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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:- PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 2 FLOORS + 3RD FLOOR (PART) (HEIGHT - 14.0M) RESIDENTIAL BUILDING WITH 15 DWELLING UNITS AT MEDAVAKKAM, CHENNAI 600100, COMPRISED IN OLD S.NO.38 (PT) AND NEW S.NO.38/1A3A & 38/1A4A OF MEDAVAKKAM VILLAGE, WITHIN THE LIMITS OF ST.THOMAS MOUNT PANCHAYAT UNION.

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
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Mob: 9791776685 / Tel No: 044-79670563

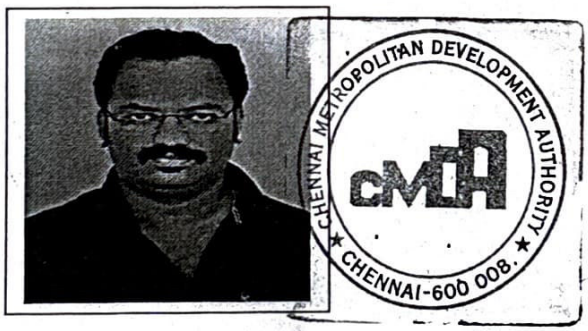
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. T. BHARANITHARAN** has enrolled as **Registered Structural Engineer Grade-II (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E.,(Structural Engg.)** and experience in the relevant field for **8 years**.

He has been given the Registration No.**SE/GR-II/2019/04/036 Renewed** on **01.04.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **31.03.2029**.



(A. MEGANATHAN)
Superintendent

T.BHARANITHARAN,M.E.,C.Eng(I).
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PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 2 FLOORS + 3RD FLOOR (PART) (HEIGHT - 14.0M) RESIDENTIAL BUILDING WITH 15 DWELLING UNITS AT MEDAVAKKAM, CHENNAI 600100, COMPRISED IN OLD S.NO.38 (PT) AND NEW S.NO.38/1A3A & 38/1A4A OF MEDAVAKKAM VILLAGE, WITHIN THE LIMITS OF ST.THOMAS MOUNT PANCHAYAT UNION.

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

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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 550D

C. Foundation Details

Type of foundation pile	Open shallow foundation
Allowable capacity as per soil test report	21tons/m²
Depth of foundation	2.0m 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

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E. Beam Details

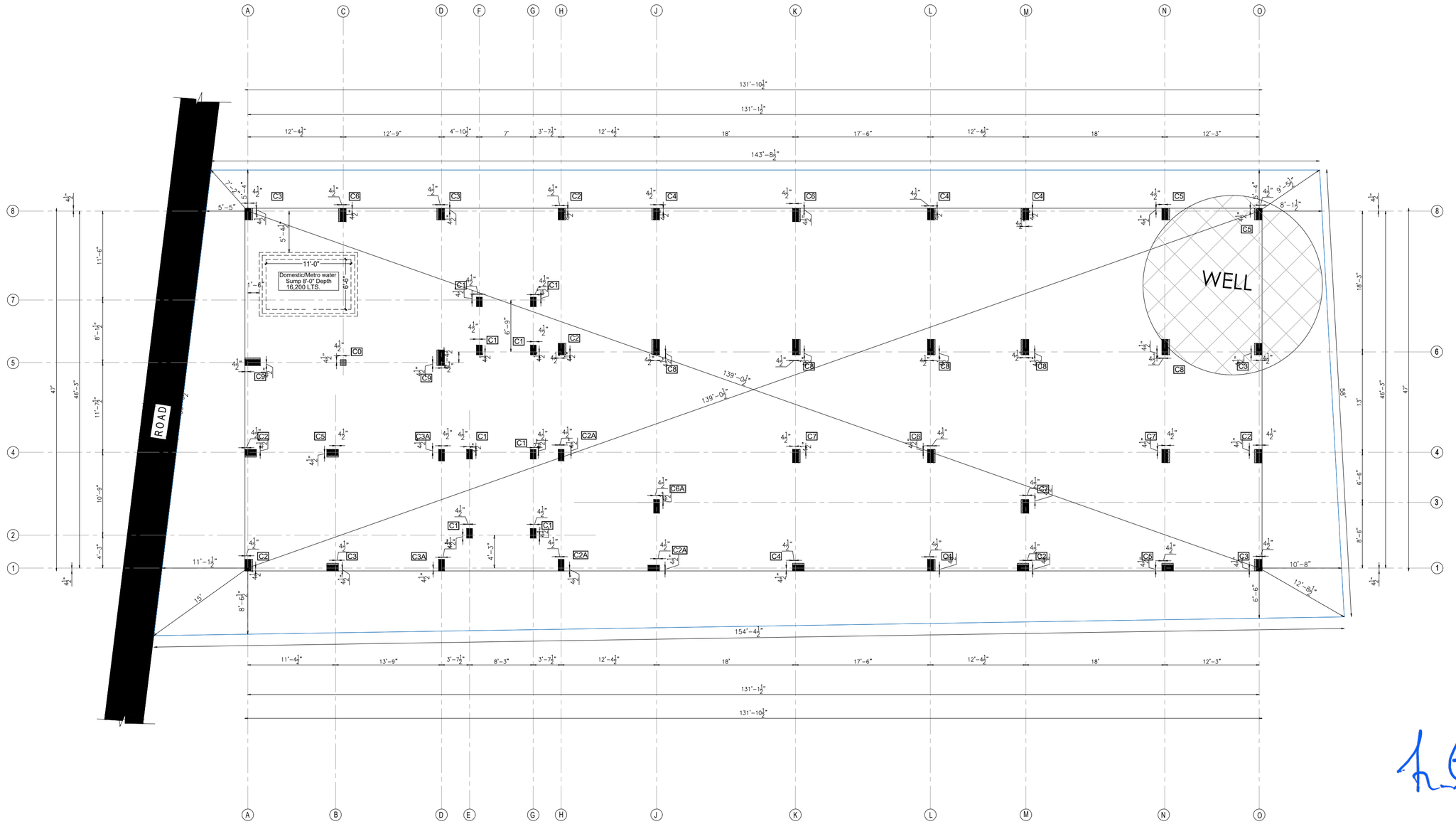
Size of the beam provided	230 x 600mm, 230 x 675mm,
Bottom steel cover to beam	25mm
Diameter of main bars used	25mm, 20mm, 16mm, 12mm
Stirrups used	2 legged stirrups 8mm dia

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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JOB NO: KASN26	All dimensions are in Feets and Inches			Sheet: 01 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026	TBN	01/10/2026		R0

CLIENT:
M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

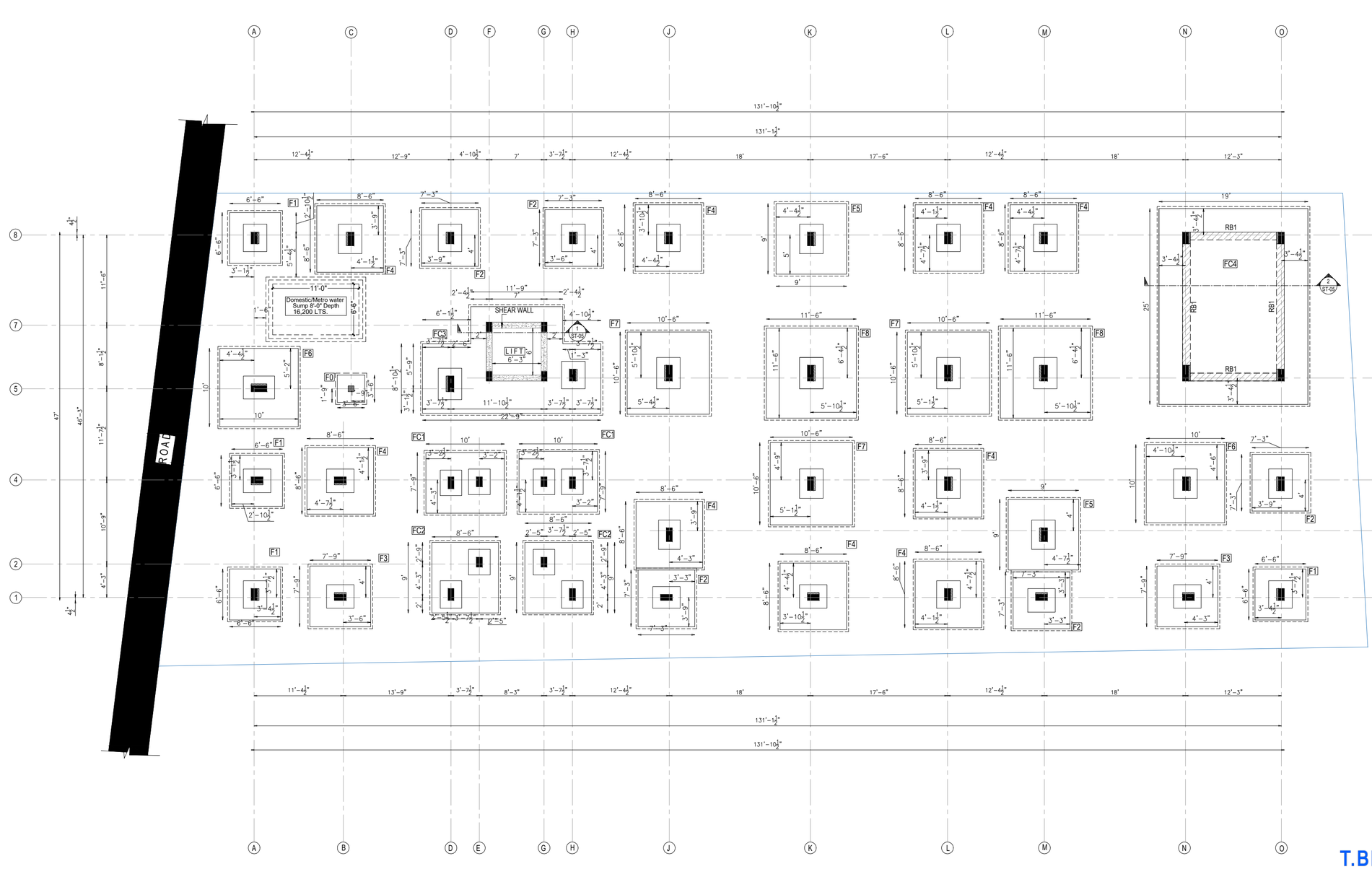
LAYOUT OF COLUMN SETTING OUT PLAN

CONSULTANT:
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R0	GOOD FOR CONSTRUCTION	01/10/2026

TBN

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LAYOUT OF FOOTINGS

LEGEND

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

JOB NO: KASN26
All dimensions are in Feets and Inches
Sheet: 02 (A3 SHEET)

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Date		01/10/2026	01/10/2026

Revision	Sign	Date
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CONSULTANT:

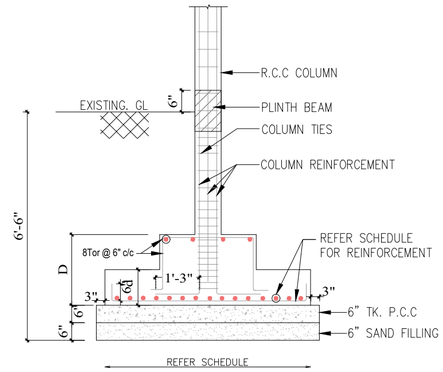
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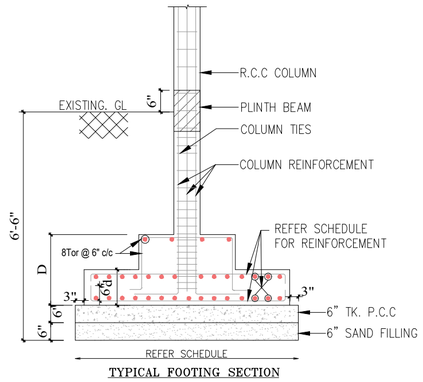
PROPOSED RESIDENTIAL BUILDING

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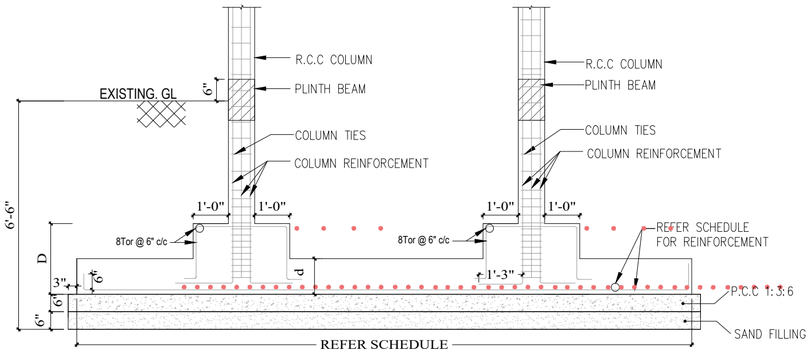
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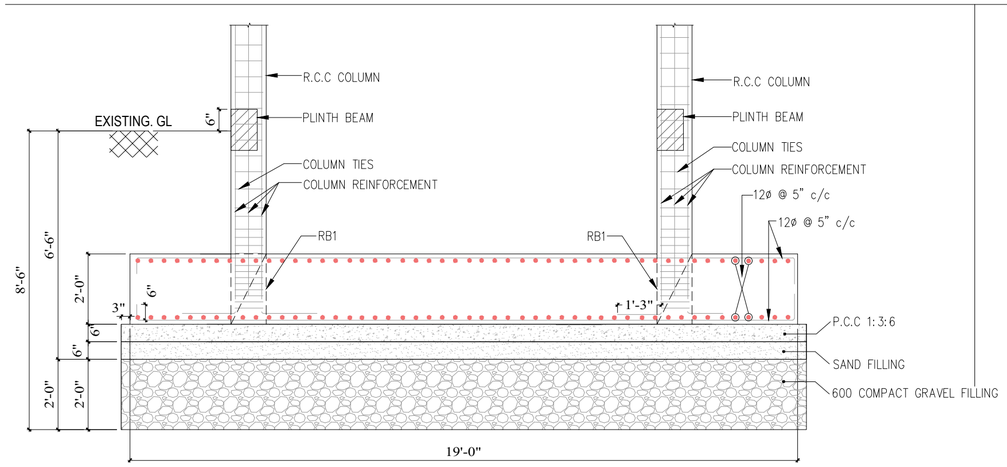
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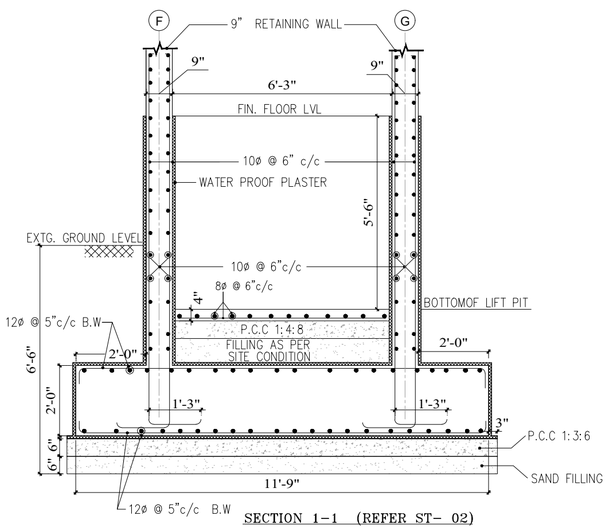
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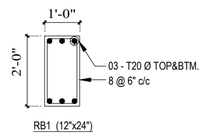
COMBINED FOOTING SECTION
(REFER ST- 02,ST-04)



CF4-COMBINED FOOTING SECTION
(REFER ST- 02&ST-04)



SECTION 1-1 (REFER ST- 02)
CF3-LIFT



RB1 (12"x24")

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOOTINGS

PLINTH BEAM REINFORCEMENT DETAIL (M25)			
NAME	CS @ LEFT END	CS @ MIDDLE	CS @ RIGHT END
PB1 (9" x 15")	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 8" c/c; 2Nos. 12Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)
PB2 (9" x 15")	1Nos. 12Ø(TE) 2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 8" c/c; 2Nos. 12Ø(BC) 1Nos. 12Ø(BE)	1Nos. 12Ø(TE) 2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)
PB3 (9" x 15")	1Nos. 16Ø(TE) 2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 8" c/c; 1Nos. 16Ø(BE) 2Nos. 12Ø(BC)	1Nos. 16Ø(TE) 2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 12Ø(BC)
PB4 (9" x 15")	1Nos. 12Ø(TE) 2Nos. 16Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 16Ø(BC)	2Nos. 16Ø(TC); 2 Legged stirrups 8Tor @ 8" c/c; 1Nos. 12Ø(BE) 2Nos. 16Ø(BC)	1Nos. 12Ø(TE) 2Nos. 16Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 16Ø(BC)
PB5 (9" x 15")	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 16Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 8" c/c; 2Nos. 16Ø(BC)	2Nos. 12Ø(TC); 2 Legged stirrups 8Tor @ 6" c/c; 2Nos. 16Ø(BC)

LEGEND
- CENTRE LINE
- F.F : FIRST FLOOR
- S1 : SLAB-1
- TYP. : TYPICAL
- COLUMN TERMINATED
- SUNKEN SLAB
- THK. : THICKNESS OF SLAB

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NOTES:
1. USE CONCRETE MIX 1:1:2 (M25) FOR COLUMN.
2. USE CONCRETE MIX 1:1:2 (M25) FOR FOUNDATION AND PLINTH BEAM
3. USE STEEL GRADE Fe 500.
4. USE VIBRATOR FOR ALL CONCRETING WORKS.
5. USE MIN. LAP LENGTH OF 55Ø FOR ALL RODS.
6. THE WATER USED FOR CONCRETE SHOULD BE POTABLE (PH-7).
7. REMOVE BENDS IN ALL RODS (EVEN IN 6MM RODS).
8. AVOID LAPPING AT TENSION PORTIONS.
9. THE GAP BETWEEN THE TWO LAYERS OF REINFORCEMENT SHOULD BE MAINTAINED BY PROVIDING SPACER RODS (DISTANCE SHOULD NOT BE MORE THAN DIA. OF BAR OR 1").
10. CONCRETING NOT PERMITTED WITHOUT THE PERMISSION / APPROVAL/SITE INSPECTION FROM / BY STRUCTURAL ENGINEER.
11. Ø - INDICATES BAR DIAMETER IN mm.
12. COVER FOR FOUNDATION 3" (75 mm)
13. COVER FOR COLUMN 1½" (40 mm)

JOB NO: KASN26		All dimensions are in Feets and Inches			Sheet: 03 (A3 SHEET)	
Designed by	TBN	Checked by	TBN	Approved by	TBN	RO
Sign		Date	01/10/2026	Date	01/10/2026	Revision
		Sign		Sign		Sign

CONSULTANT:

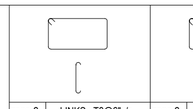
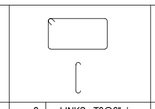
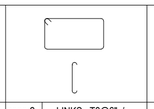
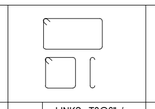
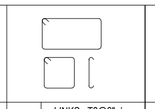
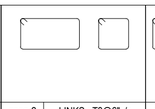
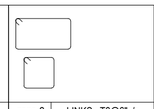
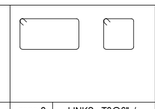
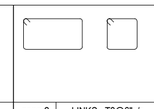
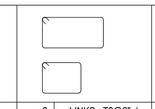
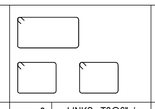
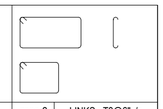
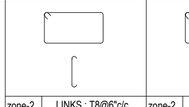
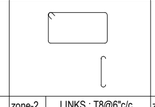
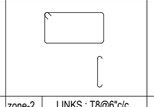
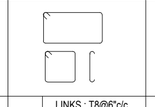
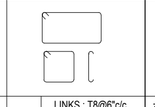
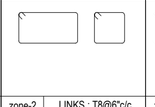
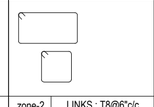
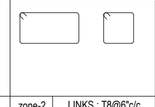
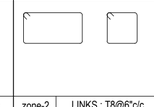
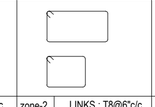
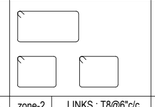
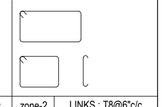
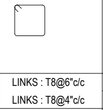
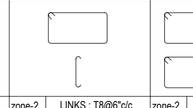
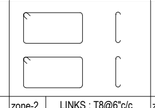
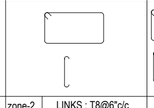
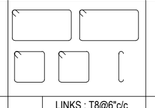
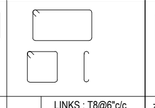
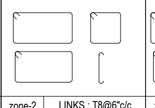
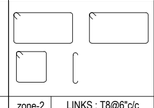
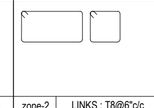
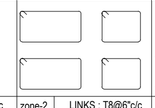
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CLIENT: M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOOTINGS

RO | GOOD FOR CONSTRUCTION | 01/10/2026 | TBN

THIRD FLOOR LVL TO THIRD FLOOR ROOF LVL	-												
		zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c
		M25,FE:550 9" 1'-3" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16	M25,FE:550 9" 1'-6" ●T16	M25,FE:550 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T25 ●T16	M25,FE:550 9" 1'-6" ●T20	M25,FE:550 9" 1'-9" ●T25 ●T20	M25,FE:550 9" 1'-9" ●T25 ●T20	M25,FE:550 9" 1'-9" ●T25	M25,FE:550 9" 2'-0" ●T25	M25,FE:550 9" 2'-0" ●T25 ●T12
		04 - T16 Ø+02 - T12 Ø	06 - T16 Ø	06 - T16 Ø	08 - T16 Ø+02 - T12 Ø	08 - T16 Ø+02 - T12 Ø	06 - T20 Ø+02 - T16 Ø	08 - T20 Ø	06 - T25 Ø+02 - T20 Ø	06 - T25 Ø+02 - T20 Ø	08 - T25 Ø	12 - T25 Ø	08 - T25 Ø+02 - T16 Ø
		C1	C2	C2	C3	C3	C4	C5	C6	C6	C7	C8	C9
FIRST FLOOR LVL TO SECON FLOOR ROOF LVL	-												
		zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c
		M25,FE:550 9" 1'-3" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16	M25,FE:550 9" 1'-6" ●T16	M25,FE:550 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T25 ●T16	M25,FE:550 9" 1'-6" ●T20	M25,FE:550 9" 1'-9" ●T25 ●T20	M25,FE:550 9" 1'-9" ●T25 ●T20	M25,FE:550 9" 1'-9" ●T25	M25,FE:550 9" 2'-0" ●T25	M25,FE:550 9" 2'-0" ●T25 ●T12
		04 - T16 Ø+02 - T12 Ø	06 - T16 Ø	06 - T16 Ø	08 - T16 Ø+02 - T12 Ø	08 - T16 Ø+02 - T12 Ø	06 - T25 Ø+02 - T16 Ø	08 - T20 Ø	06 - T25 Ø+02 - T20 Ø	06 - T25 Ø+02 - T20 Ø	08 - T25 Ø	12 - T25 Ø	10 - T25 Ø
		C1	C2	C2	C3	C3	C4	C5	C6	C6	C7	C8	C9
FOUNDATION TO STILTS FLOOR ROOF LVL													
	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	LINKS : T8@6"c/c LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c	zone-2 LINKS : T8@6"c/c zone-1 LINKS : T8@4"c/c
	M25,FE:550 9" 9" ●T12	M25,FE:550 9" 1'-3" ●T16 ●T12	M25,FE:550 3" 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16	M25,FE:550 3" 9" 1'-6" ●T16 ●T12	M25,FE:550 9" 1'-6" ●T16 ●T12	M25,FE:550 3" 9" 1'-6" ●T25 ●T16	M25,FE:550 3" 9" 1'-6" ●T20 ●T12	M25,FE:550 3" 9" 1'-9" ●T25 ●T20 ●T12	M25,FE:550 9" 1'-9" ●T25 ●T20	M25,FE:550 3" 9" 1'-9" ●T25 ●T12	M25,FE:550 3" 9" 2'-0" ●T25 ●T12	M25,FE:550 3" 9" 2'-0" ●T25 ●T12
	04 - T12 Ø	04 - T16 Ø+02 - T12 Ø	06 - T16 Ø+03 - T12 Ø	06 - T16 Ø	8 - T16 Ø+02 - T12 Ø+04 - T12 Ø	08 - T16 Ø+02 - T12 Ø	06 - T25 Ø+02 - T16 Ø	08 - T20 Ø+03 - T12 Ø	06 - T25 Ø+02 - T20 Ø+04 - T12 Ø	06 - T25 Ø+02 - T20 Ø	08 - T25 Ø+04 - T12 Ø	12 - T25 Ø+04 - T12 Ø	10 - T25 Ø+04 - T12 Ø
COLUMN MARKED	C0-UPTO PLINTH TOP LVL	C1	C2	C2A	C3	C3A	C4	C5	C6	C6A	C7	C8	C9
GRID	C5	E2 - E4 - F6 - F7- G2 - G4 - G6 -G7	A1 - A4 - H6 - H8 - M1- M4	H1 - J1 - H4	B1 - A8 - D8 - O1 - O6	D1 - D4	J8 - K1- L1 - L8 - M8	B4 - N1- N8 - O8	C8 - K8 - L4	J3	K4 - M3 - N4	J6 - K6 - L6 - M6 - N6	A5 - D5
NO OF COLUMN	01	08	06	03	05	02	05	04	03	01	03	05	02
												TOTAL	47 + 01 = 48

FOOTING DETAILS (M25)

NAME	FOOTING LOCATION	FOOTING SIZE	DEPTH		REINFORCEMENT (BOTHWAYS)		NO OF FOOTINGS
		L x B	"D"	"d"	BAR -1	BAR -2	
F0	C5	3'-6" x 3'-6"	-	12"	10 @ 6" c/c	10 @ 6" c/c	01
F1	A1 - A4 - A8 - O1	6'-6" x 6'-6"	18"	12"	10 @ 5" c/c	10 @ 5" c/c	04
F2	D8 - H8 - J1 - M1 - O4	7'-3" x 7'-3"	24"	14"	12 @ 6" c/c	12 @ 6" c/c	05
F3	B1 - N1	7'-9" x 7'-9"	24"	14"	12 @ 6" c/c	12 @ 6" c/c	02
F4	B4 - C8 - J8 - J3 - K1 L1 - L4 - L8 - M8	8'-6" x 8'-6"	26"	14"	12 @ 6" c/c	12 @ 6" c/c	09
F5	K8 - M3	9'-0" x9'-0"	30"	15"	12 @ 4" c/c	12 @ 4" c/c	02
F6	A5 - N4	10'-0" x10'-0"	30"	15"	TOP 8 @ 6" c/c BOTTOM 16 @ 5" c/c	8 @ 6" c/c 16 @ 5" c/c	02
F7	J6 - K4 - L6	10'-6" x10'-6"	32"	15"	TOP 10 @ 6" c/c BOTTOM 16 @ 5" c/c	10 @ 6" c/c 16 @ 5" c/c	03
F8	K6 - M6	11'-6" x11'-6"	32"	15"	TOP 10 @ 6" c/c BOTTOM 16 @ 5" c/c	10 @ 6" c/c 16 @ 5" c/c	02
						TOTAL	29+01 = 30

COMBINED FOOTING DETAILS (M25)

NAME	FOOTING LOCATION	FOOTING SIZE	DEPTH		REINFORCEMENT (BOTHWAYS)		NO OF FOOTINGS
		L x B	"D"	"d"	BAR -1	BAR -2	
CF1	D4 - E4 - G4 - H4	10'-0" x 7'-9"	24"	12"	12@ 5" c/c	12@ 5" c/c	01
CF2	D1- E2 - H1-G2-F5	9'-0" x 8'-6"	24"	12"	12@ 5" c/c	12@ 5" c/c	01
CF3	D5 - H6 G6 - G7 - F6 - F7	REFER DRAWING	24"	-	TOP 12@ 5" c/c BOTTOM 12@ 5" c/c	12@ 5" c/c 12@ 5" c/c	01
CF4	N8 - O8 N6 - O6	25'-0" x 19'-0"	24"	-	TOP 12@ 5" c/c BOTTOM 12@ 5" c/c	12@ 5" c/c 12@ 5" c/c	01
						TOTAL	04

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF COLUMNS

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Mob: 9791776685 / Tel No: 044-79670563

LEGEND
CL : CENTRE LINE
F.F : FIRST FLOOR
S1 : SLAB-1
TYP. : TYPICAL
COLUMN TERMINATED
SUNKEN SLAB
THK. : THICKNESS OF SLAB

JOB NO: KASN26				Sheet: 04 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Approved by	Date
TBN		TBN	01/10/2026	TBN	01/10/2026

All dimensions are in Feets and Inches

CLIENT: M/s. S.K BUILDERS

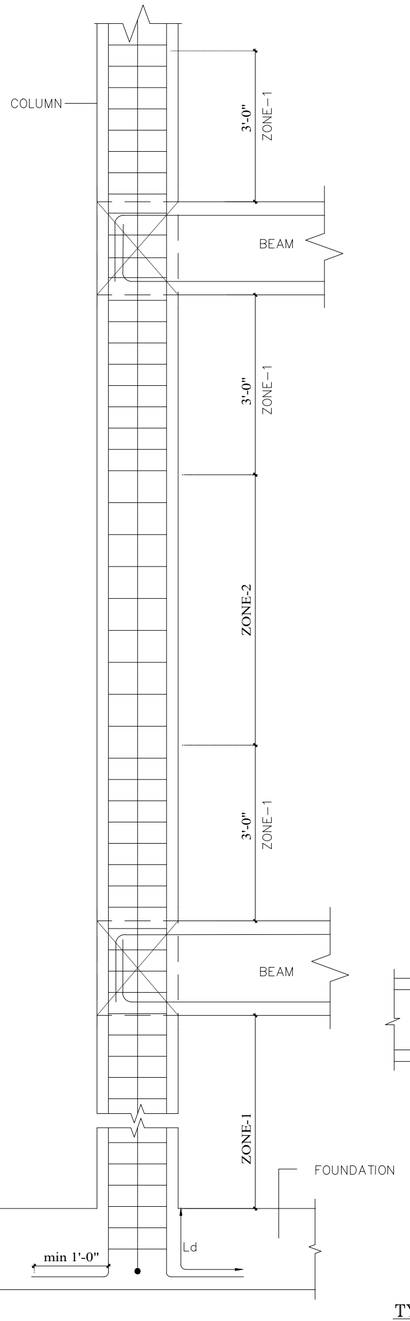
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF FOOTINGS

Revision	Sign	Date
R0		01/10/2026

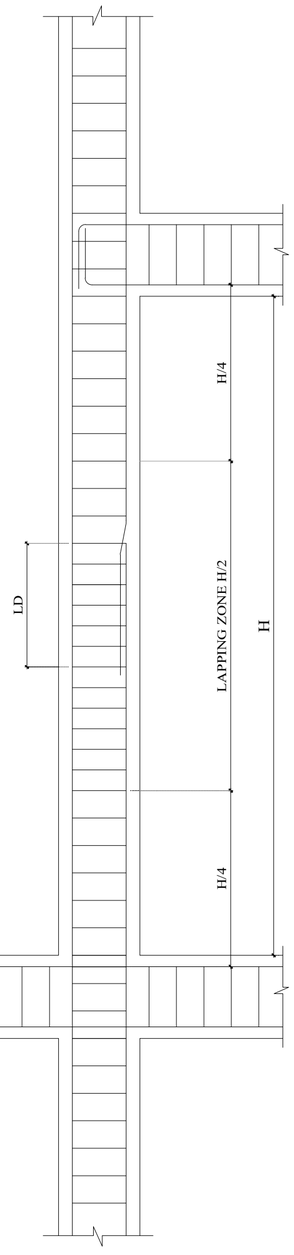
KURAL ASSOCIATES
Perception to Execution
CONSULTANT:
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

TBN
01/10/2026
GOOD FOR CONSTRUCTION
R0



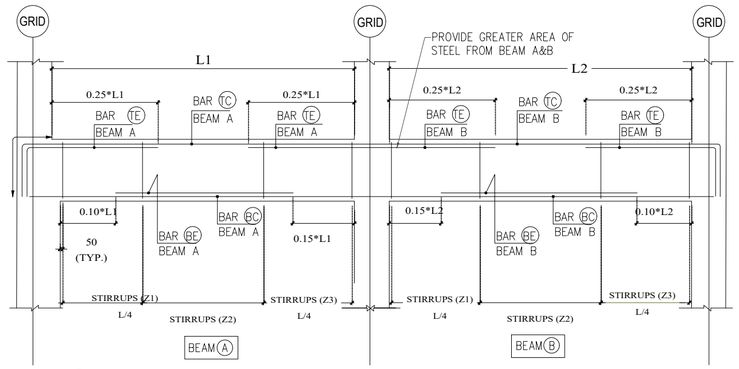
TIE SPACING DETAILS AT JUNCTION OF COLUMN-BEAM

*total length should not be less than Ld



TYP.DET.OF COLUMN LAPPING ZONE

LD : LAP LENGTH
H : HEIGHT OF COLUMN



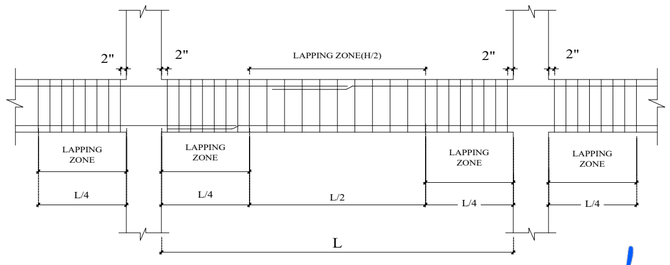
BAR (?) -SEE BEAM LONGITUDINAL SECTION FOR BAR SIZES

REFER TO PLANS FOR REQUIRED REINFORCEMENT.

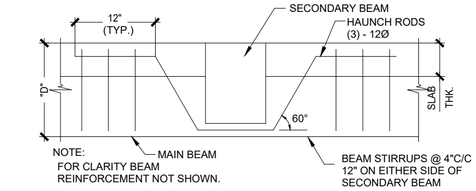
REINF. COVER TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

ELEVATION: END AND INNER SPANS.

TYPICAL BEAM REINFT. LAYOUT DETAIL

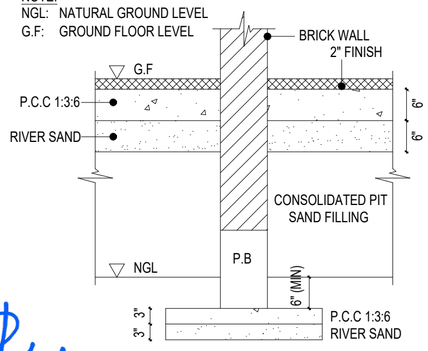


BEAM LAPPING ZONE DETAILS



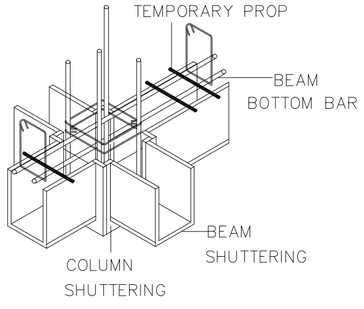
HAUNCH DETAIL AT BEAM INTERSECTIONS

NOTE:
NGL: NATURAL GROUND LEVEL
G.F: GROUND FLOOR LEVEL



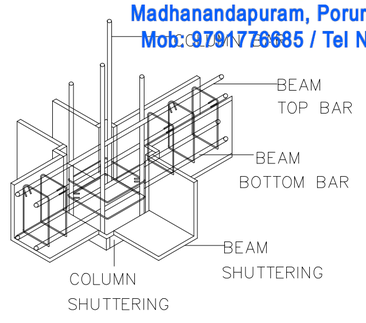
TYPICAL PLINTH BEAM DETAIL

PROCEDURE FOR PLACING COLUMN TIES AT COLUMN BEAM JUNCTION



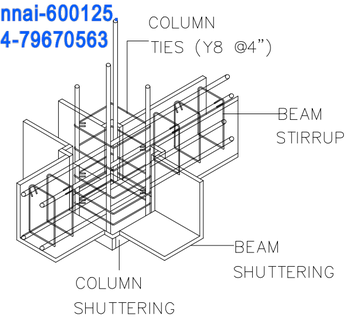
(A) STAGE 1:

BEAM TOP BARS ARE NOT PLACED, BUT HORIZONTAL TIES IN THE JOINT REGION ARE STACKED UP.



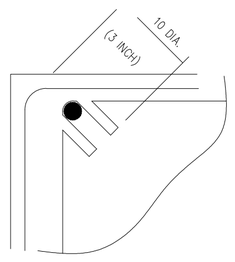
(B) STAGE 2:

TOP BARS OF THE BEAM ARE INSERTED IN THE BEAM STIRRUPS, AND BEAM REINFORCEMENT CAGE IS LOWERED INTO THE FORMWORK.



(C) STAGE 3:

TIES IN THE JOINT REGION ARE RAISED TO THEIR FINAL LOCATIONS, TIED WITH BINDING WIRE, AND COLUMN TIES ARE CONTINUED



TYP.DET.OF HOOK FOR BEAM STIRRUP

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LEGEND

CL : CENTRE LINE
F.F : FIRST FLOOR
S1 : SLAB-1
TYP. : TYPICAL
COLUMN TERMINATED
SUNKEN SLAB
THK. : THICKNESS OF SLAB

JOB NO: KASN26		All dimensions are in Feets and Inches	Sheet: 05 (A3 SHEET)
Designed by	TBN	Sign	
Checked by	TBN	Date	01/10/2026
Approved by	TBN	Sign	
Date	01/10/2026	Revision	R0

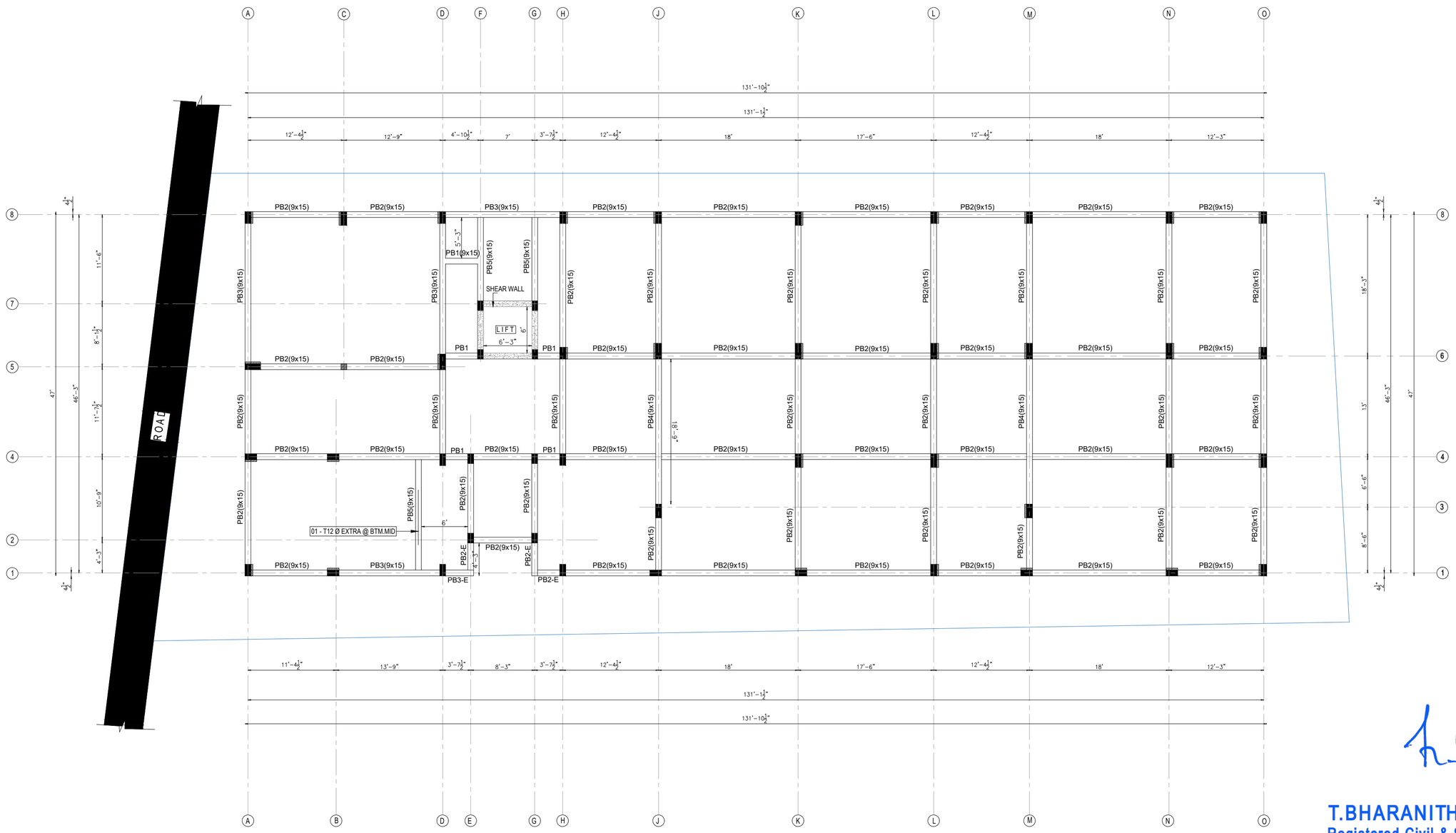
CLIENT: M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF FOOTINGS

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

TBN	
01/10/2026	
R0	GOOD FOR CONSTRUCTION



LAYOUT OF PLINTH BEAMS AT NGL

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

JOB NO: KASN26		All dimensions are in Feets and Inches			Sheet: 06 (A3 SHEET)		
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

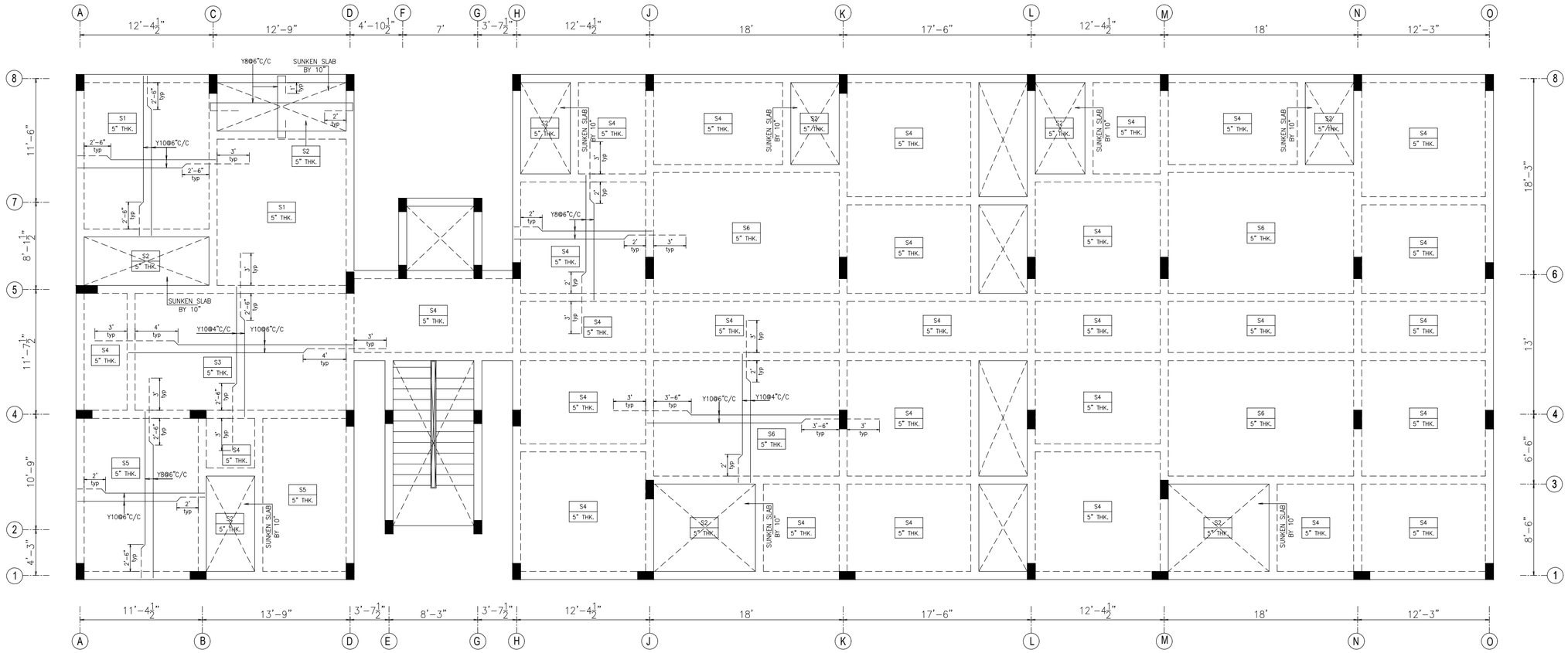
CLIENT: M/s. S.K BUILDERS

CONSULTANT:

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

R0 GOOD FOR CONSTRUCTION 01/10/2026 TBN

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



LAYOUT OF GROUND FLOOR ROOF SLAB

T.BHARANITHARAN,M.E.,C.Eng(I).
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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-16.
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: KASN26
All dimensions are in Feets and Inches
Sheet: 07 (A3 SHEET)

	Designed by	Checked by	Approved by
Sign			
Date	01/10/2026	01/10/2026	TBN

Revision	Date	Sign
R0	01/10/2026	

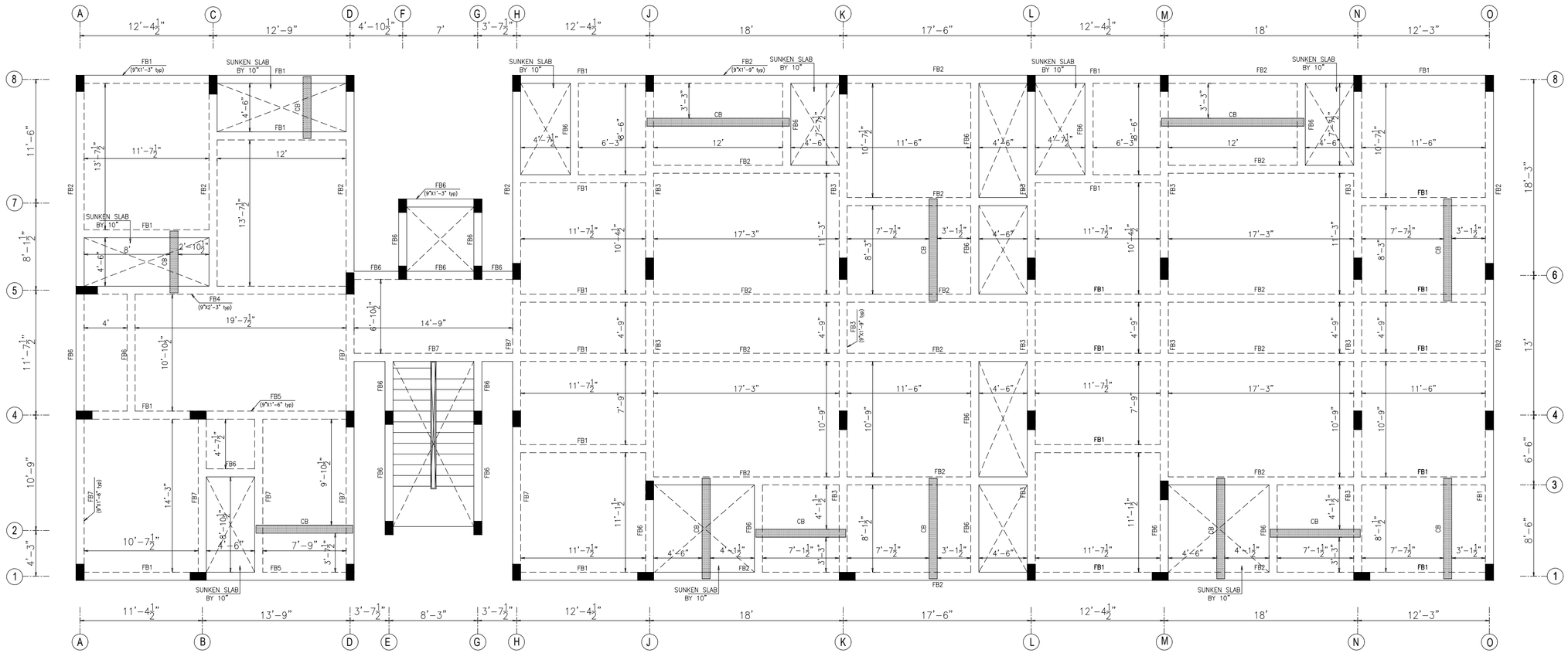
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

CLIENT:
M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF SLAB

TBN	01/10/2026	R0	GOOD FOR CONSTRUCTION



LAYOUT OF GROUND FLOOR ROOF BEAM

LEGEND

℄ : 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-16.
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

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

JOB NO: KASN26		All dimensions are in Feets and Inches			Sheet: 08 (A3 SHEET)		
Designed by	Sign	Checked by	Date	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026	TBN	01/10/2026		R0

CLIENT: M/s. S.K BUILDERS

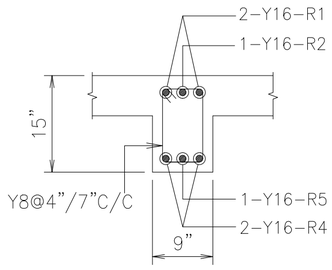
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAM

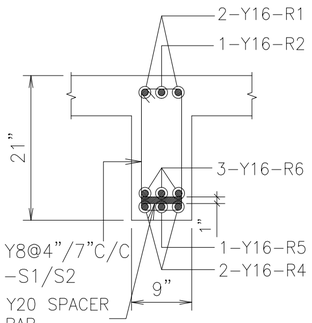
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/10/2026
		TBN

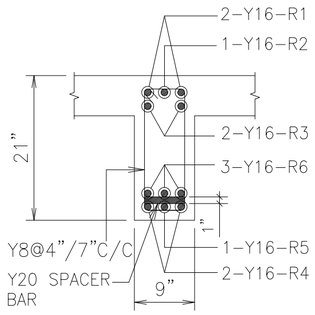
R0	GOOD FOR CONSTRUCTION	01-10-2026	TBN



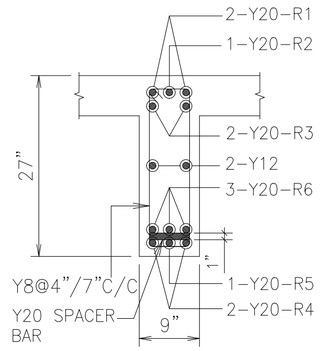
C.S OF FB1
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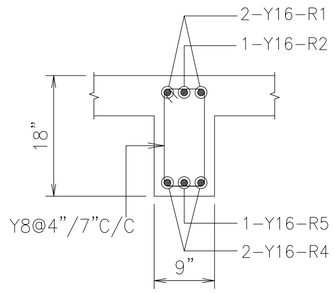
C.S OF FB2
[9"X1'-9"]



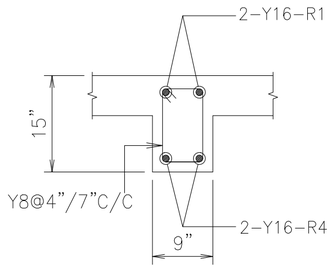
C.S OF FB3
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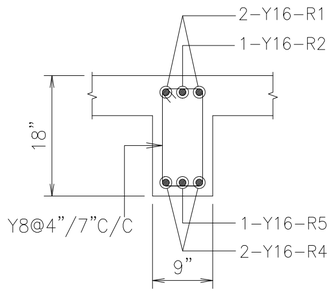
C.S OF FB4
[9"X2'-3"]



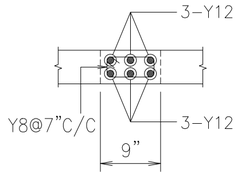
C.S OF FB5
[9"X1'-6"]



C.S OF FB6
[9"X1'-3"]

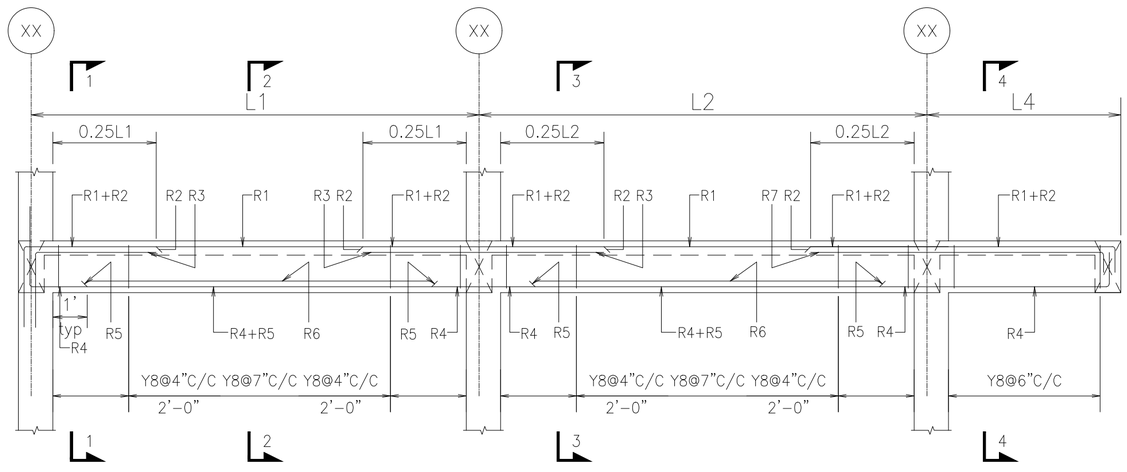


C.S OF FB7
[9"X1'-6"]



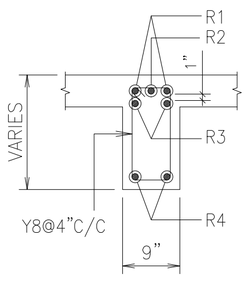
C.S OF CB
(CONCEALED BEAM)

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)
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Mob: 9791776685 / Tel No: 044-79670563

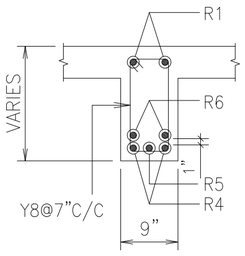


TYPICAL FLOOR BEAM DETAILS

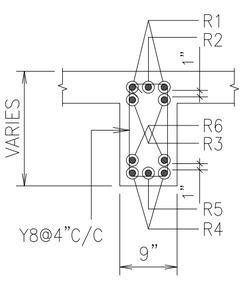
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



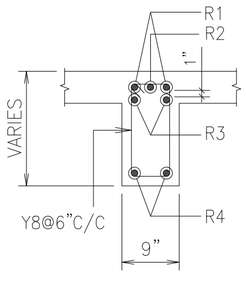
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

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

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

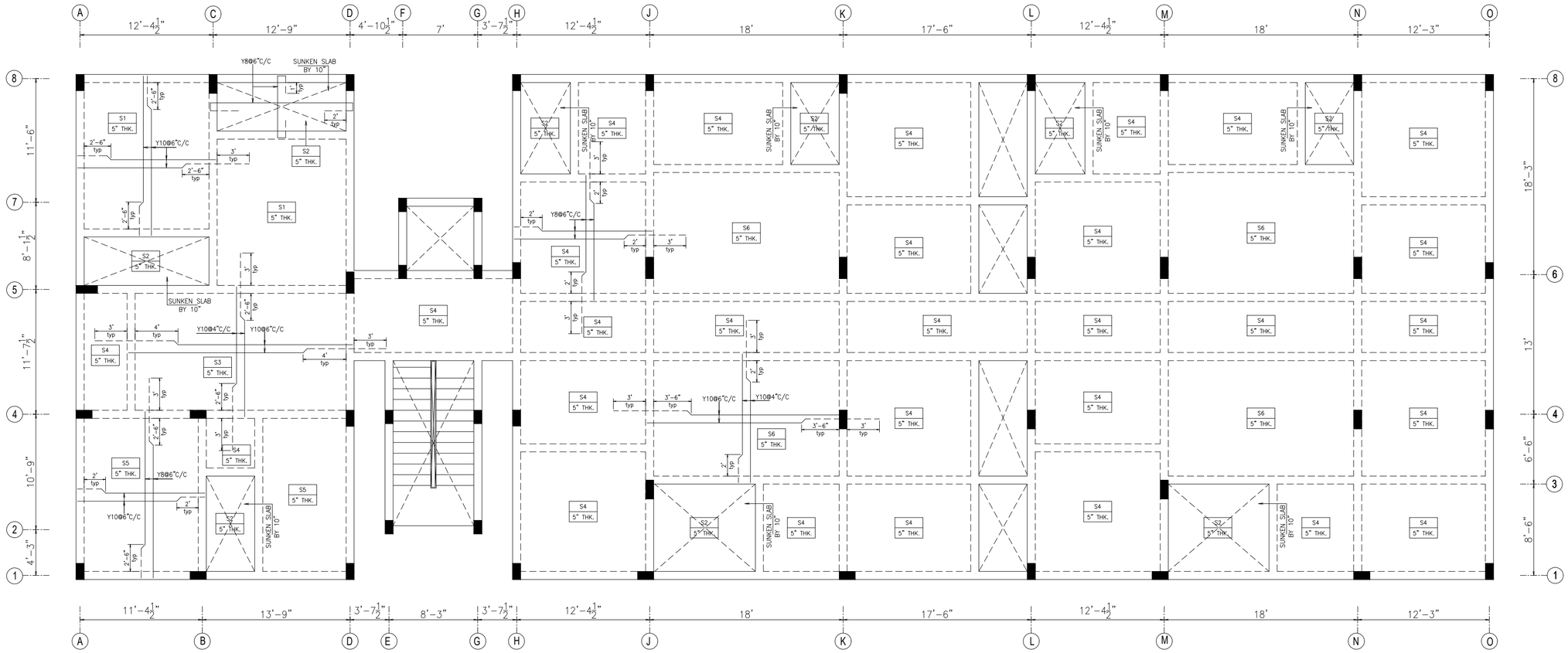
JOB NO: KASN26	All dimensions are in Feets and Inches						Sheet: 09 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAMS

CLIENT:
M/s. S.K BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
Flat No. G1, Anusha Garden, BLOCK A,Plot No VII, Annai Velankanni Nagar, Madhanandapuram, Chennai - 600125.
PH:044-31567458, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com



LAYOUT OF FIRST FLOOR ROOF SLAB

LEGEND

℄ : CENTRE LINE
F.F : FIRST FLOOR
S1 : SLAB-1
TYP. : TYPICAL
X : 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-16.
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

T.BHARANITHARAN,M.E.,C.Eng(I).
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REGD NO: (RE/GR-I/19/05/166) & (SE/GR-II/19/04/036)
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No. 3/1517, Mugalivakkam Main Road,
Madhanandapuram, Porur, Chennai-600125.
Mob: 9791776685 / Tel No: 044-79670563

JOB NO: KASN26
All dimensions are in Feets and Inches
Sheet: 10 (A3 SHEET)

	Designed by	Checked by	Approved by
Sign			
Name	TBN	TBN	TBN
Date		01/10/2026	01/10/2026

Revision	Date	Sign
R0	01/10/2026	

CONSULTANT:

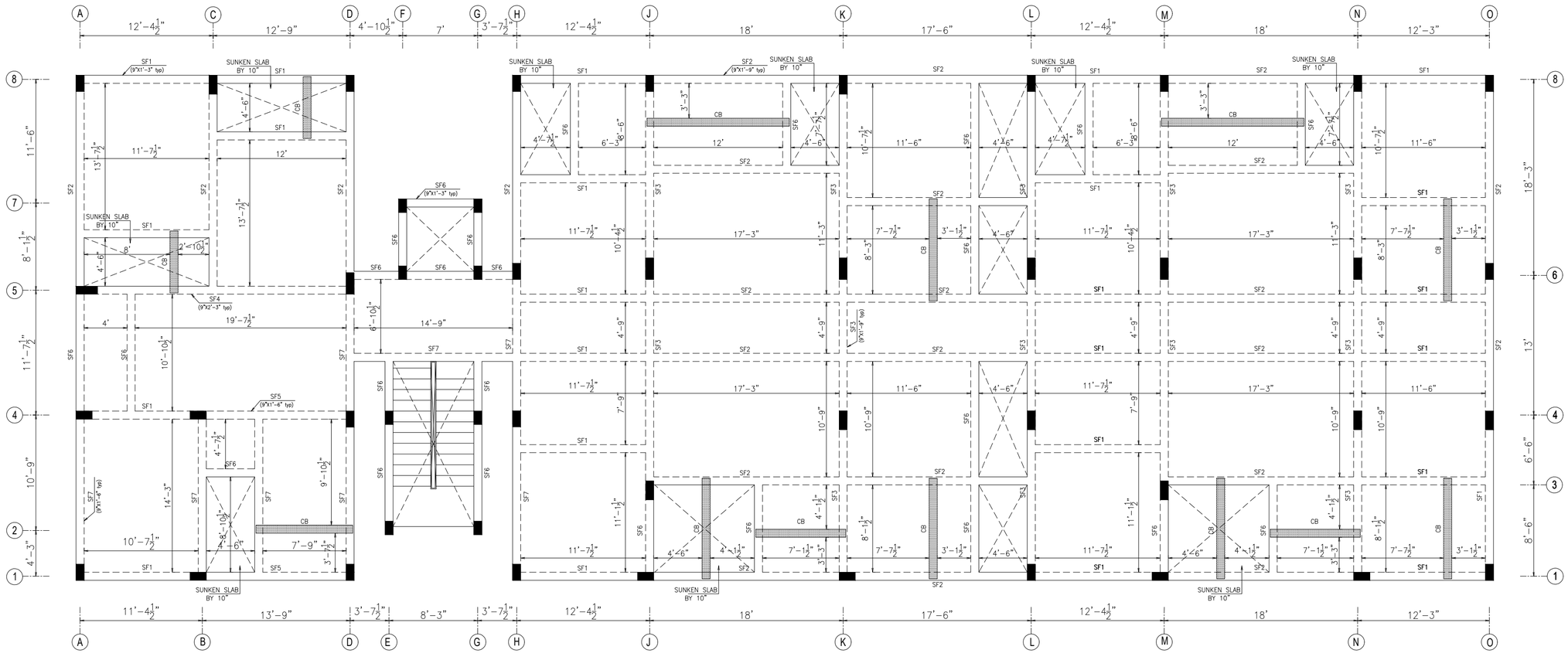
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram,
Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

CLIENT:
M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND
REINFORCEMENT DETAILS OF FIRST
FLOOR ROOF SLAB

R0 GOOD FOR CONSTRUCTION | 01/10/2026 | TBN



LAYOUT OF FIRST FLOOR ROOF BEAM

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

LEGEND
℄ : 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-16.
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

JOB NO: KASN26	All dimensions are in Feets and Inches	Sheet: 11 (A3 SHEET)

Designed by	Sign	Checked by	Date	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026	TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

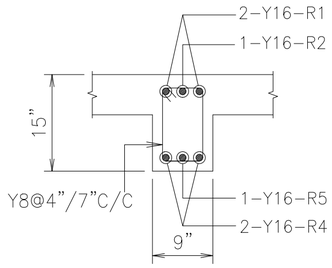
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAM

CLIENT: M/s. S.K BUILDERS

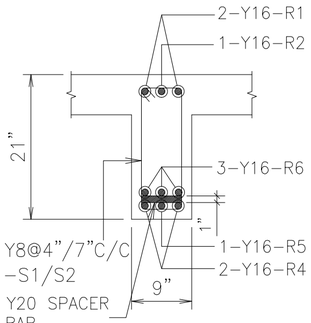
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/10/2026	TBN

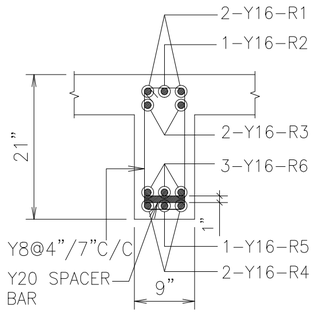
R0	GOOD FOR CONSTRUCTION	01-10-2026		TBN



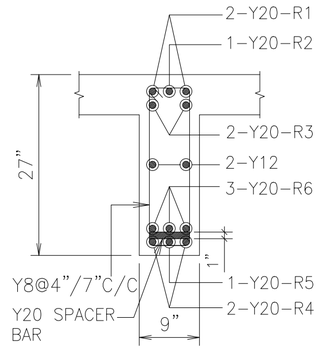
C.S OF SF1
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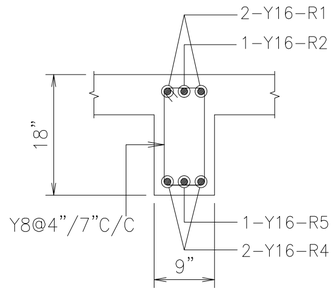
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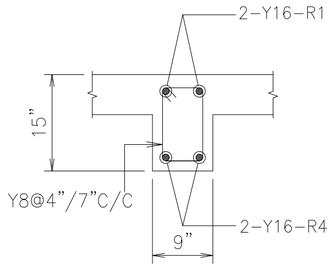
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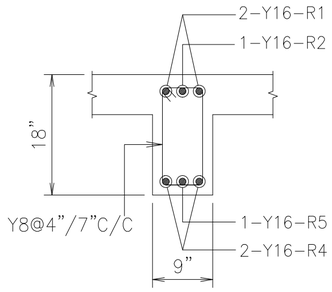
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[9"X2'-3"]



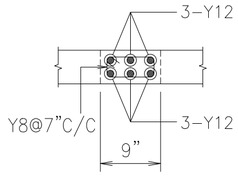
C.S OF SF5
[9"X1'-6"]



C.S OF SF6
[9"X1'-3"]

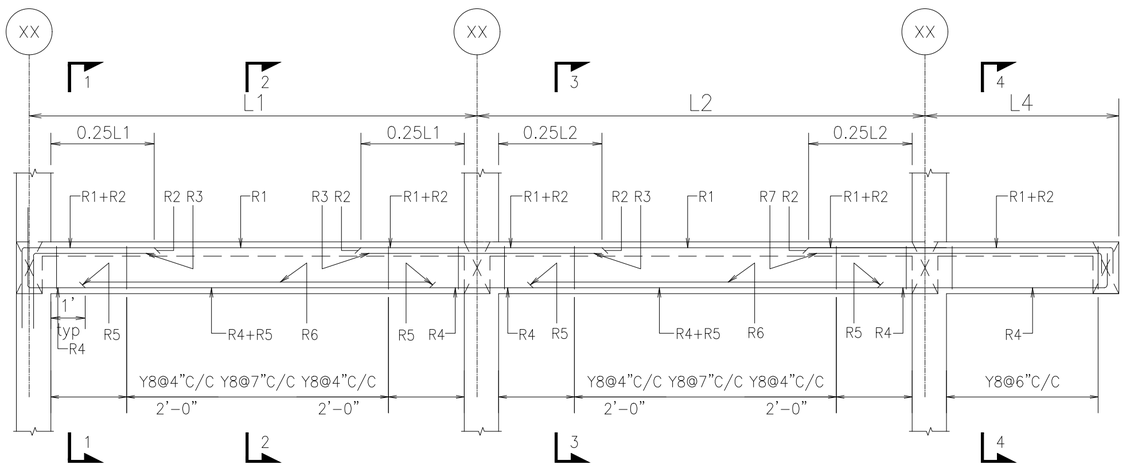


C.S OF SF7
[9"X1'-6"]



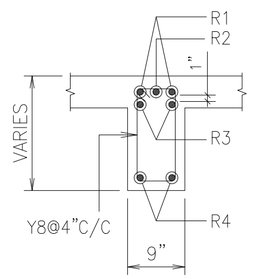
C.S OF CB
(CONCEALED BEAM)

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

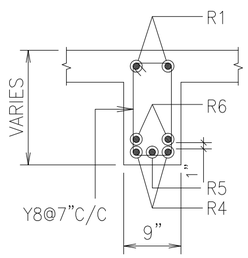


TYPICAL FLOOR BEAM DETAILS

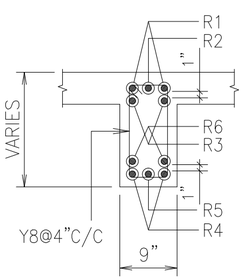
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



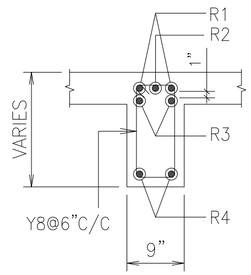
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

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

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

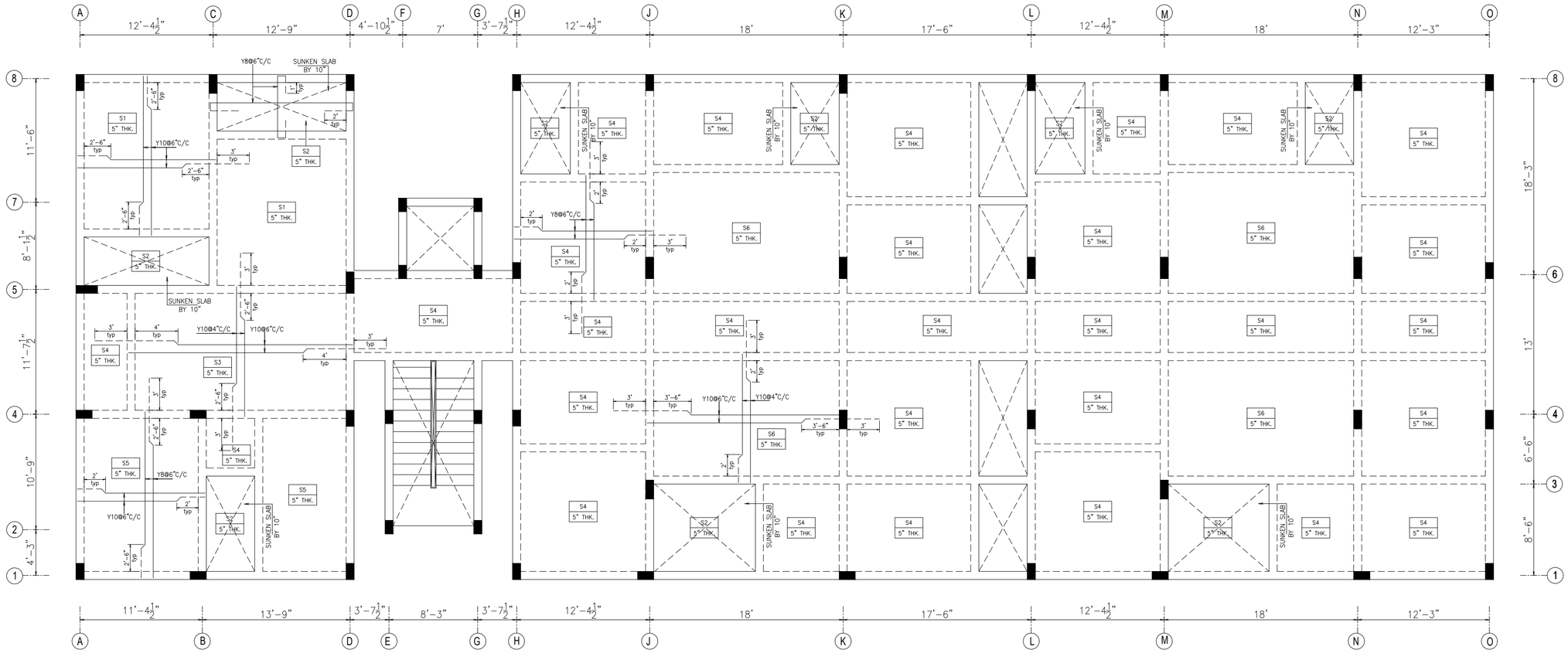
JOB NO: KASN26	All dimensions are in Feets and Inches						Sheet: 12 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAMS

CLIENT:
M/s. S.K BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
Flat No. G1, Anusha Garden, BLOCK A,Plot No VII, Annai Velankanni Nagar, Madhanandapuram, Chennai - 600125.
PH:044-31567458, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com



LAYOUT OF SECOND FLOOR ROOF SLAB

JOB NO: KASN26	All dimensions are in Feets and Inches	Sheet: 13 (A3 SHEET)

	Designed by	Checked by	Approved by
Sign			
Date	01/10/2026	01/10/2026	01/10/2026
Name	TBN	TBN	TBN

Revision	R0

CONSULTANT:

KURAL ASSOCIATES
Perception to Execution

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

CLIENT:

M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF SLAB

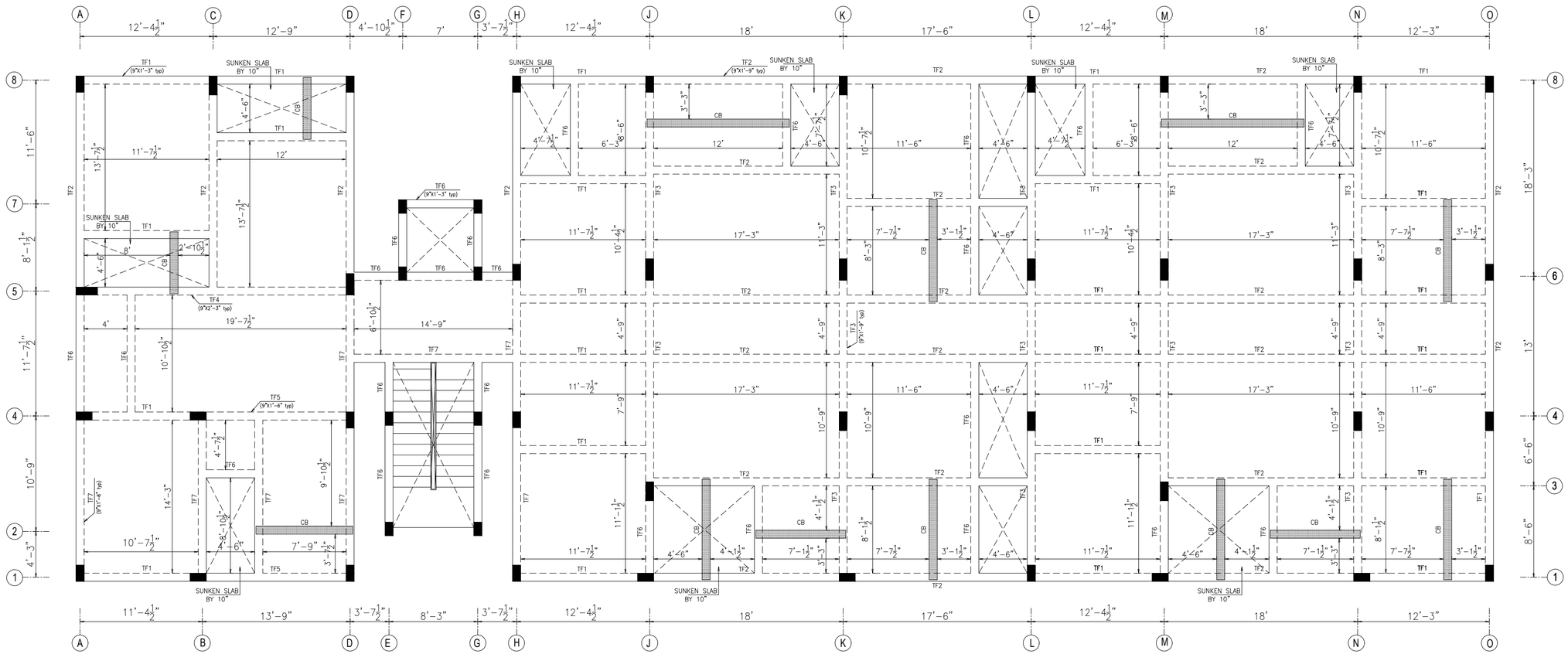
LEGEND

℄ : 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-16.
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

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

GOOD FOR CONSTRUCTION
RO
01/10/2026
TBN



LAYOUT OF SECOND FLOOR ROOF BEAM

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)
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LEGEND
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S1 : SLAB-1
TYP. : TYPICAL
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THK. : THICKNESS OF SLAB

NOTE:
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4. —— Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

JOB NO: KASN26
All dimensions are in Feets and Inches
Sheet: 14 (A3 SHEET)

	Designed by	Checked by	Approved by
Sign			
Date	01/10/2026	01/10/2026	01/10/2026
Revision	TBN	TBN	TBN

R0

CLIENT: M/s. S.K BUILDERS

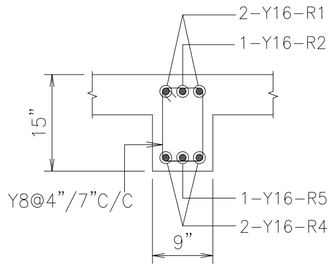
PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAM

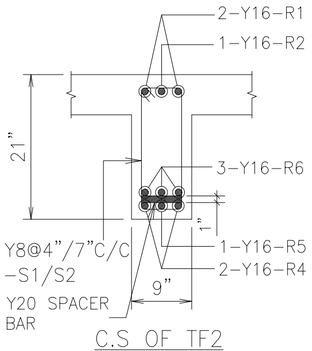
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/10/2026	TBN

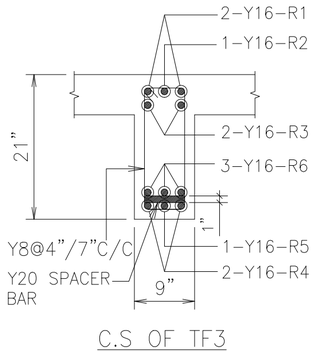
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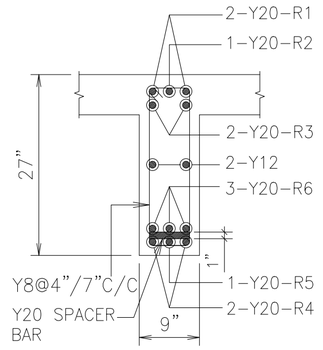
C.S OF TF1
[9"X1'-3"]



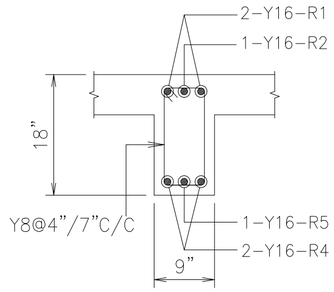
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[9"X1'-9"]



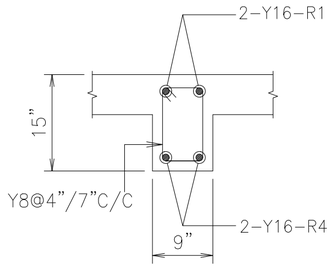
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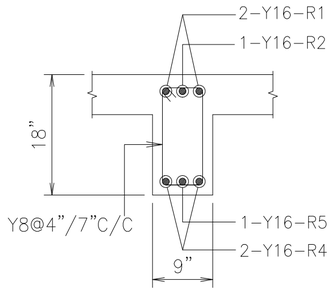
C.S OF TF4
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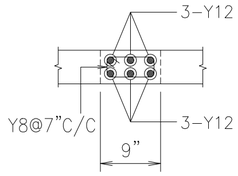
C.S OF TF5
[9"X1'-6"]



C.S OF TF6
[9"X1'-3"]

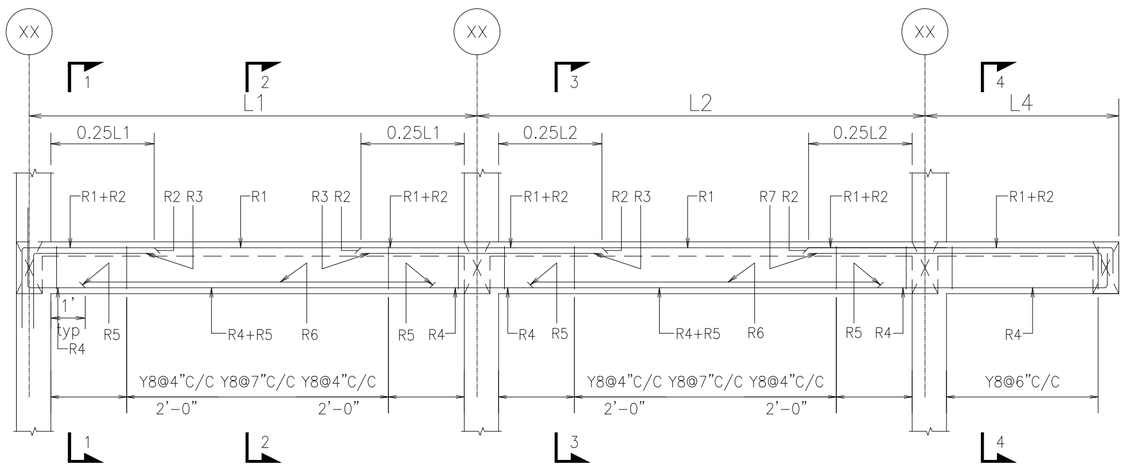


C.S OF TF7
[9"X1'-6"]



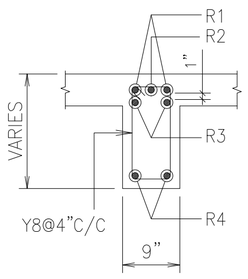
C.S OF CB
(CONCEALED BEAM)

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

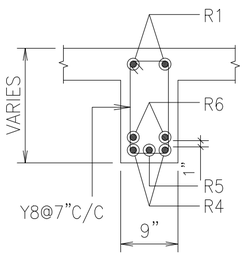


TYPICAL FLOOR BEAM DETAILS

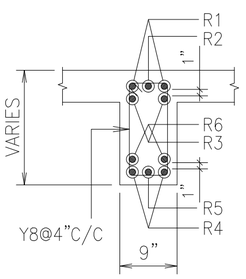
NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.



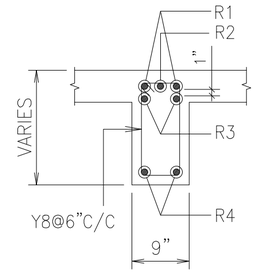
SECTION 1-1



SECTION 2-2



SECTION 3-3



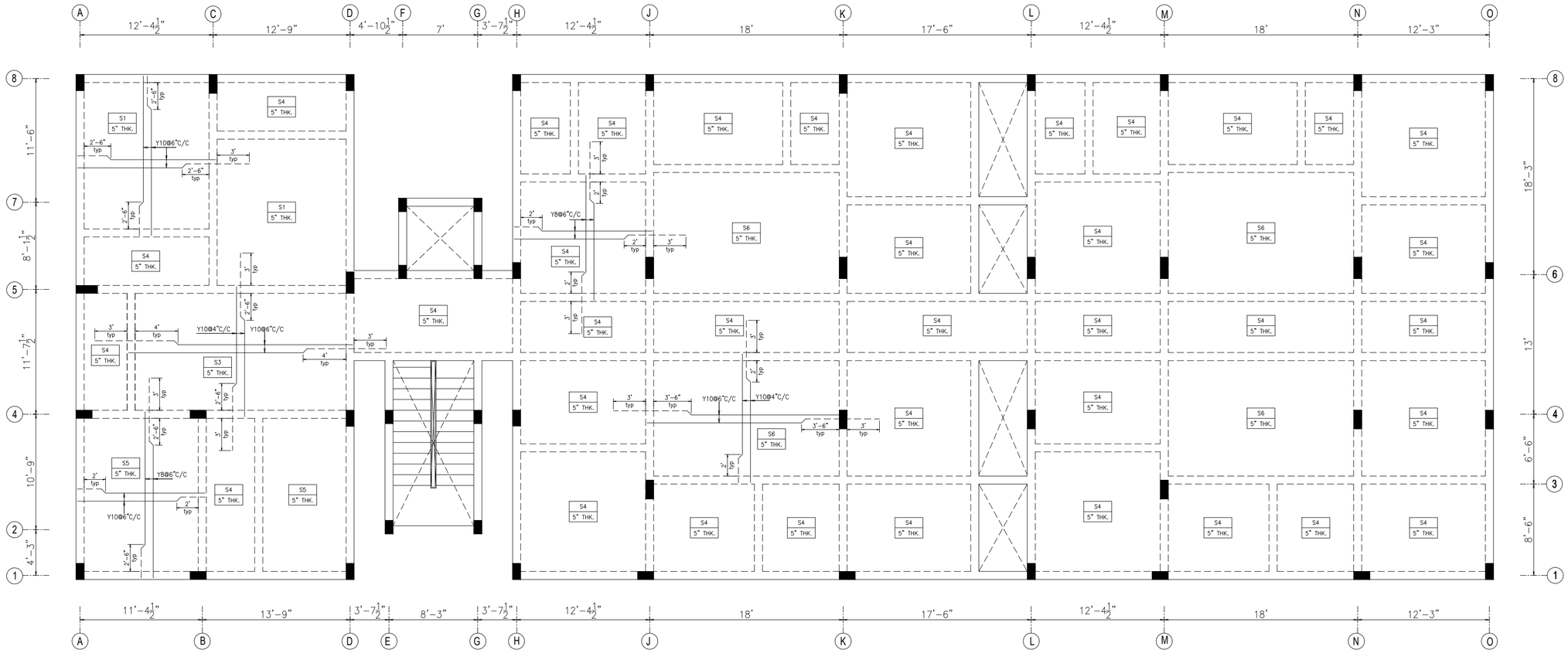
SECTION 4-4

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

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-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: KASN26	All dimensions are in Feets and Inches						Sheet: 15 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING	CLIENT: M/s. S.K BUILDERS	CONSULTANT: KURAL ASSOCIATES Perception to Execution
LAYOUT OF REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAMS		Flat No. G1, Anusha Garden, BLOCK A,Plot No VII, Annai Velankanni Nagar, Madhanandapuram, Chennai - 600125. PH:044-31567458, MOB:9791776685. Email:kuralassociates.engineers@gmail.com



LAYOUT OF THIRD FLOOR ROOF SLAB

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

LEGEND
℄ : CENTRE LINE
F.F : FIRST FLOOR
S1 : SLAB-1
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NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-16.
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4. —— Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

JOB NO: KASN26
All dimensions are in Feets and Inches
Sheet: 16 (A3 SHEET)

	Designed by	Checked by	Approved by
Sign			
	TBN	TBN	TBN
Date		01/10/2026	01/10/2026

Revision	Sign	Date
R0		01/10/2026

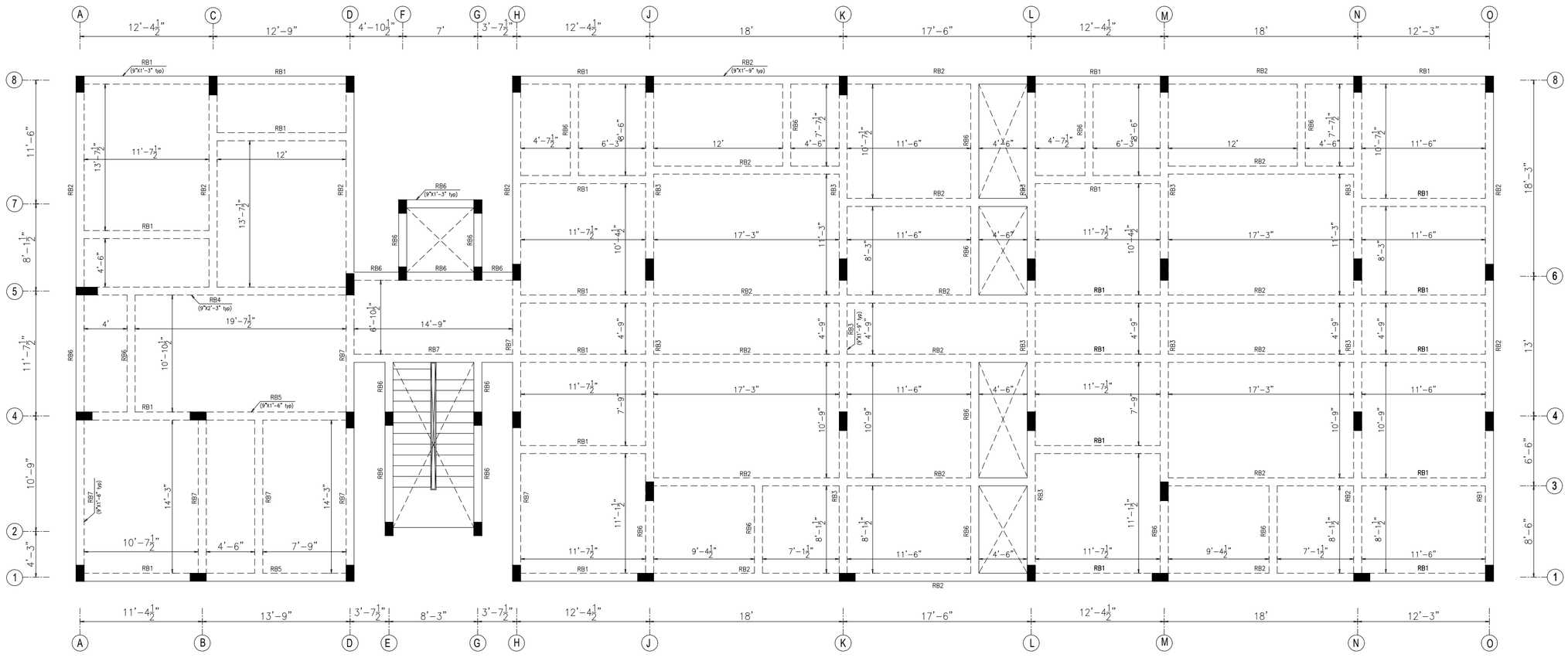
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

CLIENT:
M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

R0 GOOD FOR CONSTRUCTION 01/10/2026 TBN



LAYOUT OF THIRD FLOOR ROOF BEAM

JOB NO: KASN26	All dimensions are in Feets and Inches	Sheet: 17 (A3 SHEET)

	Designed by	Sign	Checked by	Date	Approved by	Date	Sign	Revision
	TBN		TBN	01/10/2026	TBN	01/10/2026		R0

CONSULTANT:

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

CLIENT: M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAM

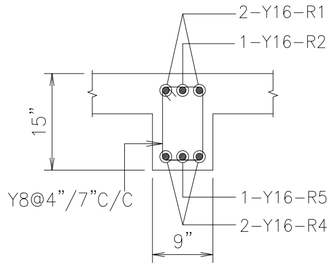
LEGEND

℄ : CENTRE LINE
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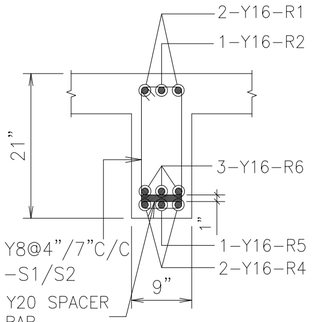
NOTE:
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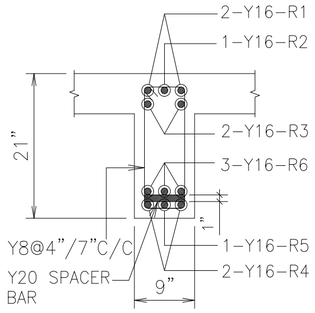
R0	GOOD FOR CONSTRUCTION	01-10-2026	TBN



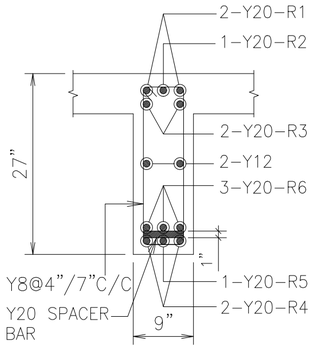
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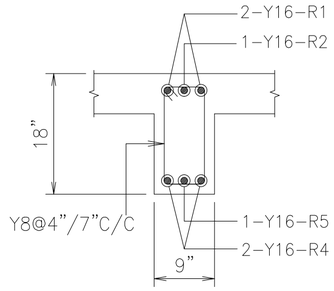
C.S OF RB2
[9"X1'-9"]



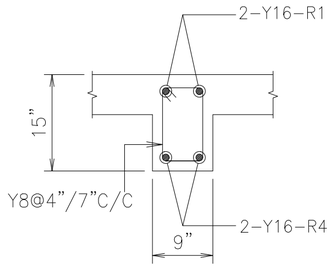
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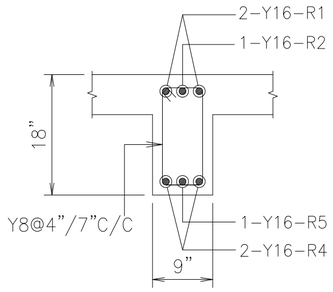
C.S OF RB4
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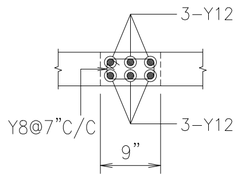
C.S OF RB5
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C.S OF RB6
[9"X1'-3"]

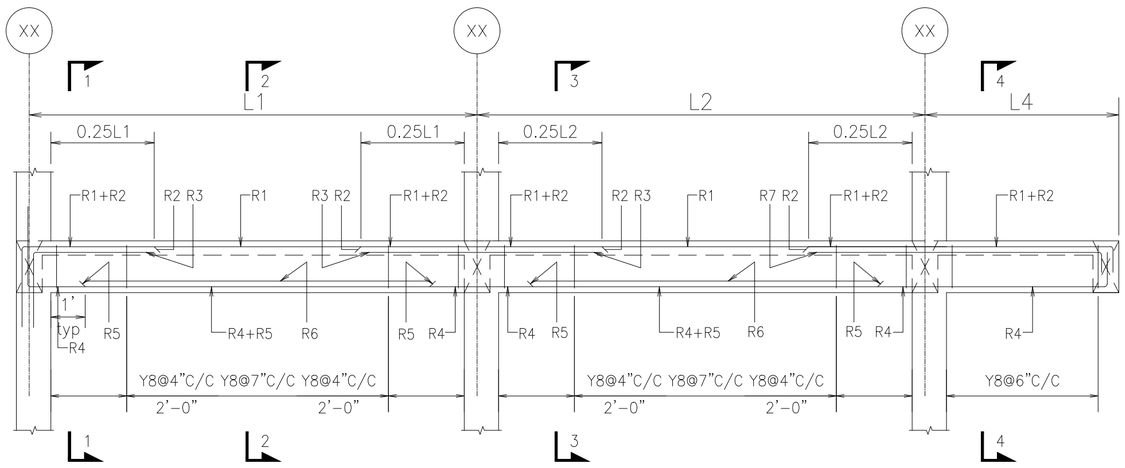


C.S OF RB7
[9"X1'-6"]



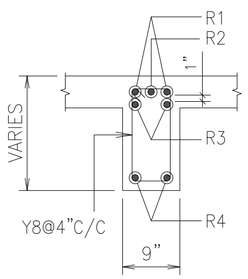
C.S OF CB
(CONCEALED BEAM)

T.BHARANITHARAN,M.E.,C.Eng(I).
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REGD NO: (RE/GR-I/19/05/166) & (SE/GR-II/19/04/036)
KURAL ASSOCIATES
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Madhanandapuram, Porur, Chennai-600125.
Mob: 9791776685 / Tel No: 044-79670563

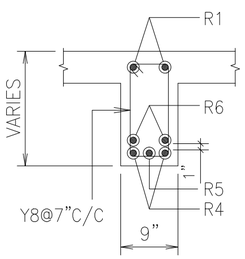


TYPICAL FLOOR BEAM DETAILS

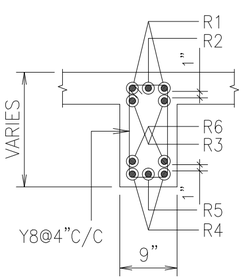
NOTE:
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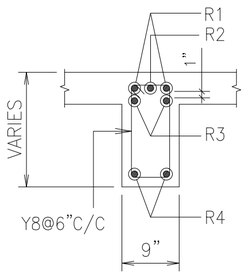
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

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

NOTE:
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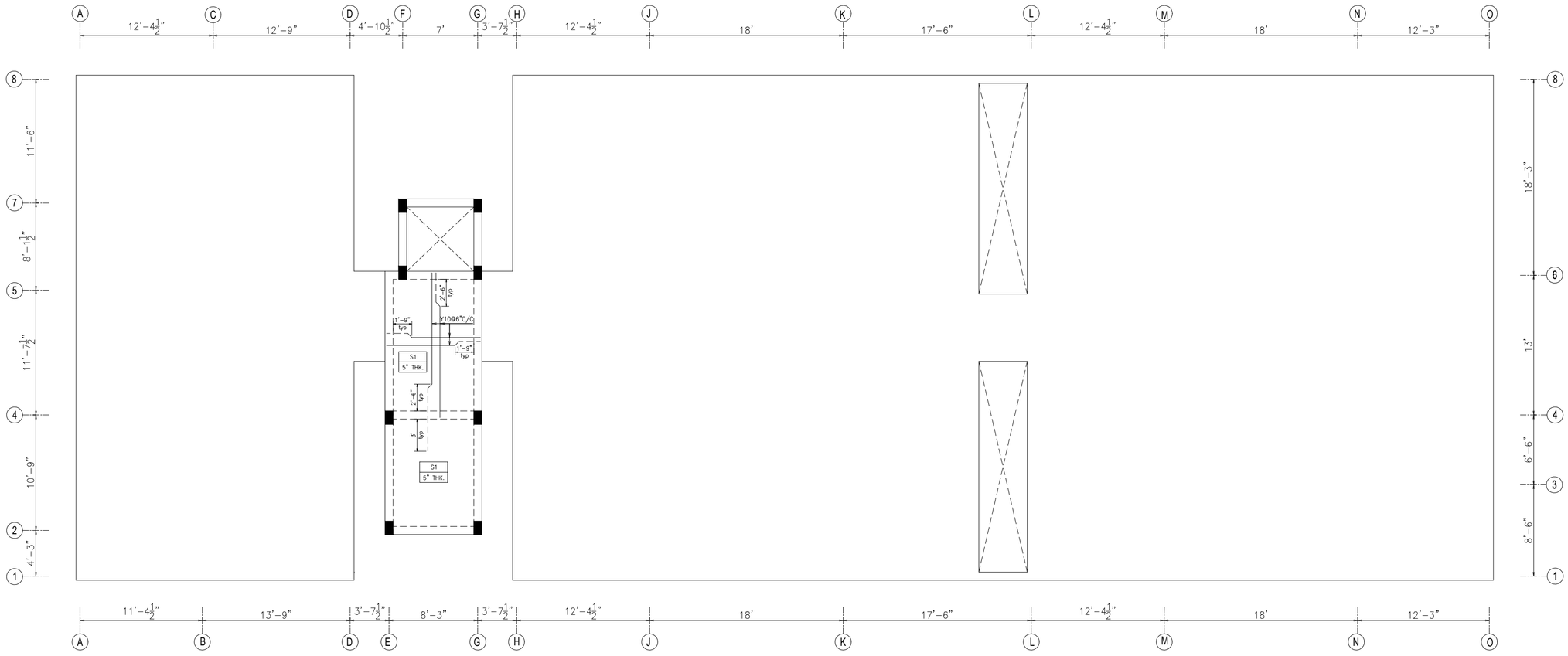
JOB NO: KASN26	All dimensions are in Feets and Inches						Sheet: 18 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAMS

CLIENT:
M/s. S.K BUILDERS

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
Flat No. G1, Anusha Garden, BLOCK A,Plot No VII, Annai Velankanni Nagar, Madhanandapuram, Chennai - 600125.
PH:044-31567458. MOB:9791776685.
Email:kuralassociates.engineers@gmail.com



LAYOUT OF HEAD ROOM ROOF SLAB

JOB NO: KASN26		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	01/10/2026		TBN	01/10/2026		R0

PROPOSED RESIDENTIAL BUILDING

CLIENT: M/s. S.K BUILDERS

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF HEAD ROOM ROOF SLAB

CONSULTANT:

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

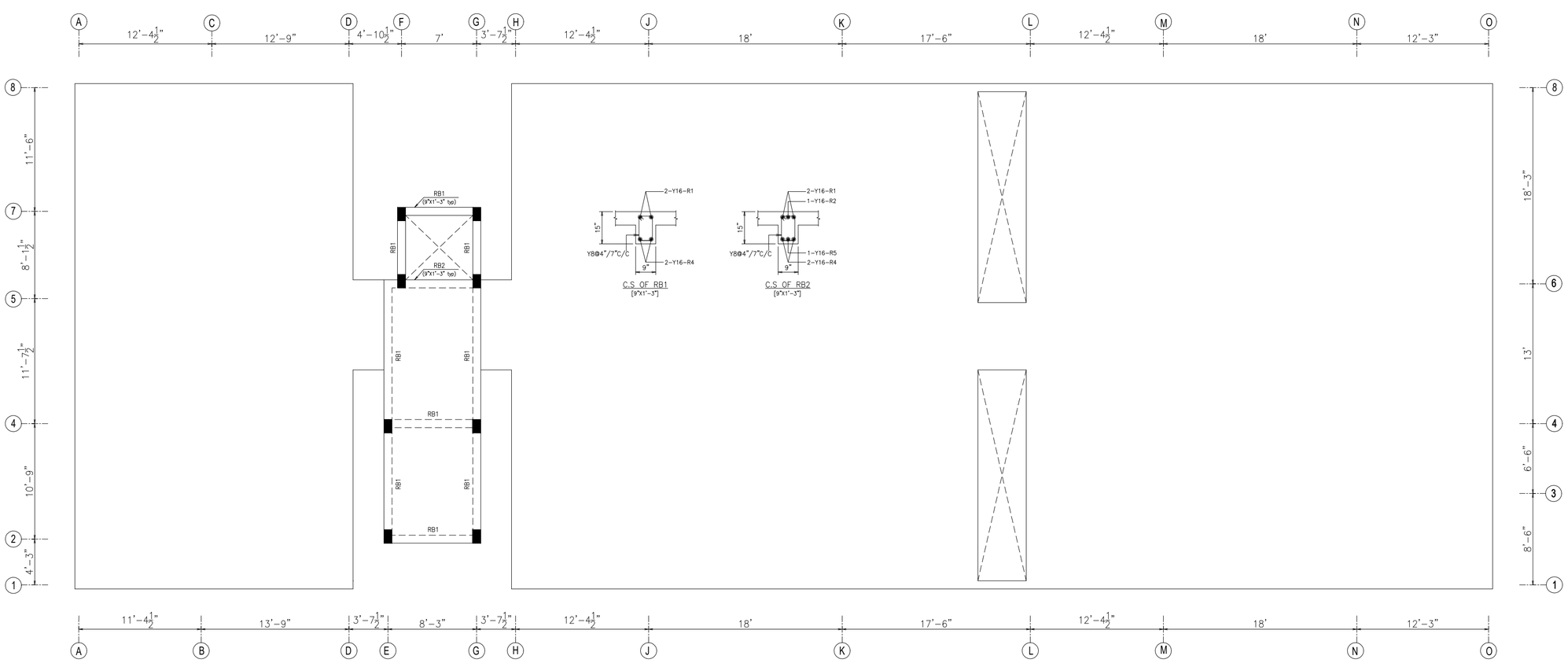
LEGEND

℄ : 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-16.
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

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RO | GOOD FOR CONSTRUCTION | 01/10/2026 | TBN



LAYOUT OF HEAD ROOM ROOF BEAM

JOB NO: KASN26	All dimensions are in Feets and Inches					Sheet: 20 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Revision
TBN		TBN	01/10/2026		TBN	01/10/2026	R0

CLIENT: M/s. S.K BUILDERS

PROPOSED RESIDENTIAL BUILDING

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF HEAD ROOM ROOF BEAM

CONSULTANT:

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

LEGEND

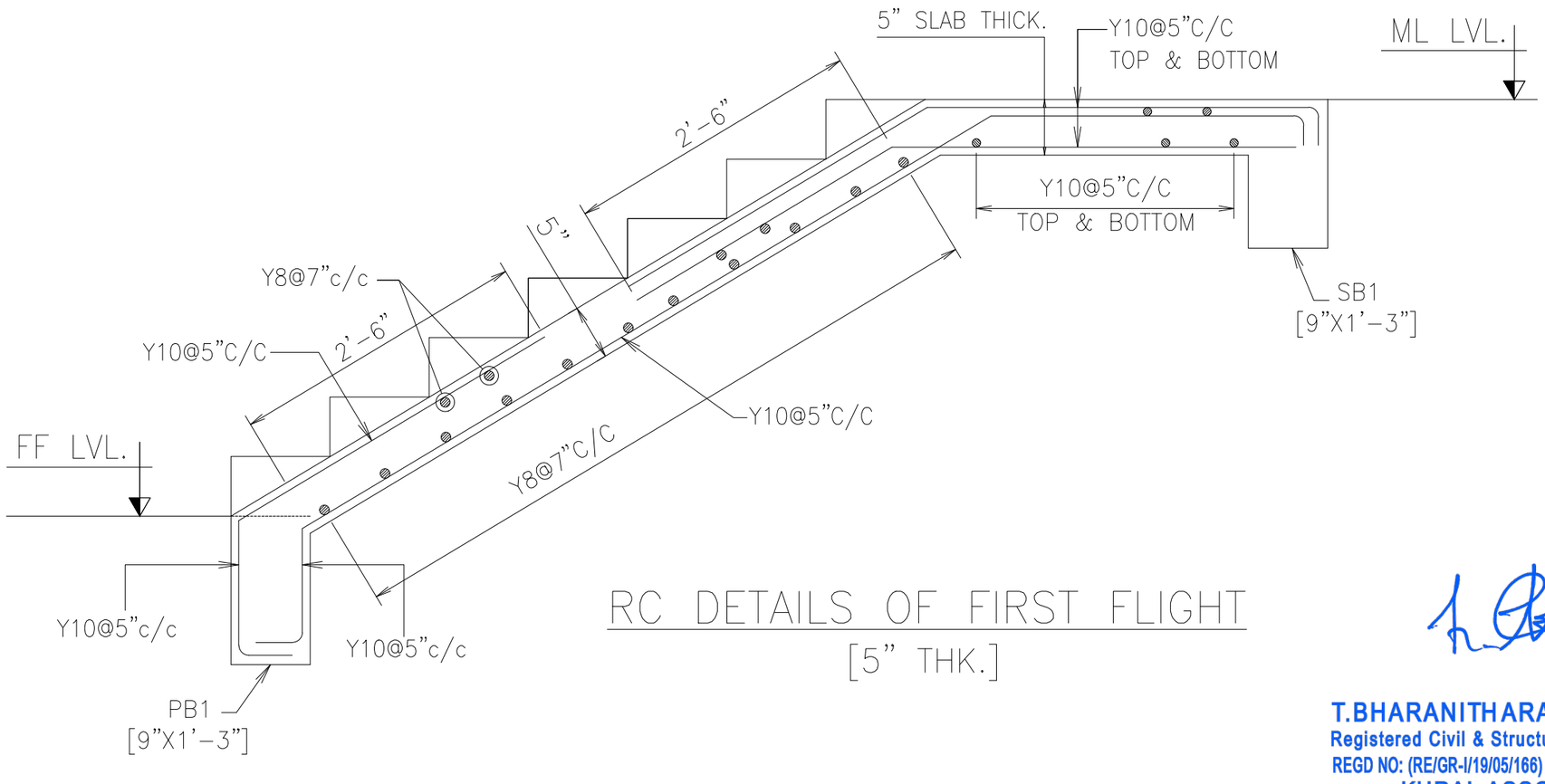
℄ : CENTRE LINE
F.F : FIRST FLOOR
S1 : SLAB-1
TYP. : TYPICAL
× : COLUMN TERMINATED
⊠ : SUNKEN SLAB
THK. : THICKNESS OF SLAB

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-16.
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

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Mob: 9791776685 / Tel No: 044-79670563

RO | GOOD FOR CONSTRUCTION | 01/10/2026 | TBN

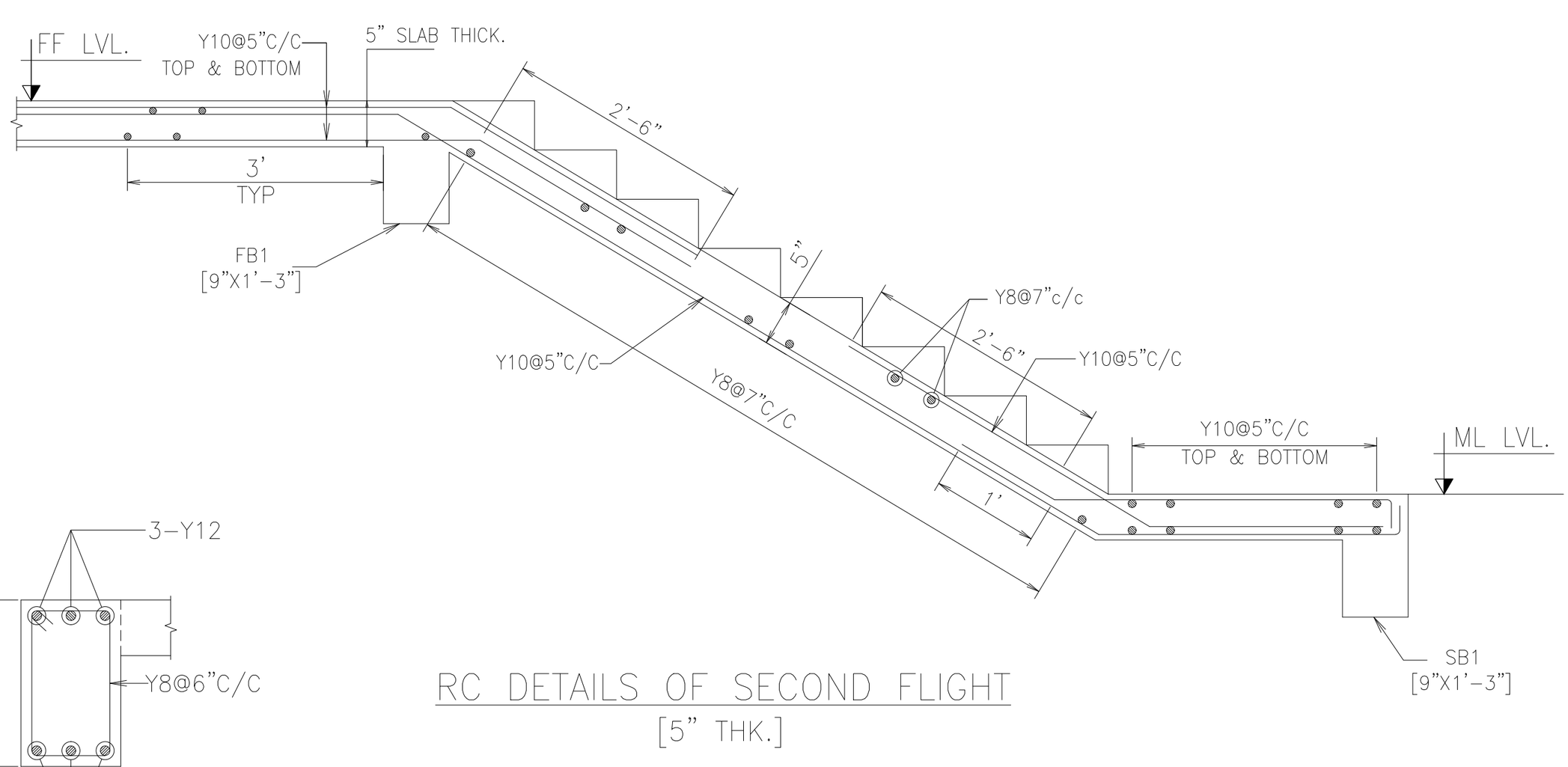
R0	GOOD FOR CONSTRUCTION	01/10/2026	TBN



RC DETAILS OF FIRST FLIGHT
[5" THK.]

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Mob: 9791776685 / Tel No: 044-79670563

PROVIDE Y8@7"C/C AS DISTRIBUTORS WHEREVER REQUIRED



RC DETAILS OF SECOND FLIGHT
[5" THK.]

C.S OF SB1
[9"X1'-3"]

LEGEND

℄	:	CENTRE LINE
FF	:	FINISHED FLOOR
ML	:	MID-LANDING
TYP.	:	TYPICAL
THK.		THICKNESS OF SLAB

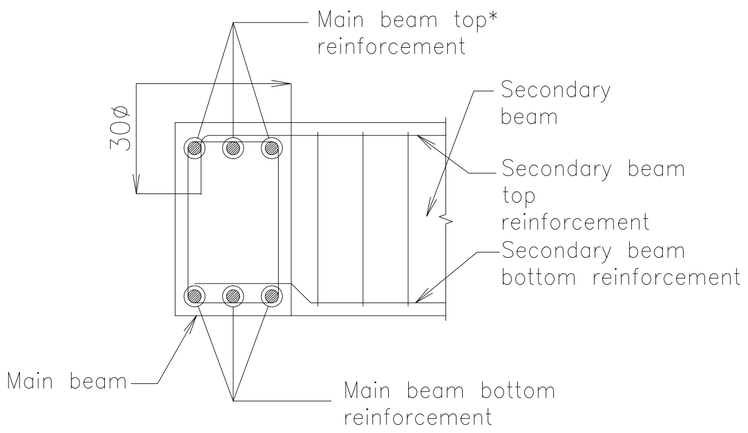
NOTE:

1. Clear cover = 20mm
2. All laps shall be 50ø
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.

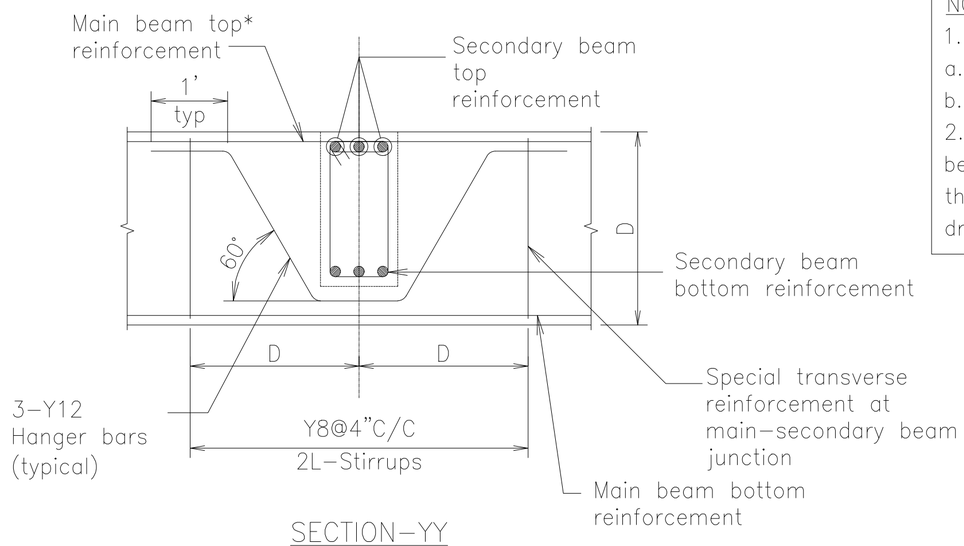
JOB NO: KASN26	All dimensions are in feets and inches				Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/10/2026	Filename Q:\KURAL ASSOCIATES ARCHITECTURAL FORUM\SK BUILDERS AND PROMOTORS\SLAB ONLY\GFC FOUNDATION QUALITY BUILDERS STRL	Date 01/10/2026	Scale 1:1.7
PROPOSED RESIDENTIAL BUILDING				LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF STAIRCASE WAIST SLAB	
CLIENT: M/s. S.K BUILDERS				CONSULTANT: KURAL ASSOCIATES	Sheet 21 [A3 Sheet]

R0	GOOD FOR CONSTRUCTION	01/10/2026	TBN

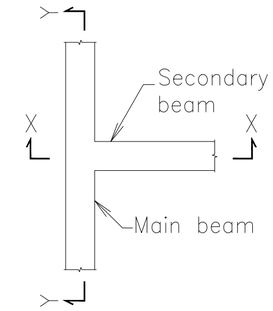
NOTE:
1. Clear cover
a. sunshade = 15mm
b. lintel beam = 15mm
2. Miscellaneous details presented in this sheet must be referred for general reinforcement arrangements that are not specifically indicated in other sheets of drawings.



SECTION–XX
(General connection detail with Reduced development length)

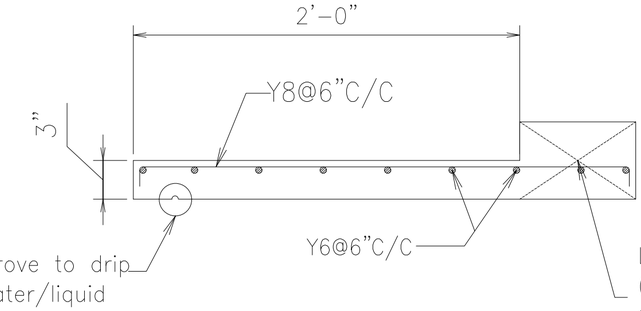


SECTION–YY
(Secondary beam size is shown reduced for explanatory purpose)

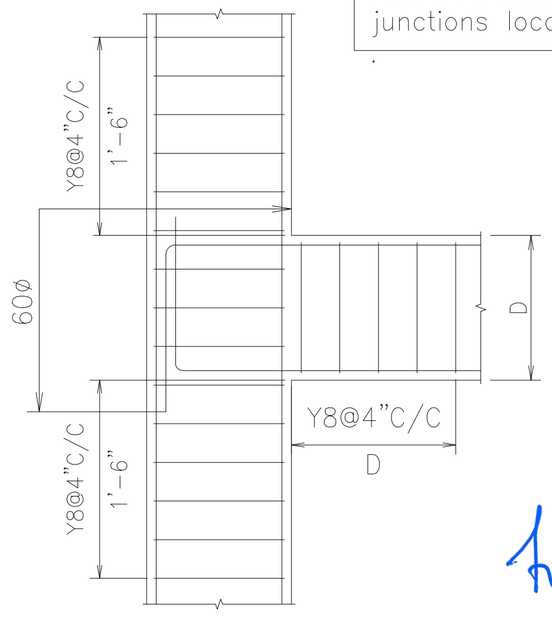


MAIN BEAM – SECONDARY BEAM JUNCTION

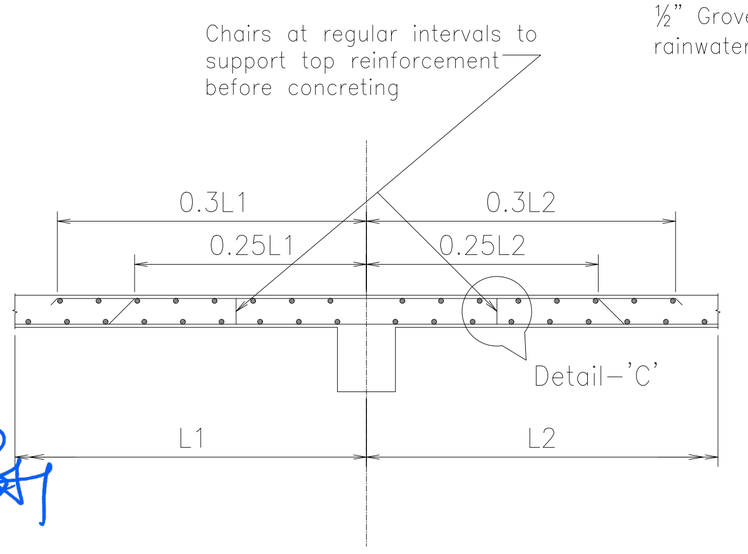
*–Top reinforcements of the main beams shall be sloped down under the top reinforcements of secondary beams at junctions located near midspan of main beam



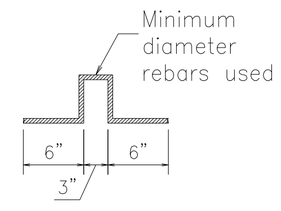
CROSS SECTION OF SUNSHADE (Typical)



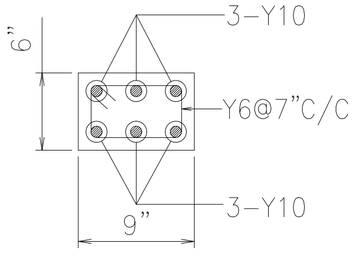
BEAM – COLUMN JUNCTION (Typical)
(General connection detail with lap details and reinforcement)



SLAB – BEAM JUNCTION (Typical)
(General crank details and beam reinforcements are not shown for clarity only)



DETAIL–'C'
(Typical chair detail)



C.S of Lintel beam
[9"X6"]

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JOB NO: KASN26	All dimensions are in feets and inches			Ref:Architectural Drawings	
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/10/2026	Filename G:\KURAL ASSOCIATES ARCHITECTURAL FORUM\SK BUILDERS AND PROMOTORS\SJAB ONLY\GFC FOUNDATION QUALITY BUILDERS STRL	Date 01/10/2026	Scale 1:1.3
PROPOSED RESIDENTIAL BUILDING			MISCELLANEOUS DETAILS		
CLIENT: M/s. S.K BUILDERS			CONSULTANT: KURAL ASSOCIATES	Sheet 22 [A3 Sheet]	

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

Verified RealEstate
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OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

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.