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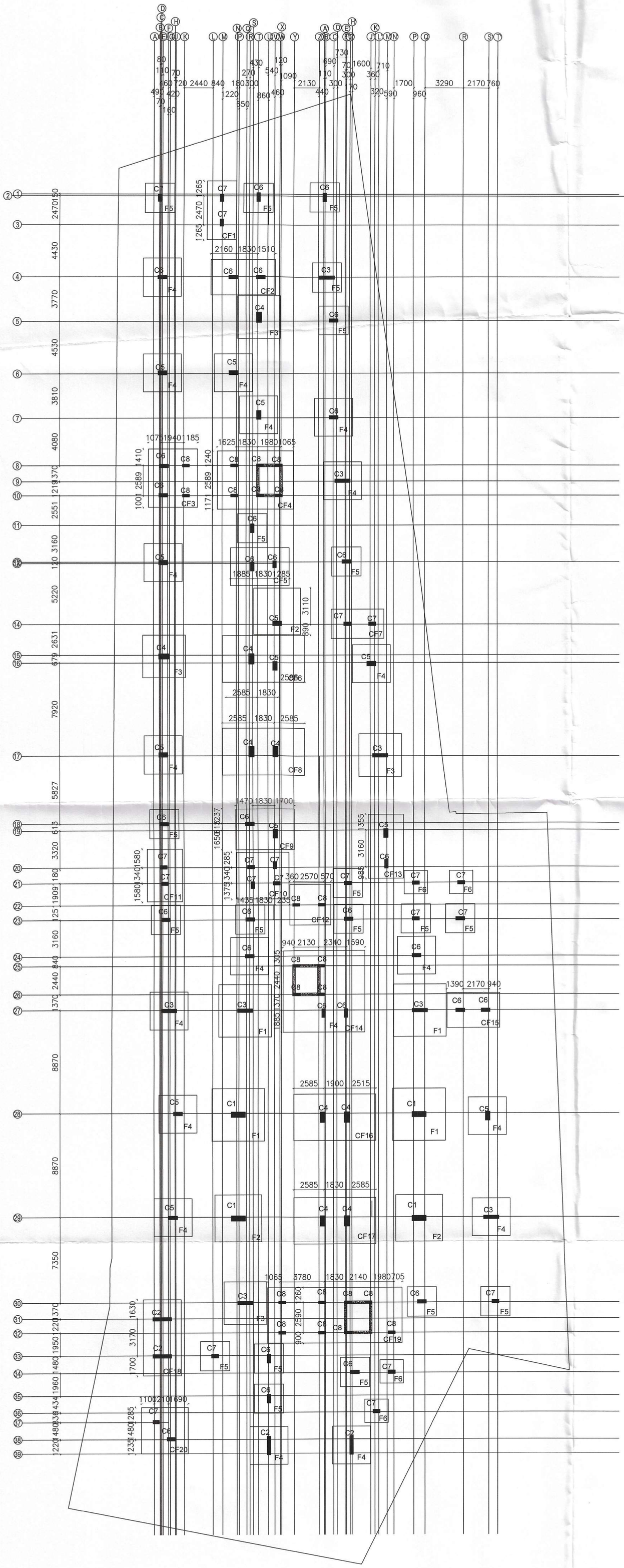
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996

Official Property Record

Digitally Verified Record - Powered by Verified RealEstate™





FOOTING LAYOUT

NOTES

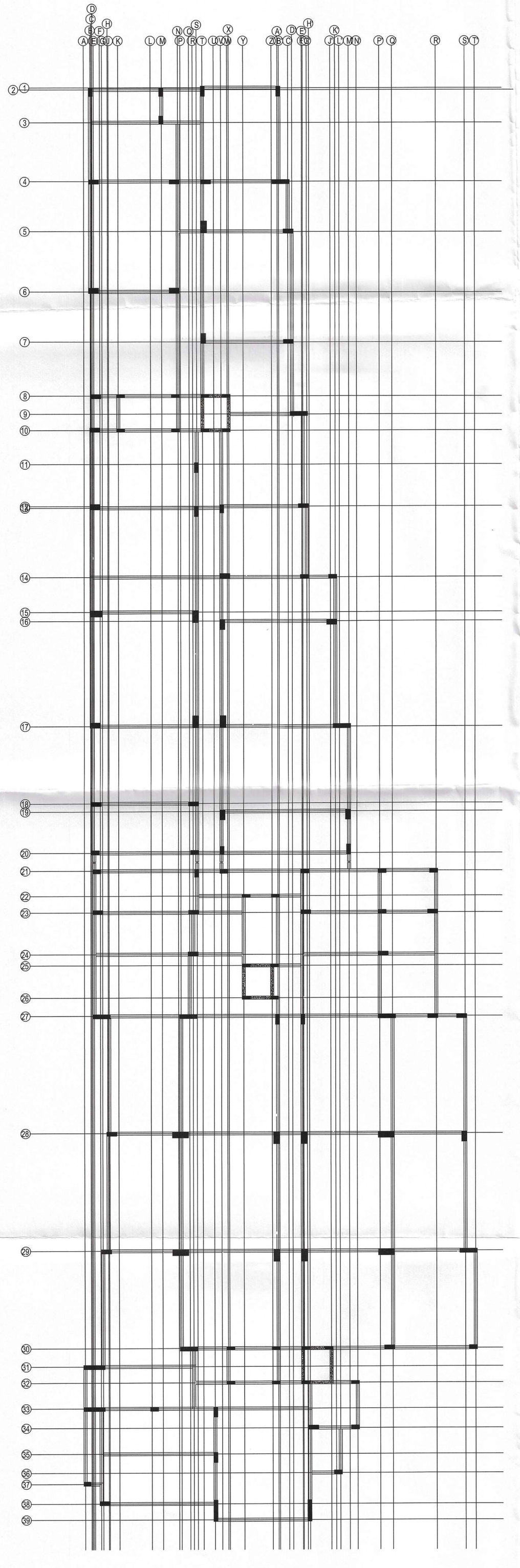
1. All dimensions are in mm.
2. Dimensions to be read, not scaled, and to be Checked with arch. dwg only.
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Footings 50mm
4. Use M30 Conc & Fe500 Steel.
5. SBC– taken as 30 T/sqm as per soil test report.
6. Foundation depth –3000 to 4000mm up to weathered Rock.
7. Foundation designed for Stilt+5 Flrs. only.
8. Leave dowels wherever necessary.

VERY IMPORTANT NOTE
DESIGNED FOR AAC BLOCK

FOUNDATION DETAILS (M30-Fe500)

TYPE	LENGTH	BREADTH	D	LONG BAR	SHORT BAR
F1	4500	4500	1200	16# @ 100 c/c	16# @ 100 c/c
F2	4000	4000	1200	16# @ 100 c/c	16# @ 100 c/c
F3	3650	3650	1000	16# @ 125 c/c	16# @ 125 c/c
F4	3250	3250	900	16# @ 150 c/c	16# @ 150 c/c
F5	2500	2500	700	12# @ 100 c/c	12# @ 100 c/c
F6	2000	2000	450	10# @ 150 c/c	10# @ 150 c/c
SF	1000	1000	300	10# @ 150 c/c	10# @ 150 c/c
CF1	5000	2500	700	12# @ 100 c/c(T&B)	10# @ 100 c/c(T&B)
CF2	5500	3000	900	16# @ 150 c/c(T&B)	12# @ 150 c/c(T&B)
CF3	5000	4200	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)
CF4	6500	5000	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)
CF5	5000	3250	900	16# @ 150 c/c(T&B)	12# @ 150 c/c(T&B)
CF6	7000	4000	1000	16# @ 125 c/c(T&B)	12# @ 125 c/c(T&B)
CF7	4500	2500	700	12# @ 100 c/c(T&B)	10# @ 100 c/c(T&B)
CF8	7000	4000	1000	16# @ 125 c/c(T&B)	12# @ 125 c/c(T&B)
CF9	5000	3500	700	12# @ 100 c/c(T&B)	10# @ 100 c/c(T&B)
CF10	4500	4000	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)
CF11	4500	3000	700	12# @ 100 c/c(T&B)	10# @ 100 c/c(T&B)
CF12	3500	3500	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)
CF13	5500	3000	900	16# @ 150 c/c(T&B)	12# @ 150 c/c(T&B)
CF14	7000	7000	900	16# @ 150 c/c(T&B)	16# @ 150 c/c(T&B)
CF15	4500	3000	700	12# @ 100 c/c(T&B)	10# @ 100 c/c(T&B)
CF16	7000	4000	1000	16# @ 125 c/c(T&B)	12# @ 125 c/c(T&B)
CF17	7000	4000	1000	16# @ 125 c/c(T&B)	12# @ 125 c/c(T&B)
CF18	6500	3250	900	16# @ 150 c/c(T&B)	12# @ 150 c/c(T&B)
CF19	11500	4500	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)
CF20	4000	4000	700	12# @ 100 c/c(T&B)	12# @ 100 c/c(T&B)

B.SRINIVASAN, B.E.,A.M.I.E, C.Engg.,
Structural Engineer Grade - II
CMDA Reg No.S.E/GR-II/19/08/152
176/311, ARCOT ROAD,
KODAMBAKKAM, CHENNAI-600 024

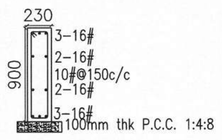


PLINTH BEAM LAYOUT

NOTES

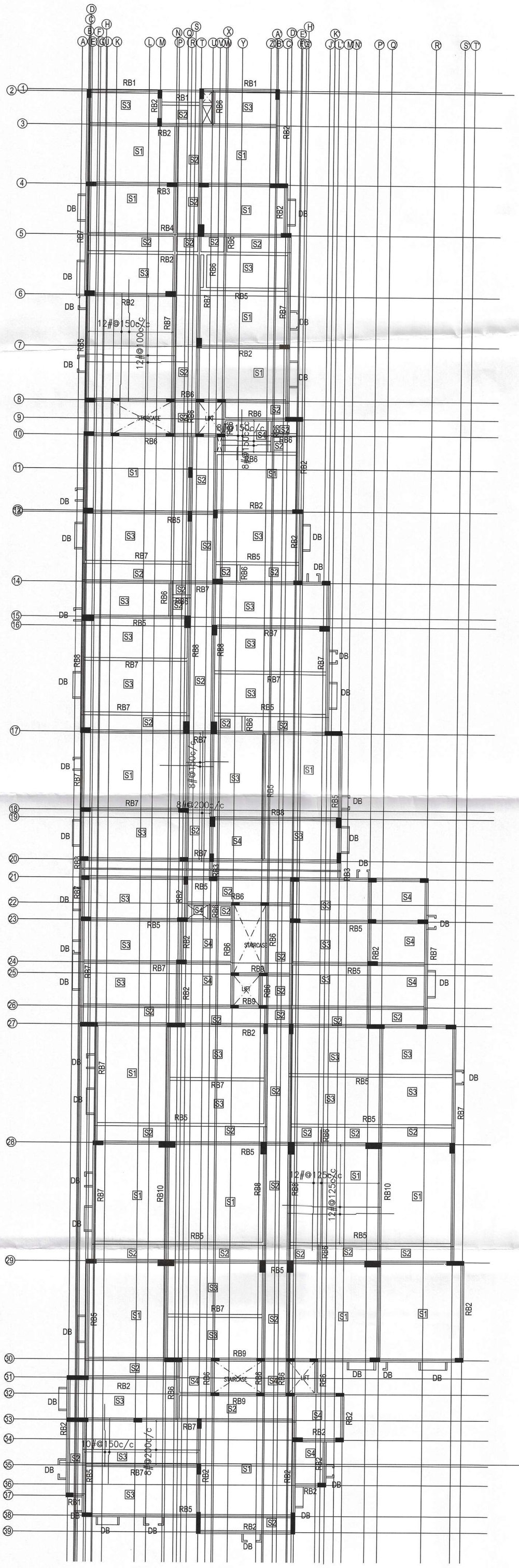
1. All dimensions are in mm.
2. Dimensions to be read, not scaled, and to be Checked with arch. dwg only.
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Plinth beam 30mm
4. Use M30 Conc & Fe500 Steel.
5. Leave dowels wherever necessary.

VERY IMPORTANT NOTE
DESIGNED FOR AAC BLOCK



C.S OF PLINTH BEAM
230x900
(USE M25-Fe500)

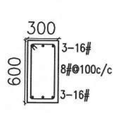
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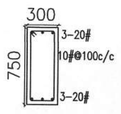
STILT ROOF LAYOUT

NOTES

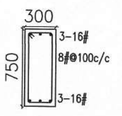
1. All dimensions are in mt.
2. Dimensions to be read, not scaled, Check in arch. dwg
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Slab 20mm
   c) Beams 30mm
4. Use M25 Conc & Fe500 unless specified otherwise.
5. Slab thickness 150mm/200mm unless specified otherwise.
6. Crank length 0.2L of span.
7. Top rod extn. 0.3L of span.
8. Sunk the slab as per arch dwg.
9. Roof Levels refer to Arch. Drg.
10. Leave dowels/Sleeves wherever necessary.



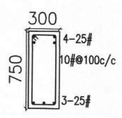
C.S OF RB1
300x600



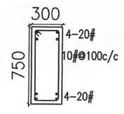
C.S OF RB2
300x750



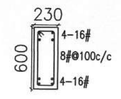
C.S OF RB3
300x750



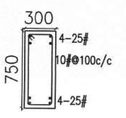
C.S OF RB4
300x750



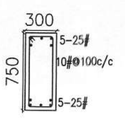
C.S OF RB5
300x750



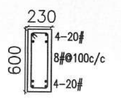
C.S OF RB6
230x600



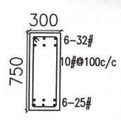
C.S OF RB7
300x750



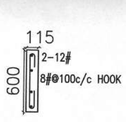
C.S OF RB8
300x750



C.S OF RB9
230x600

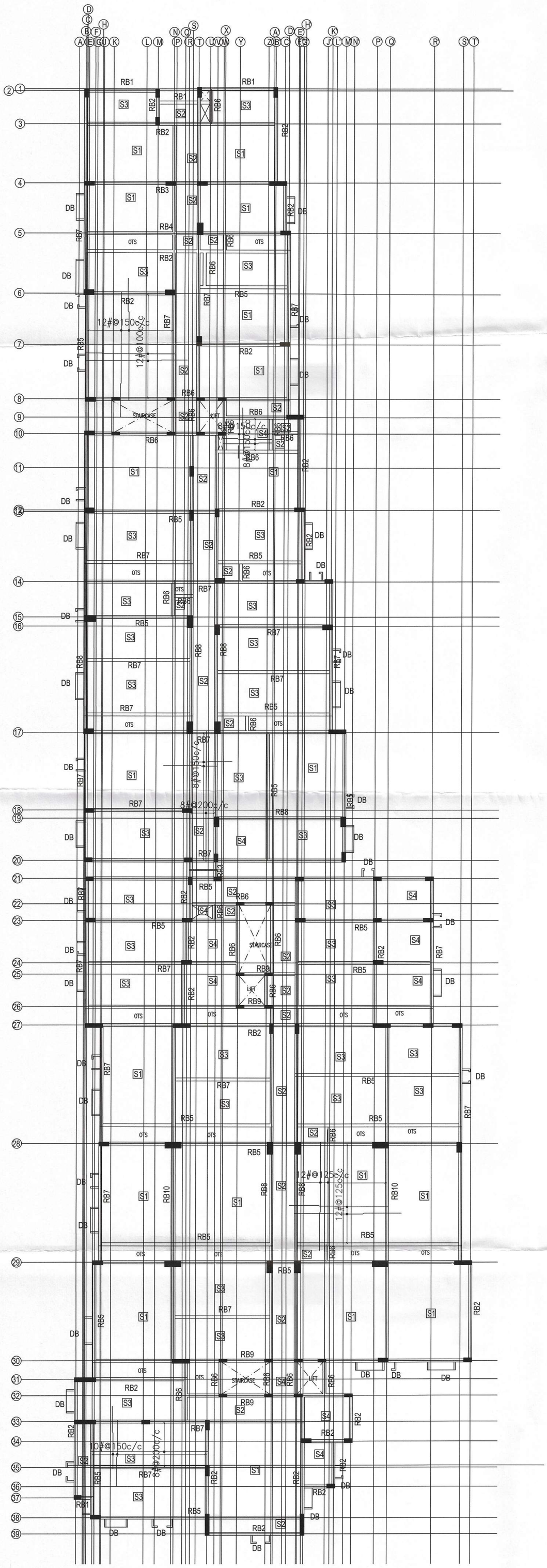


C.S OF RB10
300x750



C.S OF DB
115x600

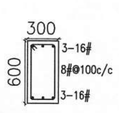
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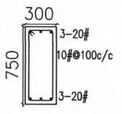
TYP ROOF LAYOUT

NOTES

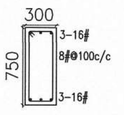
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   c) Beams 30mm
4. Use M25 Conc & Fe500 unless specified otherwise.
5. Slab thickness 150mm/200mm unless specified otherwise.
6. Crank length 0.2L of span.
7. Top rod extn. 0.3L of span.
8. Sunk the slab as per arch dwg.
9. Roof Levels refer to Arch. Drg.
10. Leave dowels/Sleeves wherever necessary.



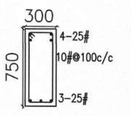
C.S OF RB1
300x600



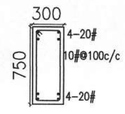
C.S OF RB2
300x750



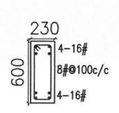
C.S OF RB3
300x750



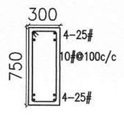
C.S OF RB4
300x750



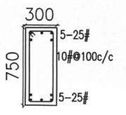
C.S OF RB5
300x750



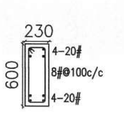
C.S OF RB6
230x600



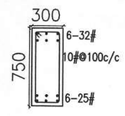
C.S OF RB7
300x750



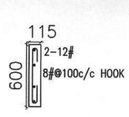
C.S OF RB8
300x750



C.S OF RB9
230x600

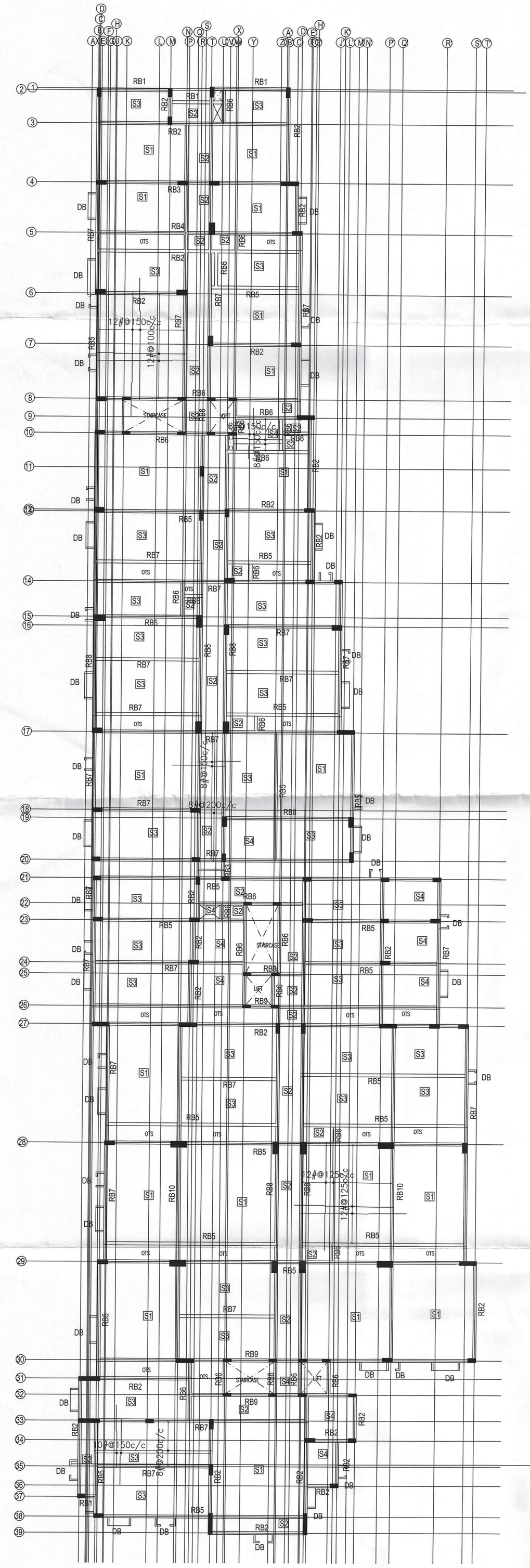


C.S OF RB10
300x750



C.S OF DB
115x600

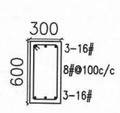
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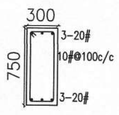
FINAL ROOF LAYOUT

NOTES

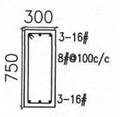
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5. Slab thickness 150mm/200mm unless specified otherwise.
6. Crank length 0.2L of span.
7. Top rod extn. 0.3L of span.
8. Sunk the slab as per arch dwg.
9. Roof Levels refer to Arch. Drg.
10. Leave dowels/Sleeves wherever necessary.



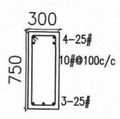
C.S OF RB1
300x600



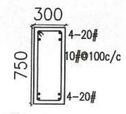
C.S OF RB2
300x750



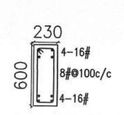
C.S OF RB3
300x750



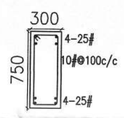
C.S OF RB4
300x750



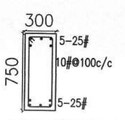
C.S OF RB5
300x750



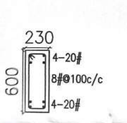
C.S OF RB6
230x600



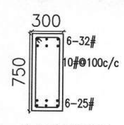
C.S OF RB7
300x750



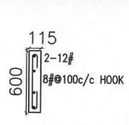
C.S OF RB8
300x750



C.S OF RB9
230x600



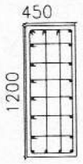
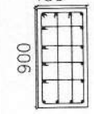
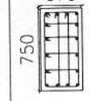
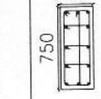
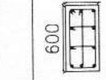
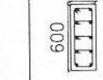
C.S OF RB10
300x750

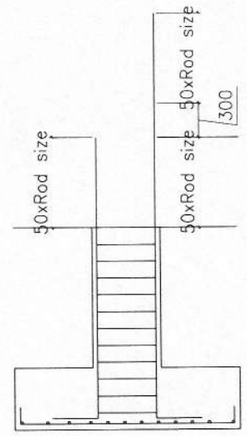


C.S OF DB
115x600

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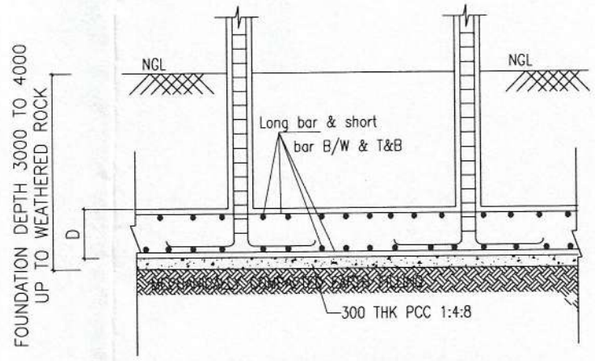
COLUMN DETAILS (M30-Fe500)

C1 450x1200	C2 300x1600	C3 300x1300	C4 450x900	C5 375x750	C6 300x750	C7 300x600	C8 230x600	SC 300x750
								
• 20-25ϕ 8ϕ@150c/c	• 20-25ϕ 8ϕ@150c/c	• 20-25ϕ 8ϕ@150c/c	• 16-25ϕ 8ϕ@150c/c	• 16-25ϕ 8ϕ@150c/c	• 12-25ϕ 8ϕ@150c/c	• 10-25ϕ 8ϕ@150c/c	• 8-25ϕ 8ϕ@150c/c	• 4-16ϕ 8ϕ@150c/c

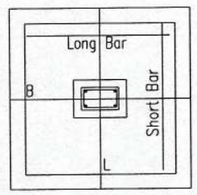


SECTION OF COLUMN FOR LAP

GA DRAWING NTS

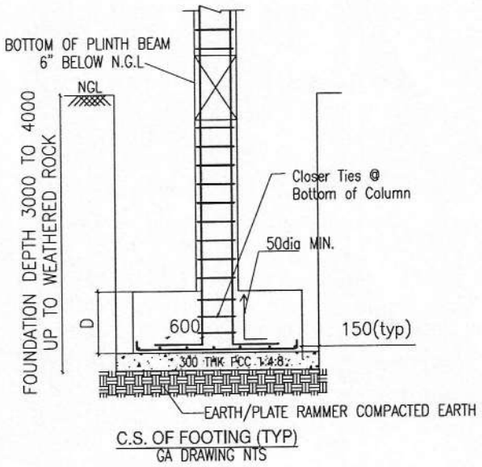


C.S. OF COMBINED FOOTING (TYP)



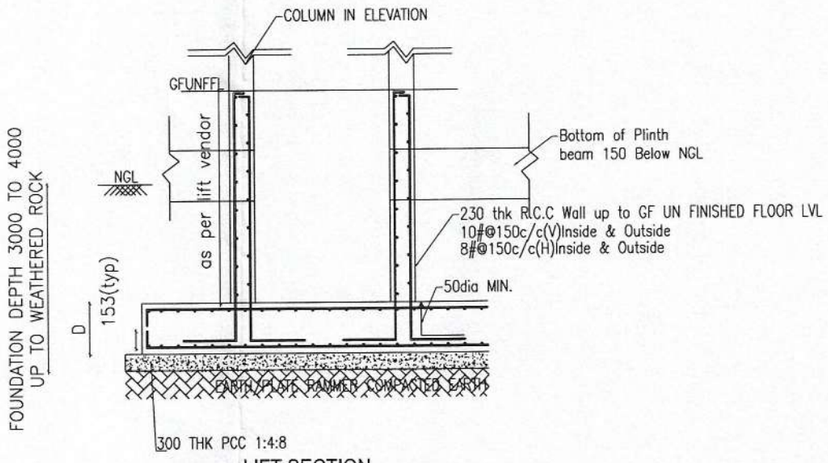
PLAN OF FOOTING
DETAIL(TYP)

GA DRAWING NTS



C.S. OF FOOTING (TYP)

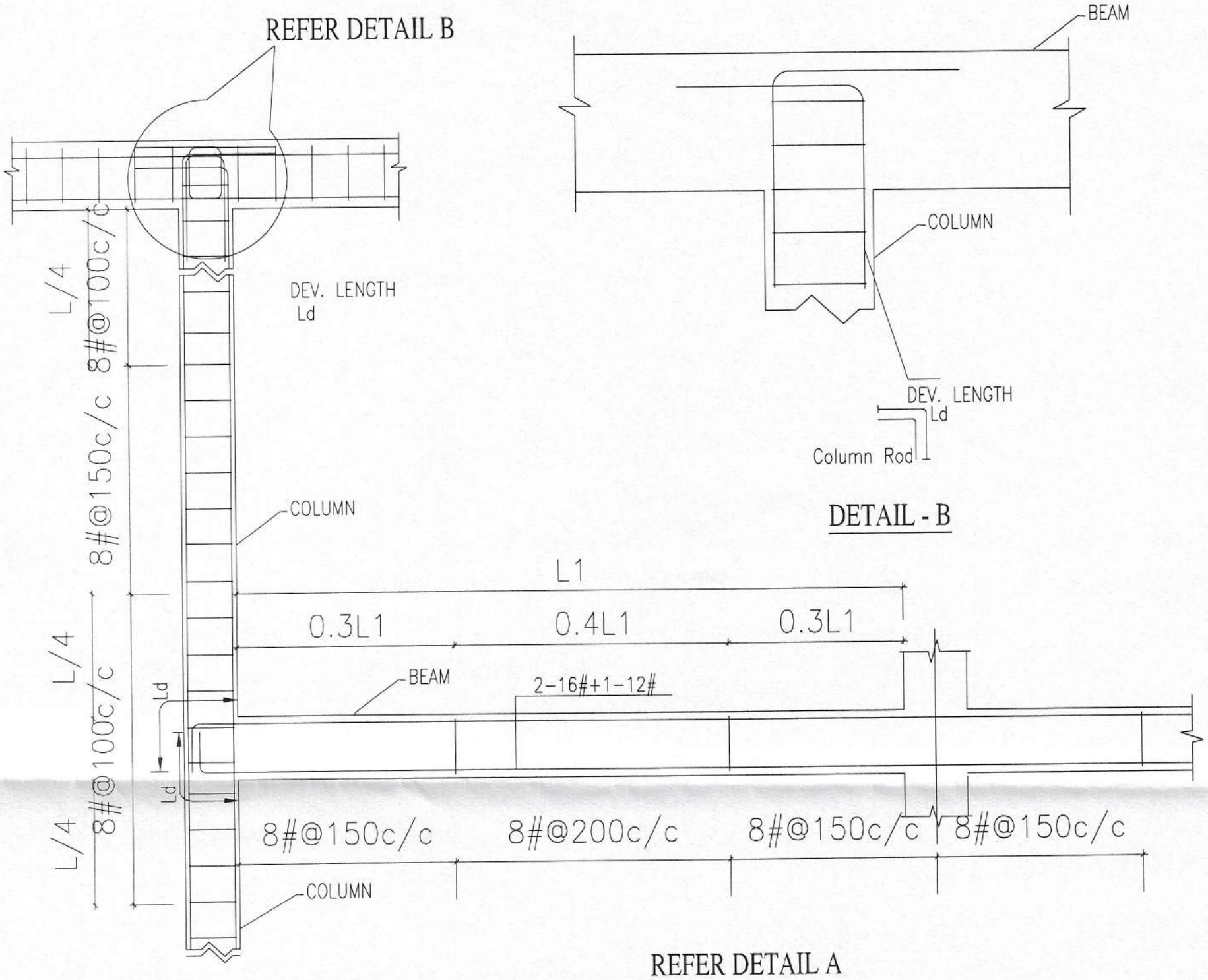
GA DRAWING NTS

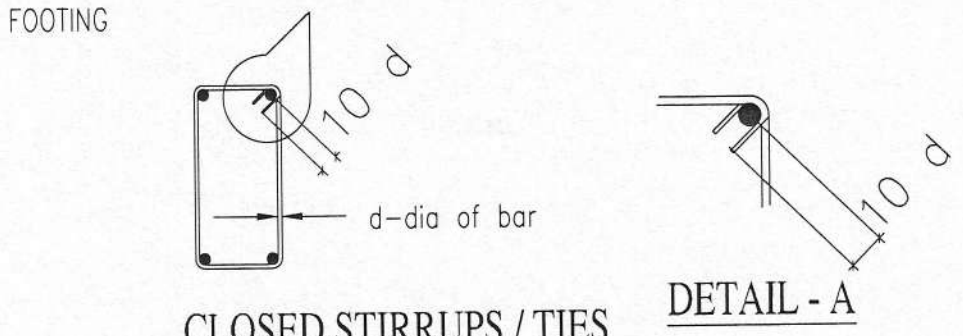


LIFT SECTION

WATER PROOFING TO BE DONE AS PER MANUFACTURE SPECIFICATION

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GENERAL SECTION (SEISMIC DETAILING)

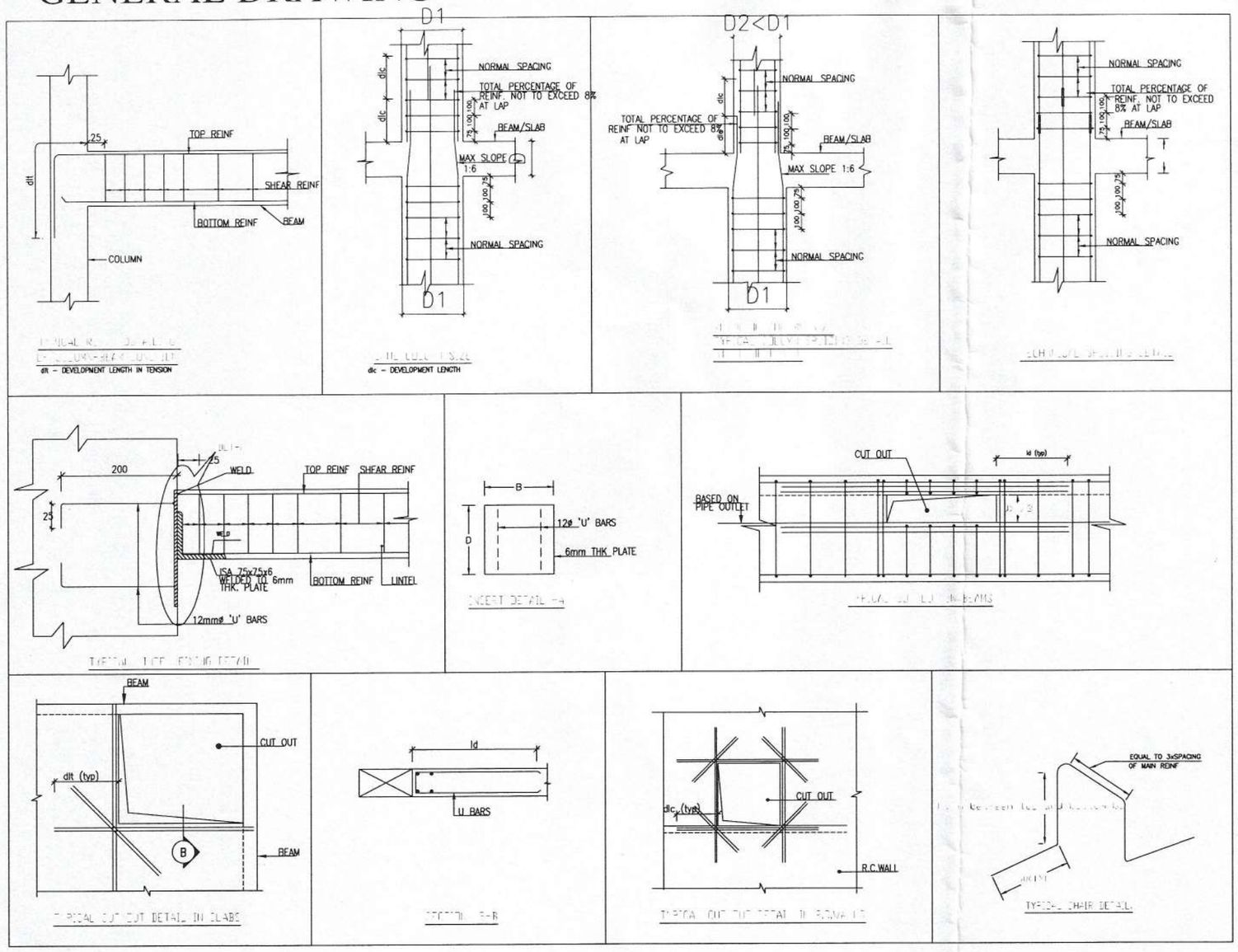
CLOSED STIRRUPS / TIES
FOR BEAM & COLUMN

DETAIL - A

SEISMIC DETAILING

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GENERAL DRAWING



GENERAL DETAILS

GENERAL NOTES

1. GENERAL

1.1 ALL DIMENSIONS ARE IN MM.

1.2 WORK TO FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.

1.3 ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS.

1.4 ANY DISCREPANCY IN THE DRAWING SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCING THE WORK.

1.5 THE STRUCTURE IS DESIGNED FOR :
AS PER PLAN

2. DESIGN CRITERIA

2.0 STANDARDS AND LOADS.

2.1 THE CONCRETE DESIGN IS BASED ON IS: 456–2000.

2.2 LIVE LOADS ARE BASED ON IS:875 PART II:

a) GENERATORS : AS PER ACTUALS

b) LIVE,ELECTRICAL PANNEL EQIPMENT: 300 Kg/Sq.m

c) STAIRS : 400Kg/Sq.m

d) TERRACES : 200Kg/Sq.m
AS PER ARCHI. DRGS.

2.3 SHUTTERING FOR FOOTING BY STEEL/PLYWOOD SHEETING.
SHUTTERING FOR COLUMN AND BEAMS BY STEEL/ PLYWOOD SHEETING.
SHUTTERING FOR SLABS BY STEEL/PLYWOOD SHEETING.

3. CONCRETE

3.1 ALL CONCRETE SHALL BE OF DESIGN MIX AND ARE TO BE OBTAINED FROM REPUTEDTESTING LABORATORIES AND APPROVED BY CONSULTANTS, THE MATERIALS THAT ARE PROPOSED TO BE USED IN THE PROJECT SHALL BE TESTED AND TEST CERTIFICATE TO BE FURNISHED BEFORE USE OF MATERIAL AT SITE.

3.2 IRRESPECTIVE OF WHAT MENTIONED ON DRAWING THE PCC MIX SHALL BE AS FOLLOWS.

I). PCC FOR PILE CAP / PLINTH BEAM / RAFT SLAB MIX 1:4:8

3.3 CANTILEVERED SLAB/BEAMS SHALL BE PROPPED TILL COUNTER BALANCING WEIGHT BECOMES EFFECTIVE.

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4. REINFORCING STEEL/DEVELOPMENT AND ANCHORAGE LENGTHS

4.1 ALL REINFORCEMENT STEEL SHALL CONFORM TO IS:1786 –1985 HIGH STRENGTH DEFORMED STEEL BARS,PRODUCED BY THE THERMO–MECHANICAL TREATMENT PROCESS, OF GRADE Fe500, HAVING ELONGATION MORE THAN 14.5% CAN BE USED

4.4 COUPLER CAN BE PROVIDED INSTEAD OF LAPPING.

Developed Length & Anchorage length

FOR Fe500 in mm	BAR IN TENSION M25	BAR IN COMPRESSION M25
10	485	388
12	583	466
16	777	621
20	971	777
25	1214	971

5. SOIL DATA & WATER TABLE

5.1 FOOTING CARRYING CAPACITY IS BASED ON SOIL REPORT.
5.2 MINIMUM DEPTH OF EXCAVATION SHALL BE AS INDICATED IN DRAWINGS.
5.3 FOR LIME SAND COMPACTION FILLING REFER ARCH DWG.
5.4 GROUND WATER LVL AS PER SOIL REPORT.

6. CONCRETE CLEAR COVER TO MAIN REINFORCEMENT

6.1 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 75MM.

6.2 PILE --- 50MM (BOTTOM), 50MM (SIDES)
PILE CAP 75MM (BOTTOM), 75MM (TOP)
FOOTING 50MM (BOTTOM & SIDES)
LINTELS 20MM
BEAMS 30MM
COLUMNS 40MM >12#Rod & 25MM≤12#Rod
SLABS 20MM
RCC WALLS 40MM ON EARTH SIDE/WATER SIDE
20MM ON ATMOSPHERE SIDE

6.3 COVER BLOCKS SHALL BE USED TO GIVE CORRECT COVER TO REINFORCEMENT.

7. WATER PROOFING

7.1 WATER PROOFING SHALL BE DONE FOR : SUMP TANKS, OVERHEAD TANK, TOILET SLABS, TERRACE, LIFT RCC WALL, AS PER STANDARD SPECIFICATIONS.

8. CURING

8.1 CURING BY WATER SHALL BE DONE FOR ALL RCC STRUCTURE FOR A MINIMUM PERIOD OF 10 DAYS FOR OPC AND 12 DAYS FOR PPC CONCRETE.

9. DESHUTTERING TIME

9.1 TYPE OF FORM WORK FOR : — MINIMUM PERIOD BEFORE STRIKING (EXCLUDING THE DAY OF CASTING)

a. SLABS 14 DAYS
b. BEAMS UPTO 6.0M 14 DAYS
OVER 6.0M 21 DAYS
c. WALL/COLUMN VERTICAL FACES 1 DAY

9.2 SHUTTERING CAN BE RELEASED EARLIER THAN SPECIFIED ABOVE PROVIDED THE PROPS ARE RETAINED AT REASONABLE SPACINGS AND CONCRETE ATTAINS THE FULL STRENGTH AT THE TIME OF DESHUTTERING AS PER IS 456 – 2000. DESHUTTERING SHALL BE DONE BY PROVIDING DAMPENING MATERIAL BELOW IN ORDER TO REDUCE THE IMPACT AT THE LOWER LEVEL.

9.3 SIMPLY SUPPORTED AND CONTINUOUS SPANS SHALL BE DESHUTTERED FROM MID SPAN TOWARDS SUPPORTS.

CANTILEVERS SHALL BE DESHUTTERED FROM FREE END TOWARDS SUPPORTS

9.4 SLAB/BEAMS SHALL BE REPROPPED UNTIL THE NEXT LEVEL SLAB IS CAST AND DESHUTTERED.

10. CONSTRUCTION JOINTS

10.1 SLABS : AT MIDDLE ONE THIRD OF THE SPAN.

10.2 BEAMS : AT MIDDLE ONE THIRD OF THE SPAN. IF ANY CROSS BEAMS ARE LOCATED IN THIS REGION THE JOINT SHALL BE LOCATED TWO TIMES THE WIDTH OF THE BEAM AWAY FROM THE BEAM.

10.3 RETAINING WALL : AT THE JUNCTION OF THE WALL AND FOOTING WITH A KEY JOINT AND AT MIDDLE OF VERTICAL SPAN, VERTICAL JOINTS TO BE AVOIDED.

10.4 RAFT SLAB : AT MIDDLE ONE THIRD OF THE SPAN.

10.5 CANTILEVERS : CONSTRUCTION JOINT SHALL NOT BE PROVIDED IN CANTILEVERS.

10.6 AT CONSTRUCTION JOINTS OF WATER RETAINING STRUCTURES AND BASEMENTS: PRE FORMED PLASTIC WATER STOP (SYNKOFLEX OR EQUIVALENT) SHALL BE PROVIDED.

11. SLUMP OF CONCRETE

11.1 SLUMP OF CONCRETE SHALL RANGE BETWEEN 100 TO 180MM DEPENDING ON THE MANNER OF CONCRETING.

THE TABLE BELOW GIVE THE GENERAL GUIDANCE:

PILING	SLUMP(in mm) Min.	Max.	
A	100	180	POURING IN TO WATER–FREE UNLINED BORE HAVING WIDELY SPACED REINFORCEMENT. WHERE REINFORCEMENT IS NOT SPACED WIDELY ENOUGH, CUT–OFF LVL OF PILE IS WITHIN THE CASTING AND DIAMETER OF PILE IS LESS THAN OR EQUAL TO 600MM, HIGHER ORDER OF SLUMP WITH IN THIS RANGE MAY BE USED.
B	150	180	WHERE CONCRETE IS TO BE PLACED UNDER WATER OR DRILLING MUD BY TREMIE OR BY PLACER.

12. MISCELLANEOUS

12.1 ROD EQUAL AND ABOVE 20mm DOUBLE BINDING TO BE DONE.
12.2 CHAIR ROD TO BE PROVIDED AT PROPER SPACING NOT MORE THAN 3'0".
12.3 AT CONSTRUCTION JOINTS A COAT OF SBR–LATEX TO BE APPLIED BEFORE CONCRETING
12.4 COLUMN CAN BE RAISED AFTER 1 COMPLETE DAY FOR CONCRETING.

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