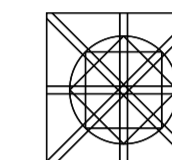


PROJECT NO. :
DATE : 13-11-24
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date
1	Column curtailment added	7-12-24

StructuralDrawings

Foundation

Footing Detail
Column Schedule

DRAWING NUMBER

SD 06

STRUCTURAL ENGINEER

consultant RAVIKUMAR

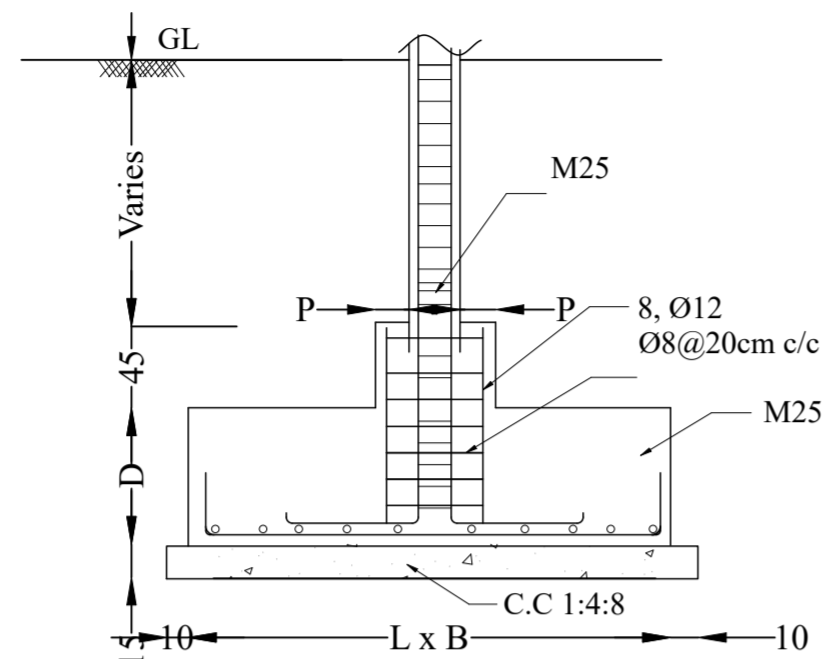
RAVIKUMAR ASSOCIATES
CONSULTING ENGINEERS
WINDA SODAN, THYRUVANANTHURAM
PH: 2222204, 2204322, 2204322, 2204322
Email: ravisodan@ravisodan.com

FOOTING SCHEDULE - SQUARE FOOTINGS

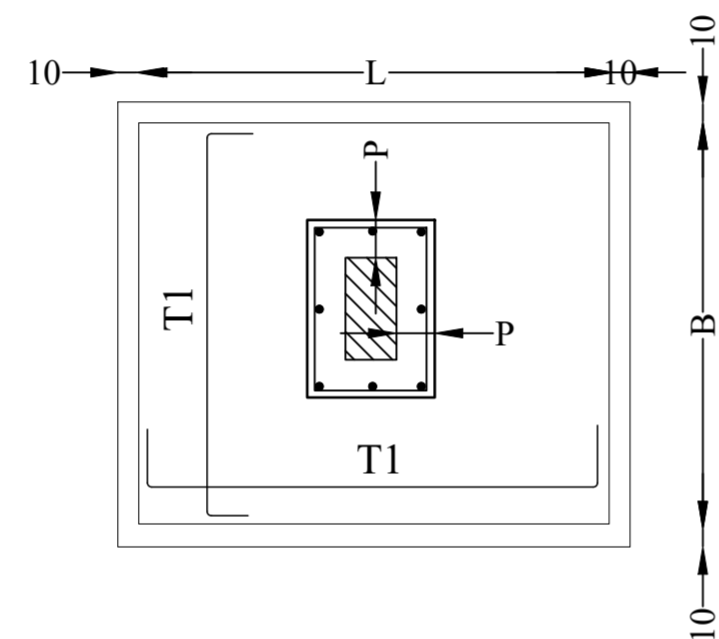
FOOTING	L x B (cms)	DEPTH D (cms)	PEDESTAL OFFSET (P, cms)	FOOTING REINFORCEMENT	
				T1	Both Ways
F1	125x135	40	15	Y12@15cm c/c	
F2	135x135	45	15	Y12@15cm c/c	
F3	160x160	50	15	Y12@12cm c/c	
F4	180x180	60	20	Y16@15cm c/c	
F5	200x200	65	20	Y16@12cm c/c	
F6	220x220	70	20	Y16@10cm c/c	
F7	240x240	80	25	Y20@18cm c/c	
F8	260x260	85	30	Y20@15cm c/c	
F9	295x295	95	30	Y20@12cm c/c	

FOOTING SCHEDULE - RECTANGULAR FOOTINGS

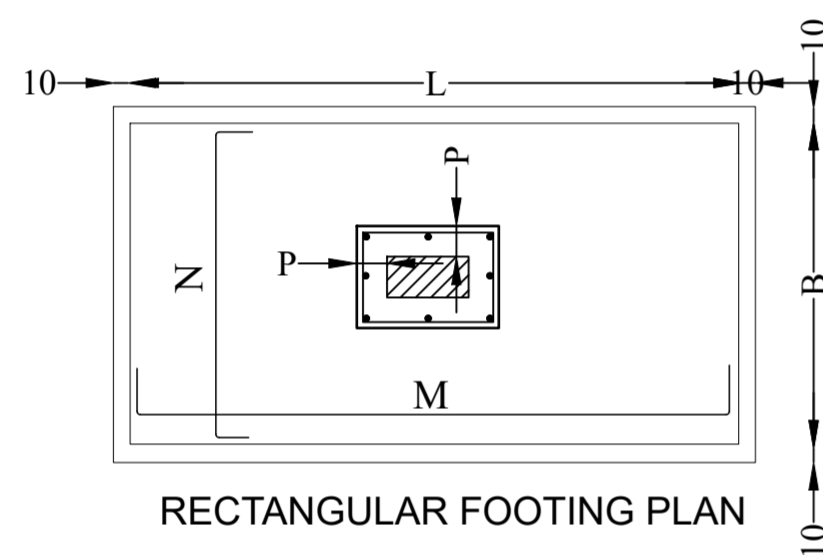
FOOTING	L x B (cms)	DEPTH D (cms)	PEDESTAL OFFSET (P, cms)	FOOTING REINFORCEMENT	
				M	N
F10	240 x 180	75	20	Y16@10cm c/c	Y16@15cm c/c
F11	270 x 200	85	30	Y20@15cm c/c	Y16@12cm c/c
F12	300 x 200	95	30	Y20@12cm c/c	Y16@12cm c/c
F13	380 x 230	100	35	Y20@12cm c/c	Y20@18cm c/c



TYPICAL FOOTING SECTION



TYPICAL FOOTING PLAN



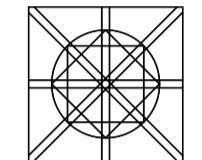
RECTANGULAR FOOTING PLAN

COLUMN SCHEDULE

FLOOR	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	
TOWER			 • 8, Y12	 • 4, Y16 • 4, Y12			 • 4, Y20 • 4, Y16	 • 4, Y25 • 4, Y20					
FIRST FLOOR	 • 8, Y12	 • 4, Y16 • 2, Y12	 • 4, Y16 • 4, Y12	 • 8, Y16	 • 8, Y20	 • 4, Y20 • 4, Y16	 • 4, Y25 • 4, Y20	 • 4, Y25 • 4, Y20	 • 4, Y20 • 8, Y16	 • 10, Y20	 • 12, Y25		
GROUND FLOOR	 • 8, Y12	 • 4, Y16 • 2, Y12	 • 4, Y16 • 4, Y12	 • 10, Y16	 • 10, Y20	 • 4, Y20 • 4, Y16	 • 4, Y25 • 6, Y20	 • 8, Y25	 • 4, Y20 • 8, Y16	 • 12, Y20	 • 14, Y25		

PROJECT NO. :
 DATE : 7-12-24
 SCALE : NTS
 DIMS : CMS
 DESIGNED BY : NOBLE
 CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date
1	Layout revised as per AR 24-1-25	27-1-25
2	col A2' & B2' shifted to grid 3	05-3-25
3	Center line corrected	24-6-25

StructuralDrawings

Foundation

Key Plan - Grade bear
Sub beam details

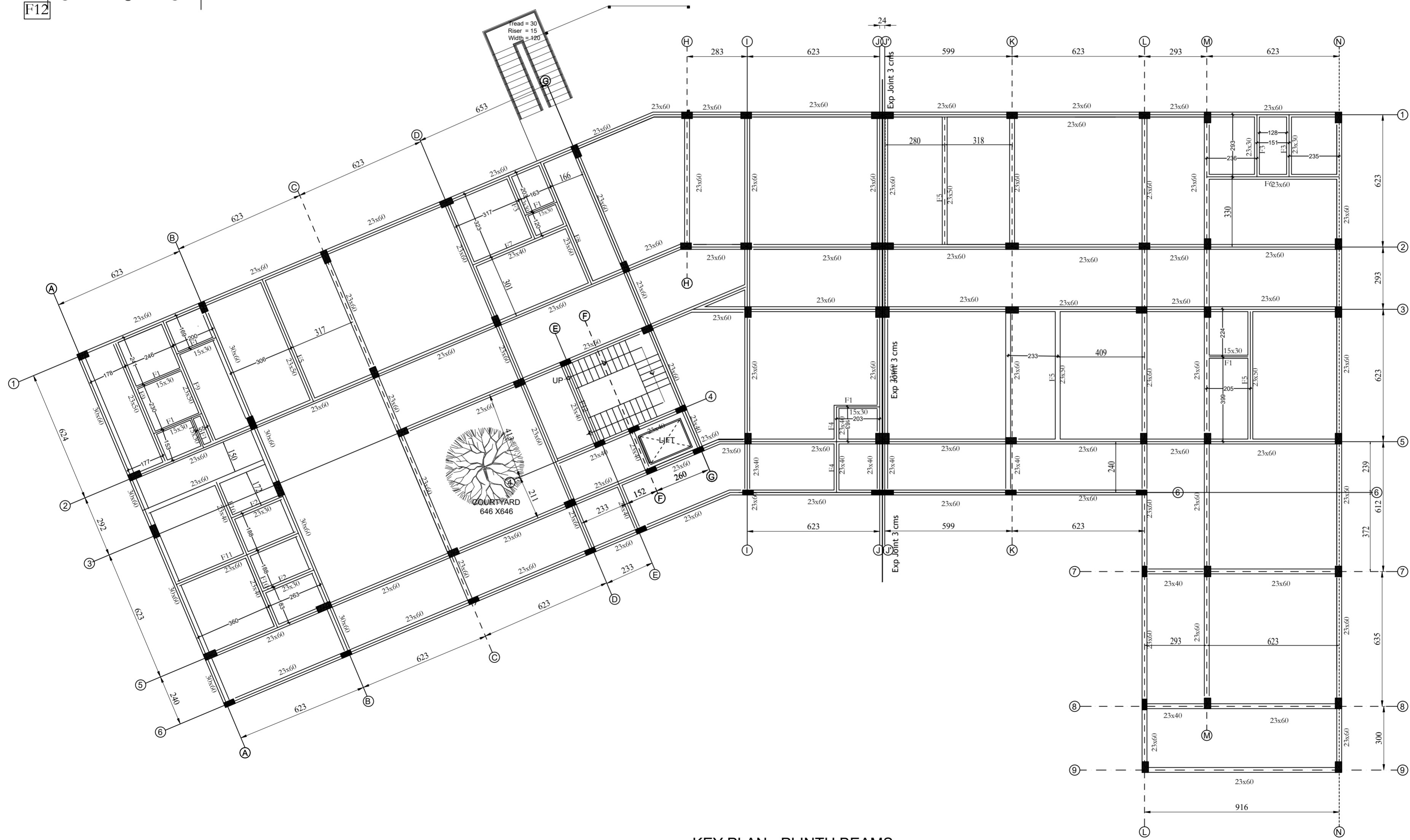
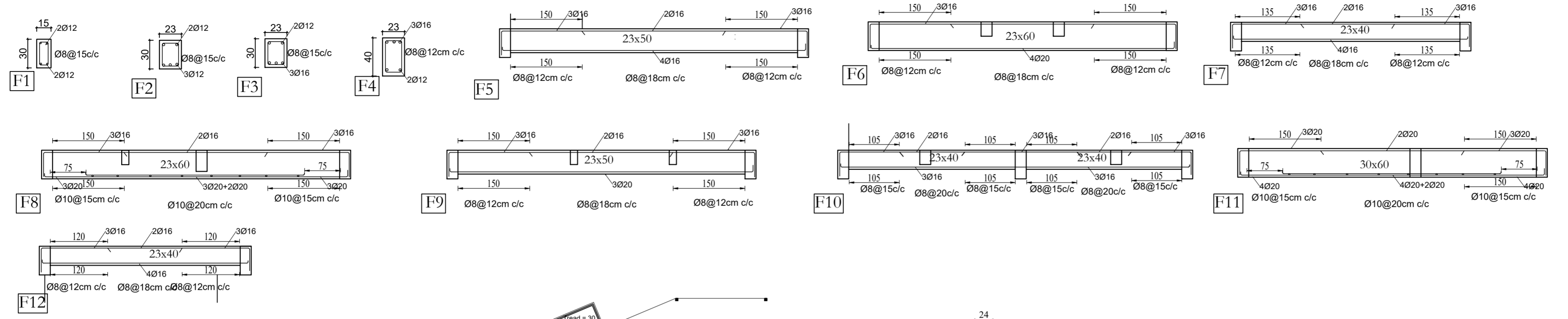
DRAWING NUMBER

SD 07

STRUCTURAL ENGINEER

consultant RAVIKUMAR

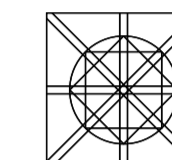
RAVIKUMAR ASSOCIATES
 CONSULTING ENGINEERS
 10/11, S. S. ROAD, THODUPUZHA, TRIPUNITHURURU
 PH: 04722024, 2304322, 2304323, 2304324, 2304325
 Email: ravis@ravikumarasociates.com



KEY PLAN - PLINTH BEAMS

PROJECT NO. :
DATE : 7-12-24
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date
1	Beam revised as per AR 24-1-25	27-1-25
2	Beams A1-A6 & B1-B6 revised	7-12-24

StructuralDrawings

Foundation

Grade Beam details –
(cross Beams)

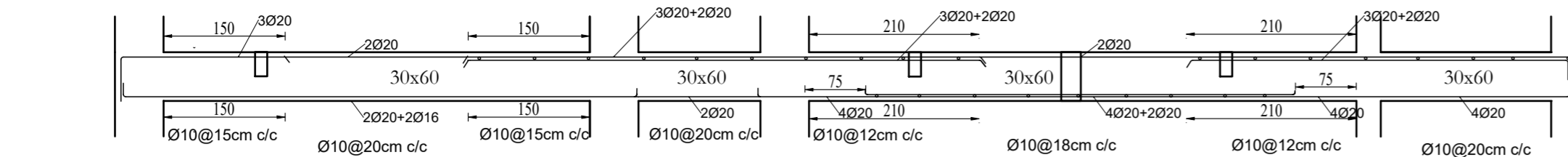
DRAWING NUMBER

SD 08

STRUCTURAL ENGINEER

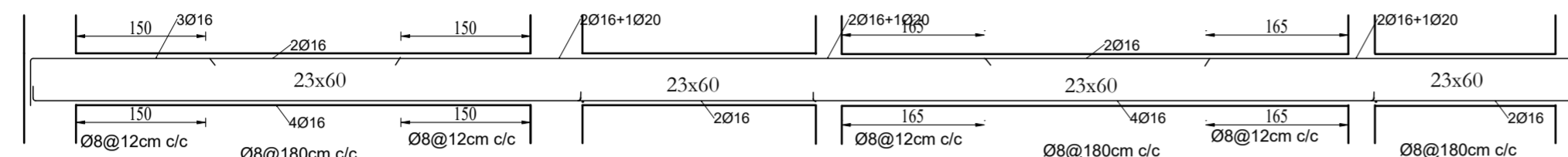
consultant RAVIKUMAR

RAVIKUMAR ASSOCIATES
CONSULTING ENGINEERS
WARRA SODAN THYRUVANANTHURAM
PH: 2222204, 2304322, 2304323, 2304324
Email: ravisodan@ravikumarassociates.com

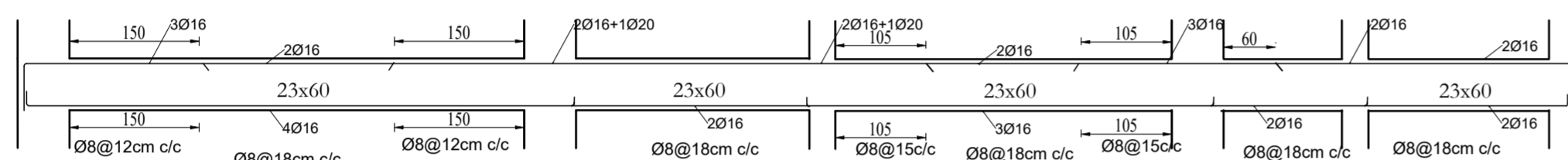


A1-A6

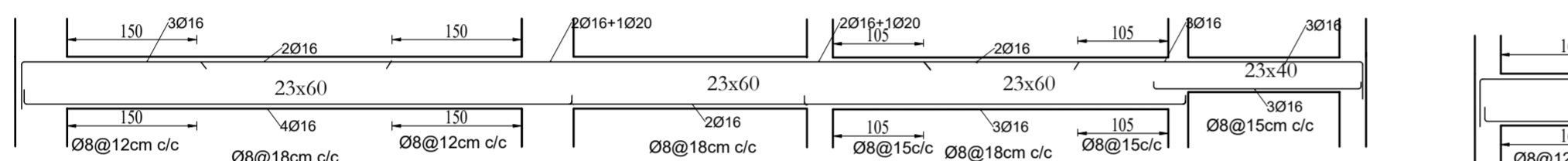
B1-B6



CI-C6



D1-D6



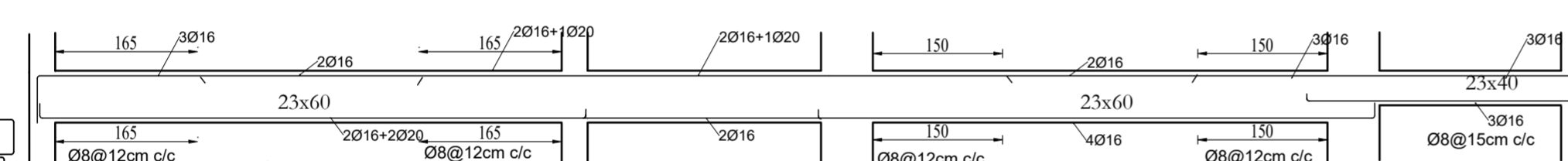
G1-G5

K3-K6
N7-L7
N8-L8



H1-H2

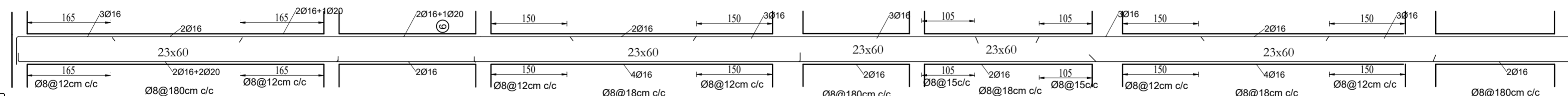
K1-K2



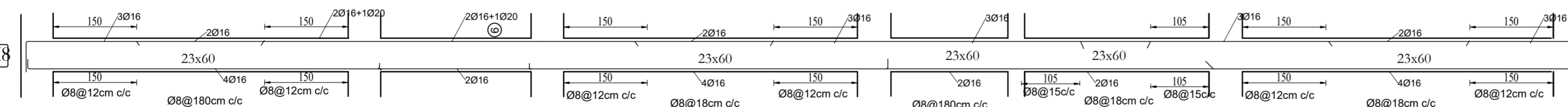
I1-I6

J1-J6

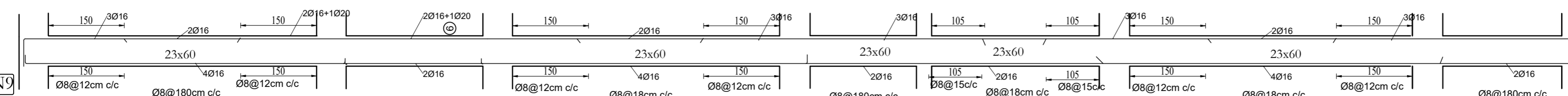
J'1-J'6



L1-L9



M1-M8

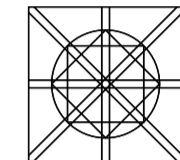


N1-N9

KCA-THODUPUZHA
Accademic Block

PROJECT NO. :
DATE : 07-12-24
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO		
No.	Name	Date

REVISIONS		
No.	Description	Date
1	C10 - D10 deleted	27-1-25

StructuralDrawings

Foundation

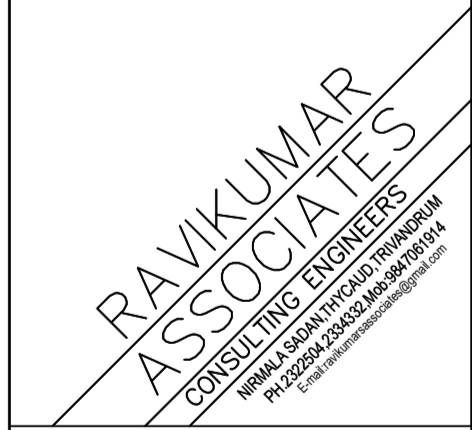
Grade Beams detail -
(longitudnal beams)

DRAWING NUMBER

SD 09

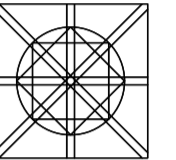
STRUCTURAL ENGINEER

consultant RAVIKUMAR



PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date
1	Center line corrected	24-6-25

StructuralDrawings

First floor

Framing plan
Sub beam detail

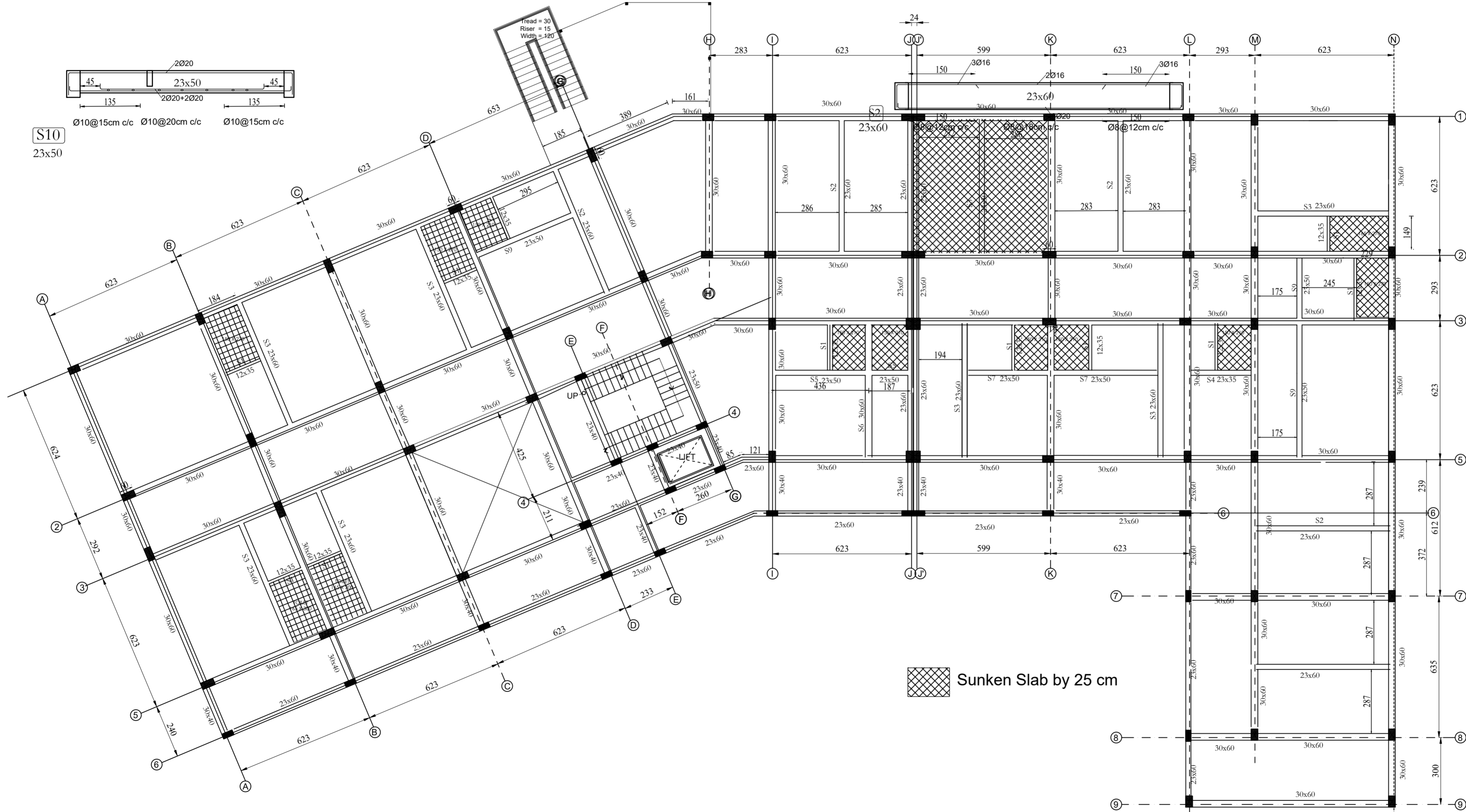
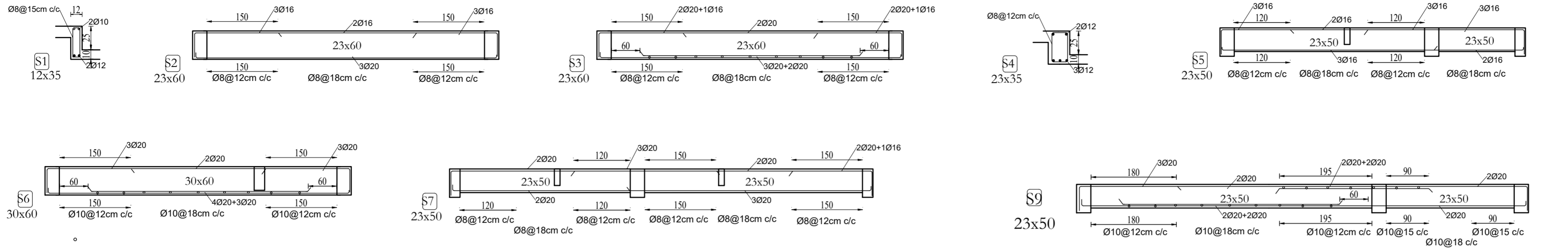
DRAWING NUMBER

SD 10

STRUCTURAL ENGINEER

consultant RAVIKUMAR

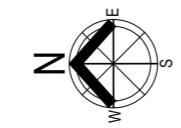
RAVIKUMAR ASSOCIATES
CONSULTING ENGINEERS
M. RAJESH, M. SUDAN, P. VINAYAK PRASAD
PH: 220220, 220232, 220234
Email: ravisudhakar@gmail.com



Sunken Slab by 25 cm

NOTE:
1. The Beam size written includes the thickness of the slab also
2. For thickness of slab refer sheet SD-13

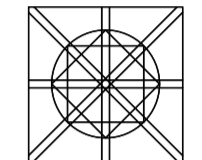
KEY PLAN - FIRST FLOOR
FIRST FLOOR FRAMING PLAN



KCA-THODUPUZHA
Accademic Block

PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

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ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date

StructuralDrawings

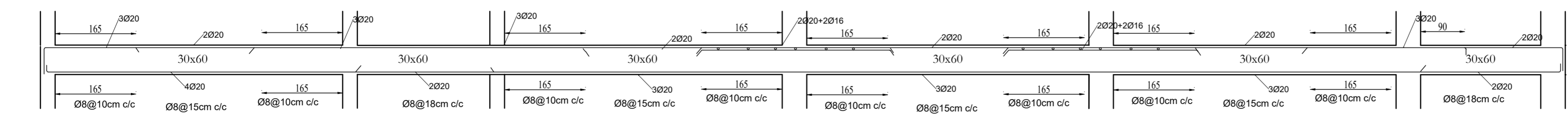
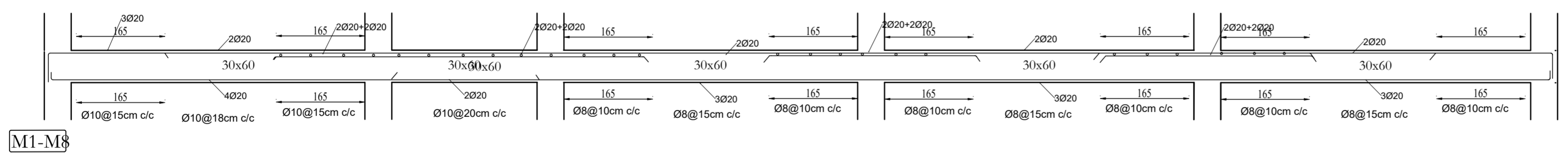
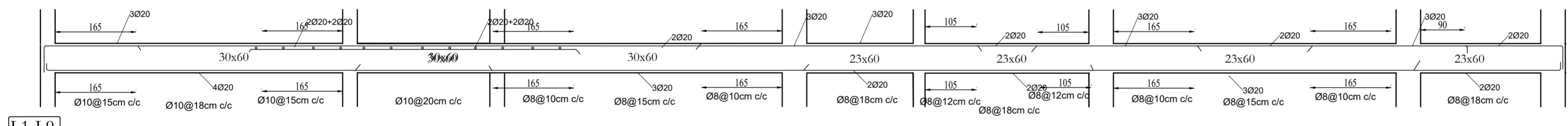
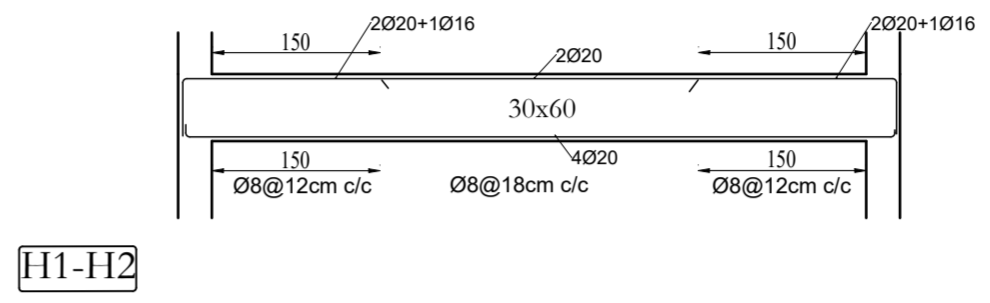
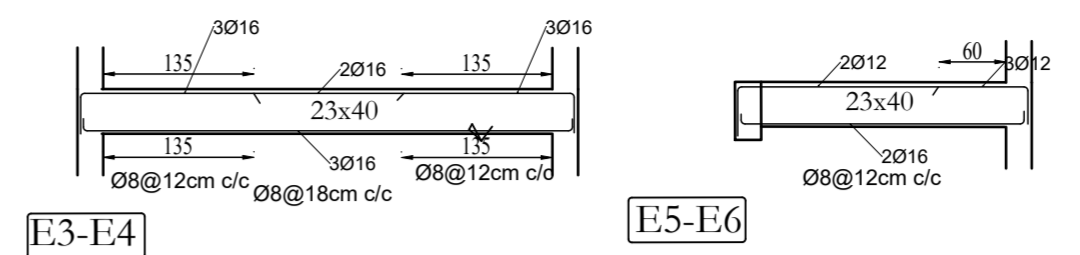
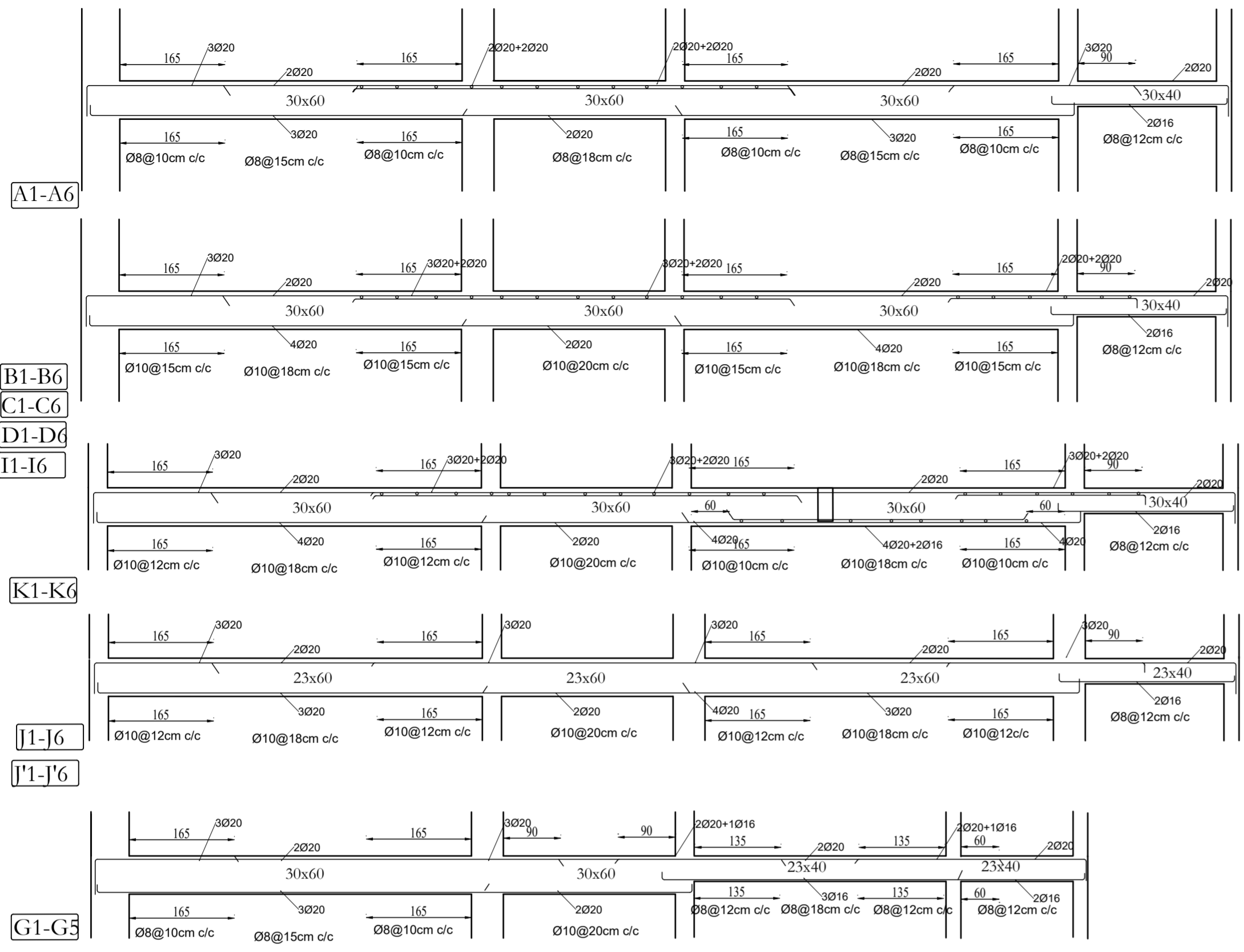
First floor
Cross Beams

DRAWING NUMBER

SD	11
----	----

STRUCTURAL ENGINEER

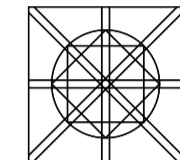
consultant RAVIKUMAR



KCA-THODUPUZHA
Accademic Block

PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date

StructuralDrawings

First floor
longitudnal Beams

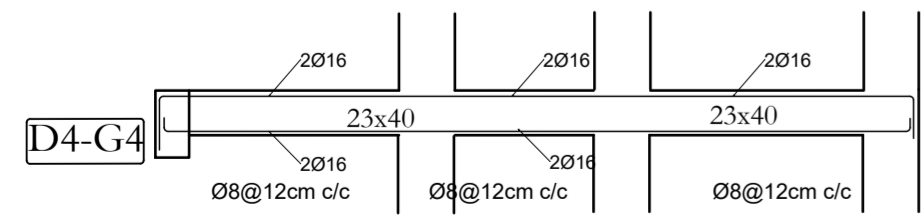
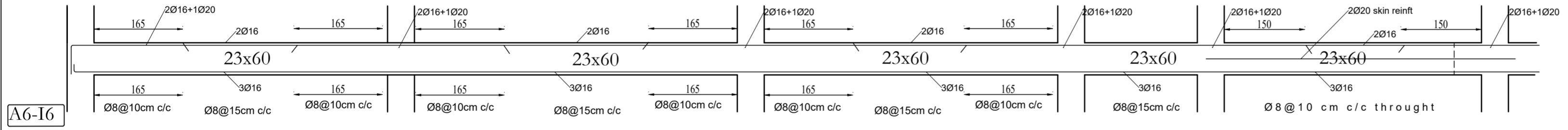
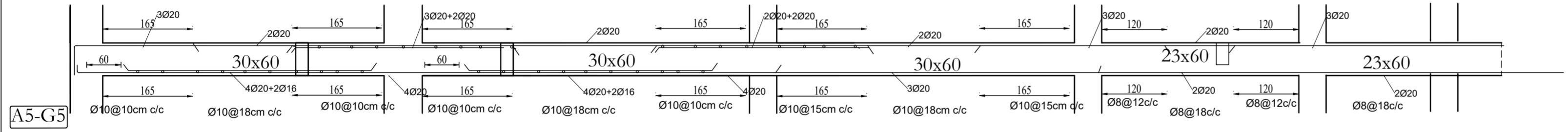
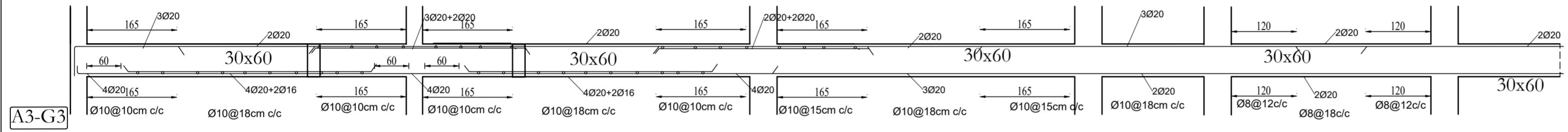
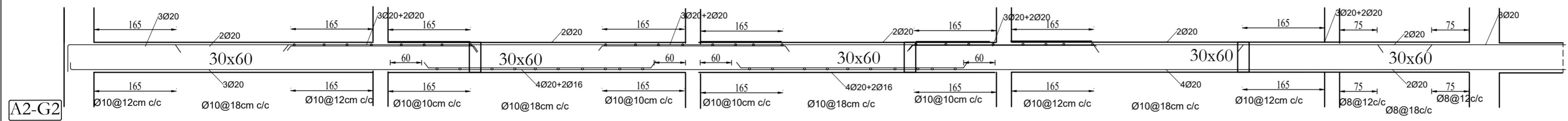
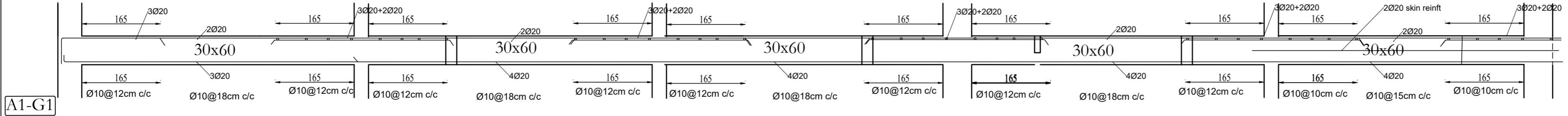
DRAWING NUMBER

SD	12
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STRUCTURAL ENGINEER

consultant	RAVIKUMAR
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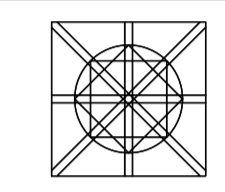
4



NOTE:
 1. The Beam size written includes the thickness of the slab also
 2. For thickness of slab refer sheet SD-13

PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

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ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date

StructuralDrawings

First floor

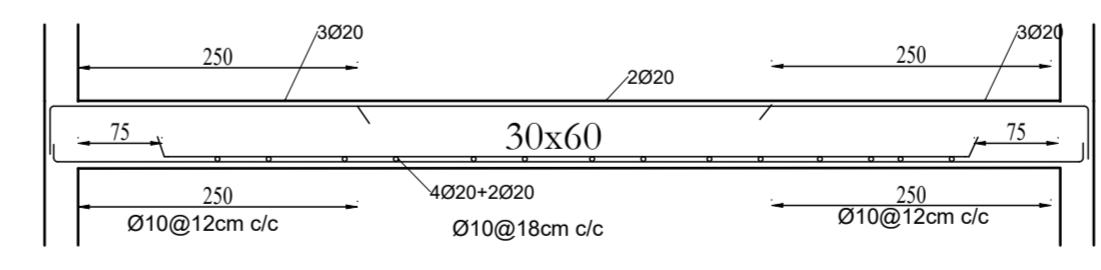
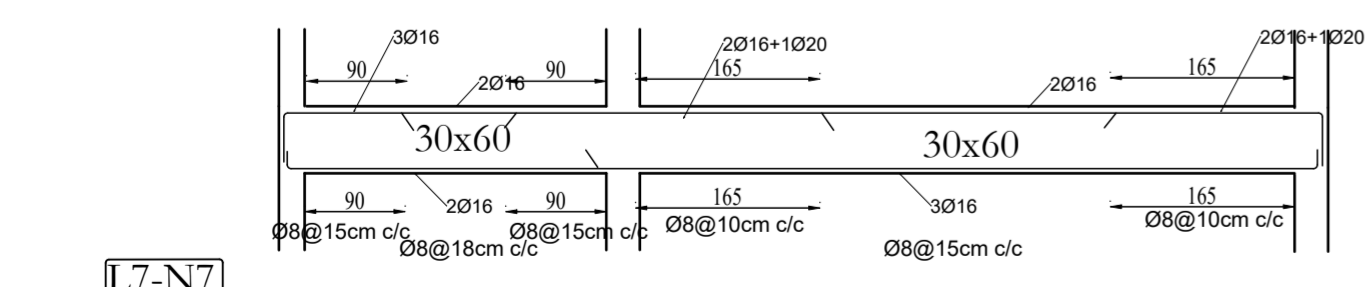
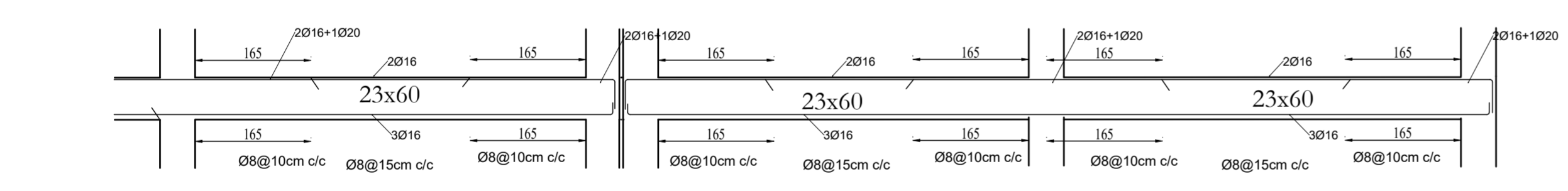
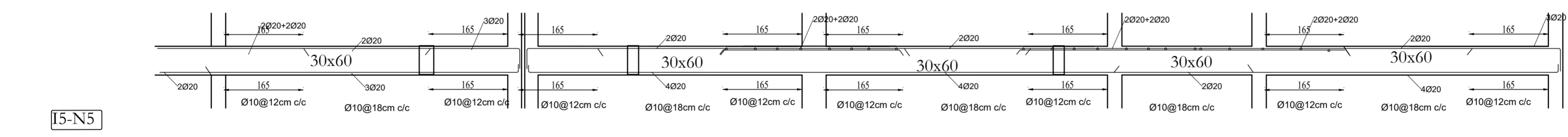
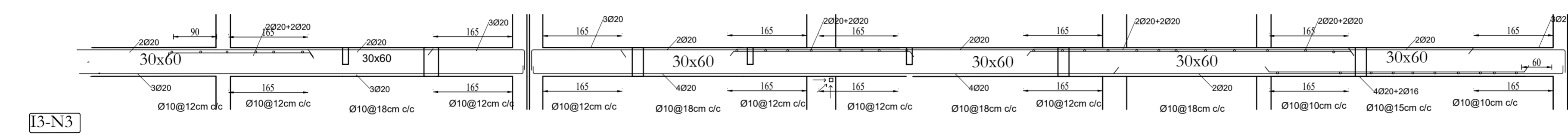
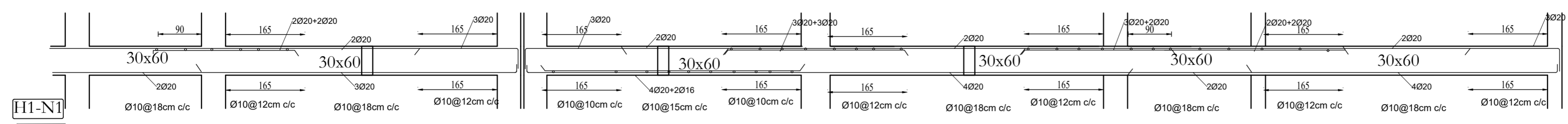
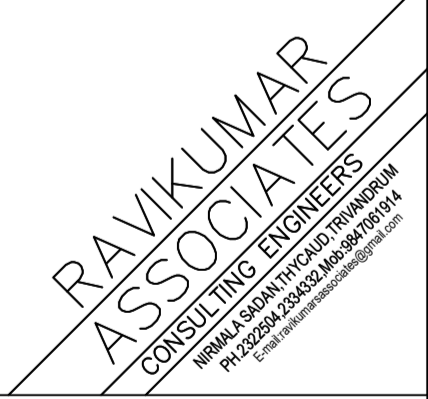
Longitudnal Beams II

DRAWING NUMBER

SD	13
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STRUCTURAL ENGINEER

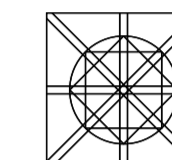
consultant	RAVIKUMAR
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NOTE:
1. The Beam size written includes the thickness of the slab also
2. For thickness of slab refer sheet SD-13

PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

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ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date
1	Center line corrected	24-6-25

StructuralDrawings

First floor
SLAB DETAIL

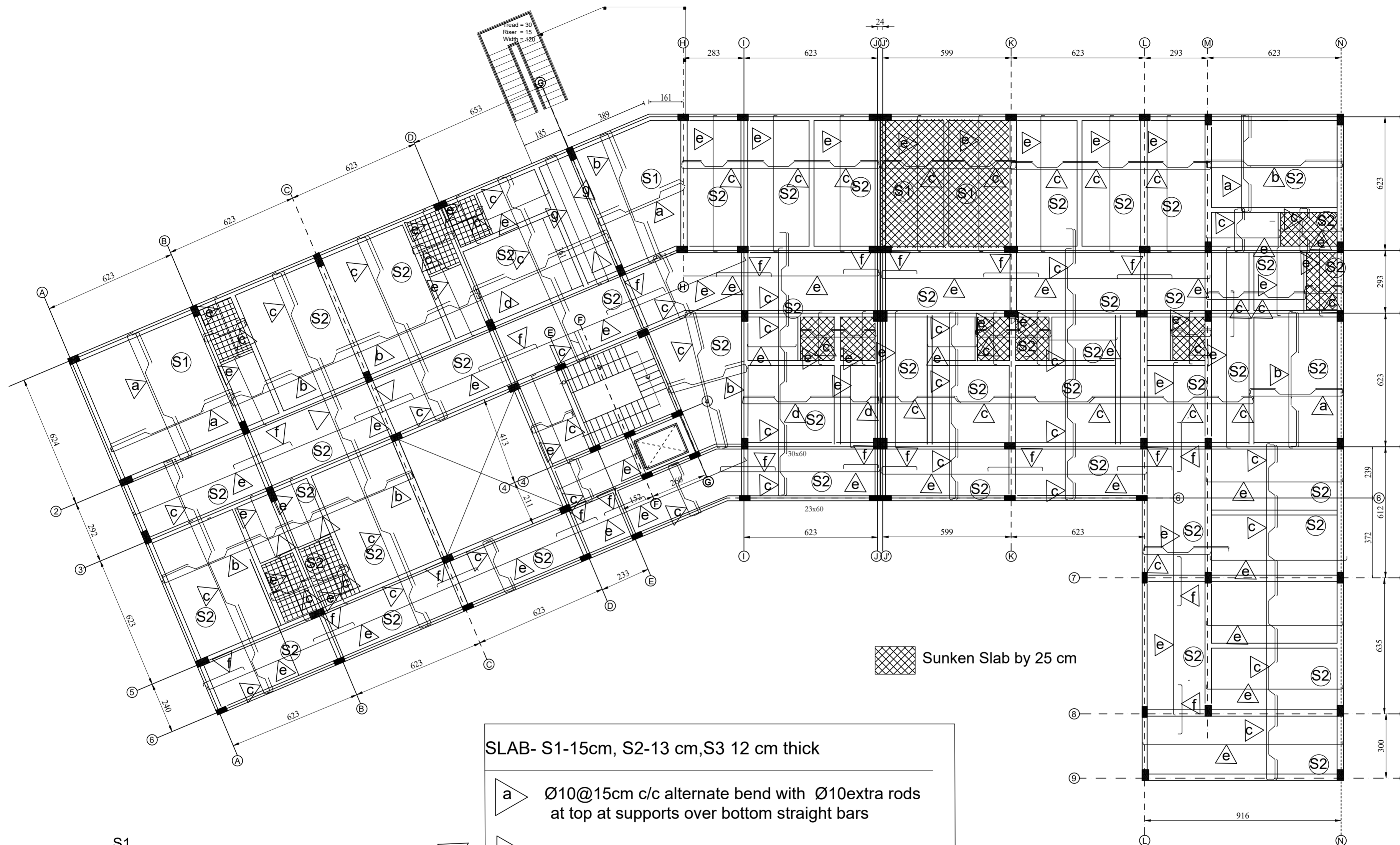
DRAWING NUMBER

SD 14

STRUCTURAL ENGINEER

consultant RAVIKUMAR

RAVIKUMAR ASSOCIATES
CONSULTING ENGINEERS
WOMEN'S EMPOWERMENT TRAINING
PH: 220204, 230432, 240432, 240432
E: ravis@ravikumarasociates.com

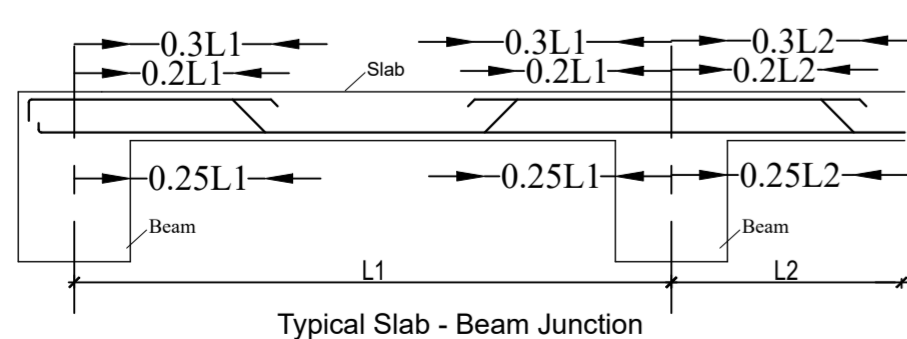


Sunken Slab by 25 cm

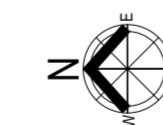
SLAB- S1-15cm, S2-13 cm,S3 12 cm thick

- a $\varnothing 10@15\text{cm c/c}$ alternate bend with $\varnothing 10$ extra rods at top at supports over bottom straight bars
- b $\varnothing 10@18\text{cm c/c}$ do do
- c $\varnothing 8@15\text{cm c/c}$ do do with $\varnothing 8$ extra rods
- d $\varnothing 8@ 18 \text{ cm c/c}$ do do
- e $\varnothing 8@18 \text{ cm c/c}$ one layer at center between bends and. $\varnothing 8 @25\text{cm c/c}$ two layer at bends
- f $\varnothing 8@ 15 \text{ cm c/c}$ at top extra rods\
- g $\varnothing 8@18\text{cm c/c}$ distributor

S1



Typical Slab - Beam Junction

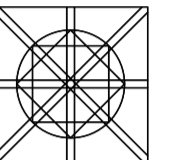


KEY PLAN - FIRST FLOOR

FIRST FLOOR SALB DETAIL

PROJECT NO. :
DATE : 05-3-25
SCALE : NTS
DIMS : CMS
DESIGNED BY : NOBLE
CHECKED BY : RAVIKUMAR

W



ISSUED TO

No.	Name	Date

REVISIONS

No.	Description	Date

StructuralDrawings

STAIRCASE

Landing beams

DRAWING NUMBER

SD 15

STRUCTURAL ENGINEER

consultant RAVIKUMAR

RAVIKUMAR ASSOCIATES
CONSULTING ENGINEERS
M.M.M.A.S. ROAD, THYKALP, TRAVANCORUM
PIN-222204, TEL: 239432, MOBILE: 9847191014
E-mail: ravis@ravikumaras.com

