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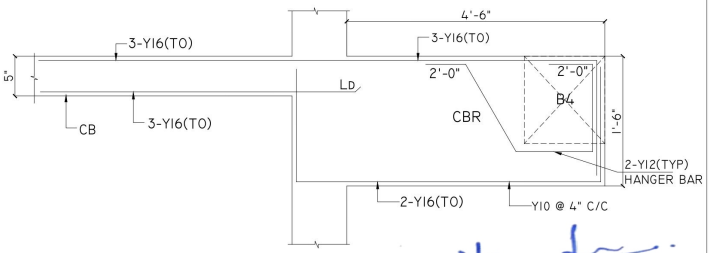


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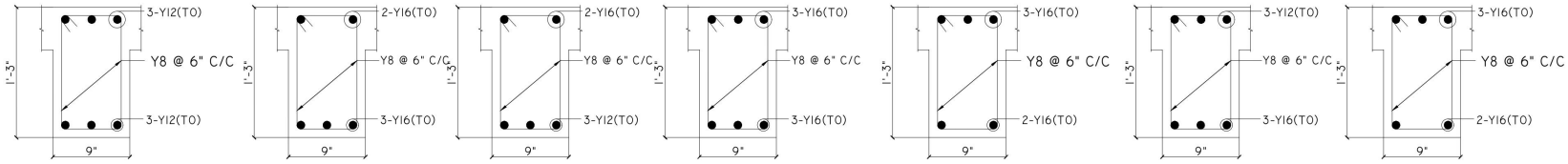
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NAME	MID SPAN	END SUPPORT
B7 (0'-9" X 2'-0")	3-Y20(TO); Y10 @ 7" C/C; 2'-0"; 3-Y20(TO)+ 3-Y20(EXT); 9"	3-Y20(TO); Y10 @ 4" C/C; 2'-0"; 3-Y20(TO); 9"
B5 (0'-9" X 1'-6")	2-Y16(TO); Y8 @ 7" C/C; 1'-6"; 2-Y16(TO)+ 2-Y16(EXT); 9"	2-Y16(TO)+ 2-Y16(EXT); Y8 @ 4" C/C; 1'-6"; 2-Y16(TO); 9"

NAME	MID SPAN	END SUPPORT
B6 (0'-9" X 1'-6")	3-Y20(TO); Y8 @ 5" C/C; 1'-6"; 3-Y20(TO); 9"	3-Y20(TO)+ 2-Y20(EXT); Y8 @ 4" C/C; 1'-6"; 3-Y20(TO); 9"
B7 (0'-9" X 2'-0")	3-Y25(TO); Y10 @ 7" C/C; 2'-0"; 3-Y25(TO)+ 3-Y25(EXT); 9"	3-Y25(TO)+ 3-Y25(EXT); Y10 @ 4" C/C; 2'-0"; 3-Y25(TO); 9"



SECTION "2-2"



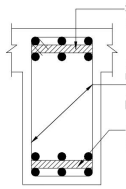
C.S. OF BEAM "B1" (0'-9" X 1'-3")
C.S. OF BEAM "B2" (0'-9" X 1'-3")
C.S. OF BEAM "B3" (0'-9" X 1'-3")
C.S. OF BEAM "B4" (0'-9" X 1'-3")
C.S. OF BEAM "B8" (0'-9" X 1'-3")
C.S. OF BEAM "B9" (0'-9" X 1'-3")
C.S. OF BEAM "CBR" (0'-9" X 1'-3")

R. MANIKANDAN, M.Tech.,(Structures)
Registered Structural Engineer Grade I
SE/GR-I/19/06/154 (CMDA), RSE 100692019 (GCC)
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

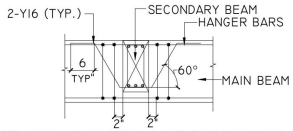
GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

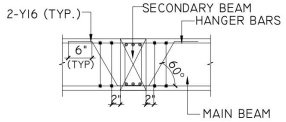
BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-3"
02	B2	0'-9" x 1'-3"
03	B3	0'-9" x 1'-3"
04	B4	0'-9" x 1'-3"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-9" x 2'-0"
08	B8	0'-9" x 1'-3"
09	B9	0'-9" x 1'-3"
010	CBR	0'-9" x 1'-6"



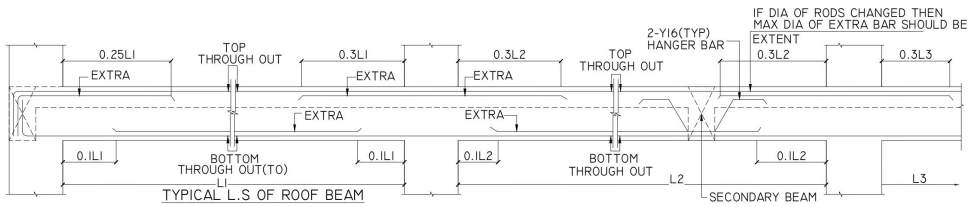
TYP. DETAIL



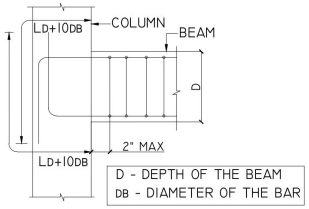
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)



TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION

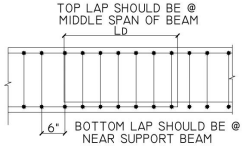


TYPICAL L.S OF ROOF BEAM



D - DEPTH OF THE BEAM
DB - DIAMETER OF THE BAR

TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION



TYP. LAP SPLICE IN BEAM

REV	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

R.C DETAILS OF TERRACE FLOOR BEAM

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	009

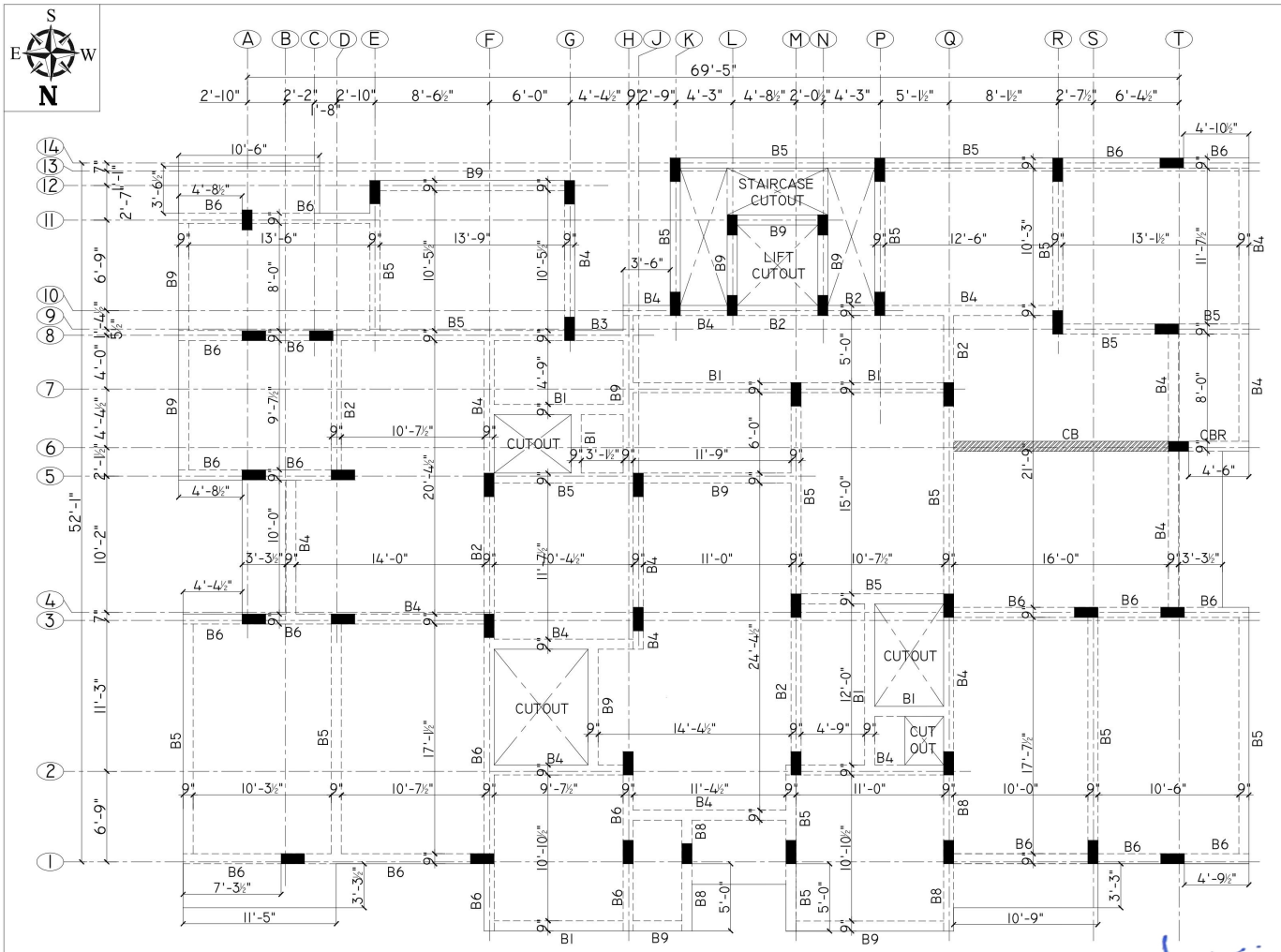
ARCHITECT / CONSULTANTS :-

STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
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LAYOUT OF TERRACE FLOOR BEAM & SLAB

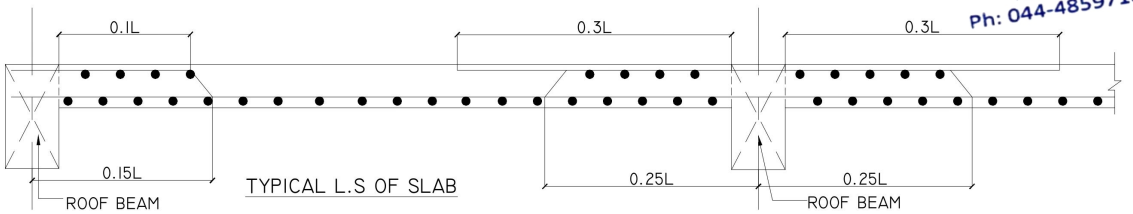
NOTE:

PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

NOTE:

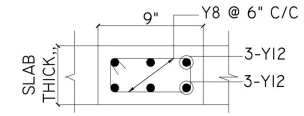
FOR SLAB REINFORCEMENT DETAILS REFER DWG.NO : 008

FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 009



TYPICAL L.S OF SLAB

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" X 1'-3"
02	B2	0'-9" X 1'-3"
03	B3	0'-9" X 1'-3"
04	B4	0'-9" X 1'-3"
05	B5	0'-9" X 1'-6"
06	B6	0'-9" X 1'-6"
07	B7	0'-9" X 2'-0"
08	B8	0'-9" X 1'-3"
09	B9	0'-9" X 1'-3"
010	CBR	0'-9" X 1'-6"



C.S OF CONCEALED BEAM-"CB"

("0'-9" X "SLAB THICKNESS")

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ----------7 DAYS.
ii) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ----------14 DAYS.
ii) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). AT ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

LAYOUT OF TERRACE FLOOR SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	007

ARCHITECT / CONSULTANTS :-

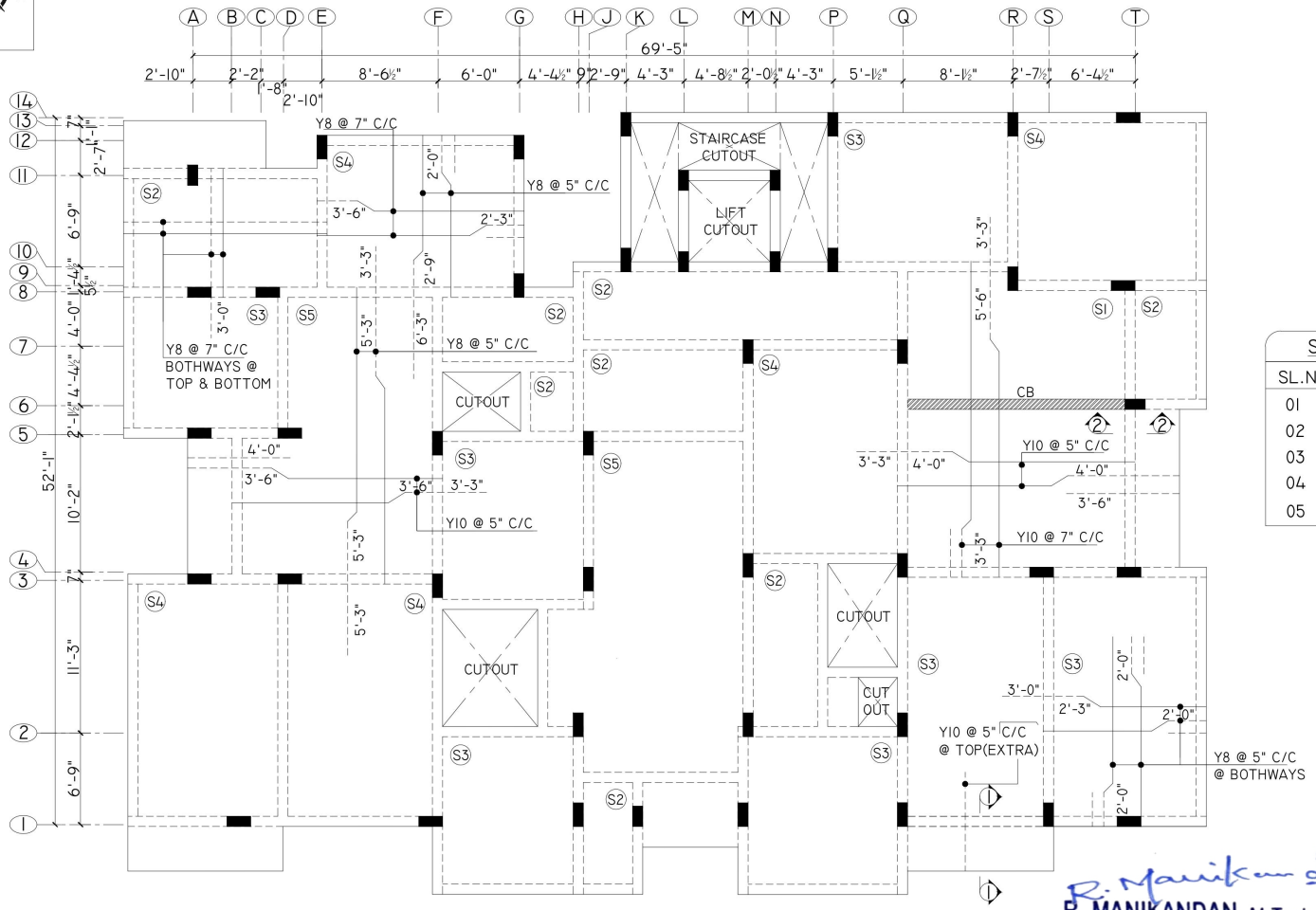
STRUCTURAL CONSULTANTS :-

R. MANIKANDAN, M.Tech.,(Structures)
Registered Structural Engineer Grade I
SE/GR-I/19/06/154 (CMDA), RSE 100692019 (GCC)
AURA ENGINEERING CONSULTANTS
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projects.auraengg@gmail.com
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Engineeering Consultants

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R.C LAYOUT OF TERRACE FLOOR BEAM & SLAB

SLAB SCHEDULE		
SL.NO	NAME	THICK
01	S1	6" THK.
02	S2	5" THK.
03	S3	5" THK.
04	S4	5" THK.
05	S5	5" THK.

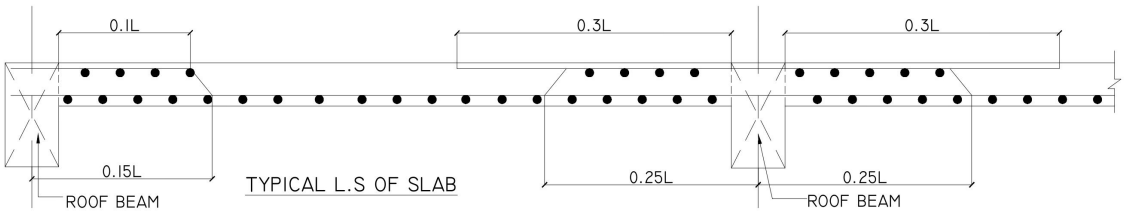
NOTE:

PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

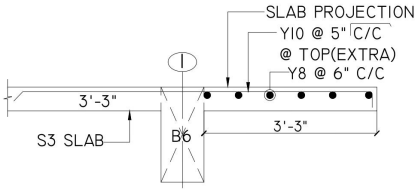
NOTE:

FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 009

FOR SECTION "3-3" DETAILS REFER DWG.NO : 009



TYPICAL L.S OF SLAB



SECTION "1-1"

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ----------7 DAYS.
ii) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ----------14 DAYS.
ii) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

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II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

LAYOUT AND R.C DETAILS OF TERRACE FLOOR SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	008

ARCHITECT / CONSULTANTS :-

STRUCTURAL CONSULTANTS :-

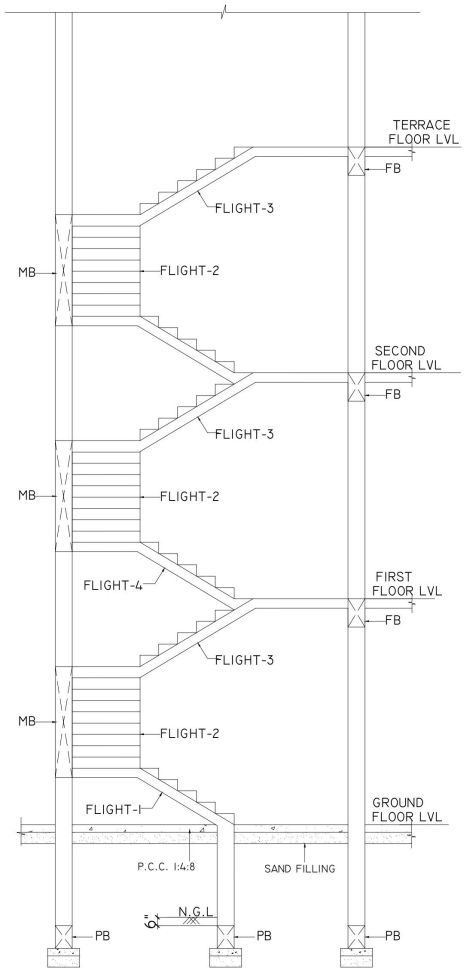
R. MANIKANDAN, M.Tech,(Structures)
Registered Structural Engineer Grade I
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aura Engineeering Consultants

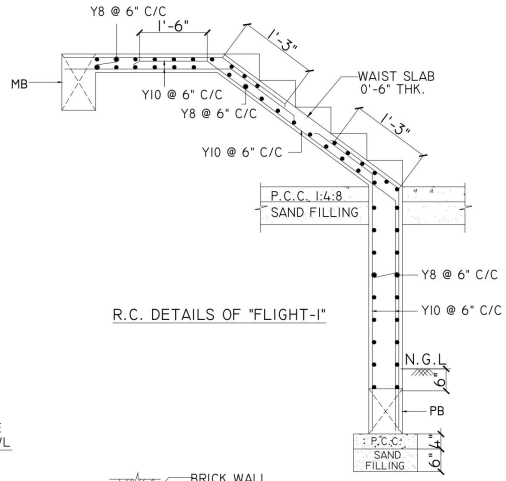
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SECTION "X-X"

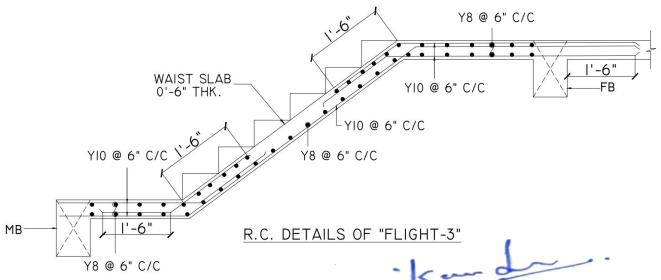


R.C. DETAILS OF "FLIGHT-I"

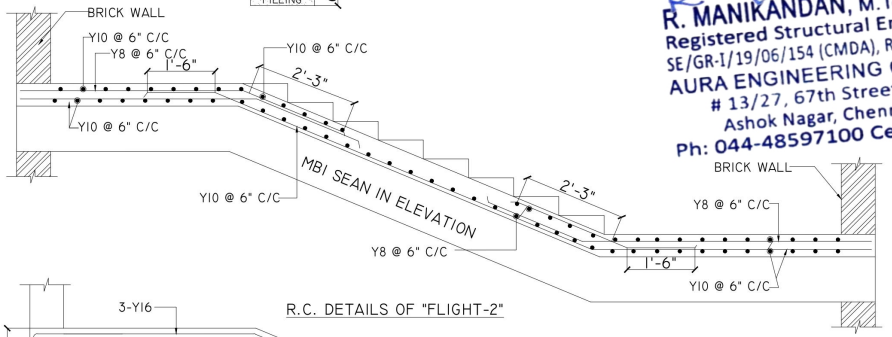
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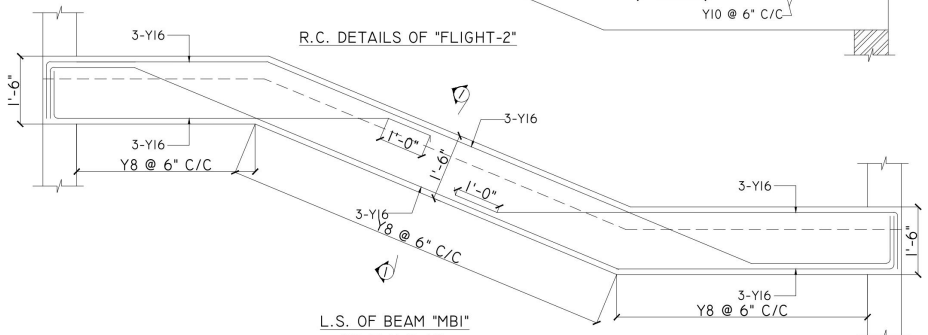
PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

FOR CLEAR DIMENSIONS LEVELS REFER ARCHI DRG.

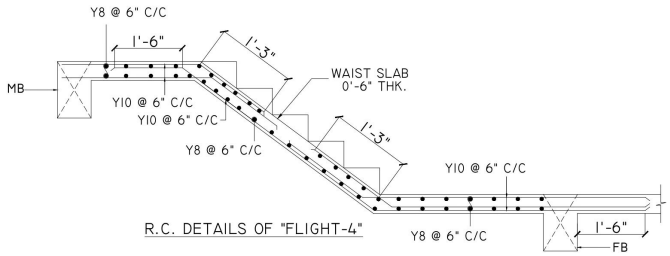


R.C. DETAILS OF "FLIGHT-3"

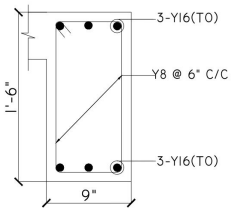




L.S. OF BEAM "MBI"
(0'-9" X 1'-6")



R.C. DETAILS OF "FLIGHT-4"



SECTION"I-I"
(0'-9" X 1'-6")

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   a) BEAM = 1" b) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
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R. Manikandan

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13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	M.R	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

R.C DETAILS OF STAIRCASE

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 12'	---------	010

ARCHITECT / CONSULTANTS :-

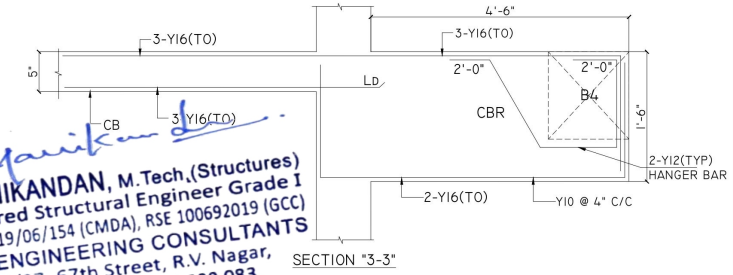
AURA ENGINEERING CONSULTANTS
NO:13/27, 66th STREET
R.V NAGAR, ASHOK NAGAR,CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
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Engineeering Consultants

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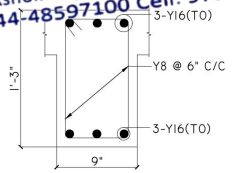
NAME	MID SPAN	END SUPPORT
B1 (0'-9" X 2'-0")	3-Y25(TO), Y10 @ 7" C/C, 3-Y25(TO), 2'-0", 9"	3-Y25(TO)+ 3-Y25(EXT), Y10 @ 4" C/C, 3-Y25(TO), 2'-0", 9"
B2 (0'-9" X 2'-0")	3-Y20(TO), Y10 @ 7" C/C, 3-Y20(TO), 2'-0", 9"	3-Y20(TO)+ 3-Y25(EXT), Y10 @ 4" C/C, 3-Y20(TO), 2'-0", 9"
B3 (0'-9" X 1'-6")	2-Y20(TO), Y10 @ 7" C/C, 2-Y16(TO)+ 2-Y16(EXT), 1'-6", 9"	2-Y20(TO), Y10 @ 4" C/C, 2-Y16(TO), 1'-6", 9"
B5 (0'-9" X 1'-6")	2-Y16(TO), Y8 @ 7" C/C, 2-Y16(TO)+ 2-Y16(EXT), 1'-6", 9"	2-Y16(TO)+ 2-Y16(EXT), Y8 @ 4" C/C, 2-Y16(TO), 1'-6", 9"

NAME	MID SPAN	END SUPPORT
B6 (0'-9" X 1'-6")	3-Y20(TO), Y8 @ 5" C/C, 3-Y20(TO), 1'-6", 9"	3-Y20(TO)+ 2-Y20(EXT), Y8 @ 4" C/C, 3-Y20(TO), 1'-6", 9"
B7 (0'-9" X 2'-0")	3-Y25(TO), Y10 @ 7" C/C, 3-Y25(TO)+ 3-Y25(EXT), 2'-0", 9"	3-Y25(TO)+ 3-Y25(EXT), Y10 @ 4" C/C, 3-Y25(TO), 2'-0", 9"
B8 (0'-9" X 2'-0")	3-Y25(TO), Y10 @ 7" C/C, 3-Y25(TO)+ 3-Y25(EXT), 2'-0", 9"	3-Y25(TO)+ 3-Y20(EXT), Y10 @ 4" C/C, 3-Y25(TO), 2'-0", 9"
B11 (0'-9" X 1'-3")	2-Y20(TO), Y8 @ 7" C/C, 2-Y16(TO)+ 1-Y16(EXT), 1'-3", 9"	2-Y20(TO), Y8 @ 4" C/C, 2-Y16(TO), 1'-3", 9"

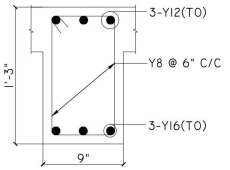


SECTION "3-3"

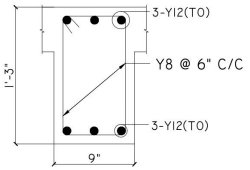
R. MANIKANDAN, M.Tech.,(Structures)
Registered Structural Engineer Grade I
SE/GR-I/19/06/154 (CMDA), RSE 100692019 (GCC)
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378



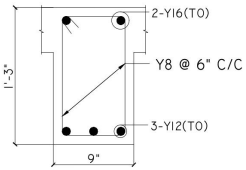
C.S. OF BEAM "B4"
(0'-9" X 1'-3")



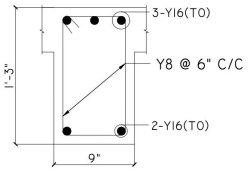
C.S. OF BEAM "B9"
(0'-9" X 1'-3")



C.S. OF BEAM "B10"
(0'-9" X 1'-3")



C.S. OF BEAM "B12"
(0'-9" X 1'-3")



C.S. OF BEAM "CBR"
(0'-9" X 1'-3")

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

R.C DETAILS OF TYPICAL FLOOR ROOF BEAM

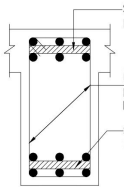
DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	006

ARCHITECT / CONSULTANTS :-

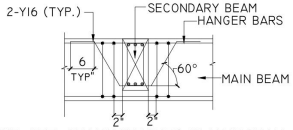
STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineeering Consultants

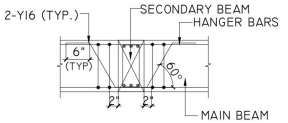
A3



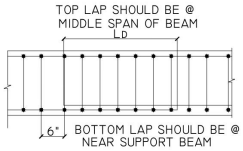
TYP. DETAIL



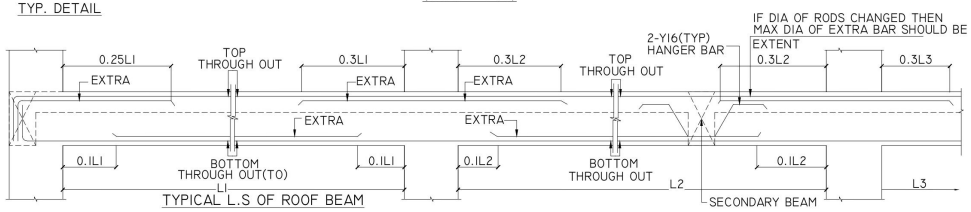
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)



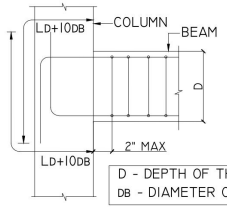
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION



TYP. LAP SPLICE IN BEAM



TYPICAL L.S OF ROOF BEAM



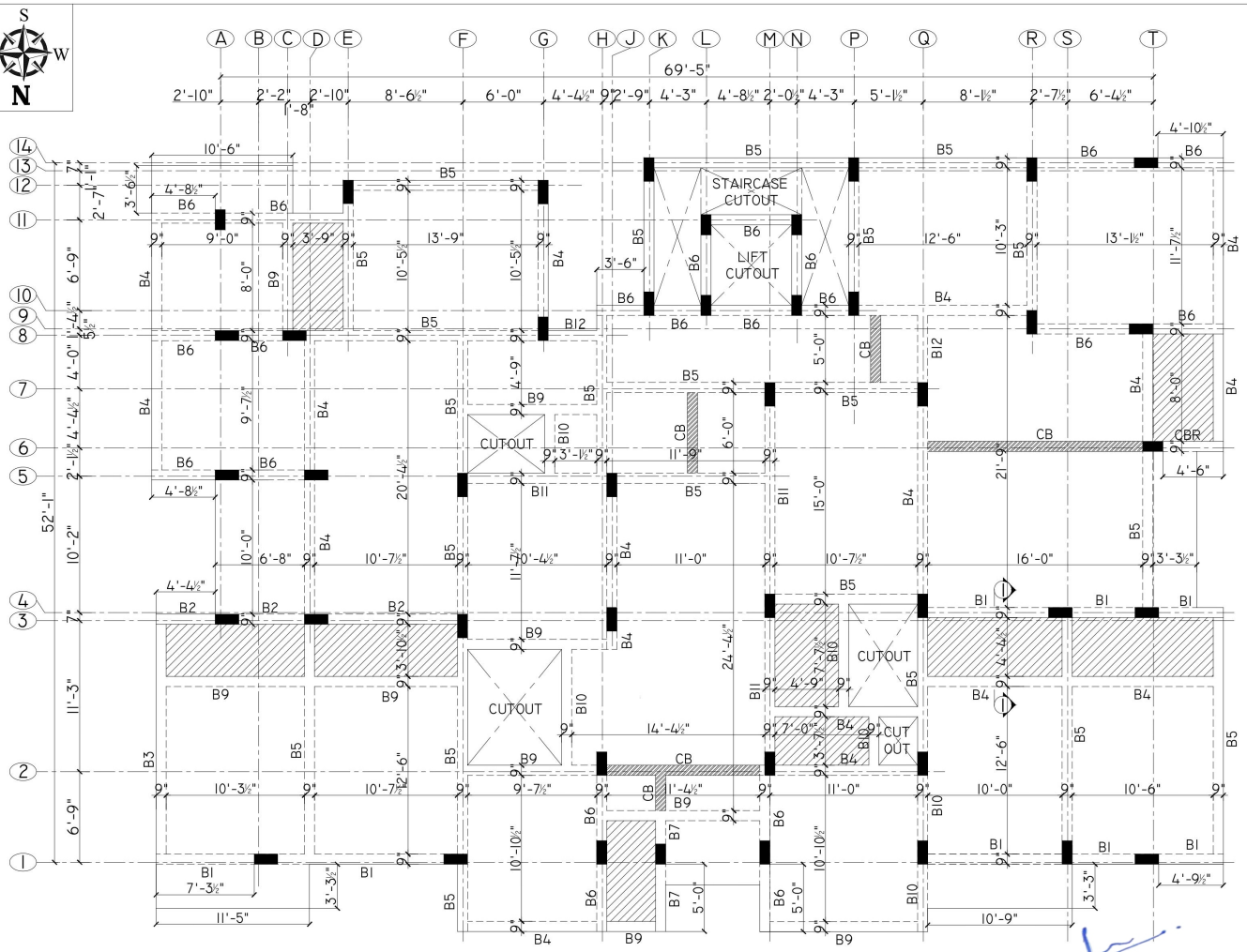
D - DEPTH OF THE BEAM
DB - DIAMETER OF THE BAR

TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION

BEAM SCHEDULE

SL.NO	NAME	SIZE
01	B1	0'-9" X 2'-0"
02	B2	0'-9" X 2'-0"
03	B3	0'-9" X 1'-6"
04	B4	0'-9" X 1'-3"
05	B5	0'-9" X 1'-6"
06	B6	0'-9" X 1'-6"
07	B7	0'-9" X 2'-0"
08	B8	0'-9" X 2'-0"
09	B9	0'-9" X 1'-3"
010	B10	0'-9" X 1'-3"
011	B11	0'-9" X 1'-3"
012	B12	0'-9" X 1'-3"
013	CBR	0'-9" X 1'-6"

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LAYOUT OF TYPICAL FLOOR ROOF BEAM & SLAB

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" x 2'-0"
02	B2	0'-9" x 2'-0"
03	B3	0'-9" x 1'-6"
04	B4	0'-9" x 1'-3"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-9" x 2'-0"
08	B8	0'-9" x 2'-0"
09	B9	0'-9" x 1'-3"
010	B10	0'-9" x 1'-3"
011	B11	0'-9" x 1'-3"
012	B12	0'-9" x 1'-3"
013	CBR	0'-9" x 1'-6"

NOTE:

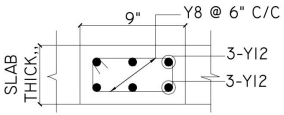
SLAB SUNK BY 0'-10"

PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

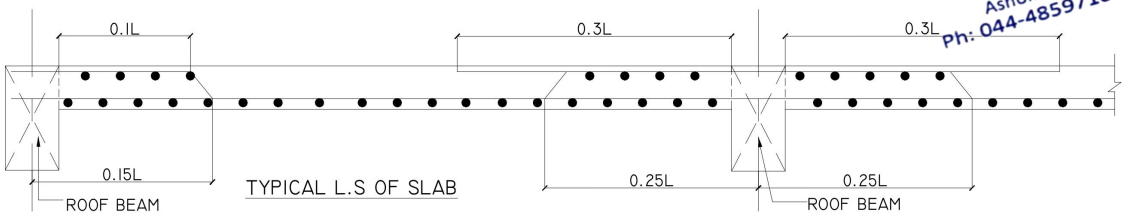
NOTE:

FOR SLAB REINFORCEMENT DETAILS REFER DWG.NO : 005

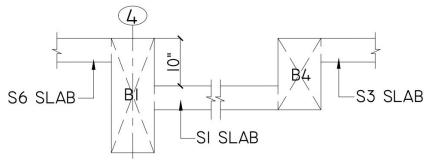
FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 006



C.S OF CONCEALED BEAM-"CB" (0'-9" X "SLAB THICKNESS")



TYPICAL L.S OF SLAB



SECTION "1-1"

R. MANIKANDAN, M.Tech.,(Structures)
Registered Structural Engineer Grade I
SE/GR-1/19/06/154 (CMDA), RSE 100692019 (GCC)
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
I) SPANNING UP TO 4.50M ----------7 DAYS.
II) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
I) SPANNING UP TO 6.00M ----------14 DAYS.
II) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). AT ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

LAYOUT OF TYPICAL FLOOR ROOF SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	004

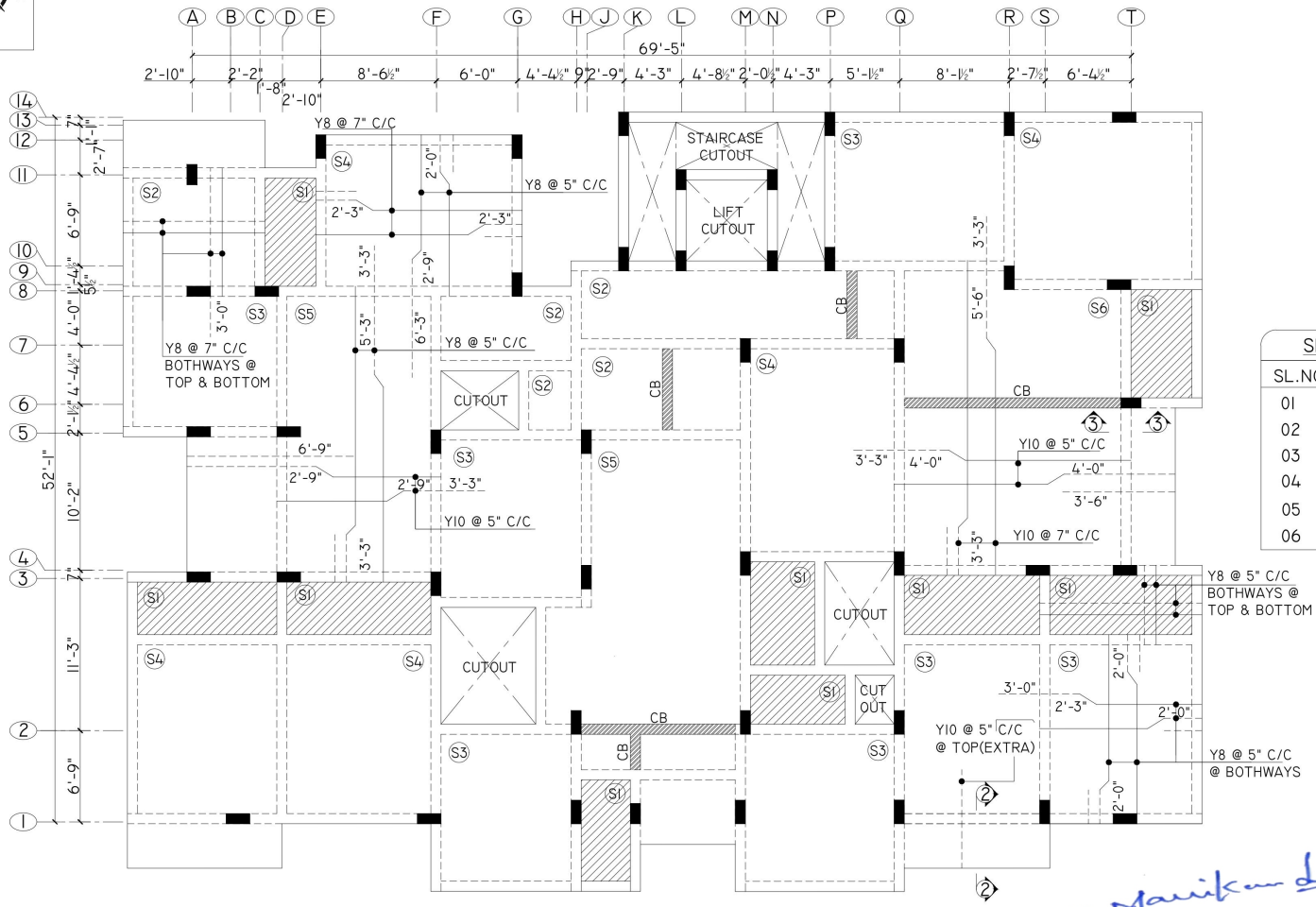
ARCHITECT / CONSULTANTS :-

STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
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aura Engineeering Consultants

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R.C LAYOUT OF TYPICAL FLOOR ROOF BEAM & SLAB

SLAB SCHEDULE		
SL.NO	NAME	THICK
01	S1	5" THK.
02	S2	5" THK.
03	S3	5" THK.
04	S4	5" THK.
05	S5	5" THK.
06	S6	6" THK.

NOTE:

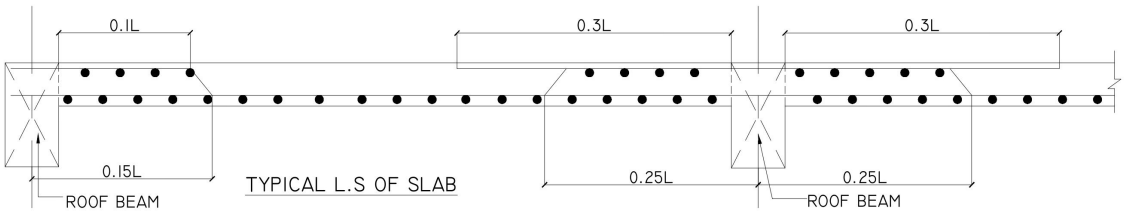
SLAB SUNK BY 0'-10"

PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

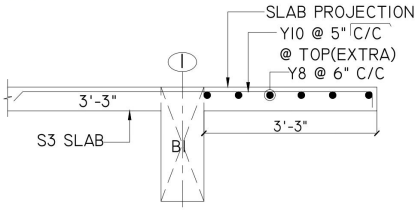
NOTE:

FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 006

FOR SECTION "3-3" DETAILS REFER DWG.NO : 006



TYPICAL L.S OF SLAB



SECTION "2-2"

R. MANIKANDAN, M.Tech.,(Structures)
Registered Structural Engineer Grade I
SE/GR-I/19/06/154 (CMDA), RSE 100692019 (GCC)
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
i) SPANNING UP TO 4.50M ----------7 DAYS.
ii) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
i) SPANNING UP TO 6.00M ----------14 DAYS.
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LAP JOINTS FOR REINFORCEMENT BARS:

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II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR CONSTRUCTION	R.S	R.M	27.01.24

PROJECT :-

THE PROPOSED RESIDENTIAL BUILDING

DRAWING TITLE :-

LAYOUT AND R.C DETAILS OF TYPICAL FLOOR ROOF SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
27.01.24	1" : 9'	------	005

ARCHITECT / CONSULTANTS :-

STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
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A3

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Legal & Documentation Services

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Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.

Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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3/350/2 Mettukuppam,
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hello@verified.realestate
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