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APPENDIX IV

GENERAL ARRANGEMENT DRAWINGS

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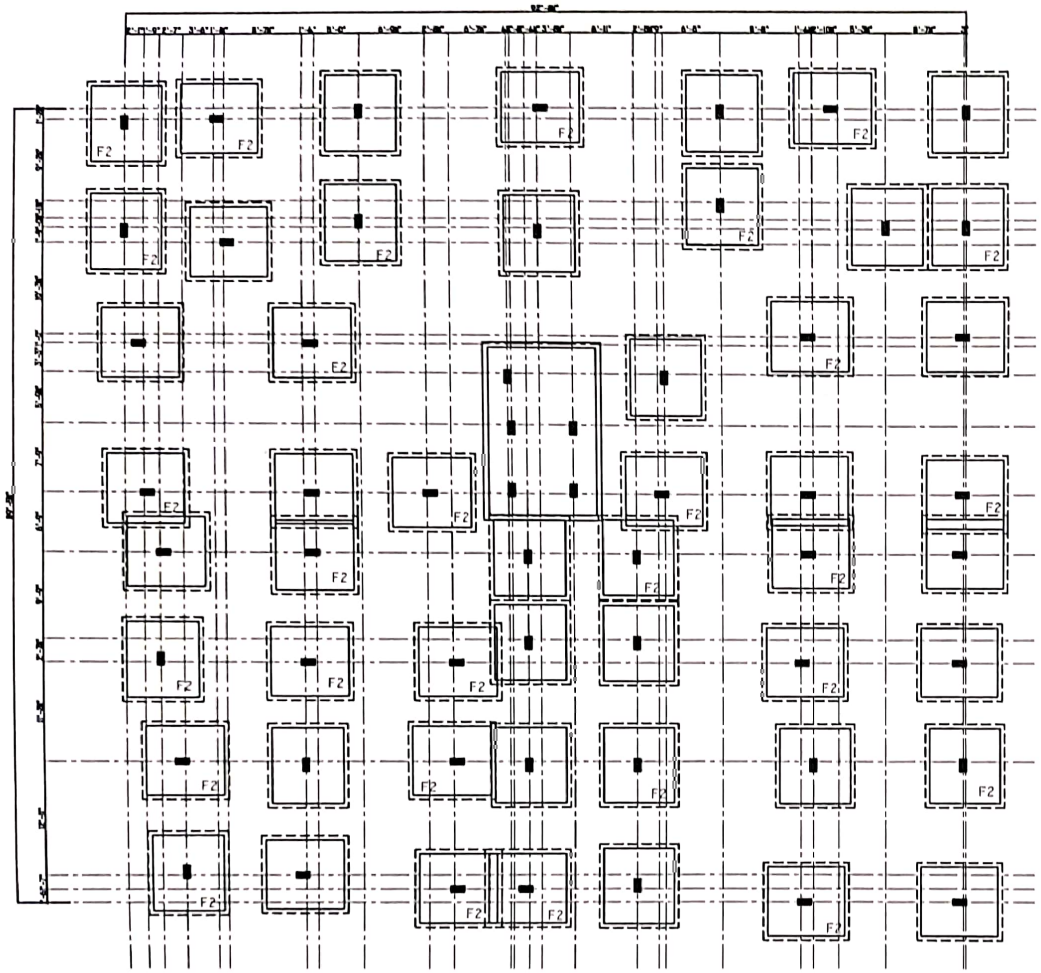
P. DHIVAGAR
Registered Structural Engineer Grade-II
REG NO.SE/GR-II/19/08/147, CMDA
RSE200212019, Greater Chennai Corporation
No.21, Maheswari Avenue, Puzhuthivakkam,
Chennai - 91, Mob : 8489078044

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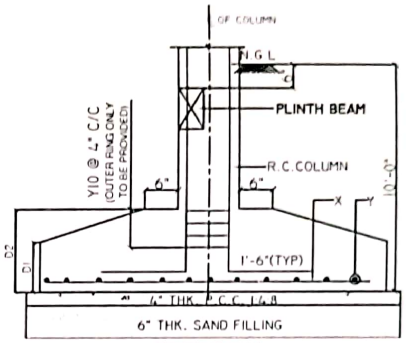
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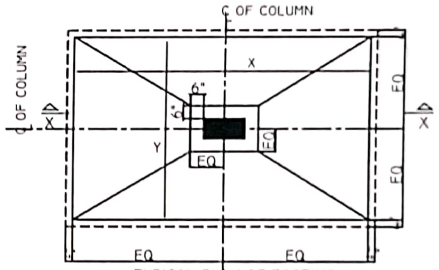


LAYOUT OF FOOTINGS

Issue for APPROVAL



SECTION "X-X"



TYPICAL PLAN OF FOOTING

FOOTINGS SCHEDULE

Sl.	FOOTING NAME	FOOTING SIZE (SLOPED FOOTING / STEPPED)	FOOTING REINFORCEMENT X = LONGER DIRECTION Y = SHORTER DIRECTION
01	F1	12'-0" X 10'-0" D1=0'-10", D2=1'-6"	X = Y12 @ 8" C/C Y = Y12 @ 6" C/C
02	F2	10'-0" X 9'-0" D1=0'-10", D2=1'-9"	X = Y10 @ 6" C/C Y = Y10 @ 6" C/C
03	F3	9'-0" X 8'-0" D1=0'-10", D2=1'-6"	X = Y10 @ 8" C/C Y = Y10 @ 8" C/C
04	CF	16'-0" X 24'-0" D=2'-6"	Y12 @ 6" C/C TOP & BOTTOM

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LAYOUT & R.C DETAILS OF FOOTING

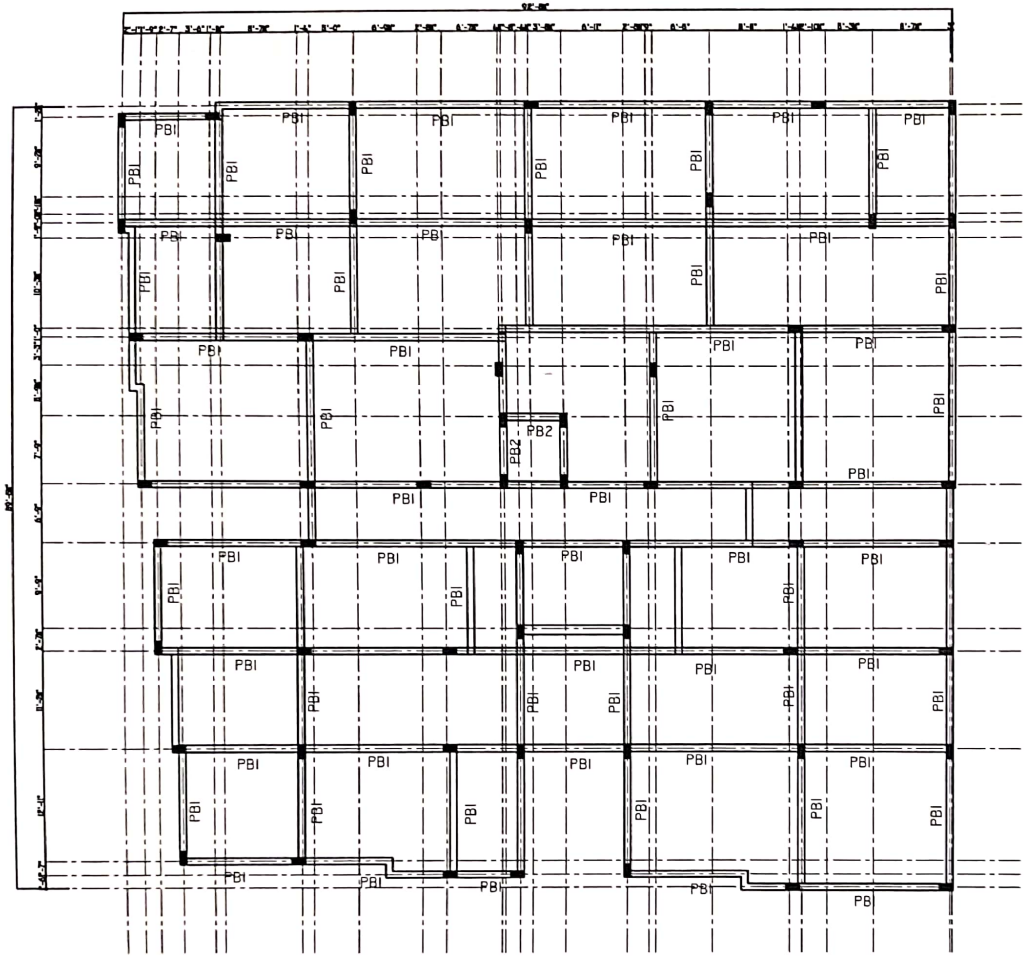
1" = 10' | 55 | 02

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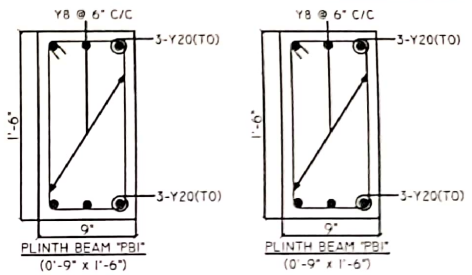
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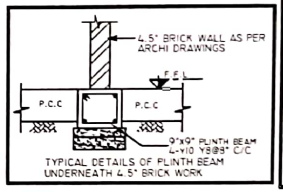
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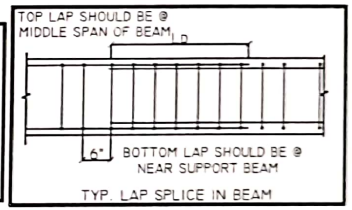
LAYOUT OF PLINTH BEAM

ISSUE FOR APPROVAL



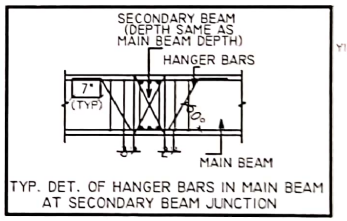


TYPICAL DETAILS OF PLINTH BEAM UNDERNEATH 4.5" BRICK WORK

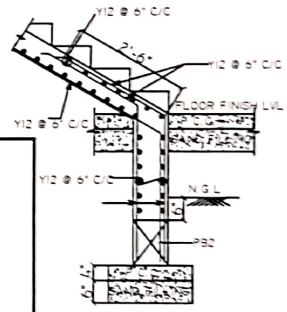


TYP. LAP SPLICE IN BEAM

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	PBI	0'-9" x 1'-6"
02	PB2	0'-9" x 1'-6"



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



TYP. DETAIL OF STAIRCASE DOWELS

LAYOUT & R.C DETAILS OF PLINTH BEAM

DATE	SCALE	DWG NO	DWG TYP
	1" = 10'	SS	03

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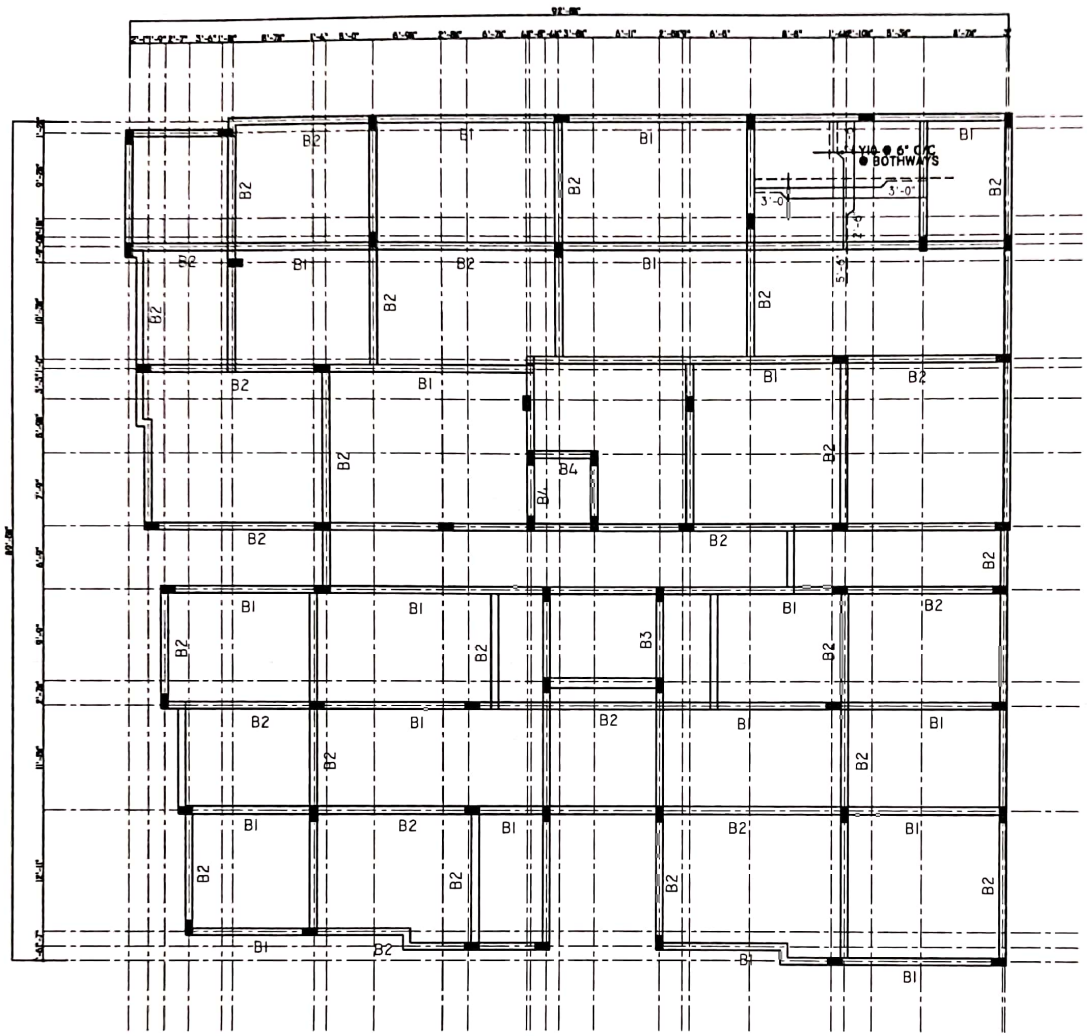
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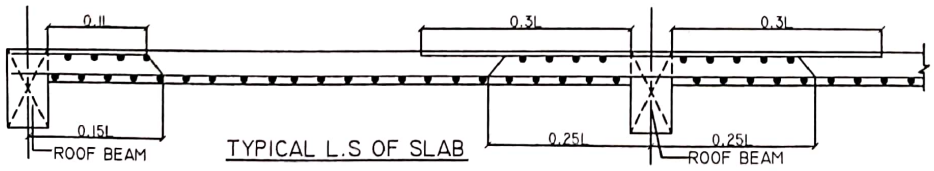
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Issue for APPROVAL



FRAMING PLAN OF TYPICAL FLOOR ROOF BEAM & SLABS

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



BEAM SCHEDULE

SL.NO	NAME	SIZE
01	B1	1'-0" x 1'-6"
02	B2	1'-0" x 1'-6"
03	B3	1'-0" x 1'-6"
04	B4	1'-0" x 1'-6"

SLAB SCHEDULE

SL.NO	NAME	THICK
01	S1	6" THK.

REMOVAL OF FORM WORK (SHUTTERING)

GENERAL NOTES

REV	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUED FOR APPROVAL	P.D	S.A	

PROJECT

TITLE

DATE	SCALE	JOB NO.	DWG NO.
	1" = 9'	55	04

ARCHITECT

STRUCTURAL CONSULTANT

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BEAM REINFORCEMENT

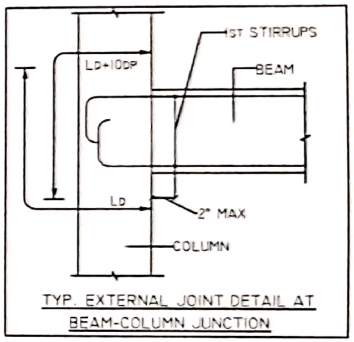
NAME	MID SPAN	END SUPPORT	NAME	MID SPAN	END SUPPORT
B1 (1'-0" X 1'-6")	3-Y20(TO); Y10 @ 6" C/C; 3-Y16(TO)+ 2-Y16(EX); 1'-6"; 1'-0"	3-Y20(TO)+ 2-Y20(EX); Y10 @ 4" C/C; 3-Y16(TO); 1'-6"; 1'-0"	B2 (1'-0" X 1'-6")	3-Y16(TO); Y10 @ 6" C/C; 3-Y20(TO)+ 2-Y20(EX); 1'-6"; 1'-0"	3-Y16(TO)+ 2-Y16(EX); Y10 @ 6" C/C; 3-Y20(TO); 1'-6"; 1'-0"
B3 (1'-0" X 1'-6")	3-Y16(TO); Y10 @ 6" C/C; 3-Y16(TO)+ 3-Y16(EX); 1'-6"; 1'-0"	3-Y16(TO)+ 3-Y16(EX); Y10 @ 6" C/C; 3-Y16(TO); 1'-6"; 1'-0"	B4 (1'-0" X 1'-6")	3-Y16(TO); Y10 @ 6" C/C; 3-Y20(TO)+ 2-Y20(EX); 1'-6"; 1'-0"	3-Y16(TO)+ 2-Y16(EX); Y10 @ 6" C/C; 3-Y20(TO); 1'-6"; 1'-0"

ISSUE for APPROVAL

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) COLUMN = 1½" b) BEAM = 1"
   c) SLAB = ¾"
5. THIS DRG. READ IN CONJECTION WITH ARCH DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY.
7. DEVELOPMENT LENGTH (LD) SHALL BE AS PER (SP 34-1999) TABLE BELOW.

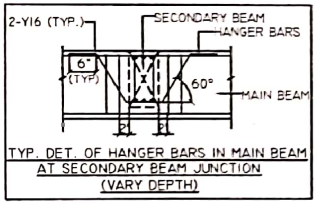
DEVELOPMENT LENGTH FOR COLUMNS	= 40Ø
DEVELOPMENT LENGTH FOR BEAMS	= 50Ø

8. DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS:13920.

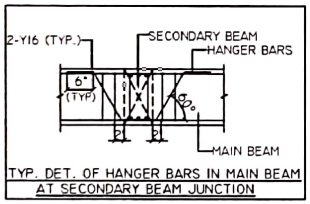


TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION

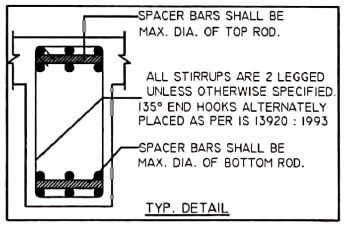
BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	1'-0" X 1'-6"
02	B2	1'-0" X 1'-6"
03	B3	1'-0" X 1'-6"
04	B4	1'-0" X 1'-6"



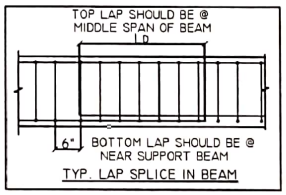
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)



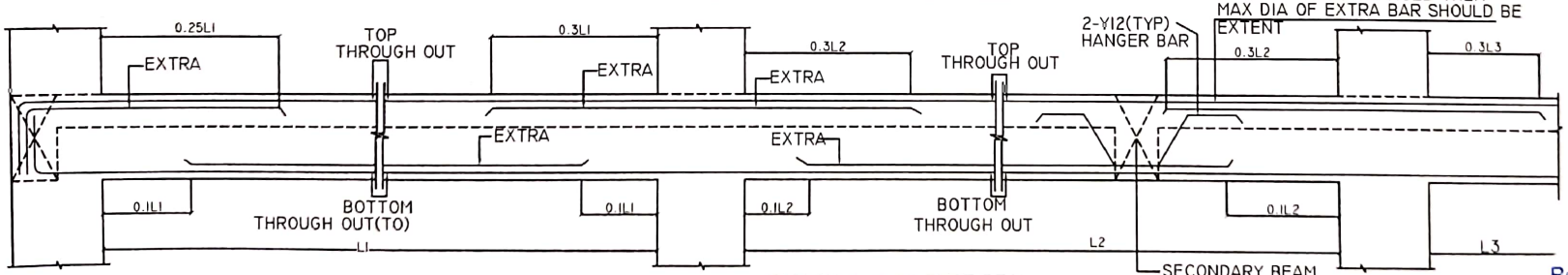
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION



TYP. DETAIL



TYP. LAP SPLICE IN BEAM



TYPICAL L.S OF ROOF BEAM

NO.	ISSUED FOR APPROVAL	P.D	S.A	
REV	DESCRIPTIONS	DRN	CHK	DATE

PROJECT

TITLE

DATE	SCALE	JOB NO.	DRG NO.
			05

ARCHITECT

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A3

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