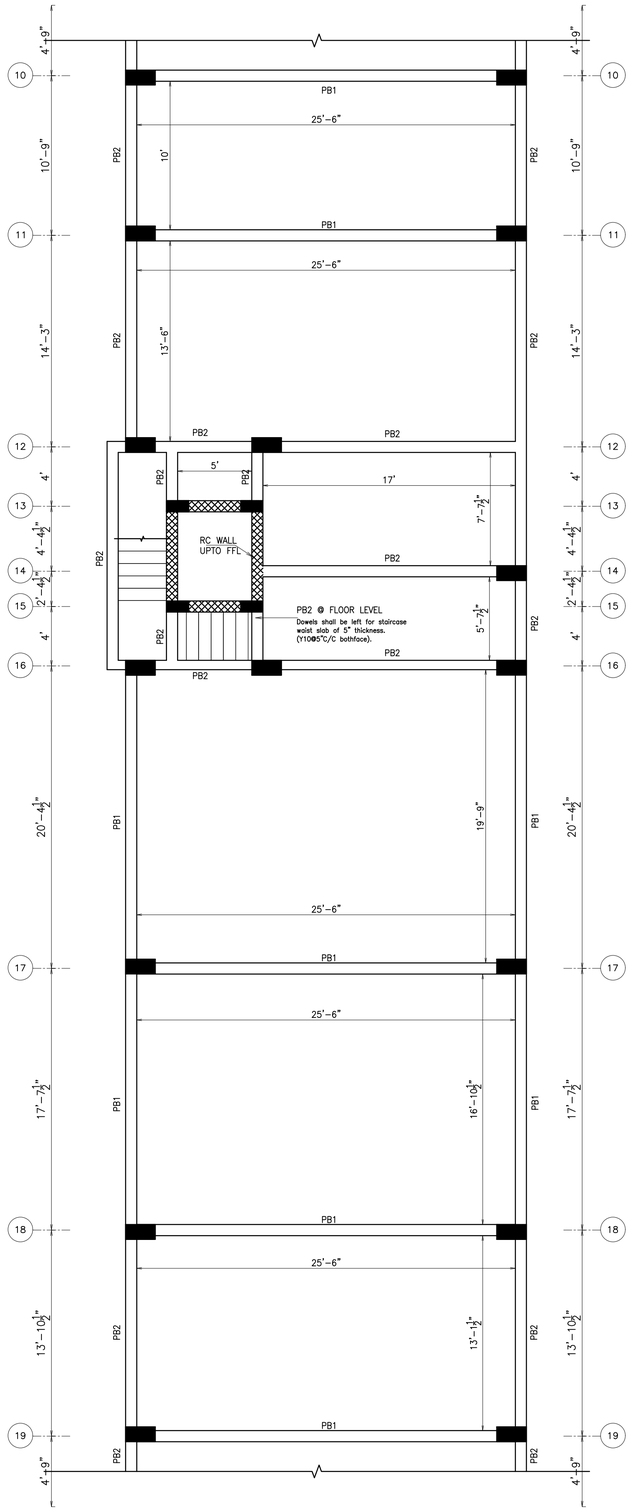
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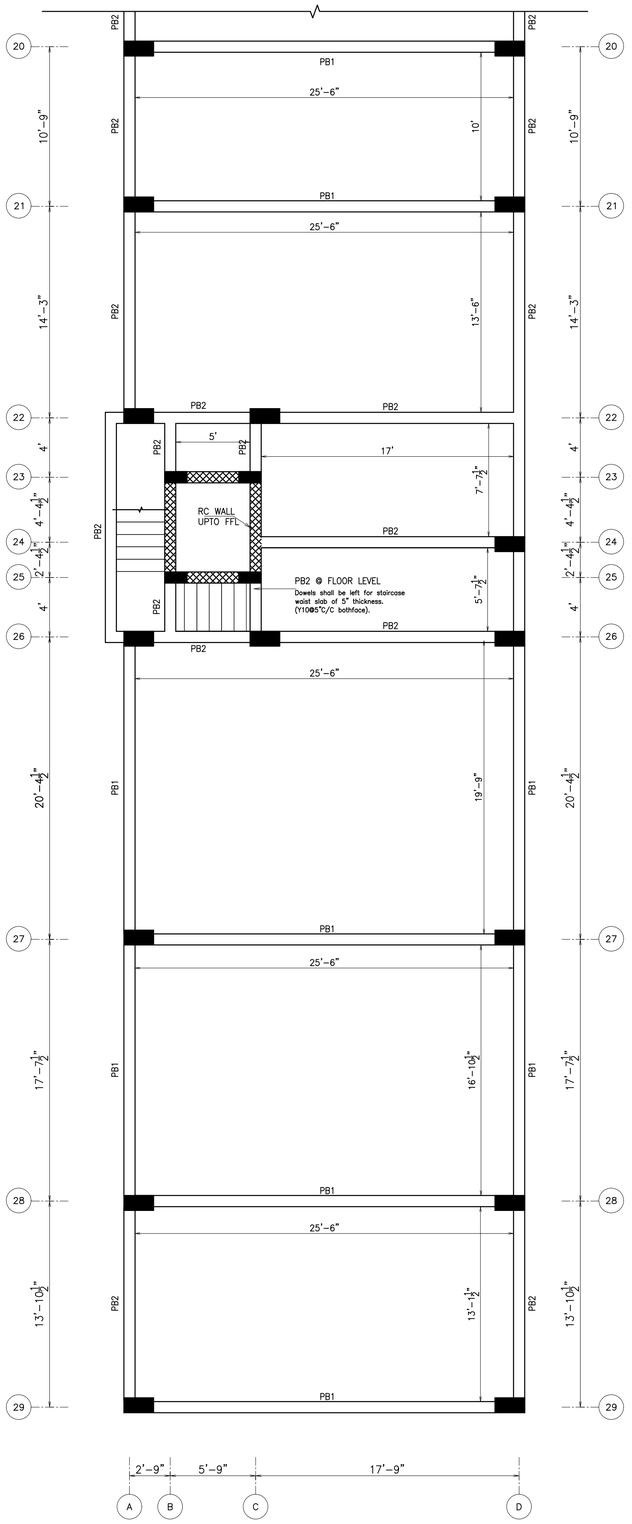
JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 4 (A3 SHEET)	
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LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF COLUMNS		

8	TBN	22/07/2025	
7			
6			
5	RO	FOR APPROVAL	







LAYOUT OF PLINTH BEAMS AT NGL

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Sheet: 5 (A3 SHEET)			
All dimensions are in Feets and Inches			
JOB NO: KAAF0001			
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TBN		TBN	7/22/2025

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

	Sign	Approved by	Date
CLIENT:		TBN	7/22/2025

	Sign	Revision
		R0

CONSULTANT:

KURAL ASSOCIATES
Perception to Execution

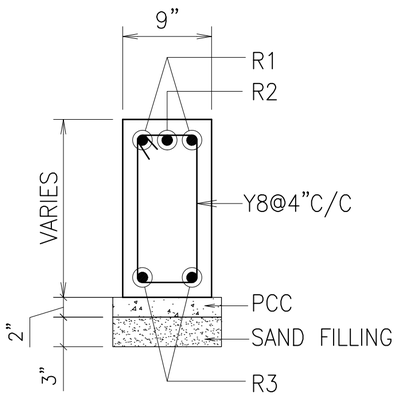
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LEGEND

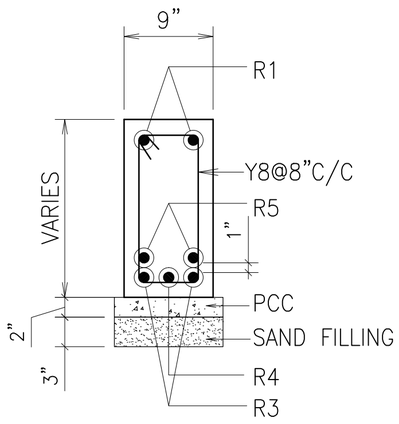
℄	:	CENTRE LINE
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FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
━	:	SITE BOUNDARY

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

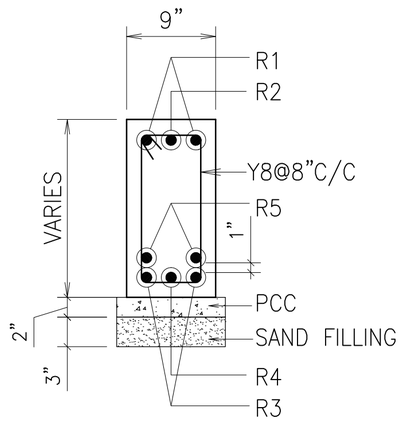
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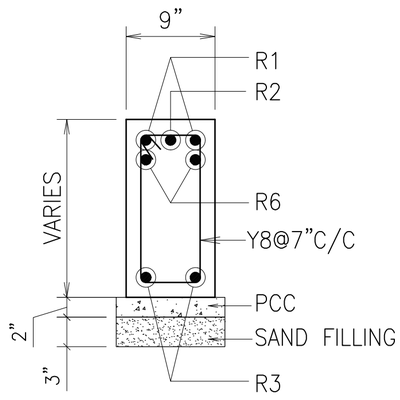
SECTION 1–1



SECTION 2–2

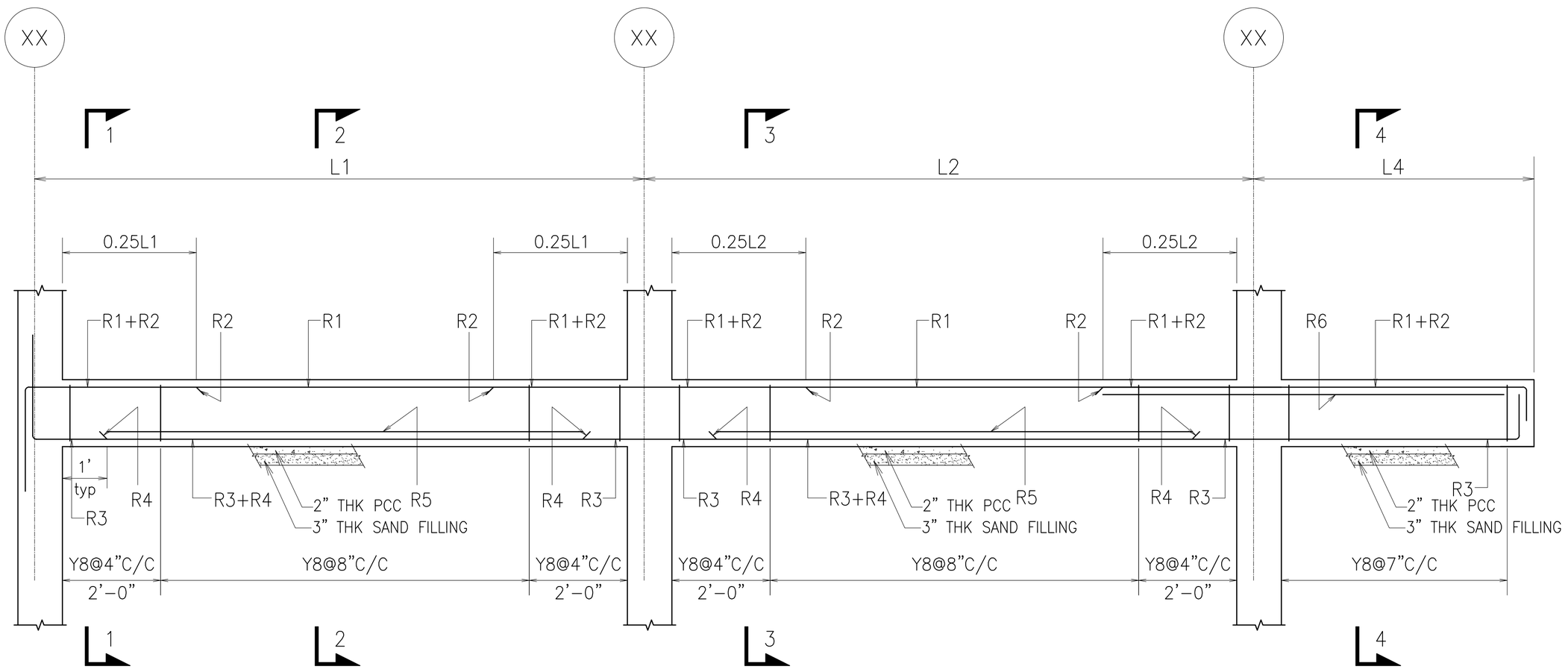


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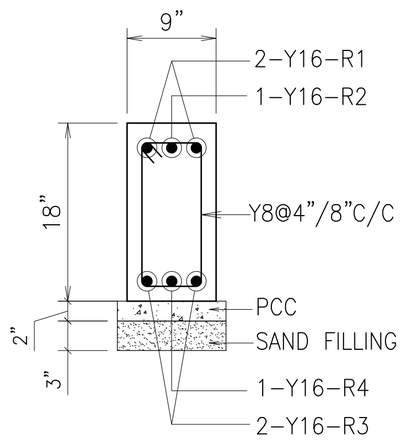


SECTION 4–4

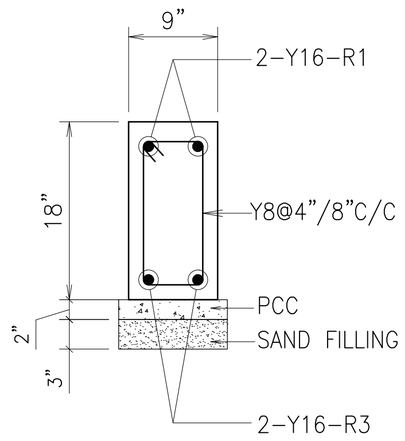
NOTE:
SECTION 1–1,2–2,3–3&4–4 ARE ONLY FOR EXPLANATORY PURPOSE.



TYPICAL PLINTH BEAM DETAILS



C.S OF PB1
[9”X1’–6”]



C.S OF PB2
[9”X1’–6”]

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LEGEND

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

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

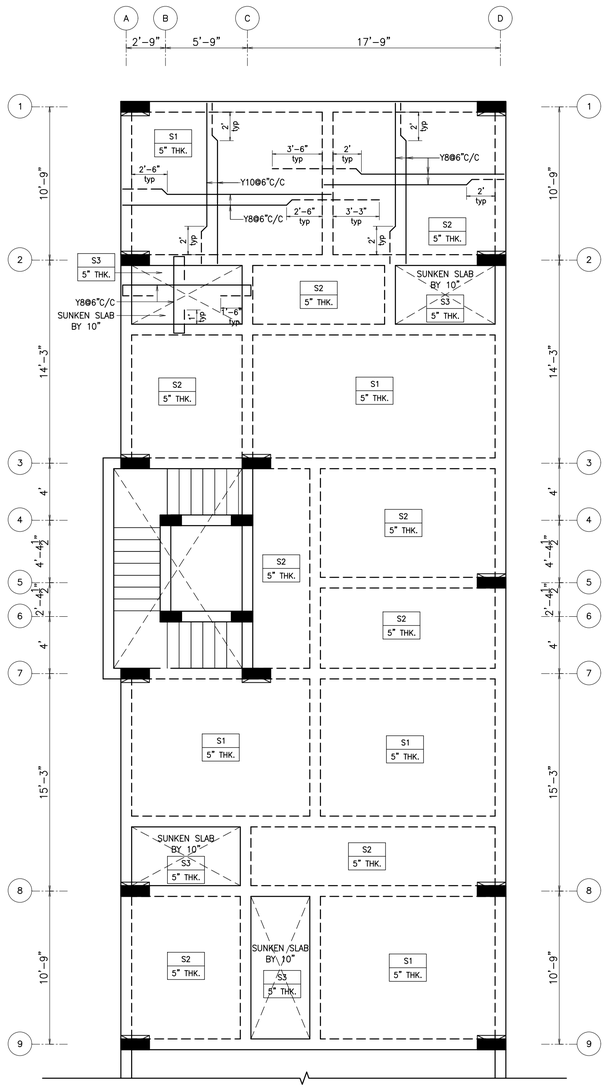
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Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	22/07/2025		TBN	22/07/2025		R0

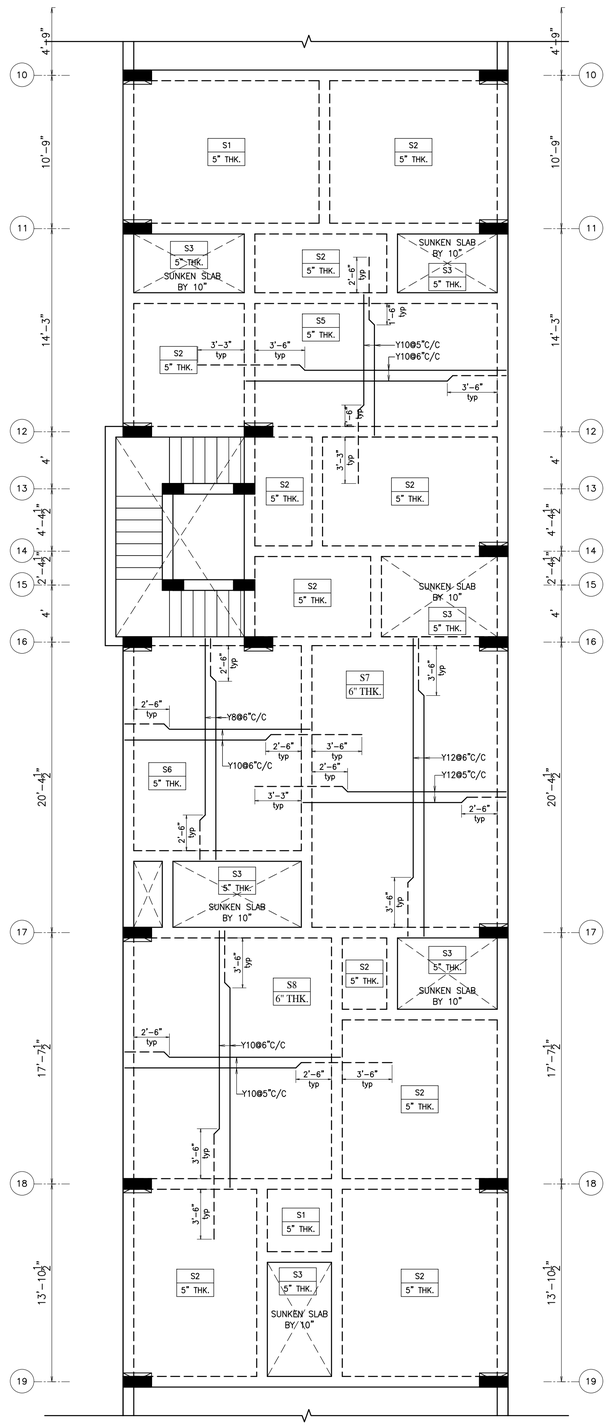
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

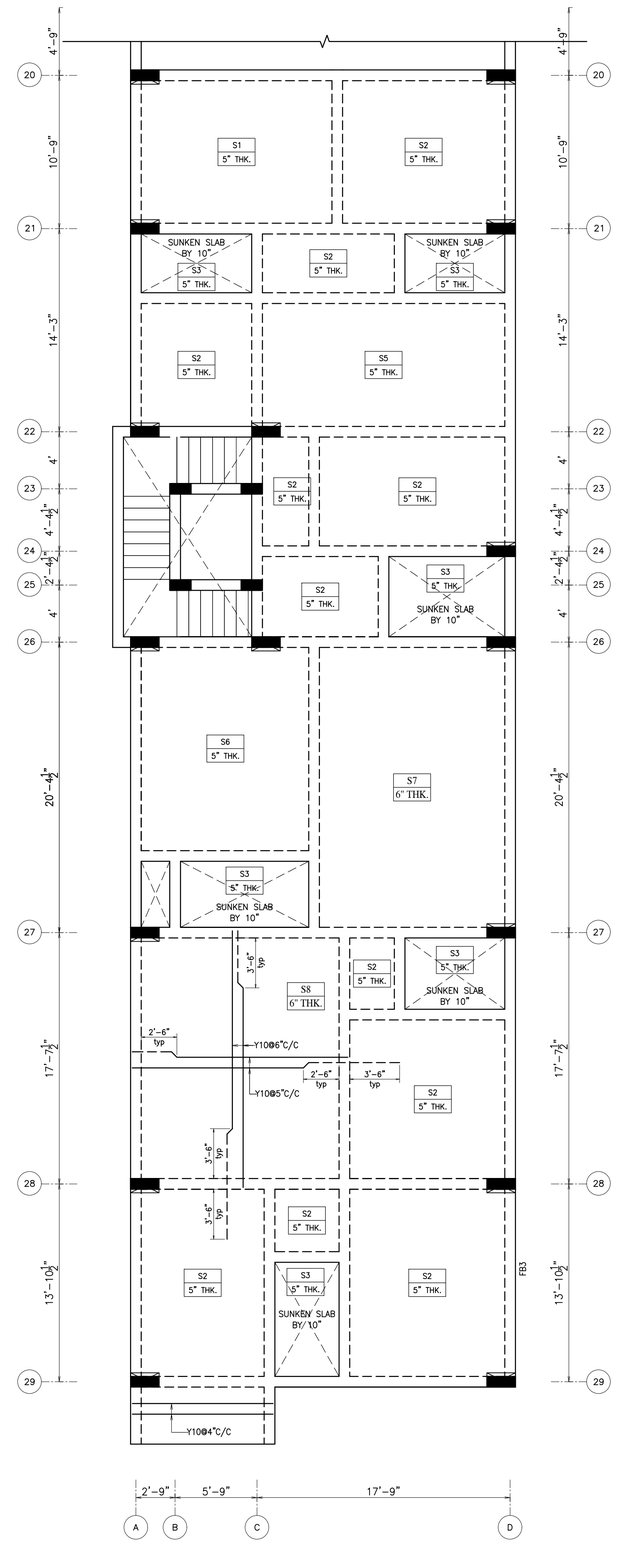
CLIENT:
_____

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
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LAYOUT OF TYPICAL FLOOR ROOF SLAB



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RO	FOR APPROVAL	07/02/2026	TBN

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 7 (A3 SHEET)

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	TBN		TBN	07-02-2026		TBN	07-02-2026	R0

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF TYPICAL FLOOR ROOF SLAB AND BEAM

CLIENT: _____

CONSULTANT:

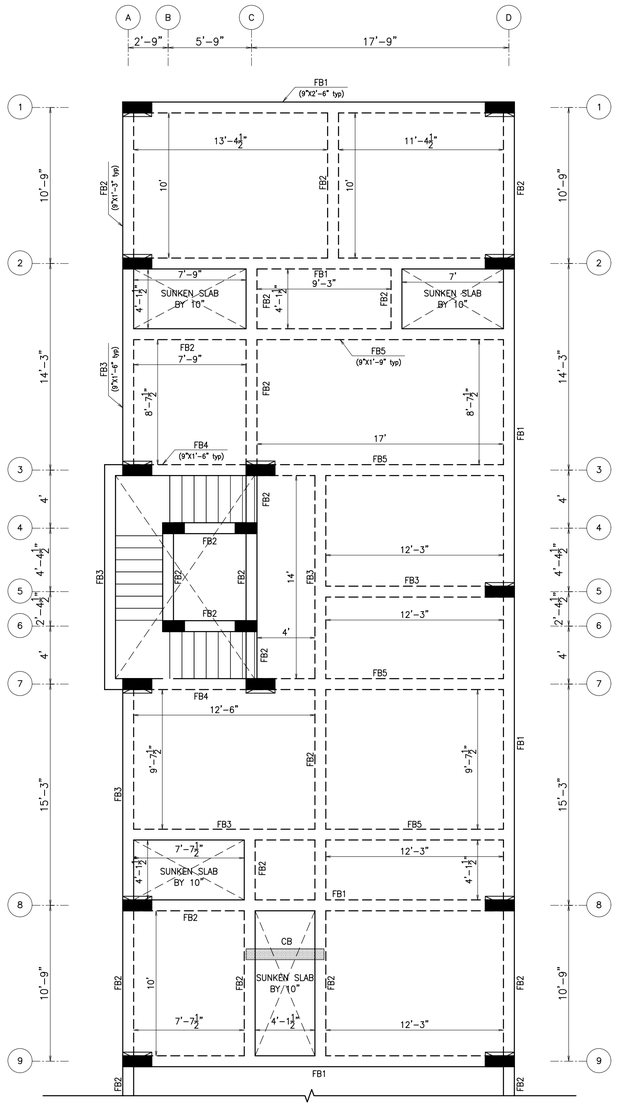
KURAL ASSOCIATES
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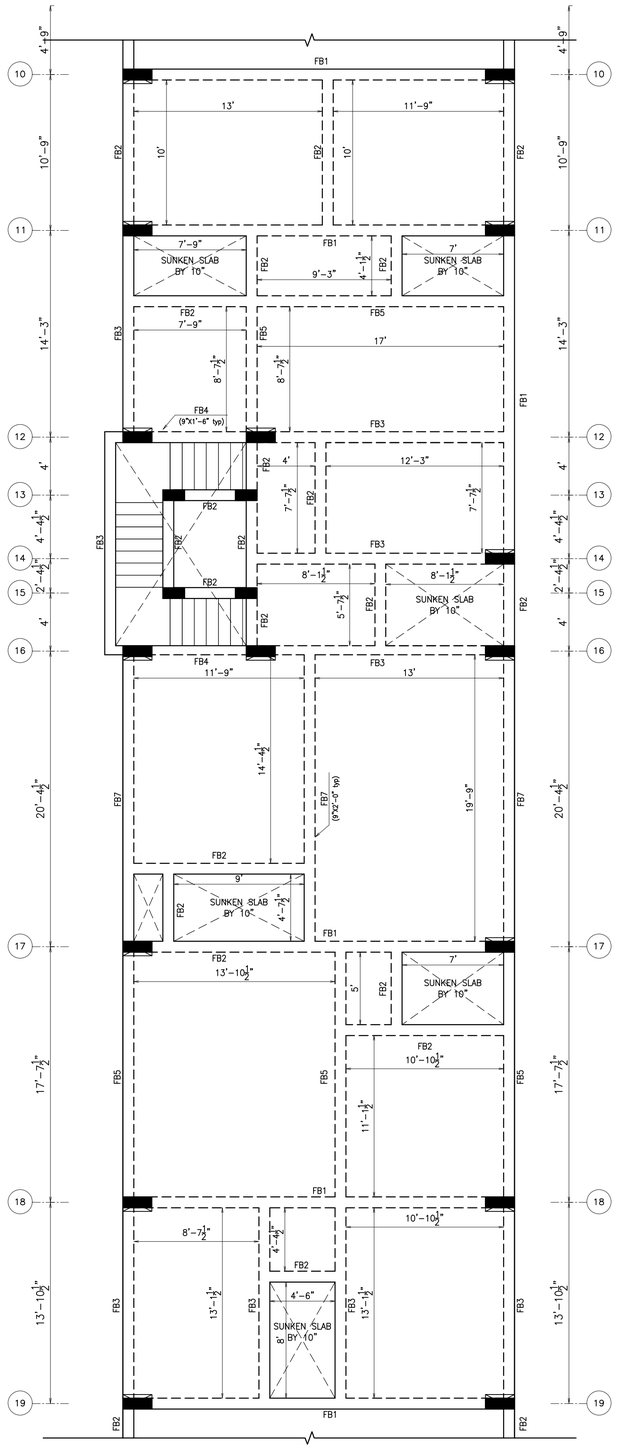
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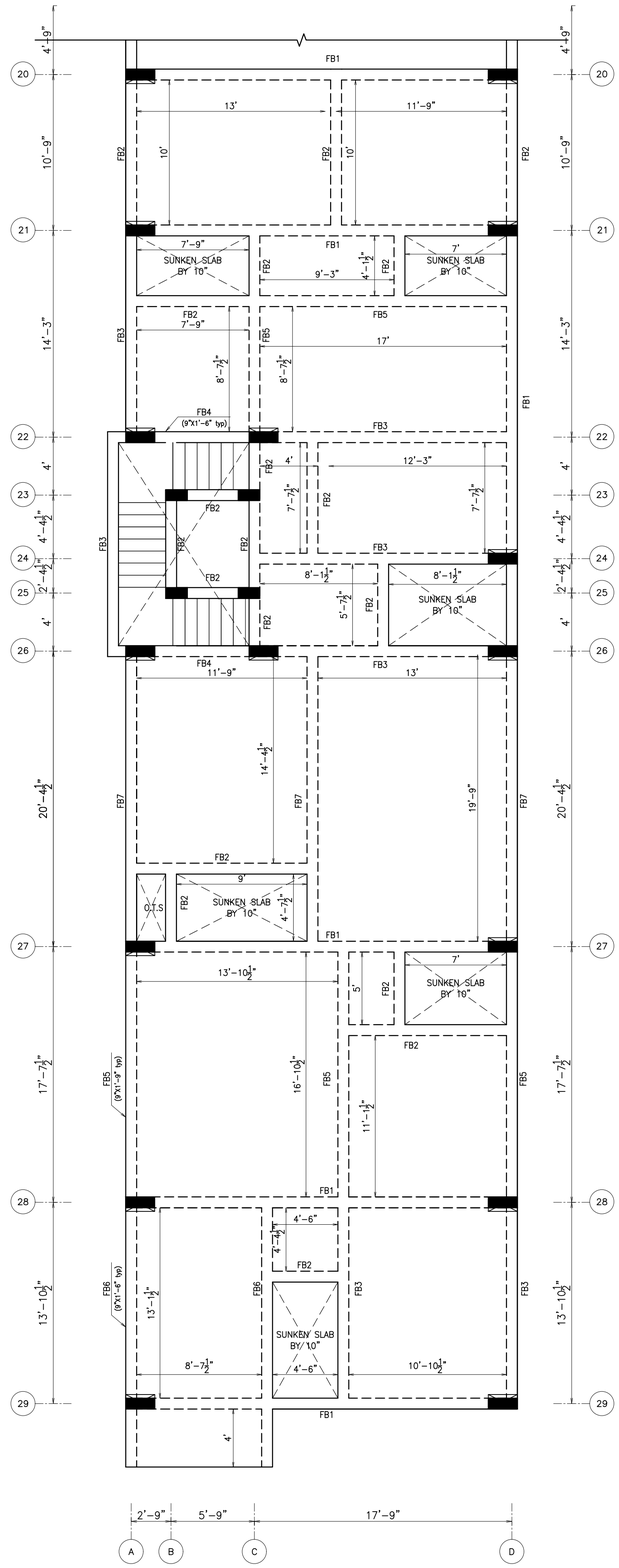
- ℄ : CENTRE LINE
- F.F : FIRST FLOOR
- S1 : SLAB-1
- TYP. : TYPICAL
- ╳ : COLUMN TERMINATED
- ☒ : SUNKEN SLAB
- THK. : THICKNESS OF SLAB

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







LAYOUT OF TYPICAL FLOOR ROOF BEAM

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8	TBN	07/02/2026					
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6							
5	RO	FOR APPROVAL					

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	07-02-2026		TBN	07-02-2026		R0

CLIENT:

CONSULTANT:

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PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF TYPICAL FLOOR ROOF SLAB BEAM

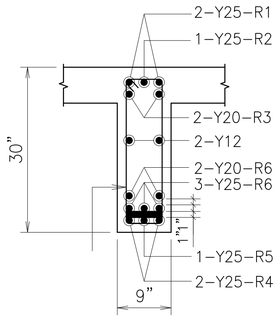
LEGEND

- C.L : CENTRE LINE
- F.F : FIRST FLOOR
- S1 : SLAB-1
- TYP. : TYPICAL
- ⊗ : COLUMN TERMINATED
- ☒ : SUNKEN SLAB
- THK. : THICKNESS OF SLAB

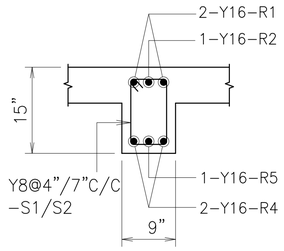
NOTE:

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

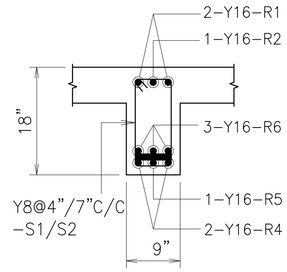
R0	FOR APPROVAL	07/02/2026		TBN



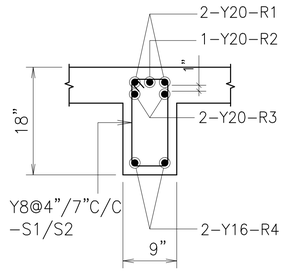
C.S OF FB1
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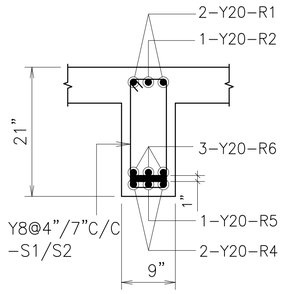
C.S OF FB2
[9"X1'–3"]



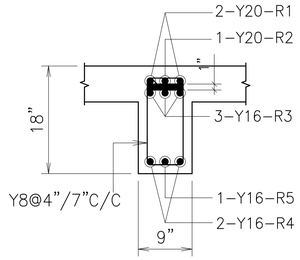
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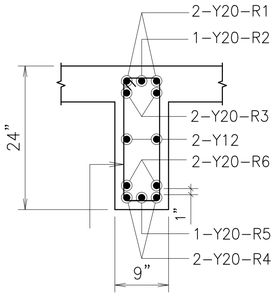
C.S OF FB4
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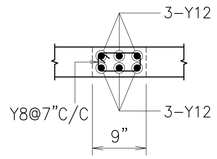
C.S OF FB5
[9"X1'–9"]



C.S OF FB6
[9"X2'–0"]



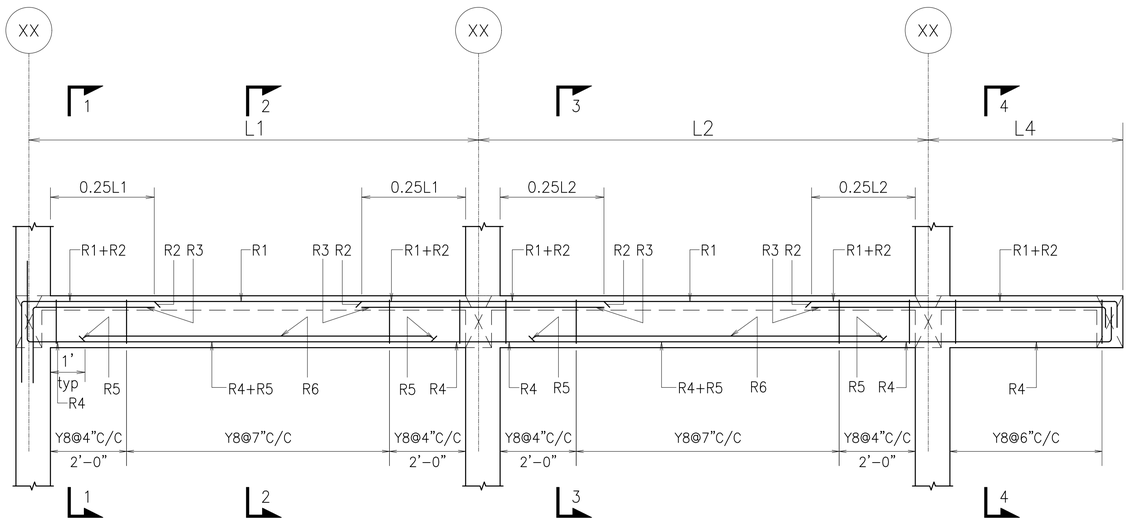
C.S OF FB7
[9"X1'–6"]



C.S OF CB
(CONCEALED BEAM)

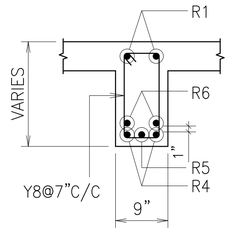
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

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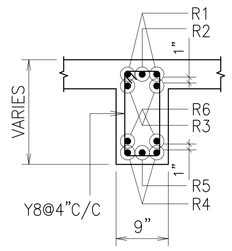


TYPICAL FLOOR BEAM DETAILS

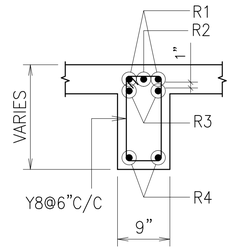
NOTE:
SECTION 1–1,2–2,3–3&4–4 ARE ONLY FOR EXPLANATORY PURPOSE.



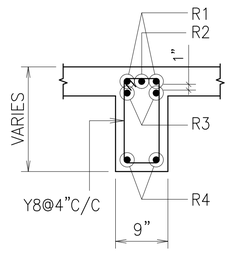
SECTION 2–2



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–17.
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: 8 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	07/02/2026		TBN	07/02/2026		R0

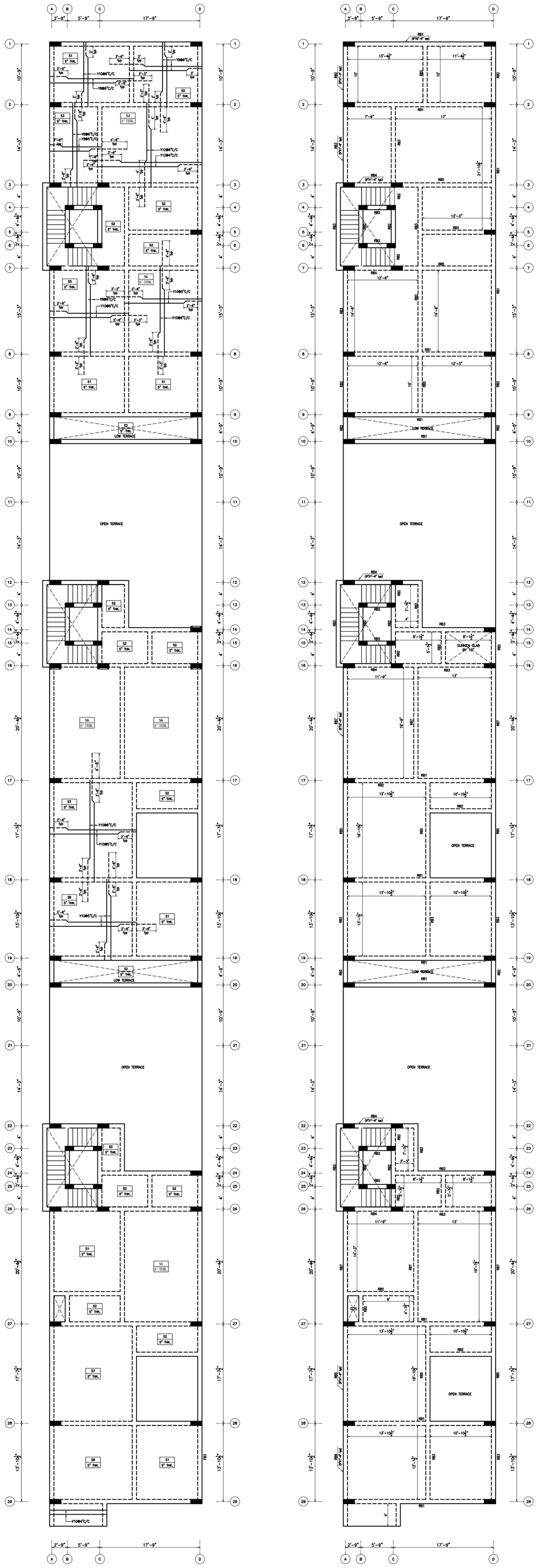
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF TYPICAL FLOOR ROOF BEAMS

CLIENT:
_____

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
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LAYOUT OF THIRD FLOOR ROOF SLAB AND BEAM

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
- F.F : FIRST 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	07–02–2026		TBN	07–02–2026		R0

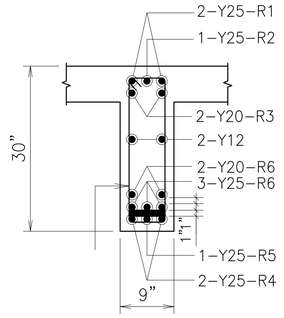
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB AND BEAM

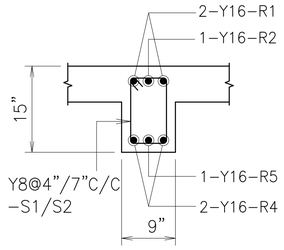
CLIENT: _____

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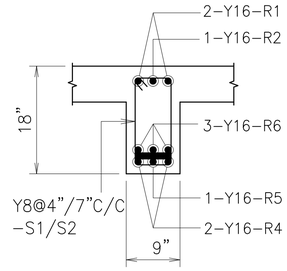
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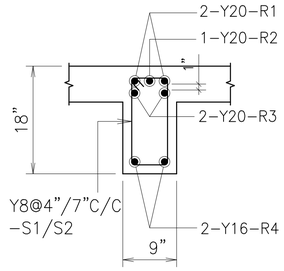
C.S OF RB1
[9"X2'–6"]



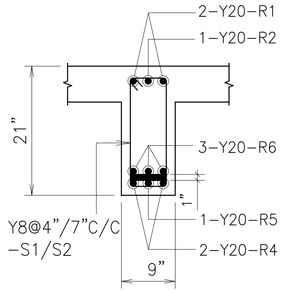
C.S OF RB2
[9"X1'–3"]



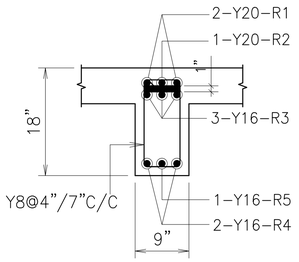
C.S OF RB3
[9"X1'–6"]



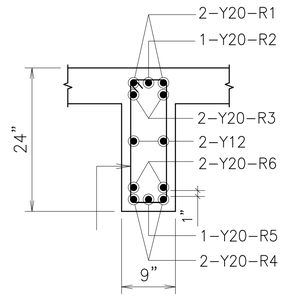
C.S OF RB4
[9"X1'–6"]



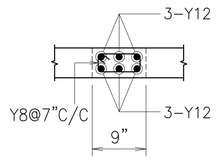
C.S OF RB5
[9"X1'–9"]



C.S OF RB6
[9"X2'–0"]



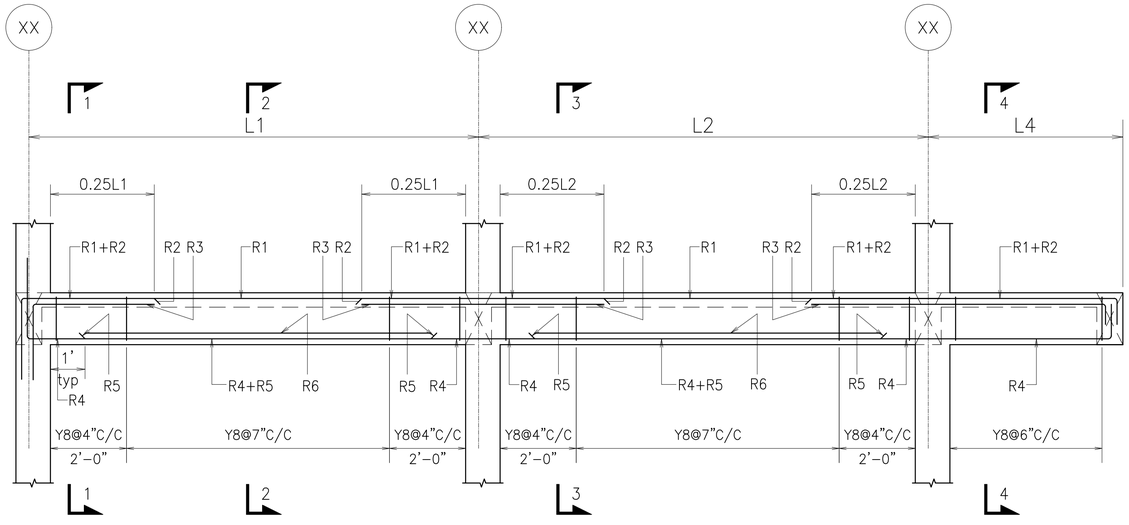
C.S OF RB7
[9"X1'–6"]



C.S OF CB
(CONCEALED BEAM)

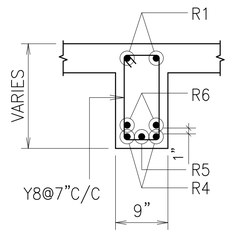
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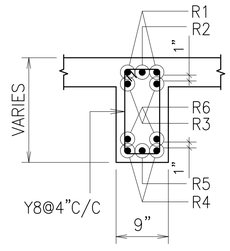


TYPICAL FLOOR BEAM DETAILS

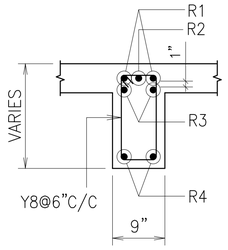
NOTE:
SECTION 1–1,2–2,3–3&4–4 ARE ONLY FOR EXPLANATORY PURPOSE.



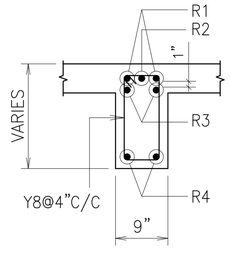
SECTION 2–2



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–17.
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: 14 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	07/02/2026		TBN	07/02/2026		R0

PROPOSED RESIDENTIAL BUILDING	CLIENT:	CONSULTANT: KURAL ASSOCIATES Perception to Execution
LAYOUT OF REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAMS	-----	NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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