STRUCTURAL NOTES:

A. GENERAL:

- I. ALL STRUCTURAL MATERIALS MUST BE TESTED & CHECKED.
 TESTING SHALL BE DONE IN PRESENCE OF CONSULTANCY REPRESENTATIVE.
- THE REPORTS OF TESTED MATERIALS MUST BE SUBMITTED TO THE CONSULTING OFFICE AND WRITTEN APPROVAL MUST BE TAKEN BEFORE USING THOSE MATERIALS AT SITE.
- 3. READ STRUCTURAL DRAWING IN CONJUNCTION WITH ARCHITECTURAL, SANITARY & ELECTRICAL DRAWING. REPORT ANY DISCRIPENCIES TO THE SITE ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION. ANY CONFLICT BETWEEN SPECIFICATION & DRAWING SHALL BE LIKEWISE REPORTED.
- 4. CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING FIELD DIMENSION AND SITE CONDITIONS
- 5. NO MEASUREMENT SHALL BE DIRECTLY TAKEN FROM THE PRINT, WRITTEN DIMENSIONS SHALL BE FOLLOWED.

B. FOUNDATION:

- SLOPE STABILITY SHOULD BE CHECKED BEFORE CONSTRUCTION OF FOUNDATION
- 2 FOUNDATION SHALL BE ON LINDISTRUBED SOIL
- 3. SOIL BEARING CAPACITIES SHALL BE VERIFIED IN THE FIELD, NOTIFY

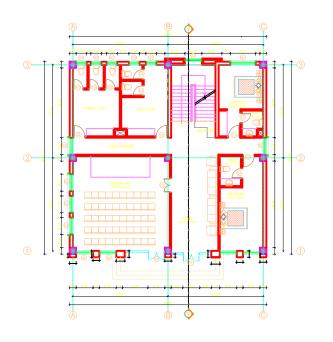
 ENGINEER IMMEDIATELY OF ANY SOFT POCKETS OR ADVERSE SOIL CONDITIONS
- 4. PLACING OF FOUNDATION CONCRETE SHALL BE DONE AS SOON AS

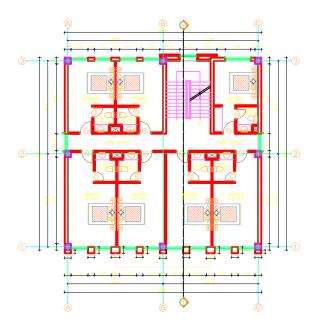
 EXCAVATIONS HAVE BEEN COMPLETED & APPROVED BY THE SITE ENGINEER
- SOIL TEST SHALL BE CONDUCTED AT SITE. SOIL BEARING CAPACITY SHOULD NOT BE LESS THAN 140 KN/m2 AS PER DESIGN ASSUMPTION.

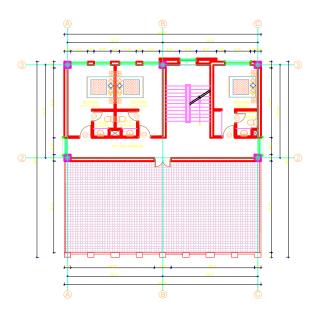
C. CONCRETE AND REINFORCING STEEL

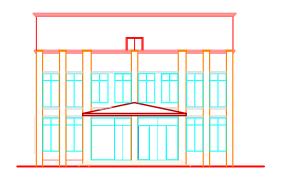
- CAST IN SITU CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE CUBE STRENGTH OF 20 Mpa AS SPECIFIED.
- a. USE M20 GRADE CONCRETE $\,$ IN ALL STRUCTURAL COMPONENTS $\,$
- 2. REINFORCING STEEL SHALL BE TMT STEEL BARS HAVING A MINIMUM STRENGTH OF 500 Mpa & CONFORMING TO IS 1786:1985
- 3. COVER TO MAIN REINFORCING STEEL BE IN ACCORDANCE WITH IS 456:1978 AND AS SPECIFIED ON STRUCTURAL DRAWINGS.
 - a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = 50 mm.
 - b. FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40 mm.
 - c. FOR MAIN BARS IN BEAMS = 25 mm
 - d. FOR OUTER BARS IN SLAB & STAIRCASE = 20 mm.
- 4. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT STEEL IN SLAB.
- 5. THE CEMENT USED SHALL BE ORDINARY PORTLAND CEMENT CONFORMING
 TO IS 11269:1987.
- 6. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN 50% ONLY AT A TIME / ALTERNATIVE FLOOR (JOINT).
- 7. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.
- DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS. Lap Length Shall Be 57 Times The Diameter Of Bar
- 9. PROVIDE SHEAR REINFORCEMENT OF 500 N/mm2 AT 100 mm C/C AT LAP LOCATIONS

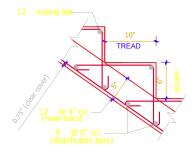
 SPACER BAR LOCATION AND COLUMN HAVING SHORT COLUMN EFFECT.

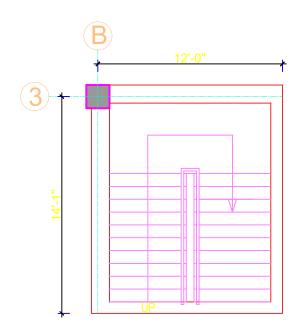


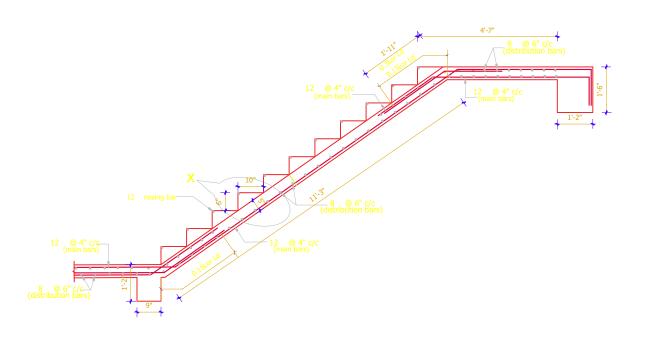


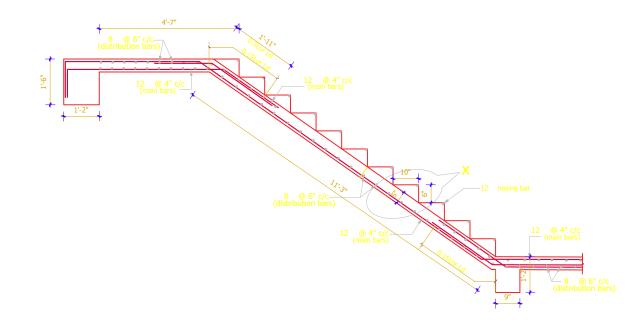


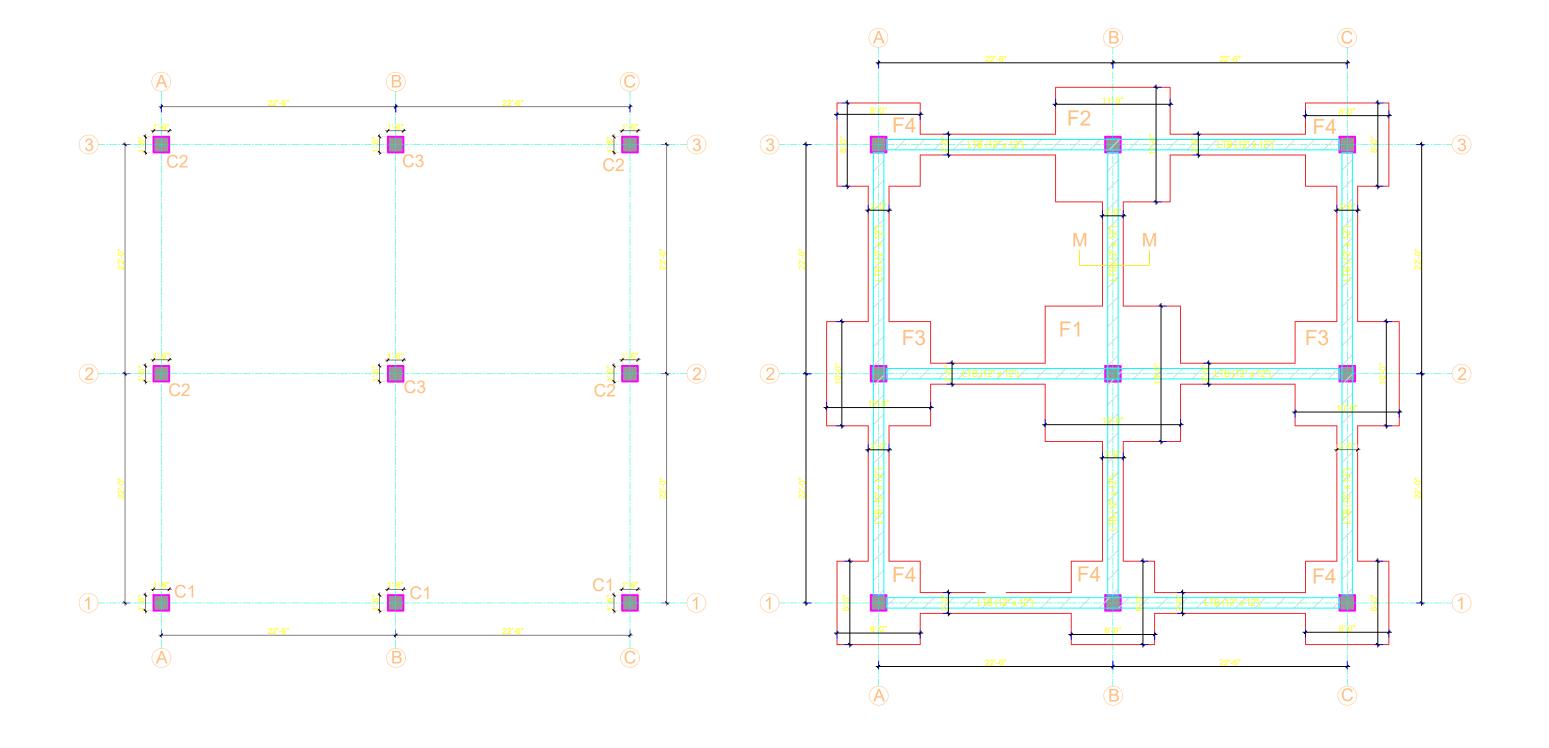








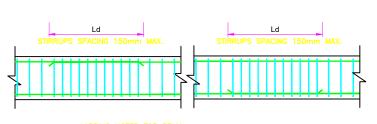




STIRRUPS (Lateral Ties)		IN (h+z) End Ties	8mmØ Stirrups @ 0'-4"c/c. 8mmØ	8mm∅ Stirrups @ 0'-4"c/c. 8mm∅	8mm∅ Stirrups @ 0'-4"c/c. 8mm∅
	N	IN (H-2h) Iiddle Ties	Stirrups @ 0'-4"c/c.	Stimups @ 0'-4"c/c.	Stimips @ 0'-4" <i>c c.</i>
UND FLOO			a a a a a a a a a a a a a a a a a a a	a a a a a a a a a a a a a a a a a a a	a a a a a a a a a a a a a a a a a a a
.00R		RETE ADE-M20 500 TMT COVER mm	1'-6" a a a a a a a a a a a a a a a a a a a	1'-6" a a a a a a a a a a a a a a a a a a a	11-6" a a a a a a a a a a a a a a a a a a a
O N		RETE ADE-M2O 500 TMT COVER mm		a b b a a b b a a b b a a b b a a b b a a b b a a b b a	a a a a a a a a a a a a a a a a a a a
COLUMN GRID NAME		ME	AI,BI,CI	A2,C2,A3,C3	B2,B3
COLUMN NAME			СІ	C2	С3

COLUMN SECTION PLAN

SCALE:1"=2'-0"



<u>rpping notes for beam</u> NP LENGTH SHALL NOT BE LESS THAN BAR DEVELOPMENT LENGTH

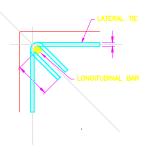
AP SPLICE SHALL NOT BE PROVIDED:-

1. WITHIN A JOINT
2. WITHIN A DISTANCE OF

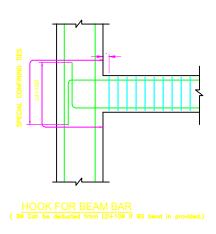
2. WITHIN A DISTANCE OF 2d FROM JOINT FACE

LAPING FOR BEAM BAR

SCALE=NTS

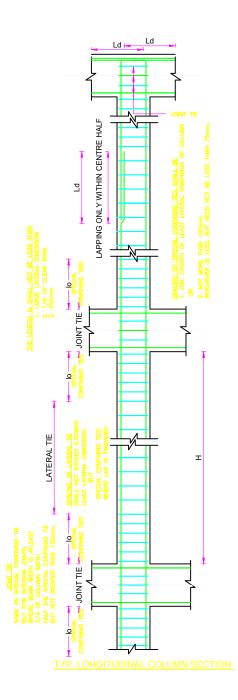


DETAIL A-135°HOOK DETAIL OR STIRRUPS & TIES



Development Length of Deformed Bar Fe=500 N/mm²

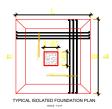
	57Ø	
	M20	
8mm		
10mm		
12mm	684	
16mm	912	
20mm		
25mm	1425	
32mm		

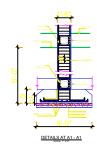






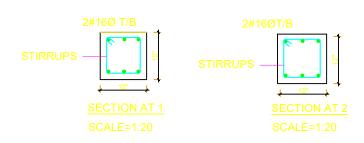
SHAPE OF TIES FOR COLUM

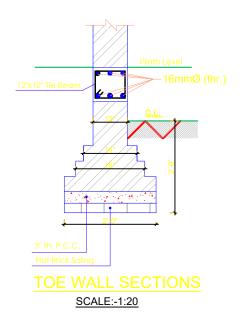


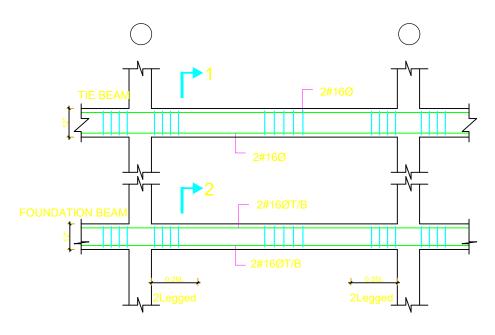


FOUNDATION DETAILS

Serial No.	Foundation. No.	Foundation Size (LXB)	Edge Thickness (d)	Total Thickness (D)	Rebar Distribution
1	FI	13'-0"X13'-0"		1'-10"	12 dia. 6" c\c- b\w
2	F2	11'-0"X11'-0"	10"	1'-6"	12 dia. 6" c\c- b\w
3	F3	10'-0"X10'-0"	10"	1'-6"	12 dia. 6" c\c- b\w
4	F4	8'-0"X8'-0"	8"	1'-2"	12 día. 6° c\c-b\w







TYP. UPPER TIE BEAM & FOUNDATION BEAM SECTION

