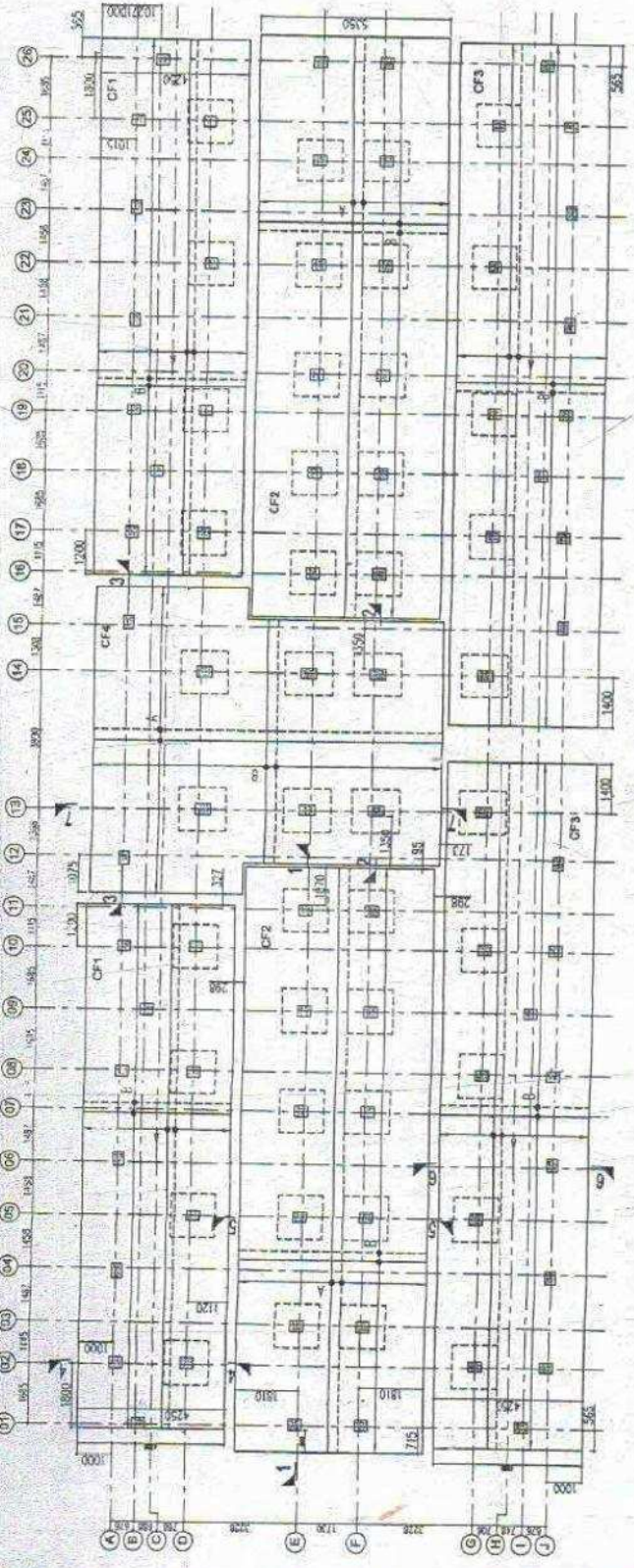


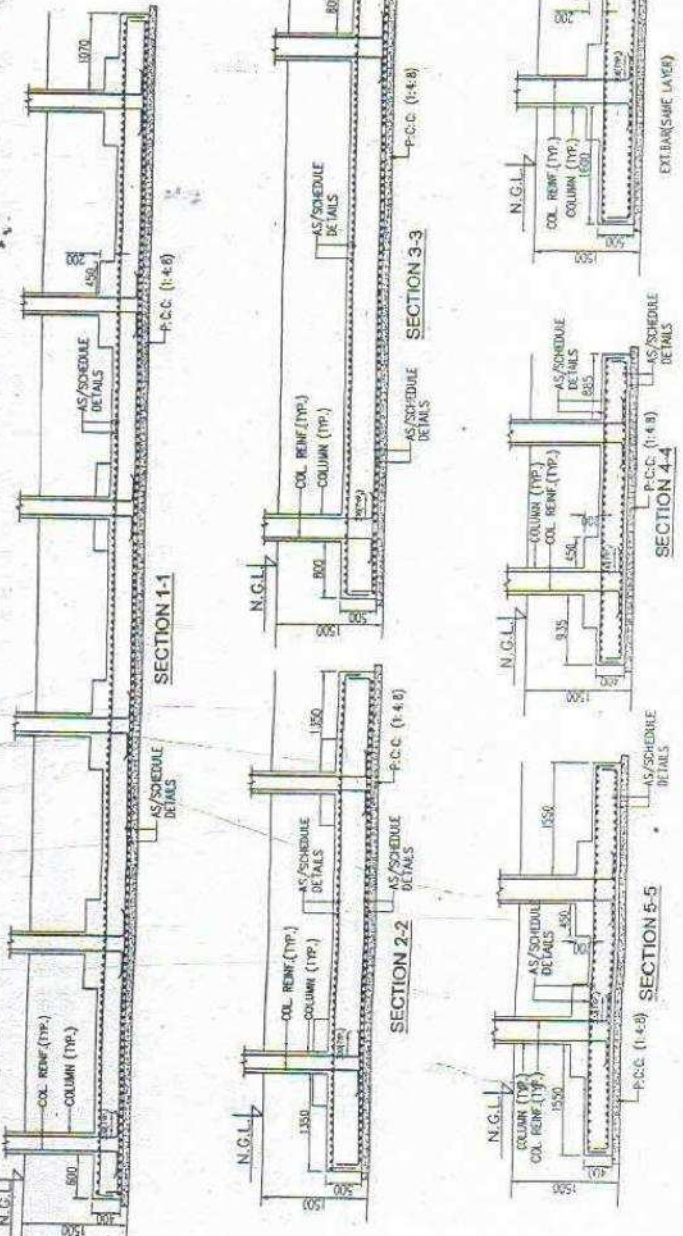
- NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & SERVICES DGS.
 - THIS BLDG. IS DESIGNED FOR G+3 ONLY.
 - SAFE BEARING CAP. IS TAKEN AS 80 T/M UP TO 1.5 M DEP.
 - ALL LOOSE POCKETS FOUND IN EXCAVATION SHALL BE REPLACED BY LEAN CONC. (1:4:8).
 - CONC. MIX. RATIO SHALL BE USED FOR ALL RCC WORK UNLESS OTHERWISE SPECIFIED.
 - CLEAR COVER TO OUTER BARS SHALL BE AS FOLLOWS: IN FTCS-50, COLS.-40, BEAMS-25, SLABS = 20MM.
 - UP LENGTH FOR ALL BARS SHALL BE 4X DN OF BARS.
 - HIGH STRENGTH DEFORMED BARS OF YIELD STRENGTH 500 N/mm² SHALL BE USED AS REINF. FOR ALL RCC WORK.
 - FOR DESIGN PURPOSES SEISMIC ZONE IV AS PER IS 1893 IS CONSIDERED.

THICKNESS 400/500MM THR. UNO
TOP BARS SHOWN AS _____
BOTTOM BARS SHOWN AS _____



FOOTING SCHEDULE

S.NO. MARKED	CONCRETE DIMENSION		DEPTH (D)	REINF. PARALLEL TO TOP		REMARK
	LONG SIDE (A)	SHORT SIDE (B)		LONG SIDE (A)	SHORT SIDE (B)	
1.	CF1	14400	450	12@150 C/C	12@100 C/C	12@100 C/C
2.	CF2	16200	400	12@150 C/C	12@100 C/C	12@100 C/C
3.	CF3	19050	400	12@150 C/C	12@100 C/C	12@100 C/C
4.	CF4	AS/PLAN	500	12@150 C/C	16@150 C/C	16@150 C/C



PROJECT TITLE : -
PROPOSED 48 UNIT EWS HOUSES AT MANDOLA VIHAR UNDER PRIME MINISTER AVAS YOJNA IN GHAZIABAD, U.P.

CLIENT :
UPAVP

ARCHITECT :
UPAVP

STRUCTURAL CONSULTANT :
PERCEPTIONS

SCALE: 1/100
DATE: 12/01/14

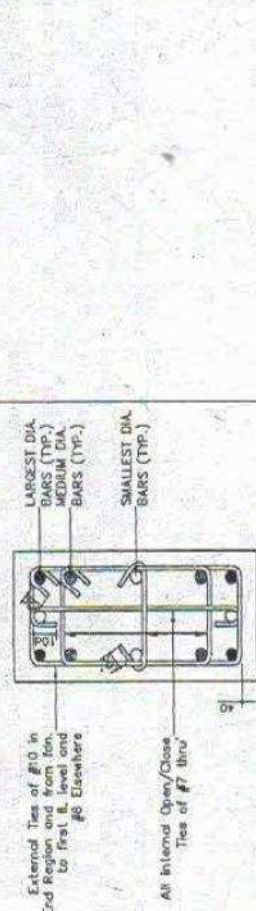
FOUNDATION PLAN & DETAIL
DRAWING NO. S/02

88

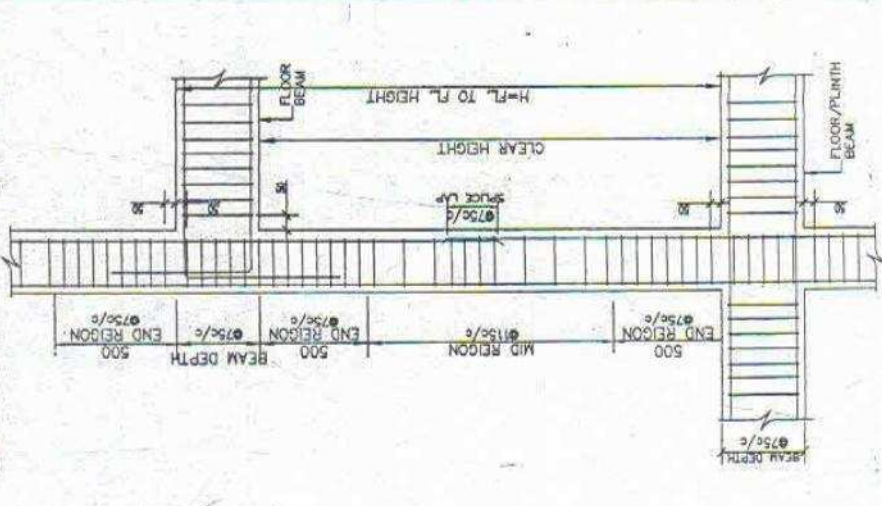
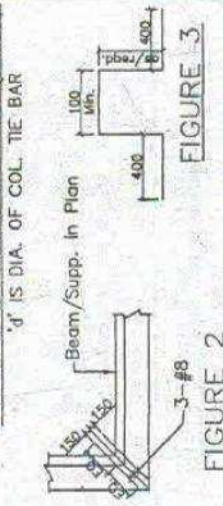
J-E

A-E

E-E



TYPICAL COLUMN DETAIL (FIG.1)



COLUMN TIE AND SPLICE DETAIL AND COL. BEAM CONNECTION

- 9.0. MAIN REINFORCEMENT IN COLUMNS. (REFER FIG. 1)
- 9.1 ALL INTERNAL CLOSE AND OPEN TIES ARE OF #8 BARS.
- 9.2 ALL EXTERNAL CLOSE TIES, IN END REGION ONLY AND FROM FOUNDATION LEVEL TO PLINTH LEVEL ARE OF #10
- 9.3 ALL EXTERNAL CLOSE TIES IN THE MID REGION ARE OF #8
- 9.4 TIES IN THE END REGION OF ALL THE COLUMNS SHALL BE SPACED @75% AND THE SAME SHALL BE PROVIDED IN THE BEAM DEPTH REGION AS WELL.
- 9.5 TIES IN THE MIDDLE REGION OF ALL THE COLUMNS SHALL BE SPACED @115%/c.
- 9.6 4 SETS OF TIES SHALL BE PROVIDED IN TOP 300 DEPTH OF FOUNDATION.
- 10.0 REINFORCEMENT IN BEAMS
- 10.1 NOT MORE THAN 50% OF BARS SHALL BE SPICED AT ONE SECTION IN BEAMS.
- 10.2 LAP LENGTH IN BEAMS SHALL NOT BE LESS THAN DEVELOPMENT LENGTH OF BARS IN TENSION.
- 10.3 STIRRUPS SPACING IN ENTIRE SPICE LENGTH SHALL NOT EXCEED 150mm CENTERS TO CENTERS.
- 10.4 LAPS SHALL NOT BE PROVIDED IN A BEAM, WITHIN A DISTANCE OF 2d FROM JOINT FACE.
- 11.0 REINFORCEMENT IN SLABS
- 11.1 RESPECTIVE OF WHAT IS SHOWING/MISSING IN THE DRAWINGS MINIMUM MAIN REINFORCEMENT AT BOTTOM OF SLAB SHALL BE #10@200/C BOTH WAYS IN A TWO WAY SLAB AND IN CASE OF ONE WAY SLAB (LENGTH WIDTH RATIO EXCEEDING 2.0) NOT LESS THAN #10@200/C ALONG SHORT SPAN.
- 11.2 AT THE CORNERS OF ALL ORTHOGONAL PROJECTIONS OF SLABS/CHAJAS UP TO 600MM, #NOS. 8 DIA. BARS SHALL BE PROVIDED DIAGONALLY AT TOP AS SHOWN IN FIGURE 2.
- 11.3 IN SLABS REINFORCEMENT BOTTOM BARS HAS BEEN SHOWN IN DASHED LINES AND TOP BARS IN CONTINUOUS LINES.
- 11.4 TOP BARS IN SLABS NEAR SUPPORTS SHALL BE SUPPORTED ON POSITION CHAIRS (REFER FIGURE 3) @ 1 NO. PER SQ.M. AREA IN WHICH BARS HAS BEEN CHAIRS.
- 11.5 WHEREVER HALF BRICK WALL RESTS OVER SLAB 2 NOS. #12 EXTRA BARS SHALL BE PROVIDED UNDER THE WALL, AT THE BOTTOM OF SLAB THROUGHOUT THE LENGTH OF SPAN OF SLAB.
- 11.6 THE ABBREVIATION "TBY" USED IN DESCRIBING REINF. IN SLABS MEANS REINF. BOTH AT TOP AND BOTTOM FACE OF SLAB.
- 11.7 SLAB THICKNESS HAS BEEN INSCRIBED IN CIRCLES.
- 12.0 REINFORCEMENT SYMBOL
- 12.1 REINFORCEMENT IS EITHER REPRESENTED BY 2 NOS. SEPARATED BY HYPHEN, FIRST NUMBER INDICATES NOS. OF BARS AND SECOND NUMBER WITH 'c' SIGN AS SUFFIX INDICATES DIA. OF DEFORMED REINF. BAR.
- 13.0 FORM WORK
- 13.1 THE DESIGN AND DETAILING OF FORM WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS:14687 (LATEST EDITION).
- 13.2 THE STRIPPING TIME FOR THE FORM WORK SHALL BE FOLLOWED AS PER IS:4556-2009.
- 13.3 ALL FORM WORK SHALL BE REMOVED WITHOUT SUCH STROKE OR VIBRATIONS AS ARE LIKELY TO DAMAGE REINFORCED CONCRETE.
- 13.4 THE CENTRING SUPPORTING OVERHANGS OF BEAMS, SLABS, CHAJAS, CANOPY AND LIKE MUST BE RETAINED TILL MINIMUM COUNTERWEIGHT OVER THE BEARING HAS BEEN ATTAINED.
- 13.5 IN CASE OF CANOPIES WITH CANTILEVER BEAMS, THE CENTERING OF CANOPY SLAB IN BETWEEN THE BEAMS SHALL BE REMOVED EARLIER THAN THE PROJECTED CANTILEVER PORTION OF CANOPY.
- 13.6 SHUTTERING OF CANTILEVER SLABS AND BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

- 1.0. GENERAL NOTE:-
- 1.1 ALL DIMENSIONS SHALL BE COMPARED WITH RELEVANT ARCHITECTURAL DRAWINGS AND DISCREPANCY, IF ANY, SHALL BE RECONCILED BEFORE EXECUTION.
- 1.2 FIGURED DIMENSIONS ONLY SHALL BE FOLLOWED.
- 1.3 ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- 1.4 THE SPECIFIED DEPTH OF BEAM/PLINTH SHALL BE INCLUSIVE OF SLAB THICKNESS, IF PROVIDED WITH SLAB.
- 1.5 DURING CONSTRUCTION THE EFFECT OF ALL TYPES OF CONSTRUCTION ACTIVITIES AND LOADS OR ANY OTHER INCIDENTAL ADVERSE PRECIPITATION ON THE STRUCTURAL ELEMENTS SHALL BE TAKEN CARE OF BY ADEQUATE PRECAUTION MEASURES.
- 2.0 LEVELS
- 2.1 ALL SHOWN IN THE STRUCTURAL DRAWINGS ARE FINISHED LEVELS CORRESPONDING TO THE ARCHITECTURAL LEVELS. FOR CALCULATING SHUTTERING/CASTING LEVELS APPROPRIATE MARGIN FOR FLOORING/FINISHING SHALL BE DEDUCTED/ADDED, AS THE CASE MAY BE, TO THE LEVELS GIVEN IN THE DRAWINGS.
- 3.0 FOUNDATION
- 3.1 FOUNDATION DESIGN HAS BEEN CARRIED CONSIDERING NET SAFE LOAD BEARING CAPACITY OF SOIL AT 150MM BELOW EXISTING GROUND LEVEL AS MENTIONED IN FOUNDATION PLAN OF BUILDING BLOCK OF EACH TYPE.
- 3.2 FOUNDATION BASE LEAN CONCRETE SHALL BE OF MIX 1:1.5:3 (1 CEMENT : 4 COARSE SAND : 8 GRADED STONE AGGREGATE).
- 3.3 STANDARD 1" BEND - 150 LONG SHALL BE PROVIDED AT THE END OF ALL REINFORCING BARS IN FOOTINGS.
- 4.0 CONCRETE MIX.
- 4.1 MIX OF CONCRETE FOR ALL RCC WORKS SHALL BE M-20 UNLESS OTHERWISE SPECIFIED.
- 4.2 CONCRETE MIX. IN COLUMNS SHALL BE AS SPECIFIED IN COLUMN SCHEDULE.
- 5.0 REINF. STEEL
- 5.1 ALL REINFORCEMENT BARS SHALL BE THERMO MECHANICALLY TREATED STEEL BARS OF Fe-250 GRADE CONFORMING TO RELEVANT LATEST BIS STANDARDS.
- 6.0 COVER TO REINF.
- 6.1 CLEAR COVER (IN MILLIMETERS) TO MAIN REINFORCEMENT BARS FOR R.C.C. MEMBERS SHALL BE AS UNDER:-

• FOOTING BOTTOM FACE	75
• FOOTING SIDES AND TOP FACE	50
• COLUMNS	40
• BEAMS	25
• SLABS	20
- 6.2 FOR FACES OF MEMBERS/ELEMENTS LIKELY TO BE IN CONTACT WITH EARTH CLEAR COVER TO MAIN REINF. SHALL BE 50MM OR AS SPECIFIED ABOVE, WHICHEVER IS MORE.
- 7.0 LAP LENGTH AND 'L' HOOK TO STEEL REINF. BARS
- 7.1 LAP LENGTH FOR STEEL REINFORCEMENT BARS SHALL BE AS UNDER:-

MIX OF CONCRETE	M-20	REMARKS
TENSION BAR	56.6D	Where 'D' is the Dia. of Steel Bar
COMPRESSION BAR	45.3D	
- 7.2 IN CASE OF BARS OF UNEQUAL DIAMETER LAP LENGTH SHALL BE DETERMINED AS PER THE DIAMETER OF HEAVIER BAR.
- 7.3 STANDARD 1" HOOK/STANDARD 90° BEND SHALL BE PROVIDED AT THE ENDS OF ALL REINFORCING BARS.
- 8.0 MAIN REINFORCEMENT IN COLUMNS
- 8.1 NOT MORE THAN 50% OF BARS SHALL BE SPICED AT ONE SECTION IN COLUMNS. LAP SPICES SHALL BE IN CENTRAL HALF OF COLUMN LENGTH AND SHALL BE PROPORTIONED AS TENSION SPICE.
- 8.2 TIES SPACING IN ENTIRE SPICE LENGTH IN COLUMN SHALL NOT EXCEED 150mm CENTRE TO CENTRE.
- 8.3 FOR COLUMNS ABOVE TERRACE LEVEL SAME REINFORCEMENT AS PROVIDED UP TO TERRACE LEVEL SHALL BE CONTINUED UNLESS OTHERWISE SHOWN/SPECIFIED.

J.E
A.E
E.E

	RIVISION			
PROJECT TITLE :- PROPOSED 148 UNIT EWS HOUSES AT MANDOLA VHAR UNDER PRIME MINISTER AVAAS YOJNA IN CHAZIABAD, U.P.				
CLIENT:				
ARCHITECT:				
STRUCTURAL CONSULTANT :- PERCEPTIONS 11/15 SECTOR-1, VAISHNAWA, GHAZIABAD 09826111111 - perceptions_engg@gmail.com				
TITLE GENERAL NOTES AND NOTATIONS		SCALE: 1:100	DATE	REV
		DATE	BY	CHKD
		DATE	BY	APPD
		DATE	BY	REV
DRAWING NO. 15/03				

NO NOTES

1. THIS DRC SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & SERVICES DWGS.
2. THIS BLDG. IS DESIGNED FOR G+3ONLY.
3. SAFE BEARING CAP. IS TAKEN AS 60 T/M² TO 1.5M DEP.
4. ALL LOOSE POCKETS FOUND IN EXCAVATION SHALL BE REPLACED BY LEAN CONC. (1:4).
5. CONC. MIX M-20 SHALL BE USED FOR ALL RCC WORK UNLESS OTHERWISE SPECIFIED.
6. CLEAR COVER TO OUTER BARS SHALL BE AS FOLLOW:- IN FT/35-50, COLS-40, BEAMS-25, SLABS-20MM.
7. LAP LENGTH FOR ALL BARS SHALL BE 47X DIA OF BARS.
8. HIGH STRENGTH DEFORMED BARS OF YIELD STRENGTH 500 N/mm² SHALL BE USED AS REINF. FOR ALL RCC WORK.
9. FOR DESIGN PURPOSES SEISMIC ZONE-IV AS PER IS1893 IS CONSIDERED.

PROJECT TITLE :-
 PROPOSED 48 UNIT EWS HOUSES AT MANDOLA
 KHAR UNDER PRIME MINISTER AVAAS YOJNA
 IN GHAZIABAD, U.P.

CLIENT:
 UPAPV
 UTTAR PRADESH APARTMENT
 SOCIETY
 VILLAGE MANDOLA, GHAZIABAD, U.P.

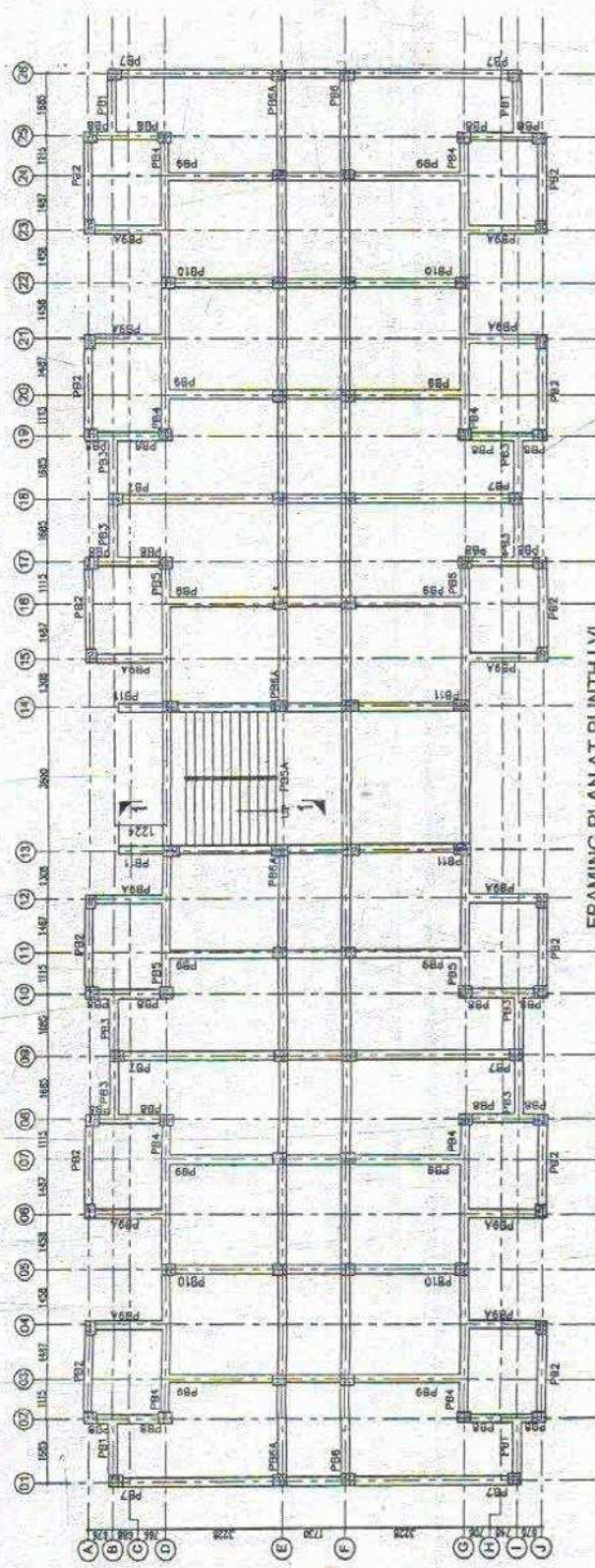
ARCHITECT:
 UPAPV
 ADDITIONAL APARTMENT SOCIETY
 VILLAGE MANDOLA, GHAZIABAD, U.P.

STRUCTURAL CONSULTANT :-
PERCEPTIONS
 111, TANKA MANSION, VAISHALI, GHAZIABAD, U.P.

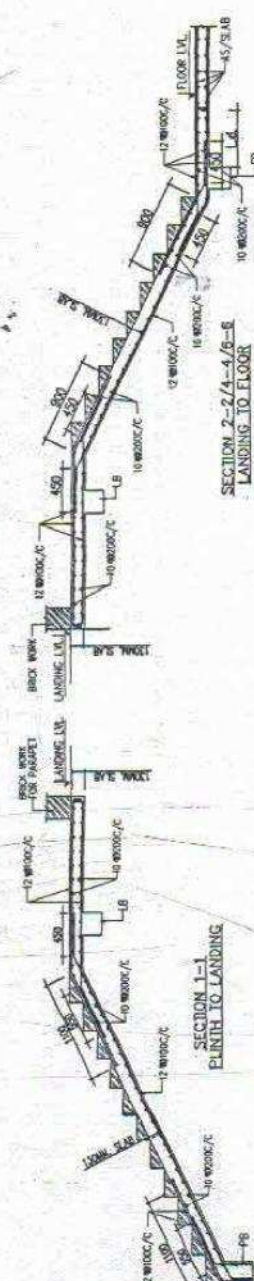
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 DATE: 21/07/24

FRAMING PLAN AT PLINTH LVL.
 STAIR CASE PLAN & DETAIL

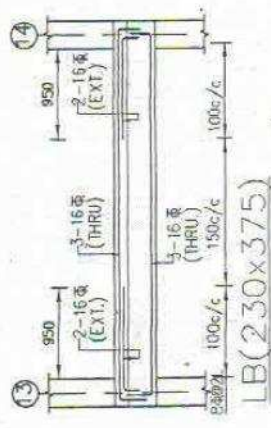
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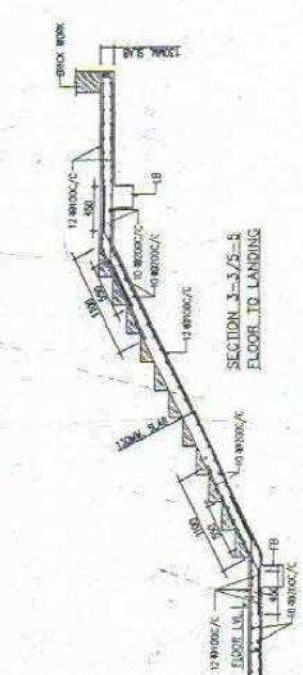
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 ALL BEAMS ARE 230 X 350



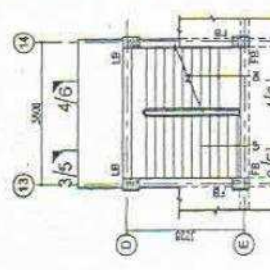
SECTION 1-1
 PLINTH TO LANDING



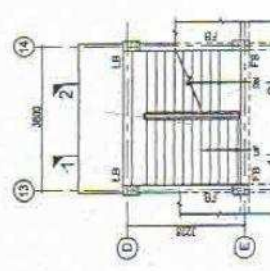
SECTION 2-2/4-4/8-8
 LANDING TO FLOOR



SECTION 3-3/5-5
 FLOOR TO LANDING



SECTION 13-13/14-14
 FLOOR LVL TO LANDING LVL



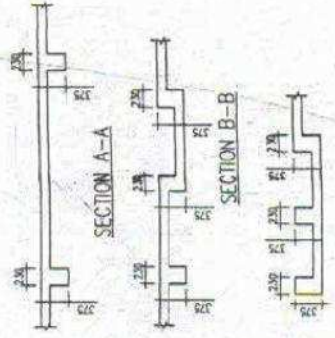
SECTION 13-13/14-14
 LANDING LVL TO FLOOR LVL

J.F

E.E

A.E

- NOTES
- THIS DRAWING SHALL BE READ IN CONNECTION WITH RELEVANT ARCH. & SERVICES DRS.
 - THIS BLDG. IS DESIGNED FOR CH ONLY.
 - SAFE BEARING CAP. IS TAKEN AS 3.0 DM TO 1.0 DM ESP.
 - ALL LOOSE ROCKETS FOUND IN EXCAVATION SHALL BE REPLACED BY LEAN CONC. (1:4:8)
 - CONC. MIX. RATIO SHALL BE USED FOR ALL RCC WORK UNLESS OTHERWISE SPECIFIED.
 - CLEAR COVER TO OUTER BARS SHALL BE AS FOLLOWS:
IN FTGS-50, 75, 100, 125, 150, 175, 200MM
 - LAP LENGTH FOR ALL BARS SHALL BE 47X DIA. OF BARS.
 - HIGH STRENGTH DEFORMED BARS OF YIELD STRENGTH 500 N/mm² SHALL BE USED AS REINF. FOR ALL RCC WORK
 - FOR DESIGN PURPOSES SEISMIC ZONE-IV AS PER IS1863 IS CONSIDERED.



NO.	REVISION	DATE

PROJECT TITLE :-
PROPOSED 48 UNIT EWS HOUSES AT MANDOLA
MHAR UNDER PRIME MINISTER AVAS YOUNA
IN CHAZIABAD, U.P.

CLIENT: **UPA/P**
UPA/P
CHAZIABAD, U.P.

ARCHITECT: **PERCEPTIONS**
STRUCTURAL CONSULTANT
11/43 SECTOR-11, VA PRADEEP, GHAZIABAD
UPA/P
CHAZIABAD, U.P.

SCALE: SHEET DATE
1:50 20/01/24

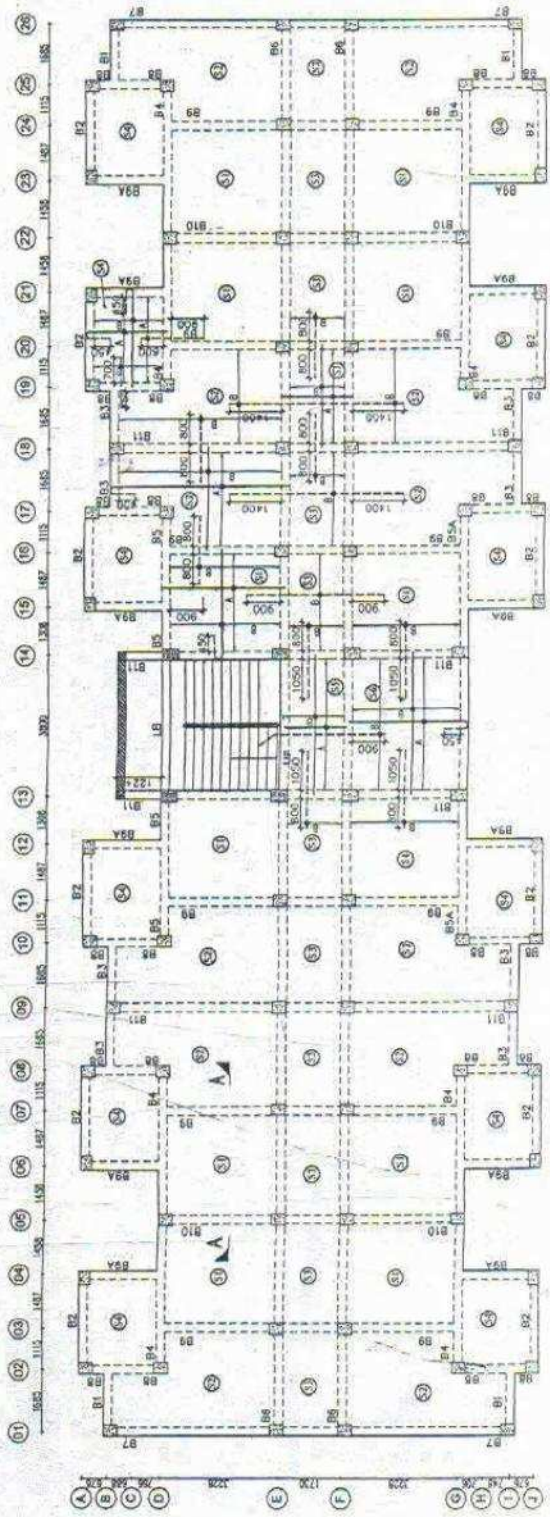
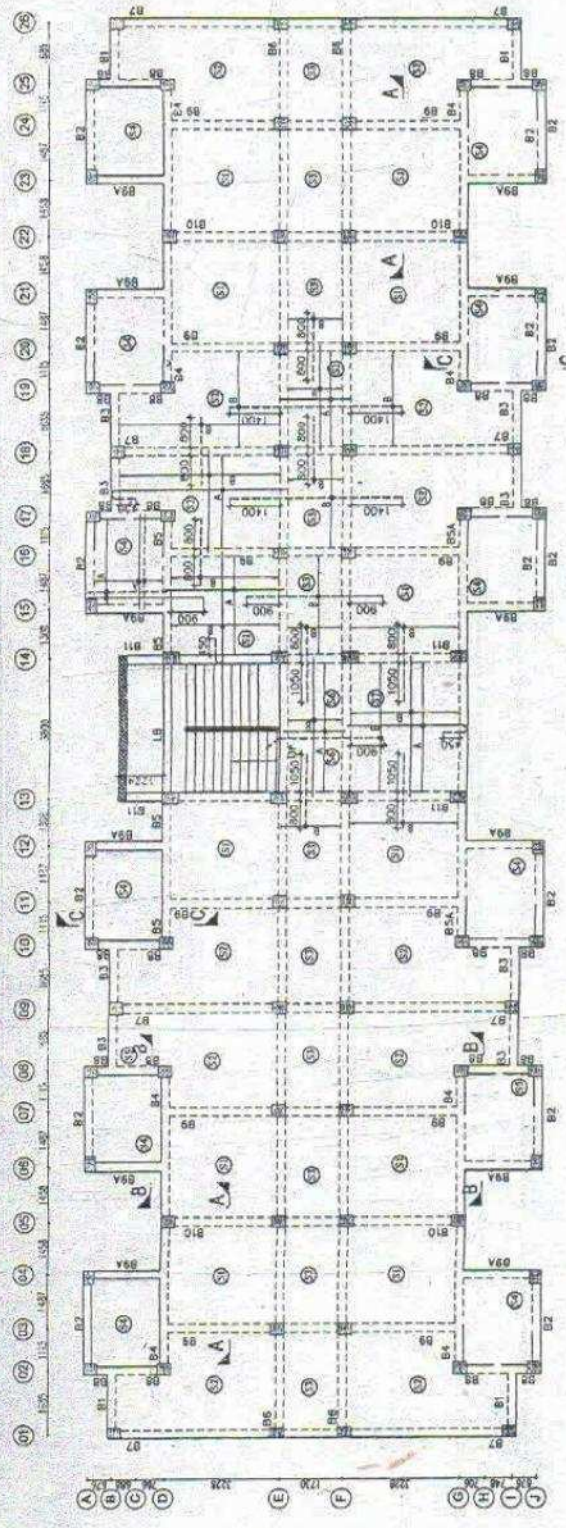
TITLE: FRAMING PLAN AT TYPICAL & TERRACE FLOOR LVL.

DRAWING NO. | S/O6

SCHEDULE OF SLAB REINF.

BAR MARKED	DIA. & SPACING
A	8 @ 200/C
B	8 @ 200/C

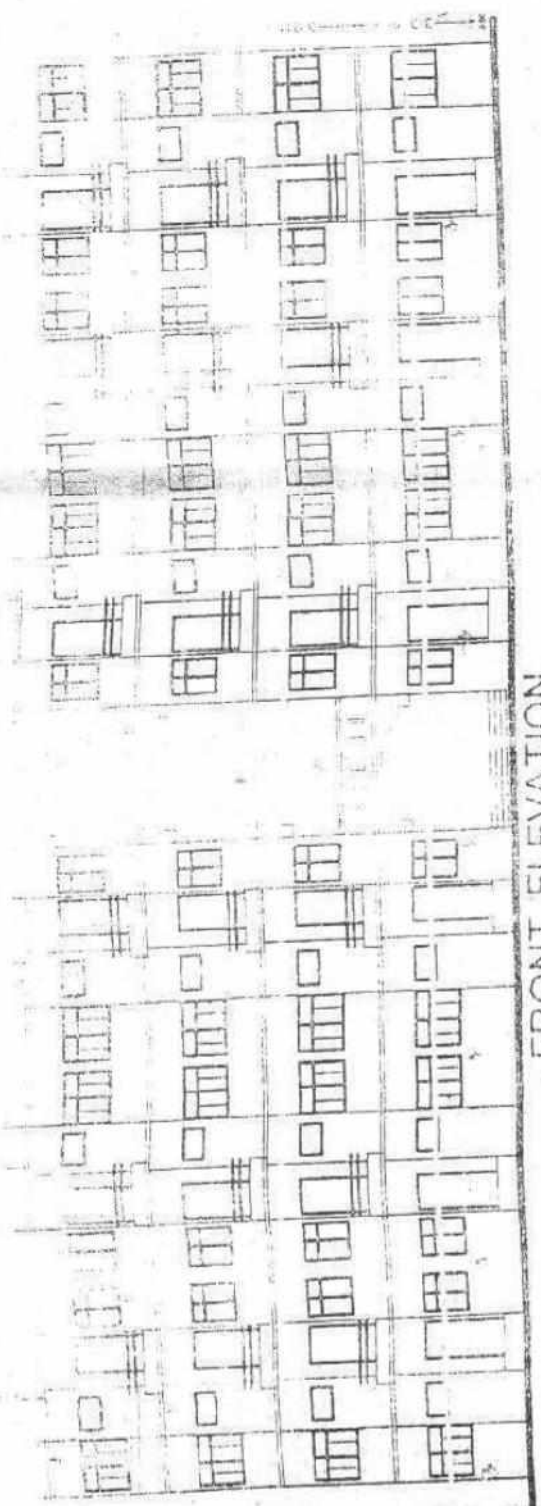
SLAB THICKNESS 100 THK. U.N.O.
TOP BARS SHOWN AS
BOTTOM BARS SHOWN AS
ALL DISTRIBUTION STEEL SHALL BE
8@200/C WHEREVER REQD.



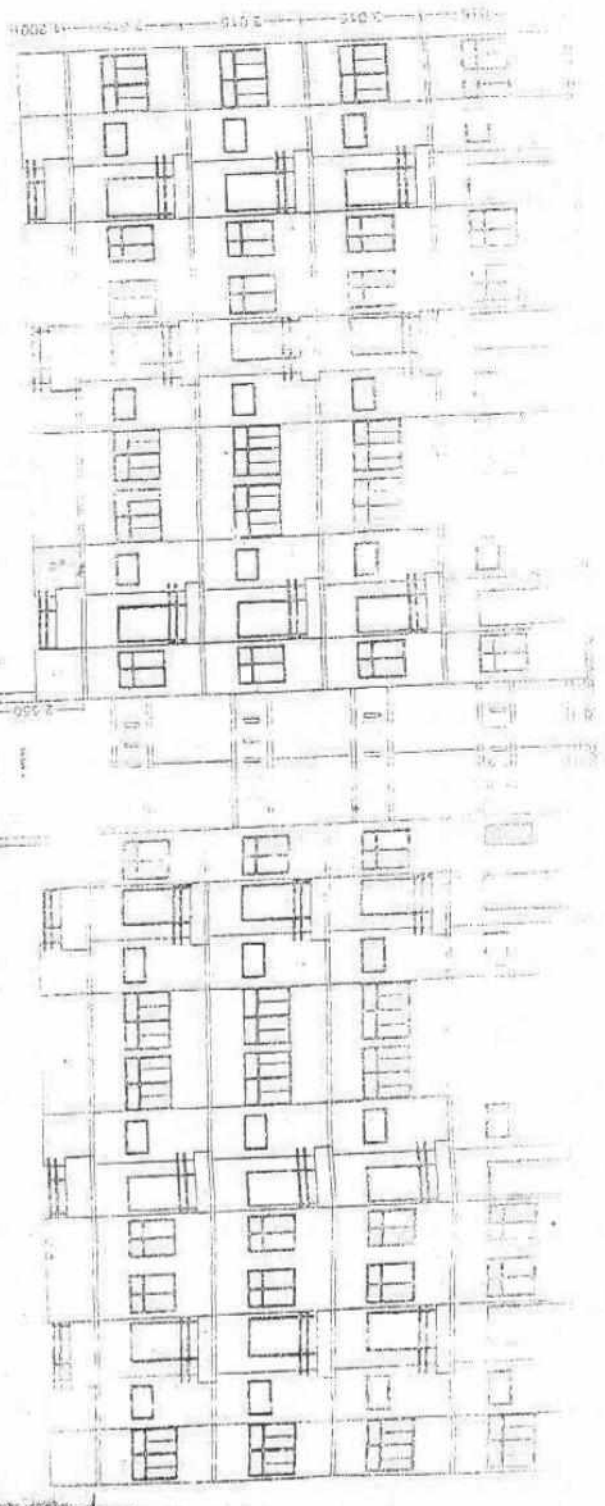
J.E

A.E

E.E



FRONT ELEVATION



1. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 2. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 3. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 4. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 5. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 6. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 7. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 8. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 9. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 10. THE ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.

ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 DATE: 15/05/2018
 DRAWING: 15/05/2018

ARCHITECTURE & PLANNING UNIT 5
 U.P.A. / S.T. VAMVIKAS PARISHAD GZB.
 DATE: 15/05/2018
 DRAWING: 15/05/2018

