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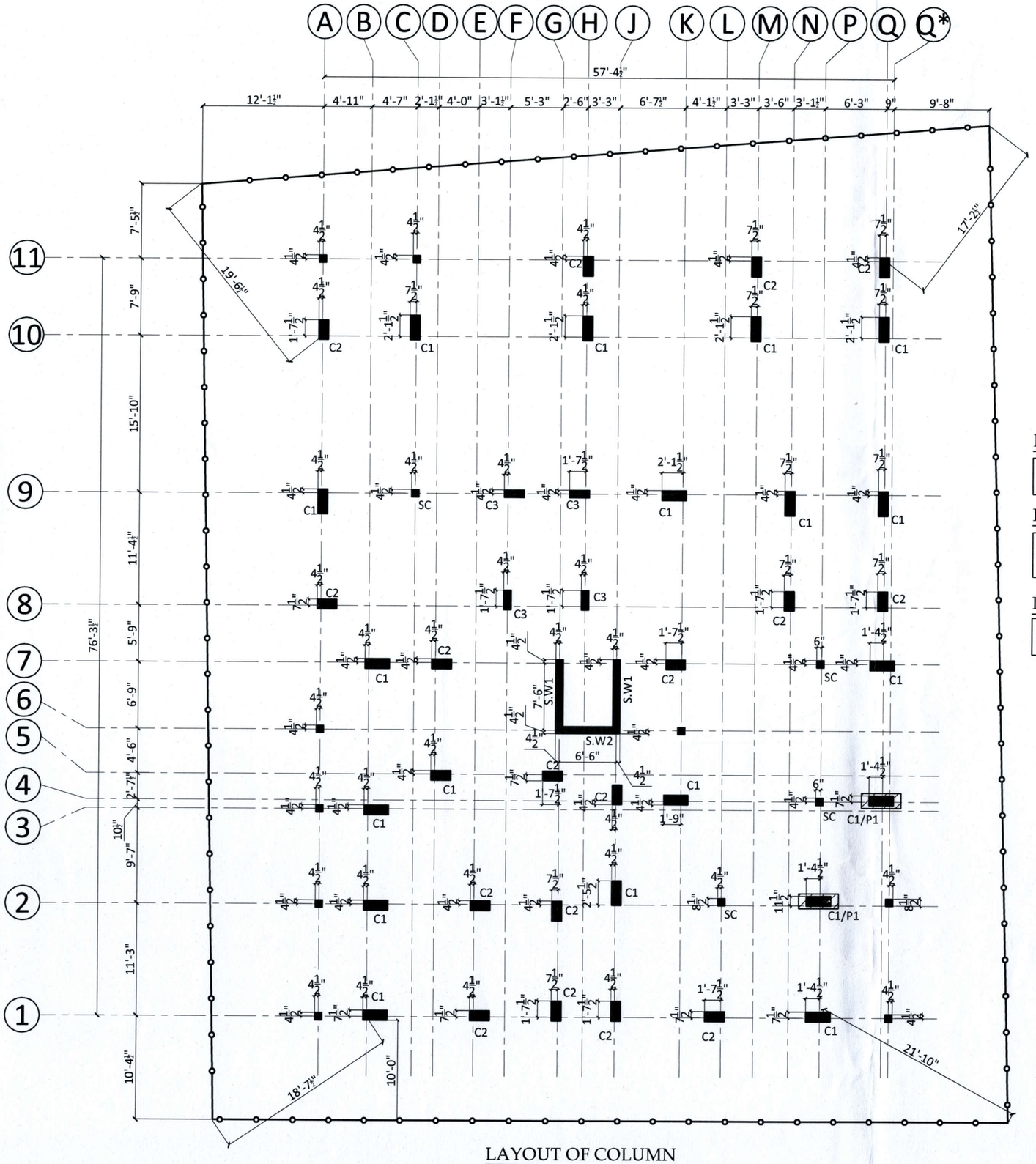
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996

Official Property Record

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LAYOUT OF COLUMN

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UPTO STILT FLOOR ROOF)	COLUMN SIZE (STILT FLOOR ROOF TO TOP)	NO'S
01	C1	1'-0" X 2'-6"	0'-9" X 2'-6"	17
02	C2	1'-0" X 2'-0"	0'-9" X 2'-0"	17
03	C3	0'-9" X 2'-0"	0'-9" X 2'-0"	04

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UP TO PLINTH BEAM)	NO'S
01	SC	0'-9" X 0'-9"	12

NOTE:

FOR COLUMN L.S & R.C DETAILS REFER DRWG NO : GS/ST-02

NOTE:

S.W1,S.W2 - SHEAR WALL UPTO TOP

IMPORTANT NOTES :

1 -ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT OF PLAN AT SITE

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

FOR APPROVAL

PEDESTAL SCHEDULE :

SI. NO	PEDESTAL NAME	PEDESTAL SIZE	NO'S
01	P1	1'-6" X 4'-0"	02

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GENERAL NOTES:

REMOVAL OF FORMWORK(SHUTTERING) :

SHUTTERING OF ANY PART OF THE STRUCTURE SHALL NOT BE REMOVED UNTIL THE CONCRETE ATTAINS 70% OF THE SPECIFIED STRENGTH OF CONCRETE. HOWEVER THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1, IS 456:2000

A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS & BEAMS - 24HOURS
B) BOTTOM SHUTTERING OF SLABS (KEEPING THE PROPS) - 3 DAYS
C) BOTTOM SHUTTERING OF BEAMS (KEEPING THE PROPS) - 7 DAYS
d) PROPS TO SLABS :
i .SPANNING UPTO 4.5 M - 7 DAYS
i i.SPANNING OVER 4.5 M - 14 DAYS
E) PROPS TO BEAMS & ARCHES :
i .SPANNING UPTO 6 M - 14 DAYS
i i.SPANNING OVER 6 M - 21 DAYS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF1.3 TIMES LAP LENGTH OF THE BAR FOR TENSION & COMPRESSION MEMBERS.
iii) DEVELOPMENT LENGTH (Ld) SHALL BE AS PER (SP:34-1999) TABLE BELOW:

a) DEVELOPMENT LENGTH FOR COLUMN BARS-40D
b) DEVELOPMENT LENGTH FOR BEAM BARS-50D

iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL .
v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .
vi) WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES DIAMETER OF BAR AND A GAP OF 5TIMES HIGHER DIAMETER BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER OBTAINING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL DESIGNER.
Vii) DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920

GENERAL NOTES:

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4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT
   a) R.C. COLUMN = 1.5"
6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
7. COLUMN & FOOTINGS ARE DESIGNED FOR STILT+5 FLOOR LOADS.
8. SBC OF THE SOIL IS TAKEN AS 230KN / SQM. @ 8'-0" BELOW N.G.L. AS PER SOIL REPORT.
9. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
10. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER
11. FOR CONCRETING WATER CEMENT RATIO SHOULD BE (0.45-0.5) (FOR 1BAG CEMENT= MAX-25 LIT OF WATER ONLY TO BE ADDED.)

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	M.G	C.K	22.12.23

PROJECT :
PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :
LAYOUT OF COLUMN

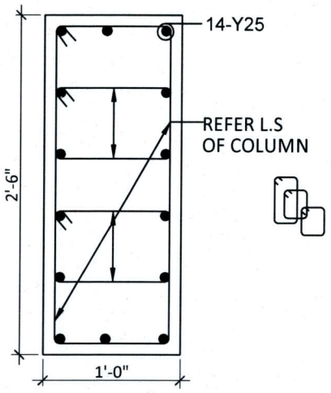
DRG NO : 01
JOB NO : -
SCALE : A3 = 12"
DRN BY : S.S
CHKD BY: C.K
DATE : 22.12.23
DRG NO: GC/ST-01
NORTH:

ARCHITECT/CLIENT :
ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
FLAT PROMOTERS & BUILDERS
Old No. 58/6, New No.6K, Nu Tash Vikash, Jawaharlal Nehru Salai, Ashok Nagar 14 Avenue, Chennai - 600 083.
Phone : 2489 0898, 89400 51129, 8781112935
E-mail : anirudhfoundation05@gmail.com
seevaaassociates@gmail.com
Web : www.anirudhconstruction.com

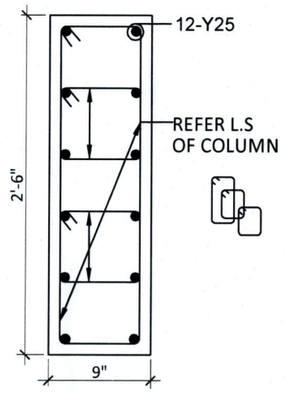
Structural Consultants :
GENUINE CONSULTANTS.,
K.RAJKUMAR - M.Tech
PLOT NO:58,
PALLIKARANAI,
CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9843977835 , 7299977835

A3

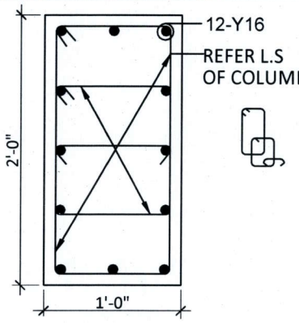
UP TO STILT FLOOR ROOF	FROM STILT FLOOR ROOF TO SECOND FLOOR ROOF



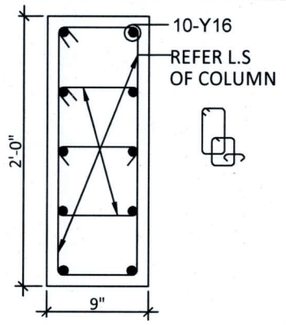
C.S OF COLUMN "C1"
(1'-0" x 2'-6")



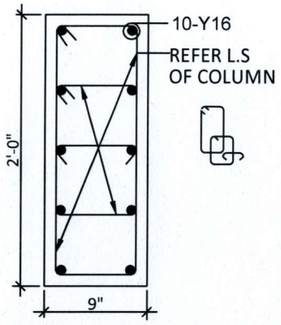
C.S OF COLUMN "C1"
(0'-9" x 2'-6")



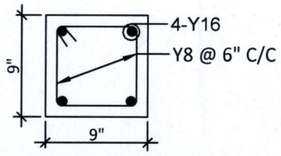
C.S OF COLUMN "C2"
(1'-0" x 2'-0")



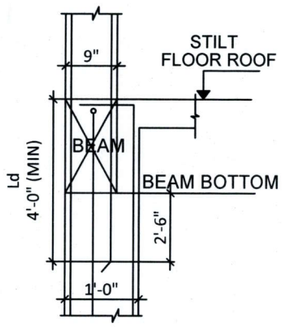
C.S OF COLUMN "C2"
(0'-9" x 2'-0")



C.S OF COLUMN "C3"
(0'-9" x 2'-0")
(UPTO TOP)



C.S OF COLUMN "SC"
(0'-9" x 0'-9")
(12 NOS)



TYP. COLUMN REDUCTION DETAIL
(SIZE REDUCE FROM 1'-0" TO 0'-9")

FOR APPROVAL

NOTE:

WHEREVER LAP SPLICES AND CONFINING TIES ARE NOT REQUIRED, SPACING OF LATERAL TIES SHALL BE Y8 @ 8" C/C.

ALL HOOKS SHOULD BE BENT TO AN ANGLE OF 135° WITH A LENGTH NOT LESS THAN 75 MM

FOR LAYOUT OF COLUMN REFER DRWG.NO:GS/-/ST-01

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UPTO STILT FLOOR ROOF)	COLUMN SIZE (STILT FLOOR ROOF TO TOP)	NO'S
01	C1	1'-0" X 2'-6"	0'-9" X 2'-6"	17
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03	C3	0'-9" X 2'-0"	0'-9" X 2'-0"	04

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UP TO PLINTH BEAM)	NO'S
01	SC	0'-9" X 0'-9"	12

PEDESTAL SCHEDULE :

SI. NO	PEDESTAL NAME	PEDESTAL SIZE	NO'S
01	P1	1'-6" X 4'-0"	02

LEGEND:

N.G.L - NATURAL GROUND LEVEL

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

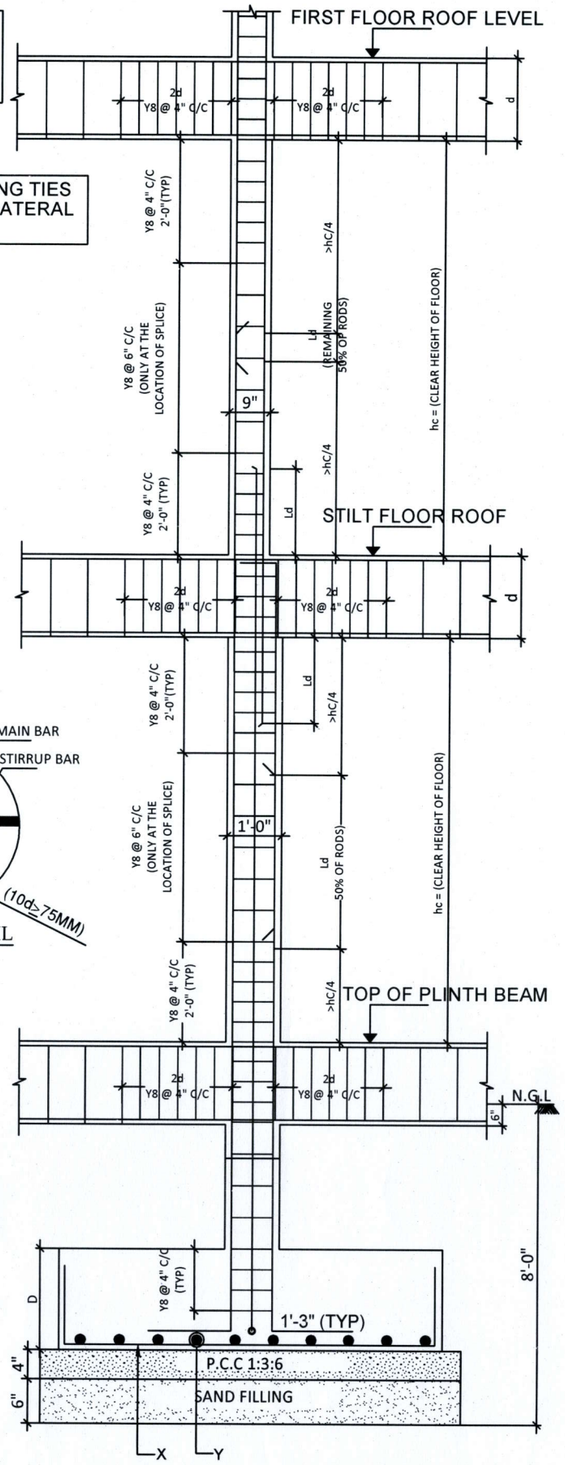
IMPORTANT NOTES :

1 - CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERYFING ALL FABRICATION OF REINFORCEMENT DONE FOR VARIOUS MEMBERS. (via) BEAMS,SLABS,COLUMN,FOOTING,ETC. AND SHOULD BE CHECKED AS PER STRUCTURAL LATEST REVISIONS DRAWINGS BY OUR QUALIFIED CIVIL ENGINEER TO AVOID ANY MISTAKE AT SITE IN FABRICATION OF REINFORCEMENT BAR.(IF SITE VISIT NOT MADE BY US WE ARE NOT RESPONSIBLE FOR THE STRUCTURE)

2 -CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLAB AND BEAMS.CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / /SITE INCHARGE ENGINEER



HOOK DETAIL



COLUMN AND FOOTING JUNCTION
(ALTERNATE RODS TO BE LAPPED IN ALTERNATE FLOORS)

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A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS & BEAMS	- 24HOURS
B) BOTTOM SHUTTERING OF SLABS (KEEPING THE PROPS)	- 3 DAYS
C) BOTTOM SHUTTERING OF BEAMS (KEEPING THE PROPS)	- 7 DAYS
d) PROPS TO SLABS : i .SPANNING UPTO 4.5 M	- 7 DAYS
i i.SPANNING OVER 4.5 M	- 14 DAYS
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6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
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9. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
10. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER
11. FOR CONCRETING WATER CEMENT RATIO SHOULD BE (0.45-0.5) (FOR 1BAG CEMENT= MAX-25 LIT OF WATER ONLY TO BE ADDED.)

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	S.S	C.K	22.12.23

PROJECT :
PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :
L.S & R.C DETAILS OF COLUMN

DRG NO : 02		NORTH:
JOB NO : -		
SCALE : A3 = 10"	DRG NO:	
DRN BY : S.S	GC/ST-02	
CHKD BY: C.K		
DATE : 22.12.23		

ARCHITECT/CLIENT :

ANIRUDH FOUNDATION (P) LTD
&
SEEVAA ASSOCIATES
FLAT PROMOTERS & BUILDERS
Old No. 58/6, New No.6A, Nu Tech Vikash, Jawaharlal Nehru Salai, Ashok Nagar 1st Avenue, Chennai - 600 083
Phone : 2489 5858, 98400 51120, 97911 12835
E-mail : anirudhconstructions@gmail.com
seevaaassociates@gmail.com
Web : www.anirudhconstruction.com

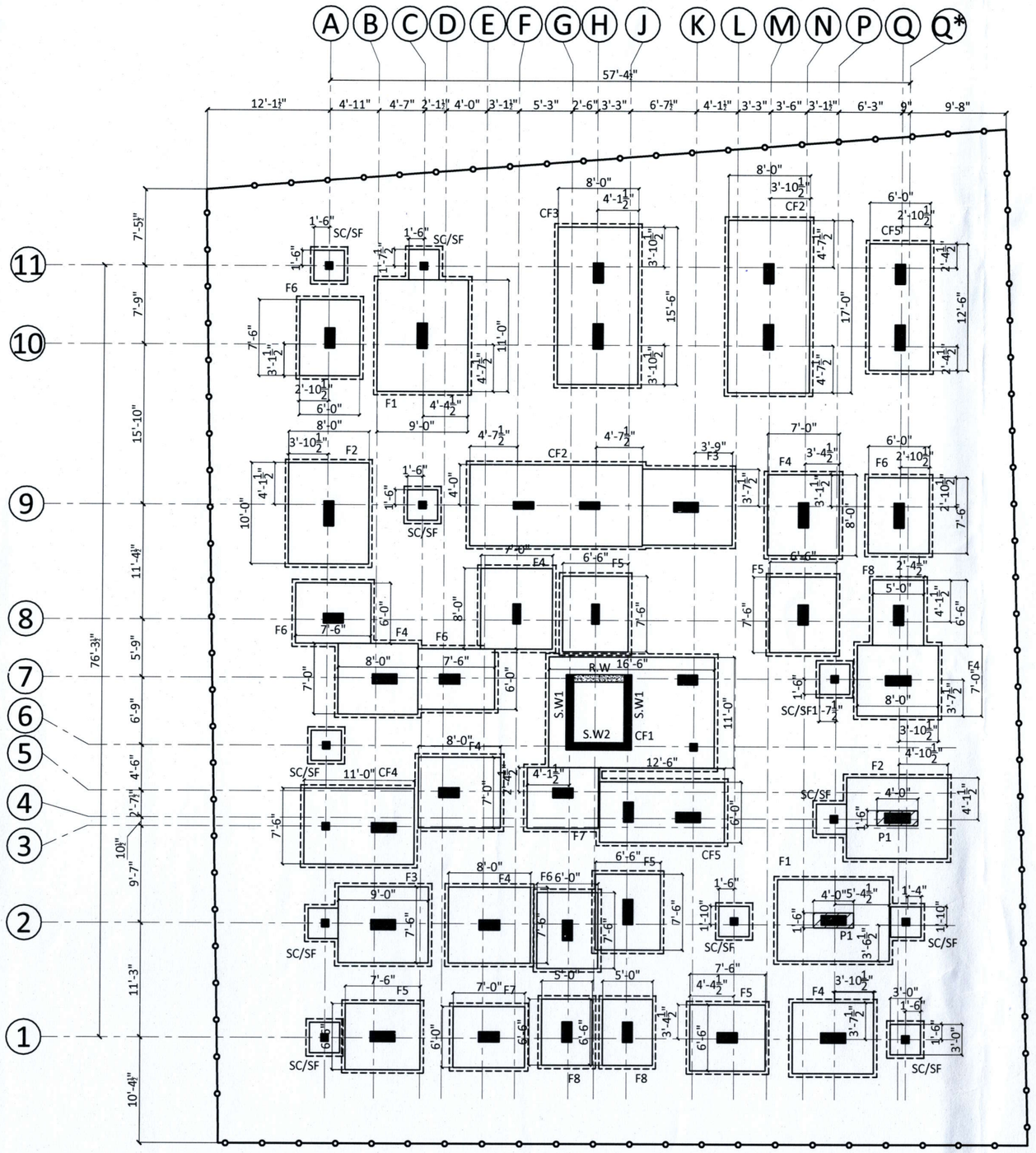
Structural Consultants :

GENUINE CONSULTANTS.,
K.RAJKUMAR - M.Tech
PLOT NO:58,
PALLIKARANAI,
CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9843977835 , 7299977835

A2

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FOR APPROVAL



LAYOUT OF FOOTING

FOOTING SCHEDULE :

SI. NO.	FOOTING NAME	FOOTING SIZE	NO OF FOOTING
01	F1	9'-0" x 11'-0"	02
02	F2	8'-0" x 10'-0"	02
03	F3	7'-6" x 9'-0"	02
04	F4	7'-0" x 8'-0"	07
05	F5	6'-6" x 7'-6"	05
06	F6	6'-0" x 7'-6"	05
07	F7	6'-0" x 7'-0"	02
08	F8	5'-0" x 6'-6"	03
09	SF	3'-0" x 3'-0"	11

PEDESTAL SCHEDULE :

SI. NO	PEDESTAL NAME	PEDESTAL SIZE	NO'S
01	P1	1'-6" X 4'-0"	02

COMBINED FOOTING SCHEDULE :

SI. NO.	FOOTING NAME	FOOTING SIZE	NO OF FOOTING
01	CF1	11'-0" x 16'-6"	01
02	CF2	8'-0" x 17'-0"	02
03	CF3	8'-0" x 15'-6"	01
04	CF4	7'-6" x 11'-0"	01
05	CF5	6'-0" x 12'-6"	02

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UP TO PLINTH BEAM)	NO'S
01	SC	0'-9" X 0'-9"	12

NOTE:

R.W - R.C WALL UPTO FLOOR FINISH LEVEL

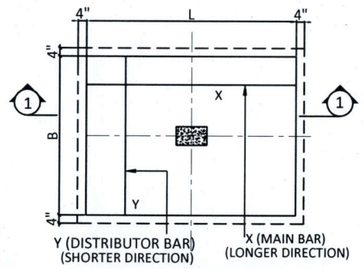
S.W - SHEAR WALL UPTO TOP

NOTE:

FOR COLUMN LAYOUT REFER DRWG NO : GS/ST-01

FOR L.S & R.C DETAILS OF COLUMN REFER DRWG NO : GS/ST-02

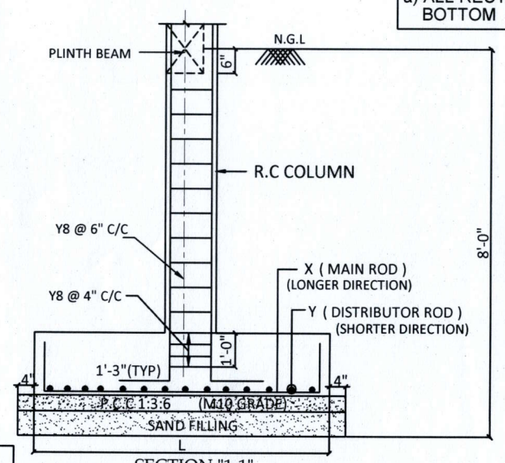
FOR LAYOUT FOOTIG REFER DRWG NO : GS/ST-03



TYPICAL PLAN OF FOOTING
(FLAT FOOTING)

IMPORTANT POINT:

a) ALL RECTANGULAR & COMBINED FOOTINGS BOTTOM ARE 8'-0" BELOW FROM N.G.L.



SECTION "1-1"
(MAIN BAR @ BOTTOM OF FOOTING)
(MAIN BAR @ LONGER DIRECTION)

NOTE:

WHEREVER LAP SPLICES AND CONFINING TIES ARE NOT REQUIRED, SPACING OF LATERAL TIES SHALL BE Y8 @ 8" C/C.

ALL HOOKS SHOULD BE BENT TO AN ANGLE OF 135° WITH A LENGTH NOT LESS THAN 75 MM

FOR APPROVAL

COLUMN SCHEDULE :

SI. NO	COLUMN NAME	COLUMN SIZE (UPTO STILT FLOOR ROOF)	COLUMN SIZE (STILT FLOOR ROOF TO TOP)	NO'S
01	C1	1'-0" X 2'-6"	0'-9" X 2'-6"	17
02	C2	1'-0" X 2'-0"	0'-9" X 2'-0"	17
03	C3	0'-9" X 2'-0"	0'-9" X 2'-0"	04

IMPORTANT NOTES :

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4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT
   a) R.C. COLUMN = 1.5" b) FOOTING = 2"
   c) R.C WALL = 1"
6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
7. COLUMN & FOOTINGS ARE DESIGNED FOR STILT+5 FLOOR LOADS.
8. SBC OF THE SOIL IS TAKEN AS 230KN / SQM. @ 8'-0" BELOW N.G.L. AS PER SOIL REPORT.
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REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	M.G	C.K	22.12.23

PROJECT :
PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :
LAYOUT & R.C DETAILS OF FOOTING

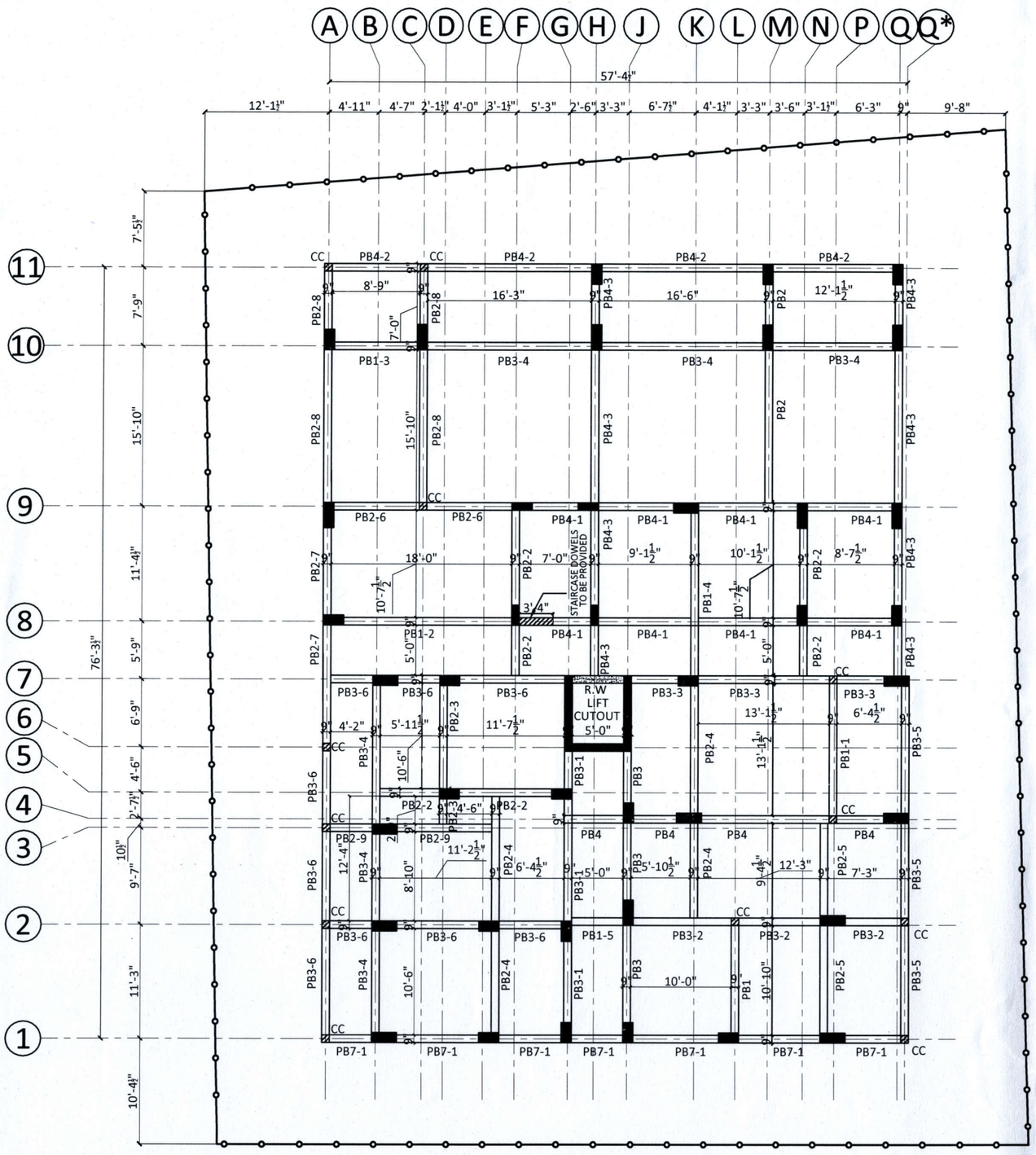
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JOB NO : -		
SCALE : A3 = 12"	DRG NO: GC/ST-03	
DRN BY : M.G		
CHKD BY: C.K		
DATE : 22.12.23		

GENUINE CONSULTANTS CHENNAI 600 100. Structural Engineering

ARCHITECT/CLIENT :
ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
FLAT PROMOTERS & BUILDERS
Old No. 58/K, New No 89, Nu Tech Vikash, Jawaharlal Nehru Salai, Ashok Nagar 1st Avenue, Chennai - 600 083.
Phone : 2489 5858, 89400 51129, 8791112935
E-mail : anirudhfoundation09@gmail.com
seevaaassociates@gmail.com
Web : www.anirudhconstruction.com

Structural Consultants :
GENUINE CONSULTANTS.,
K.RAJKUMAR - M.Tech
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PALLIKARANAI,
CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9643977835 , 7299977835

A3

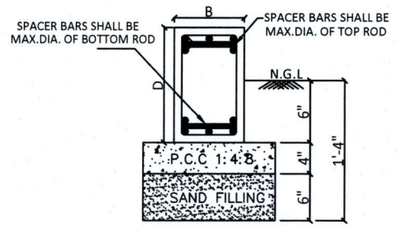


LAYOUT OF PLINTH BEAM

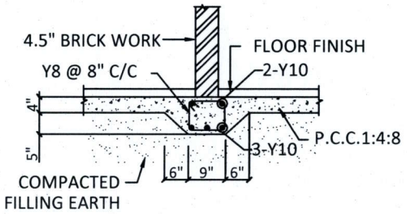
BEAM SCHEDULE

FOR BEAM DETAILS REFER DRWG NO : GC/ST-05

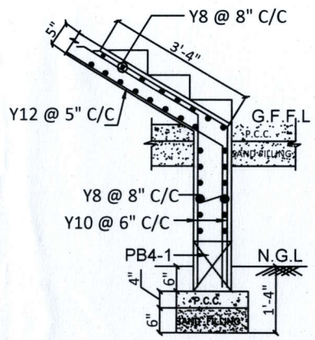
Sl.NO	NAME	SIZE
01	PB1	0'-9" x 1'-6"
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30	PB7	0'-9" x 1'-6"



TYPICAL DETAIL OF PLINTH BEAM



TYPICAL DETAIL OF 4 1/2" WALL (BEAM 0'-9" x 0'-9")



TYP. DETAIL OF STAIRCASE DOWELS

NOTES:

FOR CORRECT LEVELS & DIMENSIONS REFER ARCHI DRAWINGS

CC - COLUMN CURTAILED & RODS TO BE BENT INTO TOP OF PLINTH BEAM

LEGEND:

N.G.L - NATURAL GROUND LEVEL

R.W - R.C WALL

G.F.F.L - GROUND FLOOR FINISHED FLOOR LEVEL

FOR APPROVAL

IMPORTANT NOTES : SOIL NOTES (ONLY FOR CLAY SOIL)

1 - THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.

2 -THE TOP SOIL IS OF MEDIUM SWELLING TYPE. HENCE IT WILL EXERT UPWARD THRUST ON THE GROUND FLOOR FLOORING. HENCE IT IS SUGGESTED TO REMOVE TOP 30-40 cm OF THE NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND/GRAVEL FOR GROUND FLOOR FLOORING.

IMPORTANT NOTES :

IF THE HEIGHT OF THE COLUMN BETWEEN PLINTH BEAM TOP LEVEL TO GROUND FLOOR ROOF SLABS TOP LEVEL EXCEED 12'-6" ,THEN PROVIDE TIE BEAM AT BASEMENT LEVEL .

DETAIL FOR TIE BEAM 0'-9" X 0'-9" 3Nos 12mm(TOP AND BOTTOM) Y8 @ 8 "C/C

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

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GENERAL NOTES:

REMOVAL OF FORMWORK(SHUTTERING) :

SHUTTERING OF ANY PART OF THE STRUCTURE SHALL NOT BE REMOVED UNTIL THE CONCRETE ATTAINS 70% OF THE SPECIFIED STRENGTH OF CONCRETE. HOWEVER THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1, IS 456:2000

A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS & BEAMS - 24HOURS
B) BJTTOM SHUTTERING OF SLABS (KEEPING THE PROPS) - 3 DAYS
C) BOTTOM SHUTTERING OF BEAMS (KEEPING THE PROPS) - 7 DAYS
d) PROPS TO SLABS :
i .SPANNING UPTO 4.5 M - 7 DAYS
i i.SPANNING OVER 4.5 M - 14 DAYS
E) PROPS TO BEAMS & ARCHES :
i .SPANNING UPTO 6 M - 14 DAYS
i i.SPANNING OVER 6 M - 21 DAYS

LAP JOINTS FOR REINFORCEMENT BARS :

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

ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF1.3 TIMES LAP LENGTH OF THE BAR FOR TENSION & COMPRESSION MEMBERS.

iii) DEVELOPMENT LENGTH (Ld) SHALL BE AS PER (SP:34-1999) TABLE BELOW:

a) DEVELOPMENT LENGTH FOR COLUMN BARS-40D
b) DEVELOPMENT LENGTH FOR BEAM BARS-50D

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

v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

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

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

GENERAL NOTES:

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2. CONCRETE GRADE SHALL BE M25 (DESIGN MIX OR 1:1.5:2) CONFIRMING TO IS 456:2000
3. MINIMUM CEMENT CONTENT = 340 kg/m3.
4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT
   a) R.C. COLUMN = 1.5" b) PLINTH BEAM = 1"
   c) R.C WALL = 1"
6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
7. CANTILEVER PROPS SHOULD NOT BE RELEASED UNTIL THE ROOF IS CONCRETED.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYER OF REINFORCEMENT AT EVERY 3'-0" C/C
9. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
10. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER
11. FOR CONCRETING WATER CEMENT RATIO SHOULD BE (0.45-0.5) (FOR 1BAG CEMENT= MAX-25 LIT OF WATER ONLY TO BE ADDED.)

K. RAJKUMAR, B.E., M.Tech.,
Structural Consultant
Registered Structural Engineer
Grade-I (SE)-CMDA
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Pallikaranai, Chennai-600 100.
Cell: 9843977835

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	R.S.M	C.K	22.12.23

PROJECT :

PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :

LAYOUT OF PLINTH BEAM

DRG NO : 04		NORTH:
JOB NO : -		
SCALE : A2 = 9"	DRG NO: GC/ST-03	
DRN BY : R.S.M		
CHKD BY: C.K		
DATE : 22.12.23		

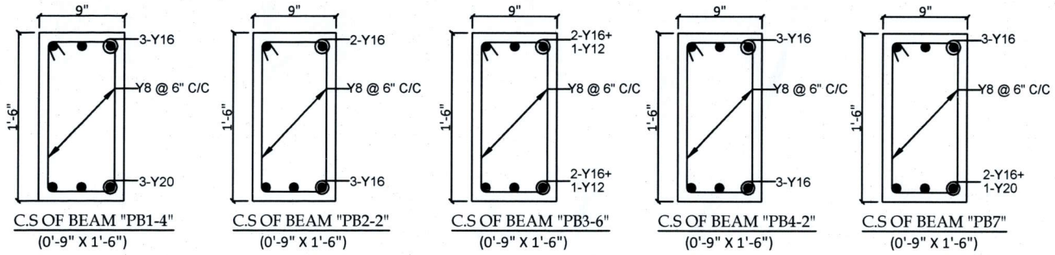
ARCHITECT/CLIENT :

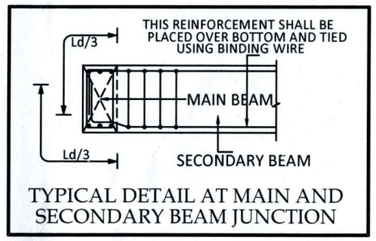
ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
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Old No. 58K, New No.8K, Nu Tech Vikash, Jawaharlal Nehru Salai, Ashok Nagar 1st Avenue, Chennai - 600 083.
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seevaaassociates@gmail.com
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Structural Consultants :

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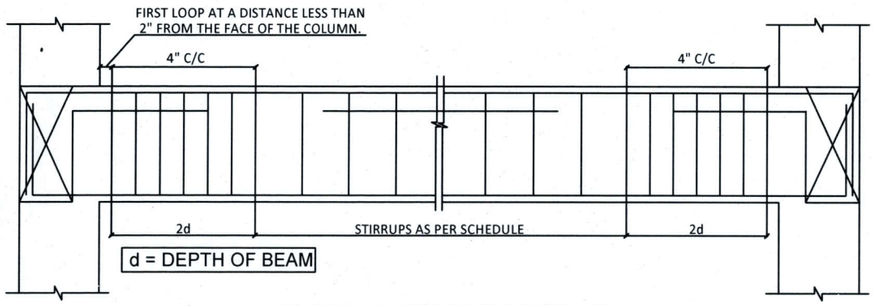
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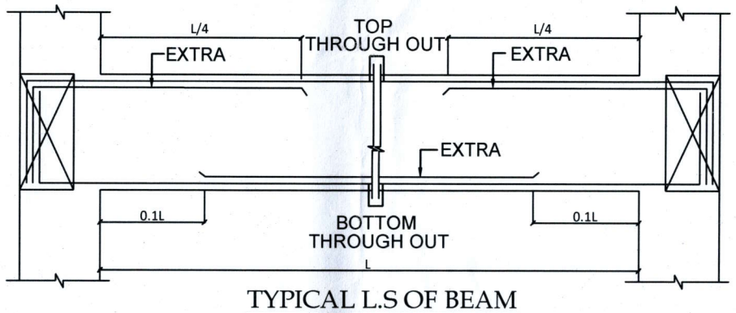


TYPICAL DETAIL AT MAIN AND SECONDARY BEAM JUNCTION

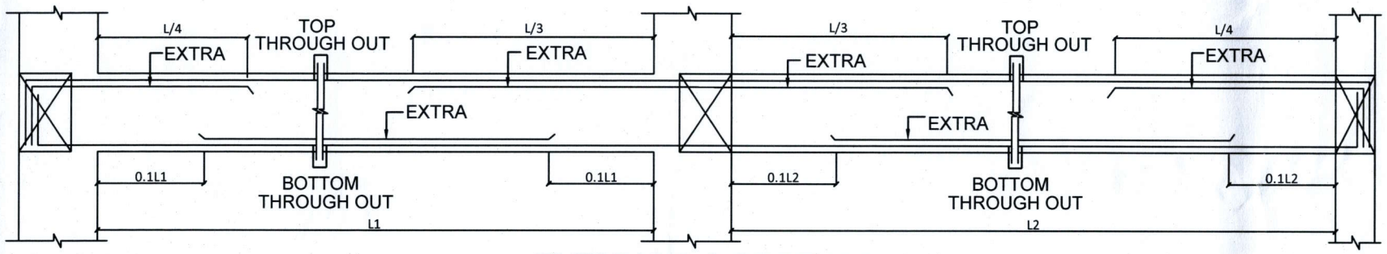
BEAM SCHEDULE		
Sl.NO	NAME	SIZE
01	PB1	0'-9" x 1'-6"
02	PB1-1	0'-9" x 1'-6"
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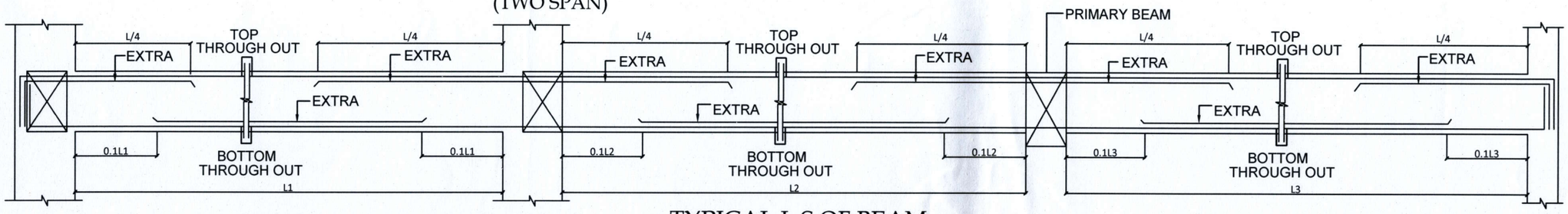
TYPICAL STIRRUPS DETAIL



TYPICAL L.S OF BEAM
(BEAM RESTING ON COLUMN AT BOTH ENDS)
(SINGLE SPAN)

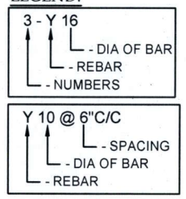


TYPICAL L.S OF BEAM
(BEAM RESTING ON COLUMN AT BOTH ENDS)
(TWO SPAN)

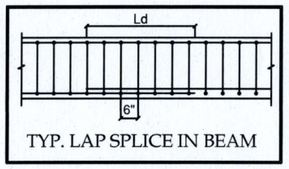


TYPICAL L.S OF BEAM
(THREE OR MORE CONTINUOUS SPAN)

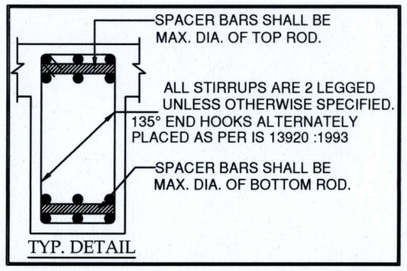
LEGEND:



FOR APPROVAL



TYP. LAP SPLICE IN BEAM



TYP. DETAIL

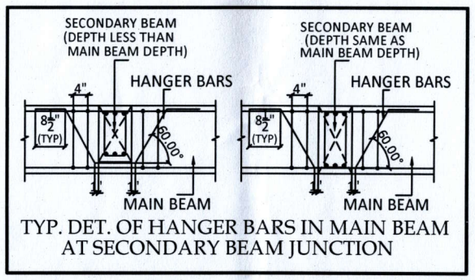
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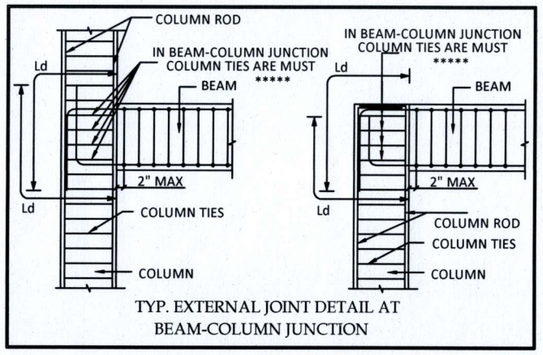
NOTE:

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

IN BEAM CANTILEVER PORTION HOOKS SHOULD BE AT BOTTOM



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



TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION

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Reg. No: SE/GR-I/19/03/035
Pallikaranai, Chennai-600 100.
Cell: 9843977835

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	R.S.M	C.K	22.12.23

PROJECT :
PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

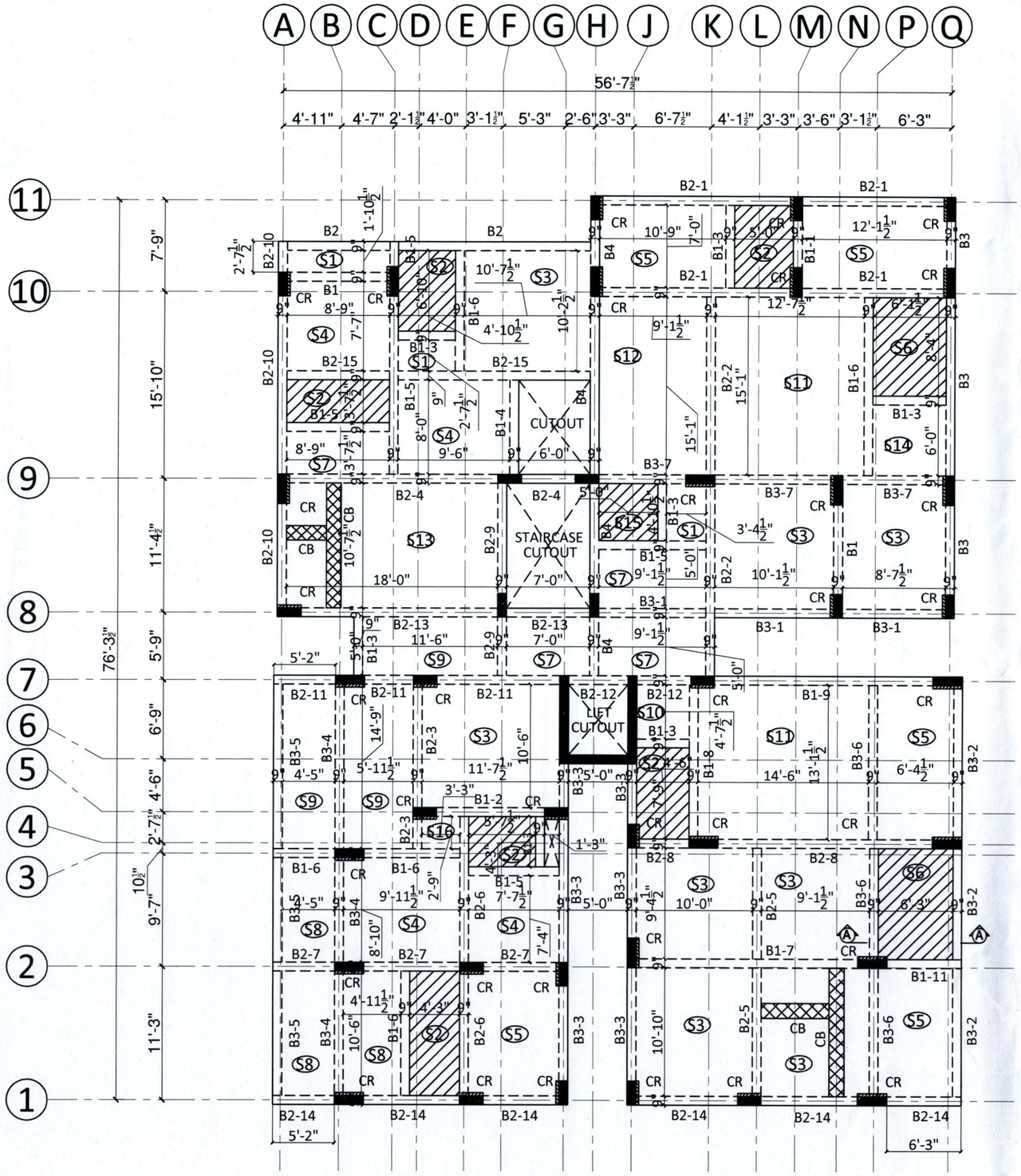
DRAWING TITLE :
R.C DETAILS OF PLINTH BEAM

DRG NO : 05
JOB NO : -
SCALE : A2 = 9"
DRN BY : R.S.M
CHKD BY: C.K
DATE : 22.12.23
DRG NO: GC/ST-05
NORTH:

ARCHITECT/CLIENT :
ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
FLAT PROMOTERS & BUILDERS
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Phone : 2489 5858, 89400 51129, 9791112935
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PALLIKARANAI,
CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9843977835 , 7299977835

A2



NUMERATION LAYOUT OF

STILT FLOOR ROOF SLAB AND BEAM

BEAM SCHEDULE

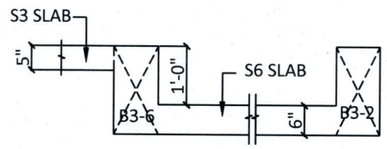
FOR BEAM DETAILS REFER DRWG NO : GC/ST-08

Sl.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B1-1	0'-9" x 1'-6"
03	B1-2	0'-9" x 2'-0"
04	B1-3	0'-9" x 1'-6"
05	B1-4	0'-9" x 1'-6"
06	B1-5	0'-9" x 1'-6"
07	B1-6	0'-9" x 2'-0"
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11	B2	0'-9" x 1'-6"
12	B2-1	0'-9" x 1'-6"
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22	B2-11	0'-9" x 2'-0"
23	B2-12	0'-9" x 1'-6"
24	B2-13	0'-9" x 1'-6"
25	B2-14	0'-9" x 2'-0"
26	B2-15	0'-9" x 1'-6"
27	B3	0'-9" x 1'-6"
28	B3-1	0'-9" x 1'-6"
29	B3-2	0'-9" x 1'-6"
30	B3-3	0'-9" x 1'-6"
31	B3-4	0'-9" x 1'-6"
32	B3-5	0'-9" x 1'-6"
33	B3-6	0'-9" x 1'-6"
34	B3-7	0'-9" x 1'-6"
35	B4	0'-9" x 1'-6"

SLAB SCHEDULE

FOR R.C DETAILS REFER DRWG NO : GC/ST-07

SI.NO	NAME	THK.,
01	S1	0'-5" THK
02	S2	0'-6" THK
03	S3	0'-5" THK
04	S4	0'-5" THK
05	S5	0'-5" THK
06	S6	0'-6" THK
07	S7	0'-5" THK
08	S8	0'-5" THK
09	S9	0'-5" THK
10	S10	0'-5" THK
11	S11	0'-6" THK
12	S12	0'-5" THK
13	S13	0'-5" THK
14	S14	0'-5" THK
15	S15	0'-6" THK
16	S16	0'-5" THK



SECTION "A-A"

NOTE:

- FOR CORRECT LEVELS AND DIMENSIONS REFER ARCHI DRAWING
- SLAB SUNK BY 1'-0"
- SUNKEN SLAB SHOULD BE FILLED WITH LIGHT WEIGHT MATERIAL ONLY
- WATER PROOFING IS MUST IN SUNKEN SLAB.

LEGEND

CR -COLUMN REDUCTION IN SIZE

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

FOR APPROVAL

K. RAJKUMAR, B.E., M.Tech.,
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GENERAL NOTES:

REMOVAL OF FORMWORK(SHUTTERING) :

SHUTTERING OF ANY PART OF THE STRUCTURE SHALL NOT BE REMOVED UNTIL THE CONCRETE ATTAINS 70% OF THE SPECIFIED STRENGTH OF CONCRETE. HOWEVER THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1, IS 456:2000

A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS & BEAMS - 24HOURS
B) BOTTOM SHUTTERING OF SLABS (KEEPING THE PROPS) - 3 DAYS
C) BOTTOM SHUTTERING OF BEAMS (KEEPING THE PROPS) - 7 DAYS
d) PROPS TO SLABS :
i .SPANNING UPTO 4.5 M - 7 DAYS
i i.SPANNING OVER 4.5 M - 14 DAYS
E) PROPS TO BEAMS & ARCHES :
I .SPANNING UPTO 6 M - 14 DAYS
i i.SPANNING OVER 6 M - 21 DAYS

LAP JOINTS FOR REINFORCEMENT BARS :

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

ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF1.3 TIMES LAP LENGTH OF THE BAR FOR TENSION & COMPRESSION MEMBERS.

iii) DEVELOPMENT LENGTH (Ld) SHALL BE AS PER (SP:34-1999) TABLE BELOW:

a) DEVELOPMENT LENGTH FOR COLUMN BARS-40D
b) DEVELOPMENT LENGTH FOR BEAM BARS-50D

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

v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .

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

Vii) 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 (DESIGN MIX OR 1:1.5:2) CONFIRMING TO IS 456:2000
3. MINIMUM CEMENT CONTENT = 340 kg/m3.
4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT a) R.C. COLUMN = 1.5" b) BEAM = 1" c) SLAB = 3/4"
6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
7. CANTILEVER PROPS SHOULD NOT BE RELEASED UNTIL THE ROOF IS CONCRETED.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYER OF REINFORCEMENT AT EVERY 3'-0" C/C
9. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
10. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER
11. FOR CONCRETING WATER CEMENT RATIO SHOULD BE (0.45-0.5) (FOR 1BAG CEMENT= MAX-25 LIT OF WATER ONLY TO BE ADDED.)

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	V.MK	C.K	22.12.23

PROJECT :

PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :

NUMERATION LAYOUT OF STILT FLOOR ROOF SLAB & BEAM

DRG NO : 06		NORTH:
JOB NO : -		
SCALE : A3 = 11"	DRG NO: GC/ST-06	
DRN BY : V.MK		
CHKD BY: C.K		
DATE : 22.12.23		

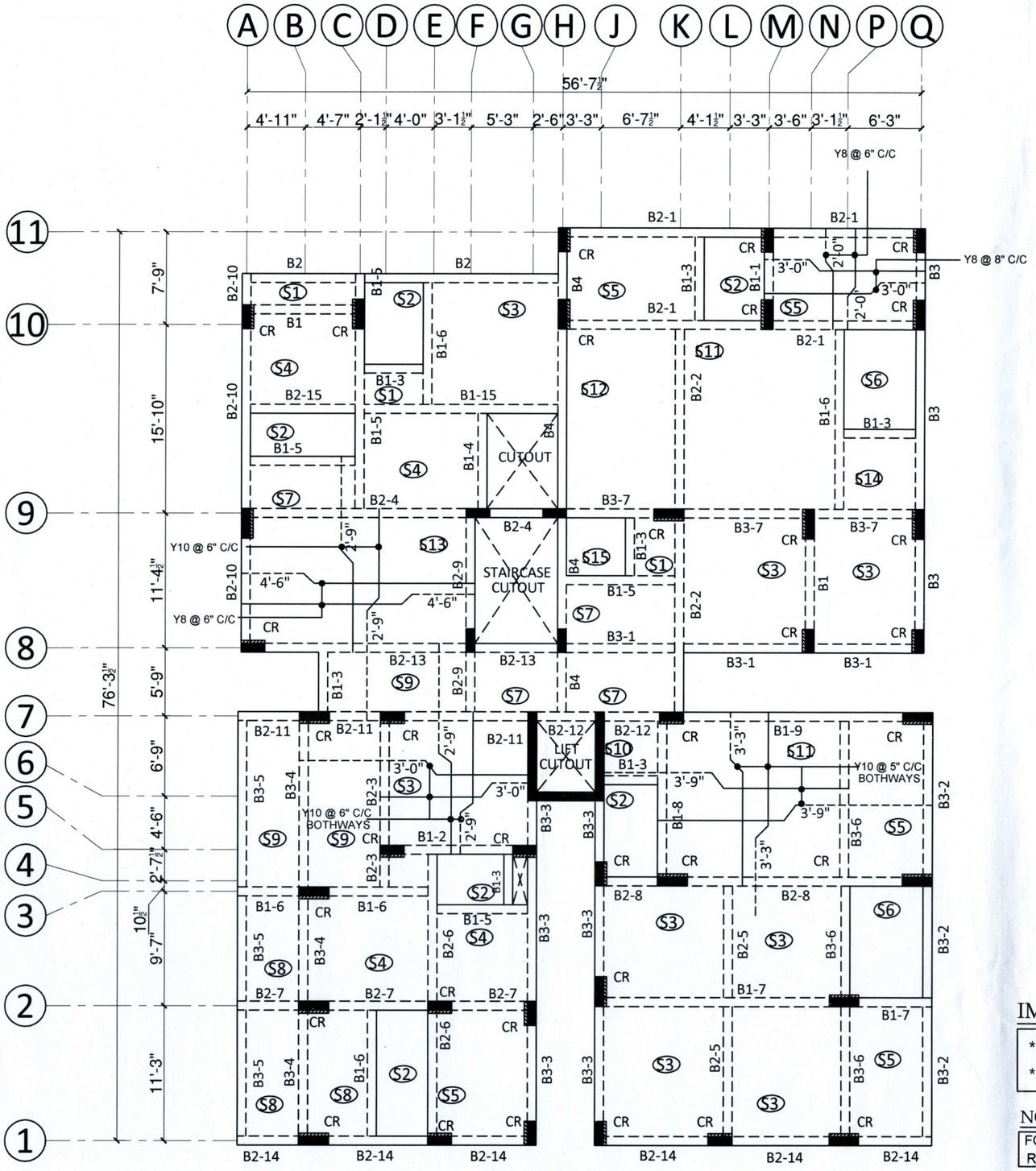
ARCHITECT/CLIENT :

ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
PLAN PROMOTERS & BUILDERS
Old No: 58K, New No.6K, Nu Tech Vikash, Jawaharlal Nehru Salai, Ashok Nagar 1st Avenue, Chennai - 600 083.
Phone : 2489 5858, 98400 51129, 97911 12835
E-mail : anirudhfoundation05@gmail.com
seevaaassociates@gmail.com
Web : www.anirudhconstruction.com

Structural Consultants :

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PLOT NO:56,
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CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9843977835 , 7299977835

A3



R.C LAYOUT OF

STILT FLOOR ROOF SLAB AND BEAM

FOR APPROVAL

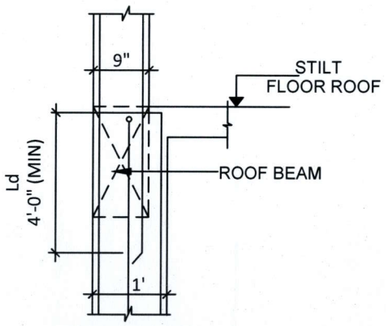
BEAM SCHEDULE

FOR BEAM DETAILS REFER DRWG NO : GC/ST-08

SI.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B1-1	0'-9" x 1'-6"
03	B1-2	0'-9" x 2'-0"
04	B1-3	0'-9" x 1'-6"
05	B1-4	0'-9" x 1'-6"
06	B1-5	0'-9" x 1'-6"
07	B1-6	0'-9" x 2'-0"
08	B1-7	0'-9" x 2'-0"
09	B1-8	0'-9" x 1'-6"
10	B1-9	0'-9" x 2'-0"
11	B2	0'-9" x 1'-6"
12	B2-1	0'-9" x 1'-6"
13	B2-2	0'-9" x 1'-9"/1'-6"
14	B2-3	0'-9" x 1'-6"
15	B2-4	0'-9" x 1'-6"
16	B2-5	0'-9" x 1'-6"
17	B2-6	0'-9" x 2'-0"
18	B2-7	0'-9" x 2'-0"
19	B2-8	0'-9" x 2'-0"
20	B2-9	0'-9" x 1'-6"
21	B2-10	0'-9" x 1'-6"
22	B2-11	0'-9" x 2'-0"
23	B2-12	0'-9" x 1'-6"
24	B2-13	0'-9" x 1'-6"
25	B2-14	0'-9" x 2'-0"
26	B2-15	0'-9" x 1'-6"
27	B3	0'-9" x 1'-6"
28	B3-1	0'-9" x 1'-6"
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32	B3-5	0'-9" x 1'-6"
33	B3-6	0'-9" x 1'-6"
34	B3-7	0'-9" x 1'-6"
35	B4	0'-9" x 1'-6"

SLAB SCHEDULE

SI.NO	NAME	THK.,
01	S1	0'-5" THK
02	S2	0'-6" THK
03	S3	0'-5" THK
04	S4	0'-5" THK
05	S5	0'-5" THK
06	S6	0'-6" THK
07	S7	0'-5" THK
08	S8	0'-5" THK
09	S9	0'-5" THK
10	S10	0'-5" THK
11	S11	0'-5" THK
12	S12	0'-5" THK
13	S13	0'-5" THK
14	S14	0'-5" THK
15	S15	0'-6" THK
16	S16	0'-5" THK



TYP. COLUMN REDUCTION DETAIL

(SIZE REDUCED FROM 1'-0" TO 0'-9")

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

NOTE:

FOR CORRECT LEVELS AND DIMENSIONS REFER ARCHI DRAWING

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

PROVIDE CONTINUOUS CHAIRS TO KEEP THE TOP REINFORCMENT IN POSITION.

LEGEND

CR -COLUMN REDUCTION IN SIZE

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Reg. No: SE/GR-I/19/03/035
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REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	V.MK	C.K	22.12.23

PROJECT :

PROPOSED RESIDENTIAL BUILDING AT OLD D.NO. 17, NEW D.NO. 18, RAM NAGAR 8TH STREET, ALANDHUR, CHENNAI.

DRAWING TITLE :

R.C LAYOUT OF STILT FLOOR ROOF SLAB & BEAM

DRG NO : 07	
JOB NO : -	
SCALE : A3 = 11"	DRG NO: GC/ST-07
DRN BY : V.MK	
CHKD BY: C.K	
DATE : 22.12.23	

NORTH:

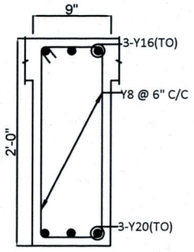
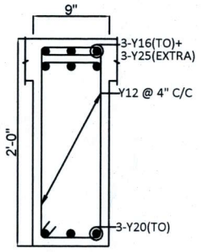
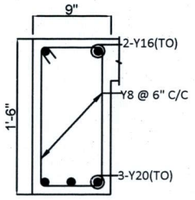
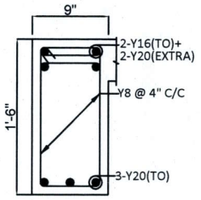
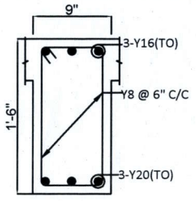
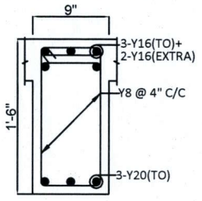
ARCHITECT/CLIENT :

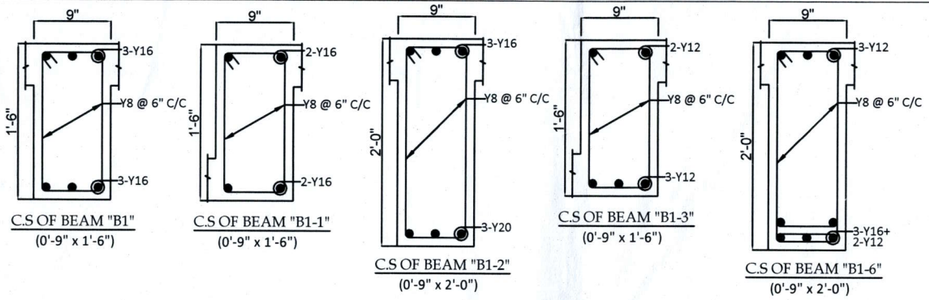
ANIRUDH FOUNDATION (P) LTD & SEEVAA ASSOCIATES
FLAT PROMOTERS & BUILDERS
Old No. 58N, New No.8N, Nu Tech Vikash, Jawaharlal Nehru Salai, Ashok Nagar 1st Avenue, Chennai - 600 083.
Phone : 2489 5858, 89400 51129, 9791112935
E-mail : anirudhfoundation5@gmail.com
seevaaassociates@gmail.com
Web : www.anirudhconstruction.com

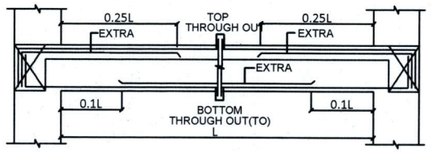
Structural Consultants :

GENUINE CONSULTANTS.,
K.RAJKUMAR - M.Tech
PLOT NO:58,
PALLIKARANAI,
CHENNAI - 600 100.
E-MAIL: genuine.civil@gmail.com
MOBILE: 9843977835 , 7299977835

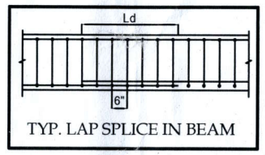
A3

BEAM NO	DETAIL @ MIDDLE	DETAIL @ END SUPPORTS
BEAM "B1-7" (0'-9" X 2'-0")		 HOOKS AT BOTTOM IN CANTILEVER PORTION
BEAM "B2-10" (0'-9" X 1'-6")		
BEAM "B2-13" (0'-9" X 1'-6")		

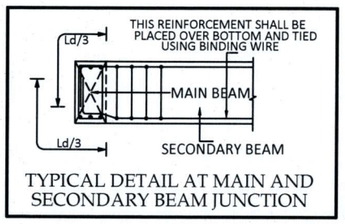




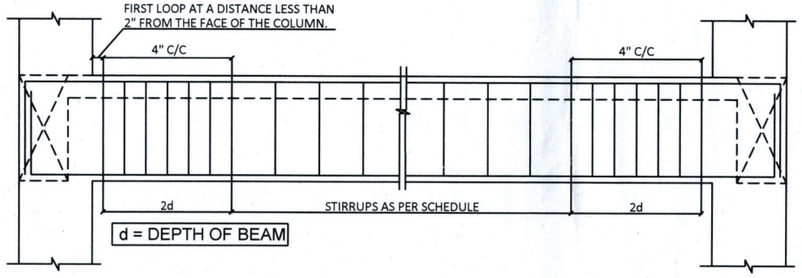
TYPICAL L.S OF BEAM
(BEAM RESTING ON COLUMN AT BOTH ENDS)
(SINGLE SPAN)

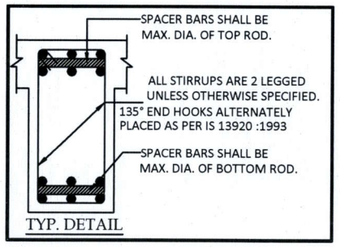


TYP. LAP SPLICE IN BEAM



TYPICAL DETAIL AT MAIN AND SECONDARY BEAM JUNCTION

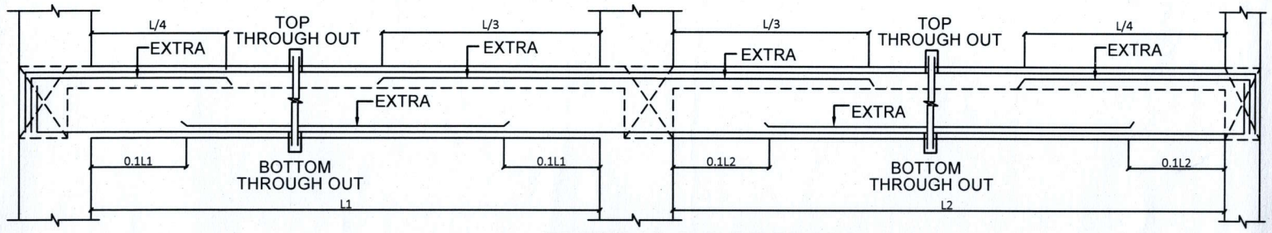




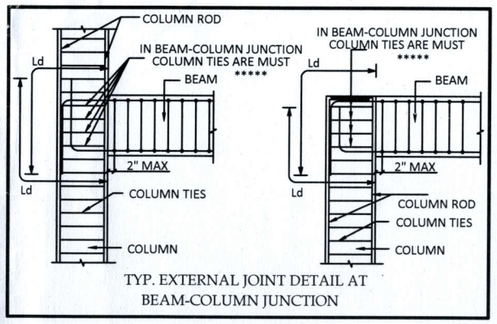
TYP. DETAIL

BEAM SCHEDULE		
Sl.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B1-1	0'-9" x 1'-6"
03	B1-2	0'-9" x 2'-0"
04	B1-3	0'-9" x 1'-6"
05	B1-4	0'-9" x 1'-6"
06	B1-5	0'-9" x 1'-6"
07	B1-6	0'-9" x 2'-0"
08	B1-7	0'-9" x 2'-0"
09	B1-8	0'-9" x 1'-6"
10	B1-9	0'-9" x 2'-0"
11	B2	0'-9" x 1'-6"
12	B2-1	0'-9" x 1'-6"
13	B2-2	0'-9" x 1'-9"/1'-6"
14	B2-3	0'-9" x 1'-6"
15	B2-4	0'-9" x 1'-6"
16	B2-5	0'-9" x 1'-6"
17	B2-6	0'-9" x 2'-0"
18	B2-7	0'-9" x 2'-0"
19	B2-8	0'-9" x 2'-0"
20	B2-9	0'-9" x 1'-6"
21	B2-10	0'-9" x 1'-6"
22	B2-11	0'-9" x 2'-0"
23	B2-12	0'-9" x 1'-6"
24	B2-13	0'-9" x 1'-6"
25	B2-14	0'-9" x 2'-0"
26	B2-15	0'-9" x 1'-6"
27	B3	0'-9" x 1'-6"
28	B3-1	0'-9" x 1'-6"
29	B3-2	0'-9" x 1'-6"
30	B3-3	0'-9" x 1'-6"
31	B3-4	0'-9" x 1'-6"
32	B3-5	0'-9" x 1'-6"
33	B3-6	0'-9" x 1'-6"
34	B3-7	0'-9" x 1'-6"
35	B4	0'-9" x 1'-6"

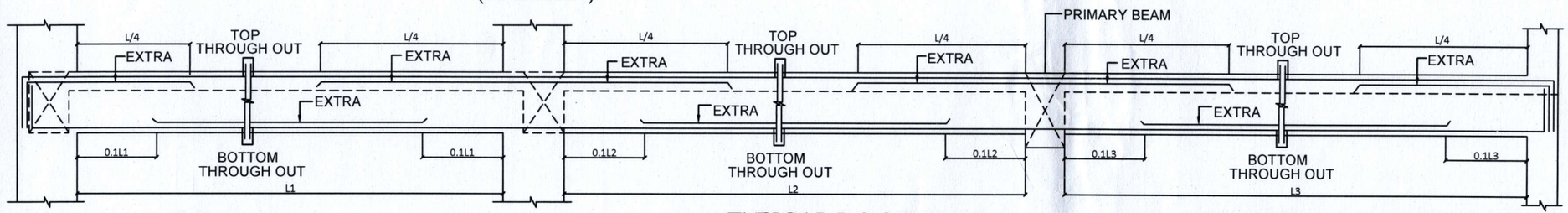
a) DEVELOPMENT LENGTH FOR COLUMN BARS-40D
b) DEVELOPMENT LENGTH FOR BEAM BARS-50D



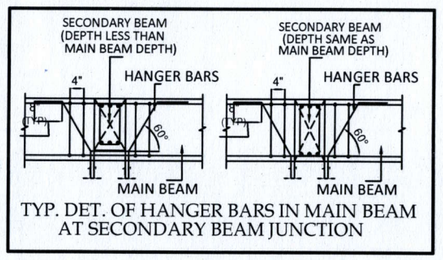
TYPICAL L.S OF BEAM
(BEAM RESTING ON COLUMN AT BOTH ENDS)
(TWO SPAN)



TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION



TYPICAL L.S OF BEAM
(THREE OR MORE CONTINUOUS SPAN)



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

NOTE:

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

IN BEAMS CANTILEVER PORTION HOOKS SHOULD BE AT BOTTOM.

IMPORTANT NOTES :

* GRADE OF CONCRETE - M25 (DESIGN MIX OR 1:1.5:2)
* MINIMUM CEMENT CONTENT= 340 kg/m3.

LEGEND:

3 - Y 16 — 3 NUMBERS, Y REBAR, 16 DIA OF BAR

Y 10 @ 6"C/C — Y REBAR, 10 DIA OF BAR, 6" SPACING

FOR APPROVAL

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GENERAL NOTES:

REMOVAL OF FORMWORK(SHUTTERING) :

SHUTTERING OF ANY PART OF THE STRUCTURE SHALL NOT BE REMOVED UNTIL THE CONCRETE ATTAINS 70% OF THE SPECIFIED STRENGTH OF CONCRETE. HOWEVER THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1, IS 456:2000

A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS & BEAMS - 24HOURS
B) BOTTOM SHUTTERING OF SLABS (KEEPING THE PROPS) - 3 DAYS
C) BOTTOM SHUTTERING OF BEAMS (KEEPING THE PROPS) - 7 DAYS
d) PROPS TO SLABS :
i .SPANNING UPTO 4.5 M - 7 DAYS
i i.SPANNING OVER 4.5 M - 14 DAYS
E) PROPS TO BEAMS & ARCHES :
i .SPANNING UPTO 6 M - 14 DAYS
i i.SPANNING OVER 6 M - 21 DAYS

LAP JOINTS FOR REINFORCEMENT BARS :

i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF1.3 TIMES LAP LENGTH OF THE BAR FOR TENSION & COMPRESSION MEMBERS.
iii) DEVELOPMENT LENGTH (Ld) SHALL BE AS PER (SP:34-1999) TABLE BELOW:
iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL .
v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE .
vi) WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES DIAMETER OF BAR AND A GAP OF 5TIMES HIGHER DIAMETER BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER OBTAINING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL DESIGNER.
Vii) 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 (DESIGN MIX OR 1:1.5:2) CONFIRMING TO IS 456:2000
3. MINIMUM CEMENT CONTENT = 340 kg/m3.
4. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-1985
5. CLEAR COVER FOR REINFORCEMENT
   a) R.C. COLUMN = 1.5" b) BEAM = 1" c) SLAB = 3/4"
6. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
7. CANTILEVER PROPS SHOULD NOT BE RELEASED UNTIL THE ROOF IS CONCRETED.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYER OF REINFORCEMENT AT EVERY 3'-0" C/C
9. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
10. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER
11. FOR CONCRETING WATER CEMENT RATIO SHOULD BE (0.45-0.5) (FOR 1BAG CEMENT= MAX-25 LIT OF WATER ONLY TO BE ADDED.)

REV	DESCRIPTIONS	DRN	CHK	DATE
00.	FOR APPROVAL	V.MK	C.K	22.12.23

PROJECT :

PROPOSED RESIDENTIAL BUILDING FOR 'AERO FLATS'
@ 45th STREET,NANGANALLUR,CHENNAI

DRAWING TITLE :

R.C DETAILS OF STILT FLOOR ROOF BEAM

DRG NO : 08		NORTH:
JOB NO : -		
SCALE : A2 = 12"	DRG NO: GC/ST-08	
DRN BY : V.MK		
CHKD BY: C.K		
DATE : 22.12.23		

ARCHITECT/CLIENT :

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A2



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