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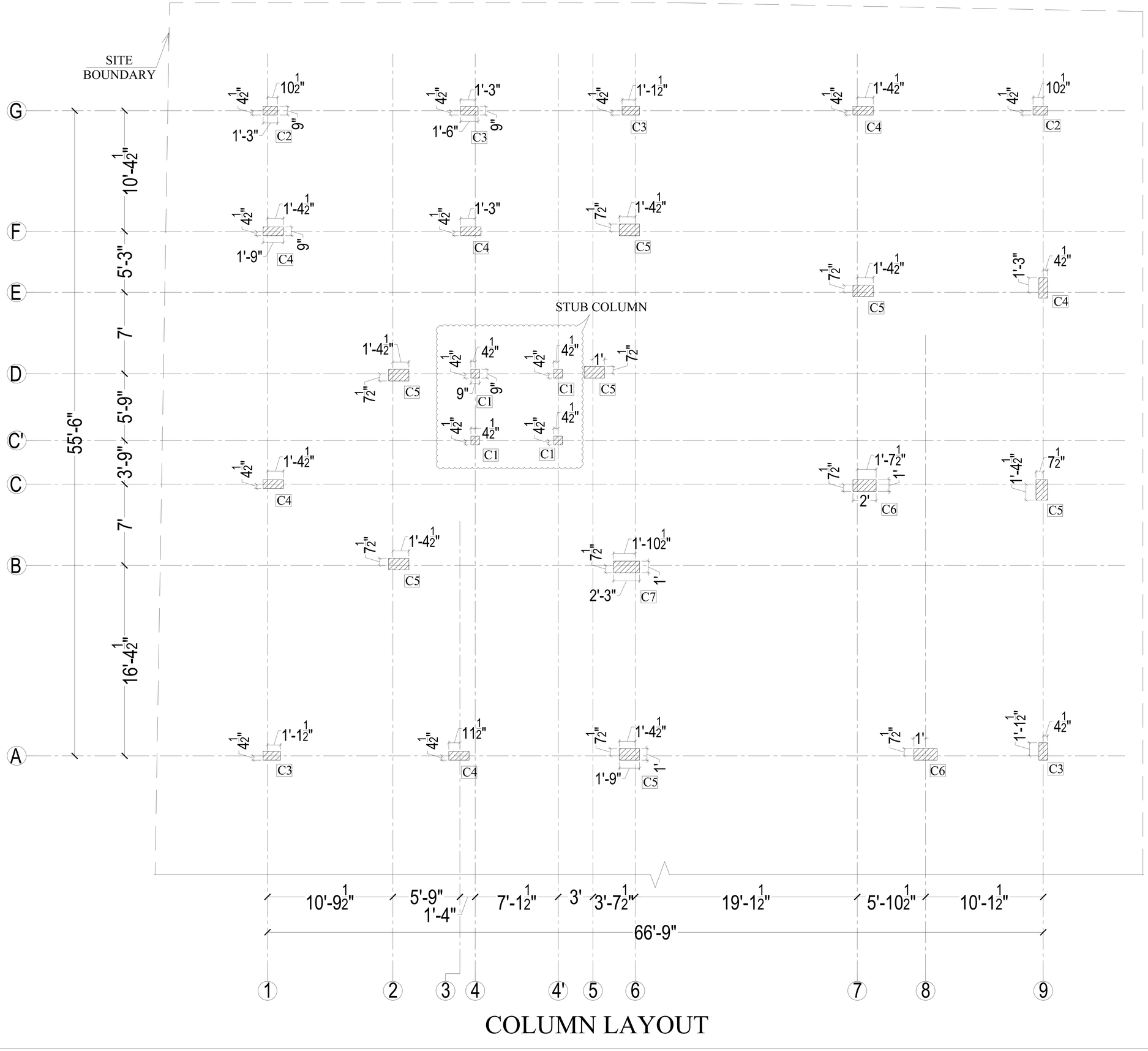
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Verified RealEstate™
3/350/2 Mettukuppam,
OMR Thoraipakkam,
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+91 9996 12 9996
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DIGITALLY VERIFIED RECORD



COLUMN LAYOUT

General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. USE M25 GRADE CONCRETE & Fe500 STEEL.
4. USE CLEAR COVER :
   * 40MM FOR COLUMN.
   * 25MM FOR BEAMS.
   * FOR FOOTING(75MM–SIDE FACE)&(50MM–BOTTOM).
5. THIS BUILDING IS DESIGNED FOR GROUND+4 FLOORS ONLY.
6. SBC OF SOIL CONSIDERED = 350kN/Sq.m @ 1.5m.
7. DEVELOPMENT/LAP LENGTH FOR BARS IN TENSION = 57 DIA.
8. THIS DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.
9. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
10. THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATIONS OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

REV	DESCRIPTION	DATE	REV BY	REV CHK BY

FOR DISCUSSION	
FOR APPROVAL	✓
GOOD FOR CONSTRUCTION	

N

CLIENT :-
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PROJECT TITLE :-
M/s.12H Appartment.,
--

ARCHITECT NAME :-
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :-
Column Layout.

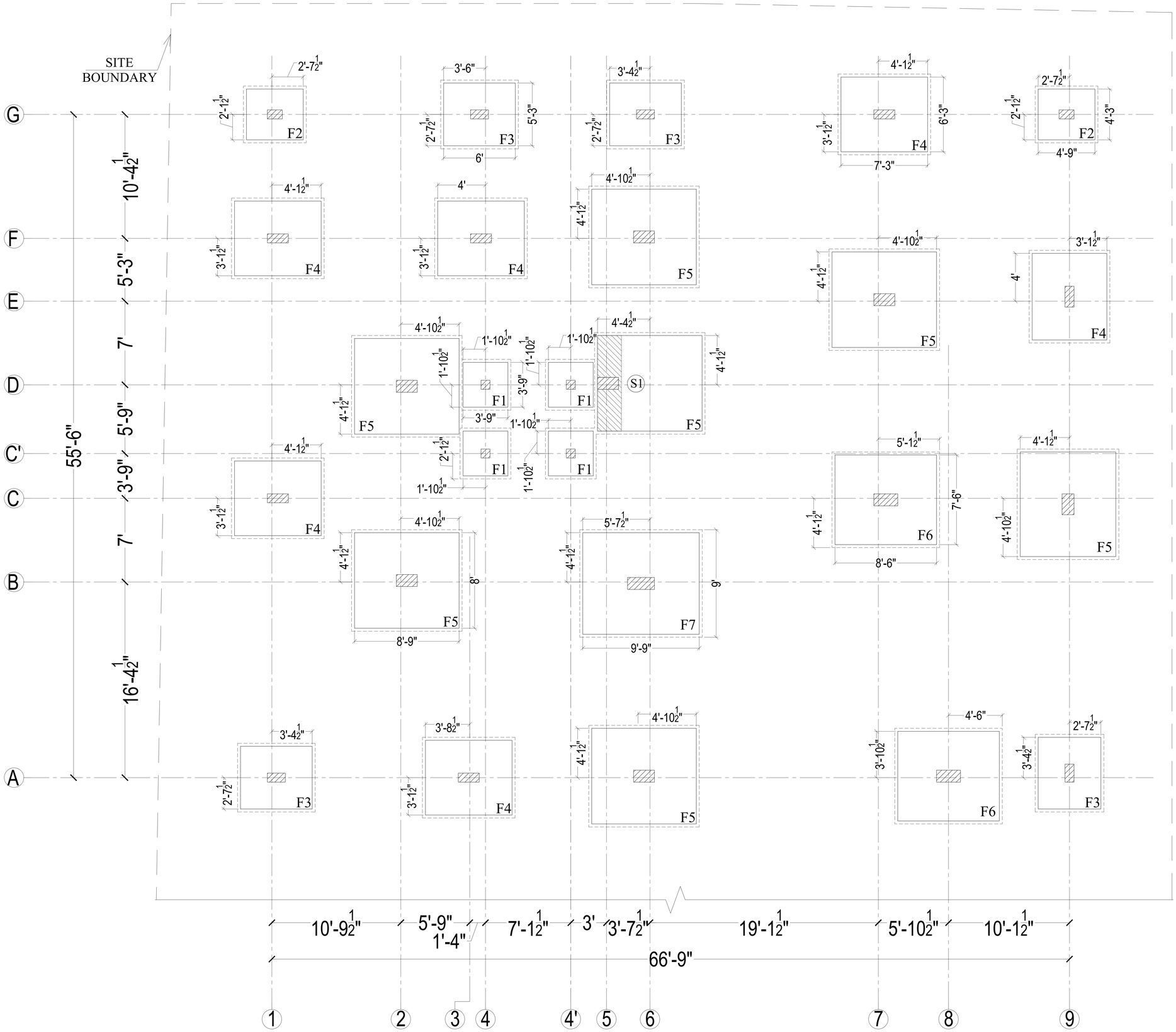
STRUCTURAL CONSULTANTS

METIS STRUCTURES — re enforcing dream

S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/CD/02
R0

DESIGN BY :	IRUDAYARAJ C	APPD BY :	S.ARUN KUMAR
DRAWN BY :	SURYA.S	DATE :	23.02.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS



FOOTING LAYOUT

General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
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PROJECT TITLE :-
M/s.12H Appartment.,
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ARCHITECT NAME :-
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :-
Footing Layout.

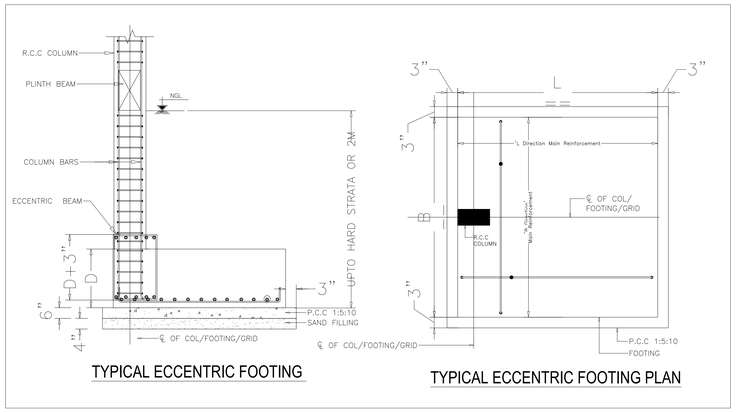
STRUCTURAL CONSULTANTS
METIS STRUCTURES re enforcing dream
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9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/FD/01
RO

DESIGN BY :	IRUDAYARAJ C	APPD BY :	S.ARUN KUMAR
DRAWN BY :	SURYA.S	DATE :	23.02.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS

FOOTING SCHEDULE :-

TYPE	L	B	D	BOTTOM REINFORCEMENT		COLUMN SIZE	NO OF FOOTINGS
				SHORT	LONG		
F1	3'9"	3'9"	1'0"	Y10@8"C/C	Y10@8"C/C	0'9"X0'9"	04
F2	4'9"	4'3"	1'6"	Y10@5"C/C	Y10@5"C/C	1'3"X0'9"	02
F3	6'0"	5'3"	1'9"	Y12@7"C/C	Y12@7"C/C	1'6"X0'9"	04
F4	7'3"	6'3"	2'0"	Y12@6"C/C	Y12@6"C/C	1'9"X0'9"	06



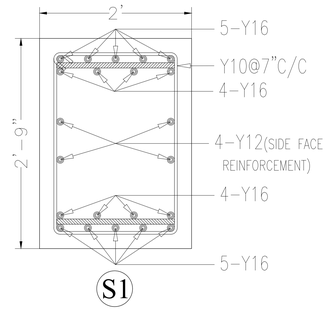
TYPICAL ECCENTRIC FOOTING

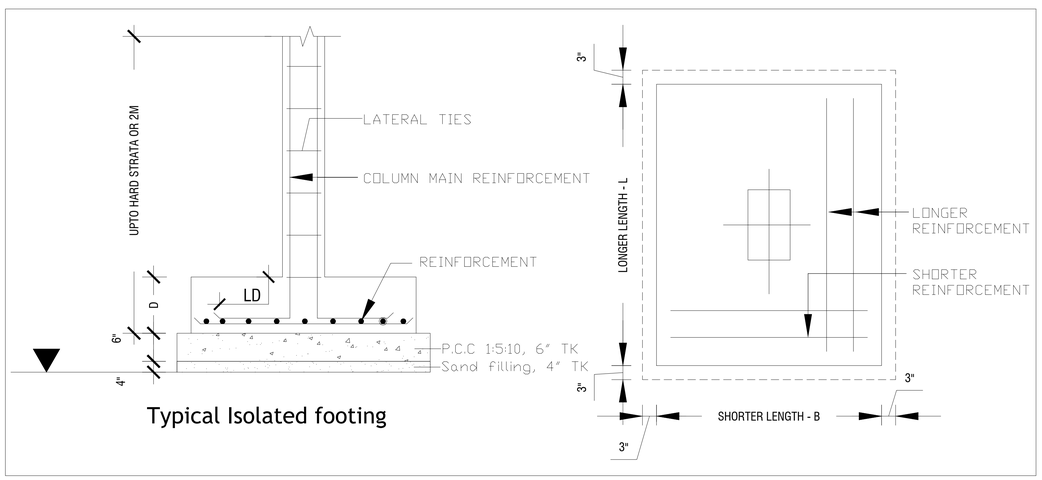
TYPICAL ECCENTRIC FOOTING PLAN

FOOTING SCHEDULE :-

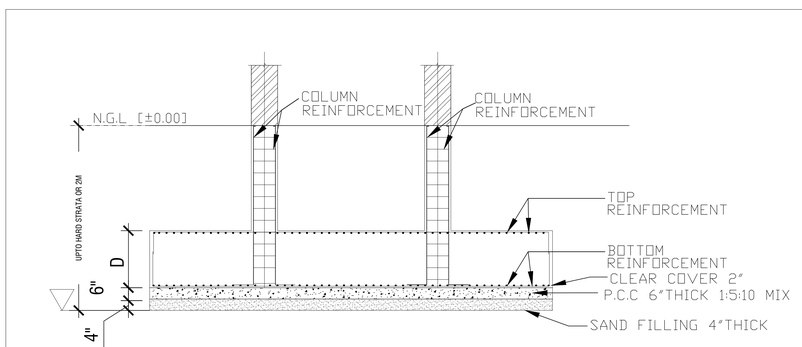
TYPE	L	B	D	BOTTOM REINF	TOP REINF	COLUMN SIZE	NO OF FOOTINGS
				SHORT/LONG	SHORT/LONG		
F5	8'9"	8'0"	2'6"	Y12@5"C/C	Y10@5"C/C	1'9"X1'0"	07
F6	8'6"	7'6"	2'6"	Y12@5"C/C	Y10@5"C/C	2'0"X1'0"	02
F7	9'9"	9'0"	2'9"	Y16@7"C/C	Y12@7"C/C	2'3"X1'0"	01
					TOTAL		26

ECCENTRIC BEAM DETAIL:





Typical Isolated footing



RAFT/COMBINED FOOTING TYPICAL LAYOUT

General Notes :-

1. ALL DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE MENTIONED.
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REV	DESCRIPTION	DATE	REV BY	REV CHK BY

FOR DISCUSSION	
FOR APPROVAL	✓
GOOD FOR CONSTRUCTION	

N

CLIENT :-

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PROJECT TITLE :-

M/s.12H Appartment.,

--

ARCHITECT NAME :-

M/s.Zentangle.,
Bangalore.

DRAWING TITLE :-

Footing Reinforcement Detail.

STRUCTURAL CONSULTANTS

METIS STRUCTURES re enforcing dream

S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

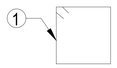
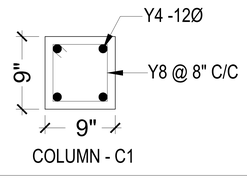
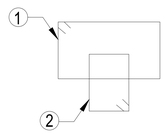
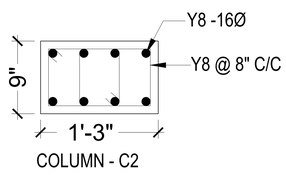
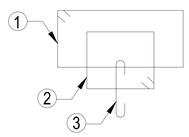
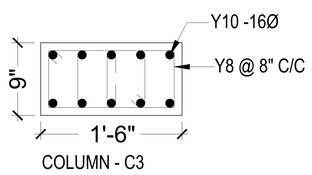
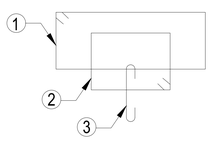
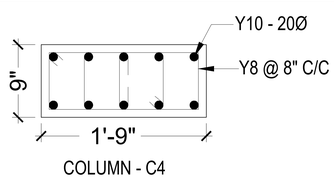
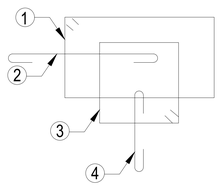
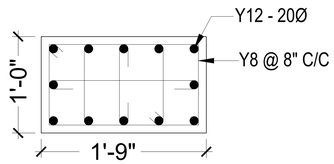
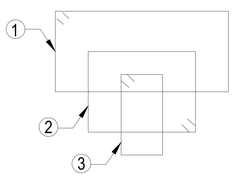
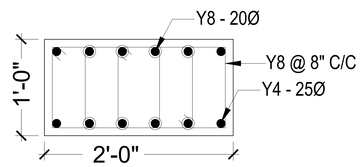
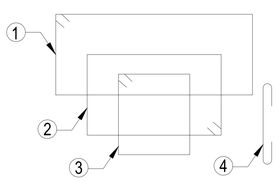
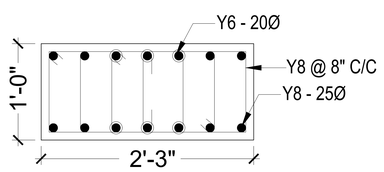
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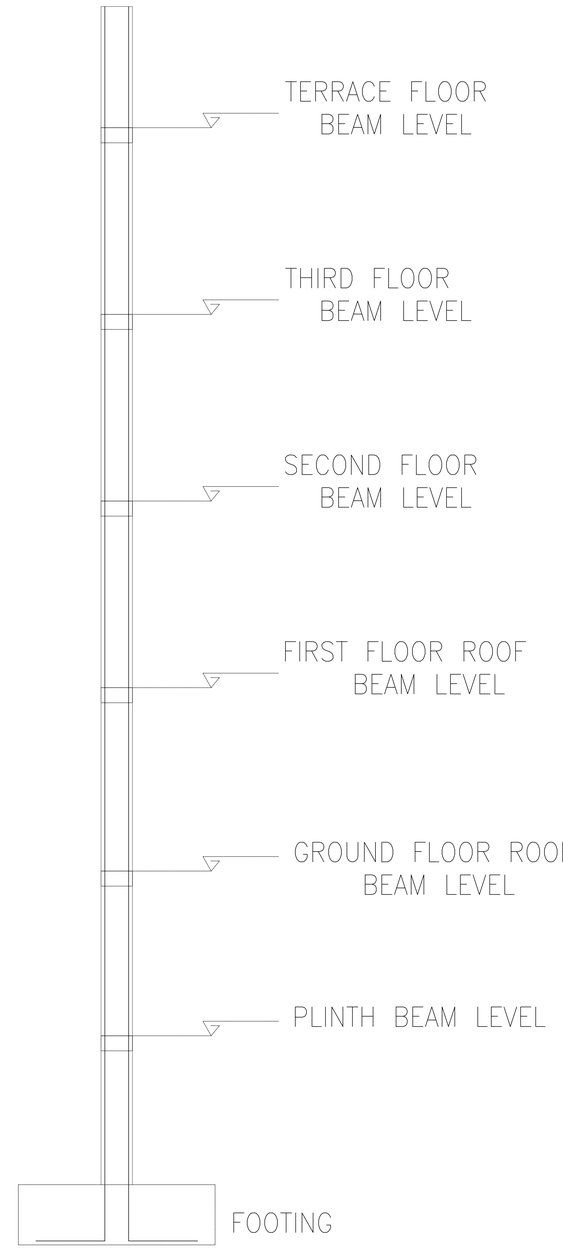
MS/2892/FD/01.A

R0

DESIGN BY :	IRUDAYARAJ C	APPD BY :	S.ARUN KUMAR
DRAWN BY :	SURYA.S	DATE :	23.02.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS

COLUMN REINFORCEMENT DETAIL:-

TIES PATTERN	UPTO TERRACE FLOOR	NO.OF COLUMNS
	 COLUMN - C1	04
	 COLUMN - C2	02
	 COLUMN - C3	04
	 COLUMN - C4	06
	 COLUMN - C5	07
	 COLUMN - C6	02
	 COLUMN - C7	01
	TOTAL	26



TYPICAL C/S OF A COLUMN

NOTES:-

● -LARGER DIA ROD

◉ -SMALLER DIA ROD

General Notes :-

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REV	DESCRIPTION	DATE	REV BY	REV CHK BY

FOR DISCUSSION	
FOR APPROVAL	✓
GOOD FOR CONSTRUCTION	

N

CLIENT :-
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PROJECT TITLE :-
M/s.12H Appartment.,
--

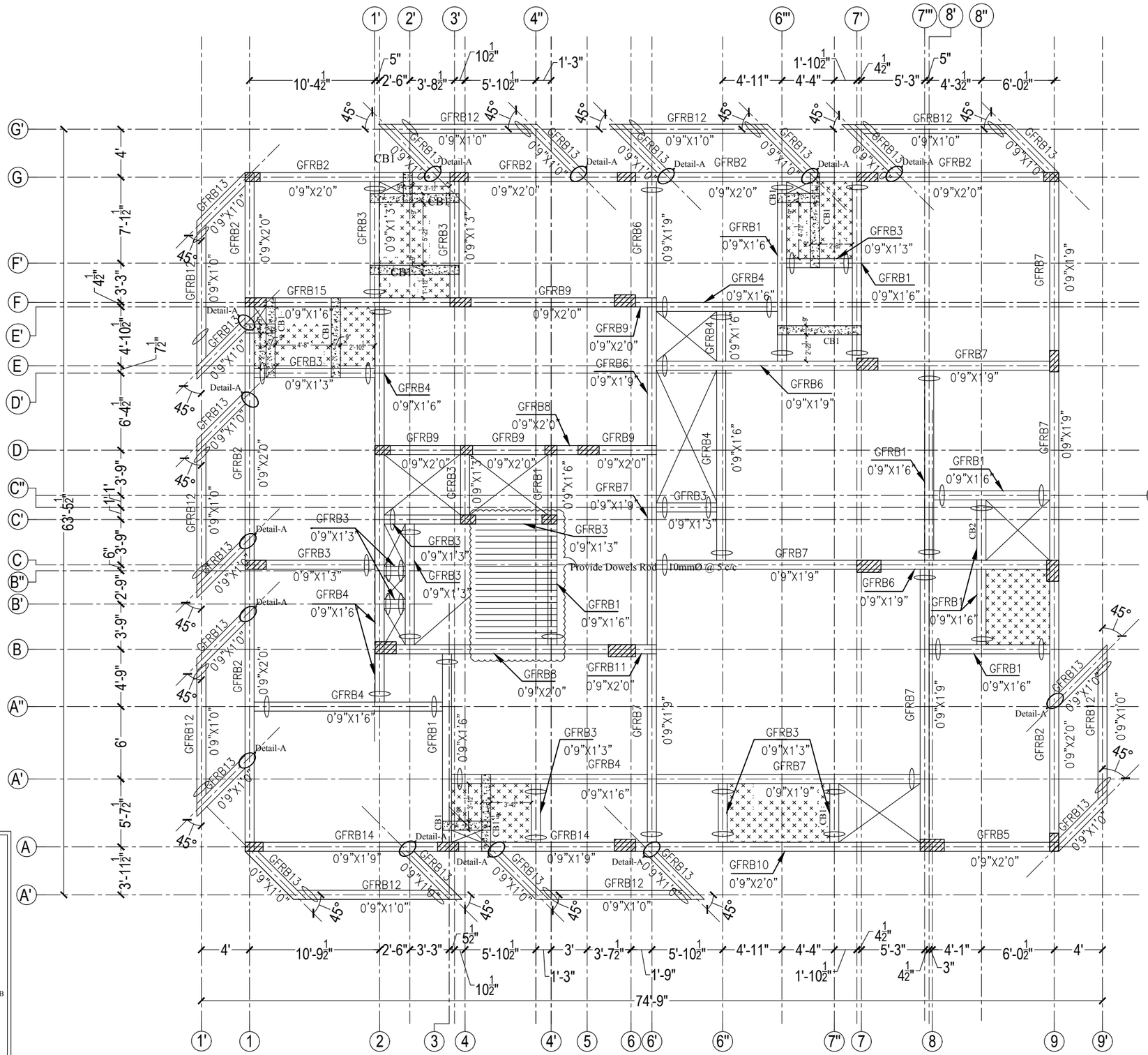
ARCHITECT NAME :-
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :-
Column Reinforcement Detail.

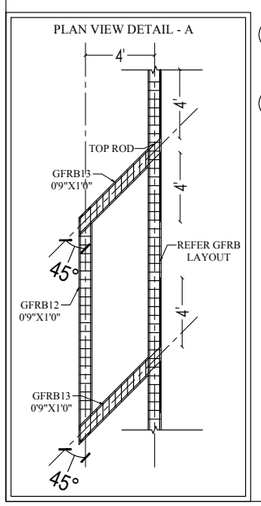
STRUCTURAL CONSULTANTS
METIS STRUCTURES —re enforcing dream—
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
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Mobile : 979 000 6296.

DRAWING NO
MS/2892/CD/02.A
RO

DESIGN BY :	IRUDAYARAJ C	APPD BY :	S.ARUN KUMAR
DRAWN BY :	SURYA.S	DATE :	23.02.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS



ROOF BEAM LAYOUT



General Notes :–

1. ALL DIMENSIONS ARE IN FEET&INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe500) CONFORMING TO IS:1786
4. GRADE OF CONCRETE SHALL BE M25 U.O.S
5. CLEAR COVER FOR MAIN REINFORCEMENT
   * 25MM FOR BEAMS.
   * 20MM FOR SLABS.
6. DEVELOPMENT/LAP LENGTH LENGTH FOR BARS IN TENSION = 57 DIA.
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NOTES:

3" ANCHORAGE(Ld) SHOULD BE PROVIDED AT THE MARKED BEAM ENDS.

REV	DESCRIPTION	DATE	REV BY	CHK BY
03	Revised as Comments	10.08.2024	Surya.S	Aravind.R
02	Revised as Comments	02.08.2024	Surya.S	Aravind.R
01	Revised as Comments	08.07.2024	Surya.S	Aravind.R

FOR DISCUSSION	
FOR APPROVAL	
GOOD FOR CONSTRUCTION	✓

N

CLIENT :-
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PROJECT TITLE :-
M/s.12H Appartment.,
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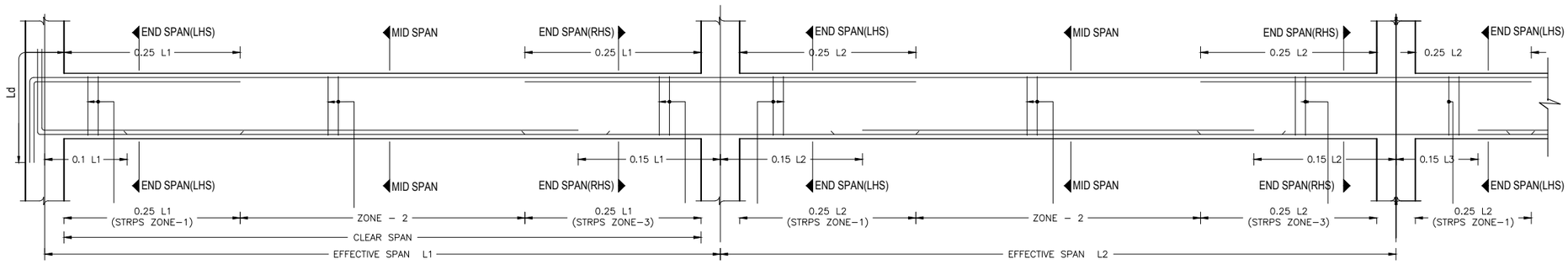
ARCHITECT NAME :-
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :-
Ground Floor Roof Beam Layout.,

STRUCTURAL CONSULTANTS
METIS STRUCTURES — re enforcing dream
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
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Mobile : 979 000 6296.

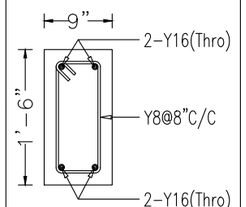
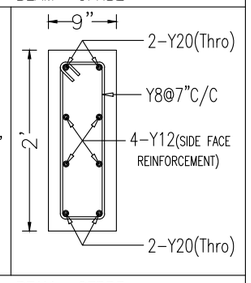
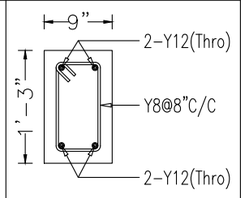
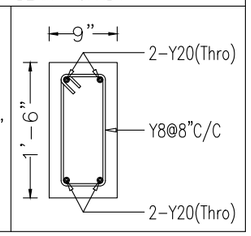
DRAWING NO
MS/2892/GFRB/04
R3

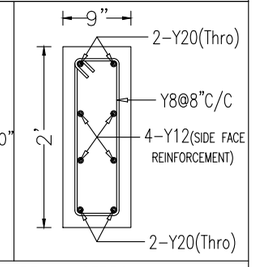
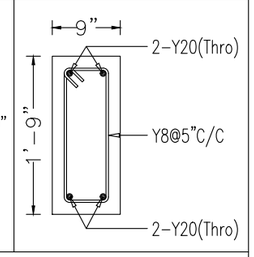
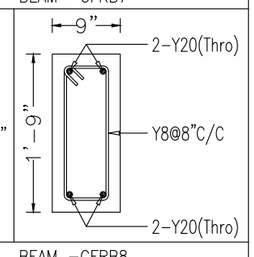
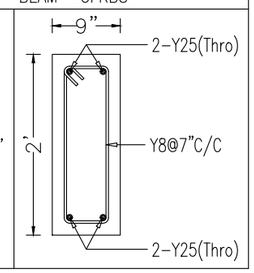
DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	30.04.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS

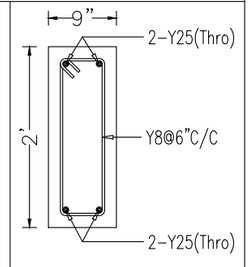
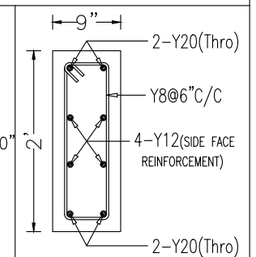
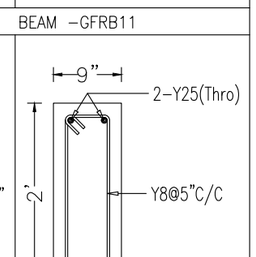


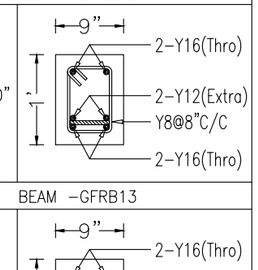
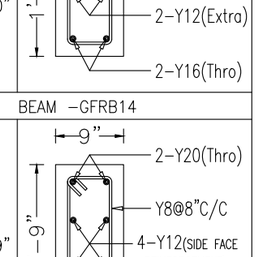
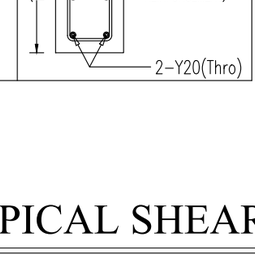
TYPICAL LONGITUDINAL SECTION

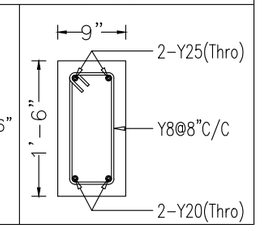
GROUND FLOOR ROOF BEAM REINFORCEMENT DETAIL:-

S.No	BEAM SIZE	BEAM DETAIL
	BEAM –GFRB1	
1	0'9"x1'6"	
	BEAM –GFRB2	
2	0'9"x2'0"	
	BEAM –GFRB3	
3	0'9"x1'3"	
	BEAM –GFRB4	
4	0'9"x1'6"	

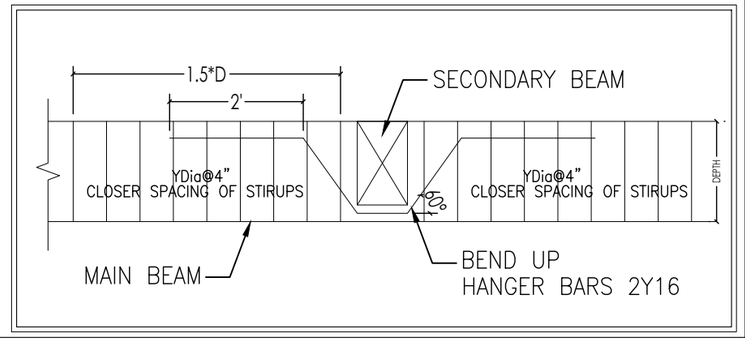
S.No	BEAM SIZE	BEAM DETAIL
	BEAM –GFRB5	
5	0'9"x2'0"	
	BEAM –GFRB6	
6	0'9"x1'9"	
	BEAM –GFRB7	
7	0'9"x1'9"	
	BEAM –GFRB8	
8	0'9"x2'0"	

S.No	BEAM SIZE	BEAM DETAIL
	BEAM –GFRB9	
9	0'9"x2'0"	
	BEAM –GFRB10	
10	0'9"x2'0"	
	BEAM –GFRB11	
11	0'9"x2'0"	

S.No	BEAM SIZE	BEAM DETAIL
	BEAM –GFRB12	
12	0'9"x1'0"	
	BEAM –GFRB13	
13	0'9"x1'0"	
	BEAM –GFRB14	
14	0'9"x1'9"	

S.No	BEAM SIZE	BEAM DETAIL
	BEAM –GFRB15	
15	0'9"x1'6"	

TYPICAL SHEAR ROD SECTION:



General Notes :–

1. ALL DIMENSIONS ARE IN FEET&INCHES UNLESS OTHERWISE MENTIONED.
2. DO NOT SCALE THE DRAWINGS, FOLLOW FIGURED DIMENSION ONLY.
3. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe500) CONFORMING TO IS:1786
4. GRADE OF CONCRETE SHALL BE M25 U.O.S
5. CLEAR COVER FOR MAIN REINFORCEMENT
   - * 25MM FOR BEAMS.
   - * 20MM FOR SLABS.
6. DEVELOPMENT/LAP LENGTH LENGTH FOR BARS IN TENSION = 57 DIA.
7. THIS DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL DRAWINGS.
8. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
9. THE CUSTOMER IS RESPONSIBLE FOR ACCURATE LOCATIONS OF BUILDING LINES AND BENCH MARKS AT THE BUILDING SITE.

NOTES:

– SPACER ROD
(Provide 16mm or 20mm or 25mm dia rod)

REV	DESCRIPTION	DATE	REV BY	CHK BY
03	Revised as Comments	10.08.2024	Surya.S	Aravind.R
02	Revised as Comments	02.08.2024	Surya.S	Aravind.R
01	Revised as Comments	08.07.2024	Surya.S	Aravind.R

FOR DISCUSSION	
FOR APPROVAL	
GOOD FOR CONSTRUCTION	✓

N

CLIENT :–
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PROJECT TITLE :–
M/s.12H Appartment.,
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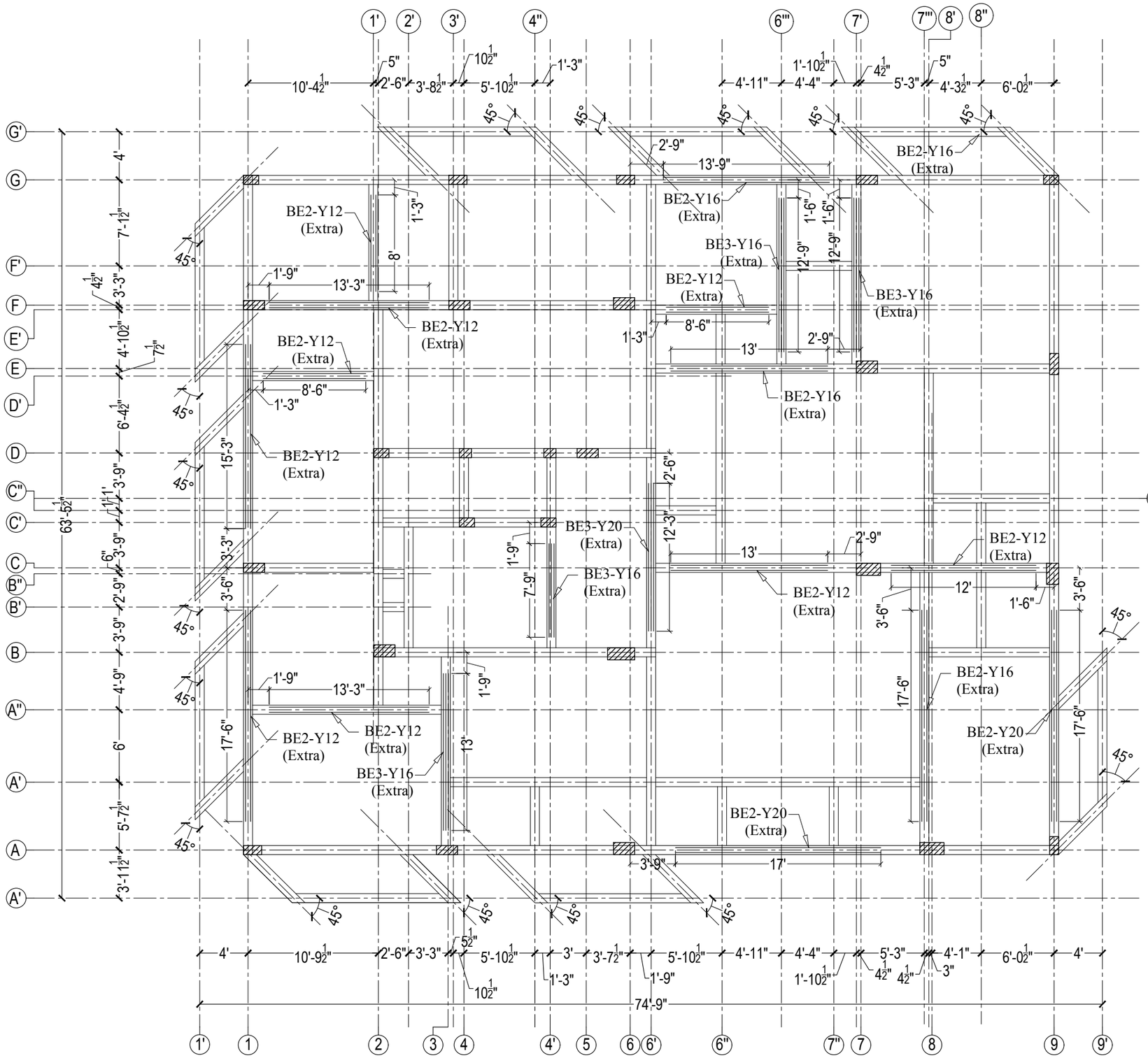
ARCHITECT NAME :–
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :–
Ground Floor Roof Beam Reinforcement Detail.

STRUCTURAL CONSULTANTS
METIS STRUCTURES —re enforcing dream—
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/GFRB/04.A
R3

DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	30.04.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS



ROOF BEAM BOTTOM EXTRA ROD LAYOUT & DETAIL

General Notes :–

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03	Revised as Comments	10.08.2024	Surya.S	Aravind.R
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01	Revised as Comments	08.07.2024	Surya.S	Aravind.R

FOR DISCUSSION	
FOR APPROVAL	
GOOD FOR CONSTRUCTION	✓

N

CLIENT :–
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PROJECT TITLE :–
M/s.12H Appartment.,
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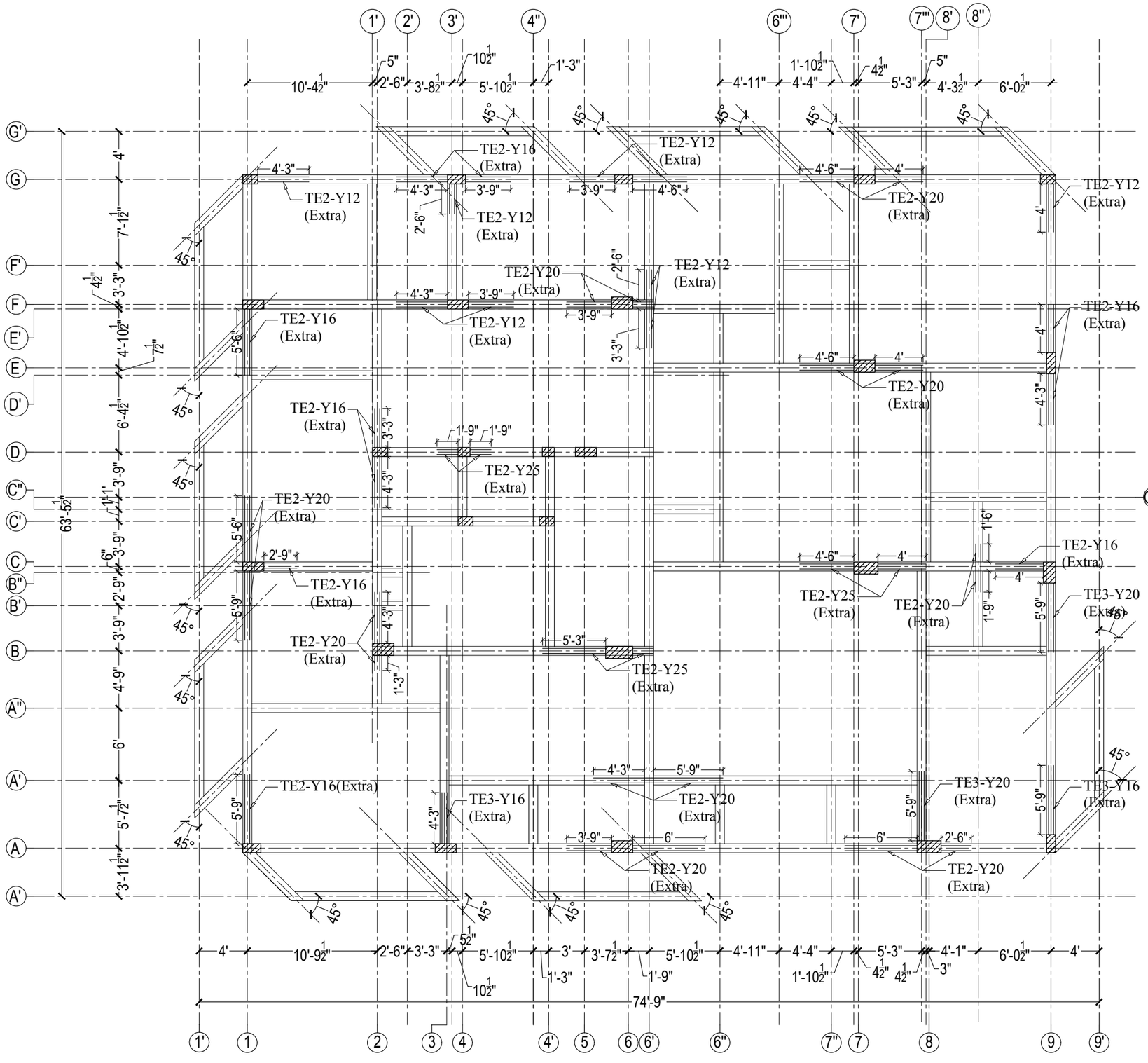
ARCHITECT NAME :–
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :–
Ground Floor Roof Beam Bottom Extra Rod Layout & Detail

STRUCTURAL CONSULTANTS
METIS STRUCTURES —re enforcing dream—
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/GFRB/04.B
R3

DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	30.04.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS



ROOF BEAM TOP EXTRA ROD LAYOUT & DETAIL

General Notes :–

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REV	DESCRIPTION	DATE	REV BY	CHK BY
03	*Revised as Comments*	*10.08.2024*	*Surya.S*	*Aravind.R*
02	*Revised as Comments*	*02.08.2024*	*Surya.S*	*Aravind.R*
01	*Revised as Comments*	*08.07.2024*	*Surya.S*	*Aravind.R*

FOR DISCUSSION	
FOR APPROVAL	
GOOD FOR CONSTRUCTION	✓

CB1

N

CLIENT :–
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PROJECT TITLE :–
M/s.12H Appartment.,
--

ARCHITECT NAME :–
M/s.Zentangle.,
Bangalore.

DRAWING TITLE :–
Ground Floor Roof Beam Top Extra Rod Layout & Detail

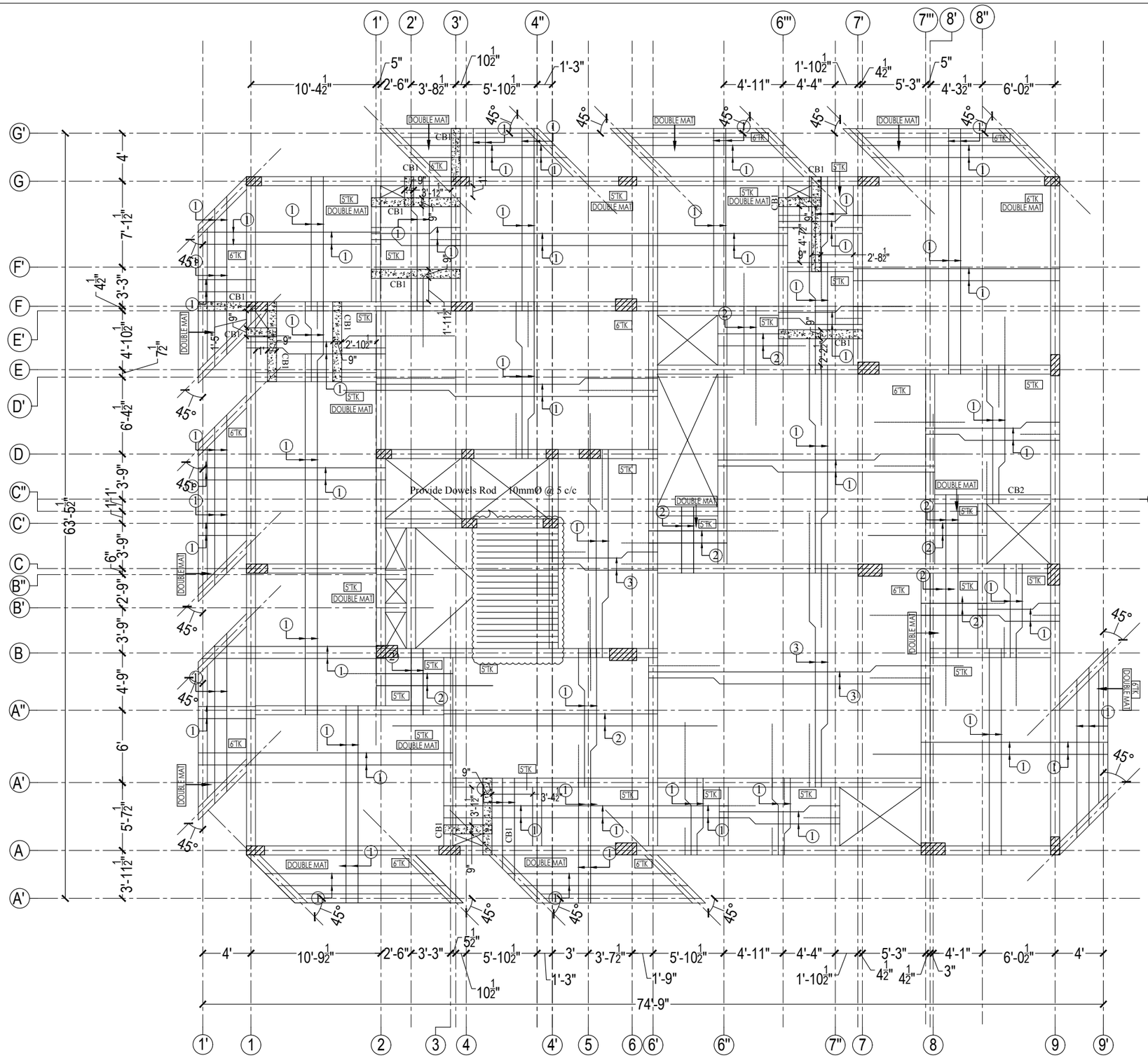
STRUCTURAL CONSULTANTS

METIS STRUCTURES — re enforcing dream

S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/GFRB/04.C
R3

DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	30.04.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS



General Notes :–

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02	*Revised as Comments*	*02.08.2024*	*Surya.S*	*Aravind.R*
01	*Revised as Comments*	*08.07.2024*	*Surya.S*	*Aravind.R*

FOR DISCUSSION		N
FOR APPROVAL		
GOOD FOR CONSTRUCTION	✓	

CLIENT :–
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PROJECT TITLE :–
M/s.12H Appartment.,
--

ARCHITECT NAME :–
M/s.Zentangle.,
Bangalore.

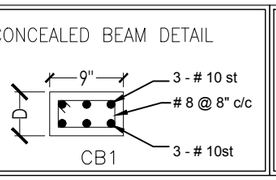
DRAWING TITLE :–
Ground Floor Roof Beam Slab Layout & Detail

STRUCTURAL CONSULTANTS
METIS STRUCTURES —re enforcing dream—
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

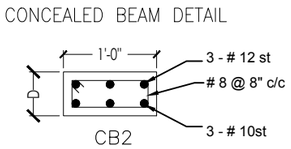
DRAWING NO
MS/2892/GFRB/04.D
R3

DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	28.03.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS

CONCEALED BEAM DETAIL

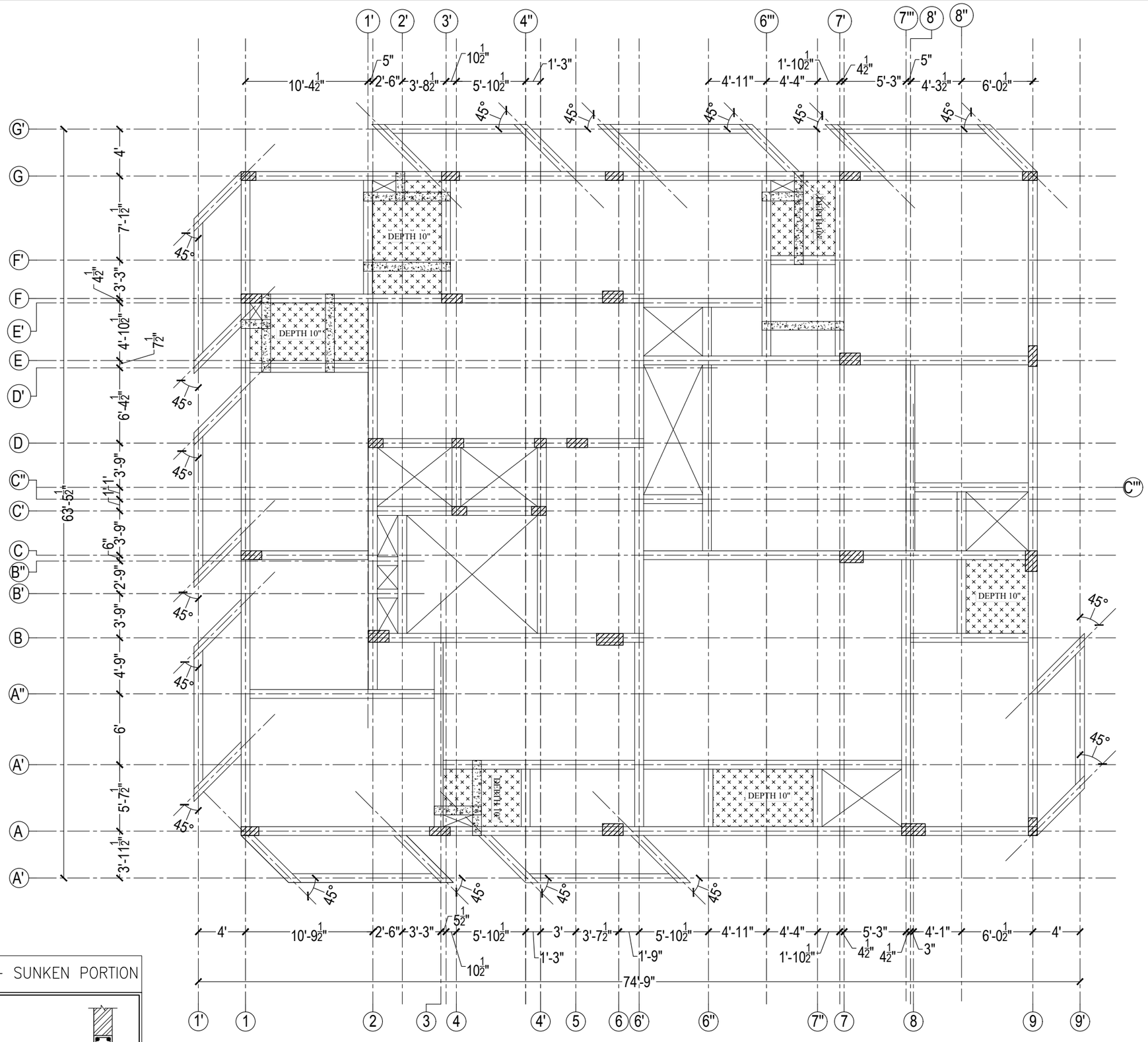


CONCEALED BEAM DETAIL



ROOF BEAM SLAB LAYOUT & DETAIL

REINFORCEMENT DETAIL:–
① – 10mmø @ 8" c/c
② – 8mmø @ 8" c/c
③ – 10mmø @ 5" c/c



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FOR DISCUSSION	
FOR APPROVAL	
GOOD FOR CONSTRUCTION	✓

N

CLIENT :–
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PROJECT TITLE :–
M/s.12H Appartment.,
--

ARCHITECT NAME :–
M/s.Zentangle.,
Bangalore.

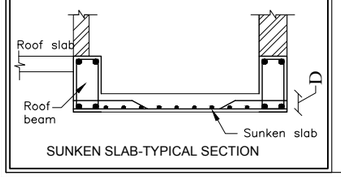
DRAWING TITLE :–
Ground Floor Roof Sunken Slab Layout & Detail.,

STRUCTURAL CONSULTANTS
METIS STRUCTURES — re enforcing dream
S.ARUN KUMAR,M.E.,(Struct)
9,9-1,Lakshmi Garden,
Sankara College Road,
Saravanampatti,
Coimbatore-641 035.
Mobile : 979 000 6296.

DRAWING NO
MS/2892/GFRB/04.E
R3

DESIGN BY :	RISHI.R	APPD BY :	S.ARUN KUMAR
DRAWN BY :	JAGADEES N	DATE :	30.04.2024
CHKD BY :	ARAVIND.R	SH.SIZE : A3	SCALE NTS

– SUNKEN PORTION



SUNKEN SLAB-TYPICAL SECTION

ROOF BEAM SUNKEN SLAB LAYOUT & DETAIL

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
3/350/2 Mettukuppam,
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.