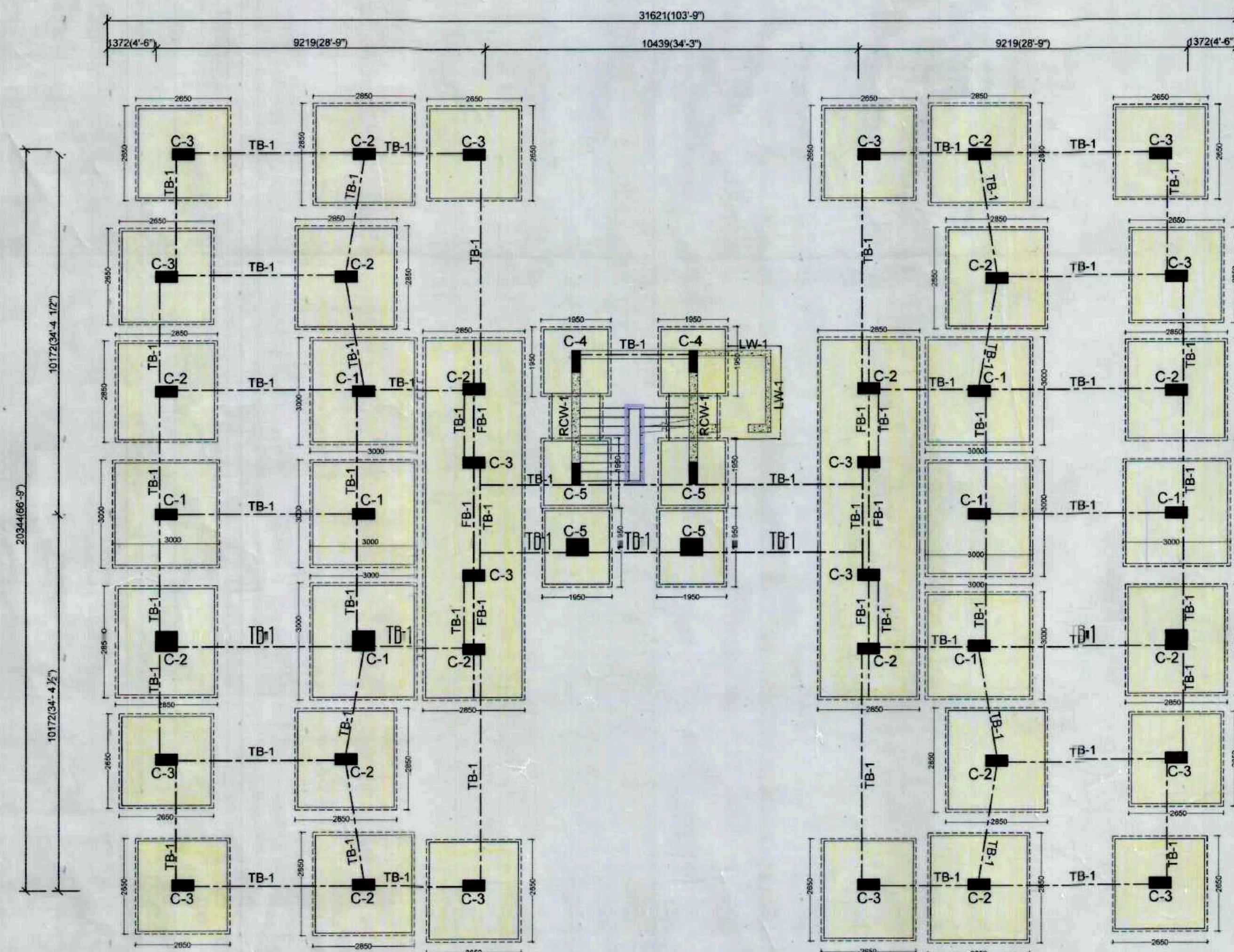
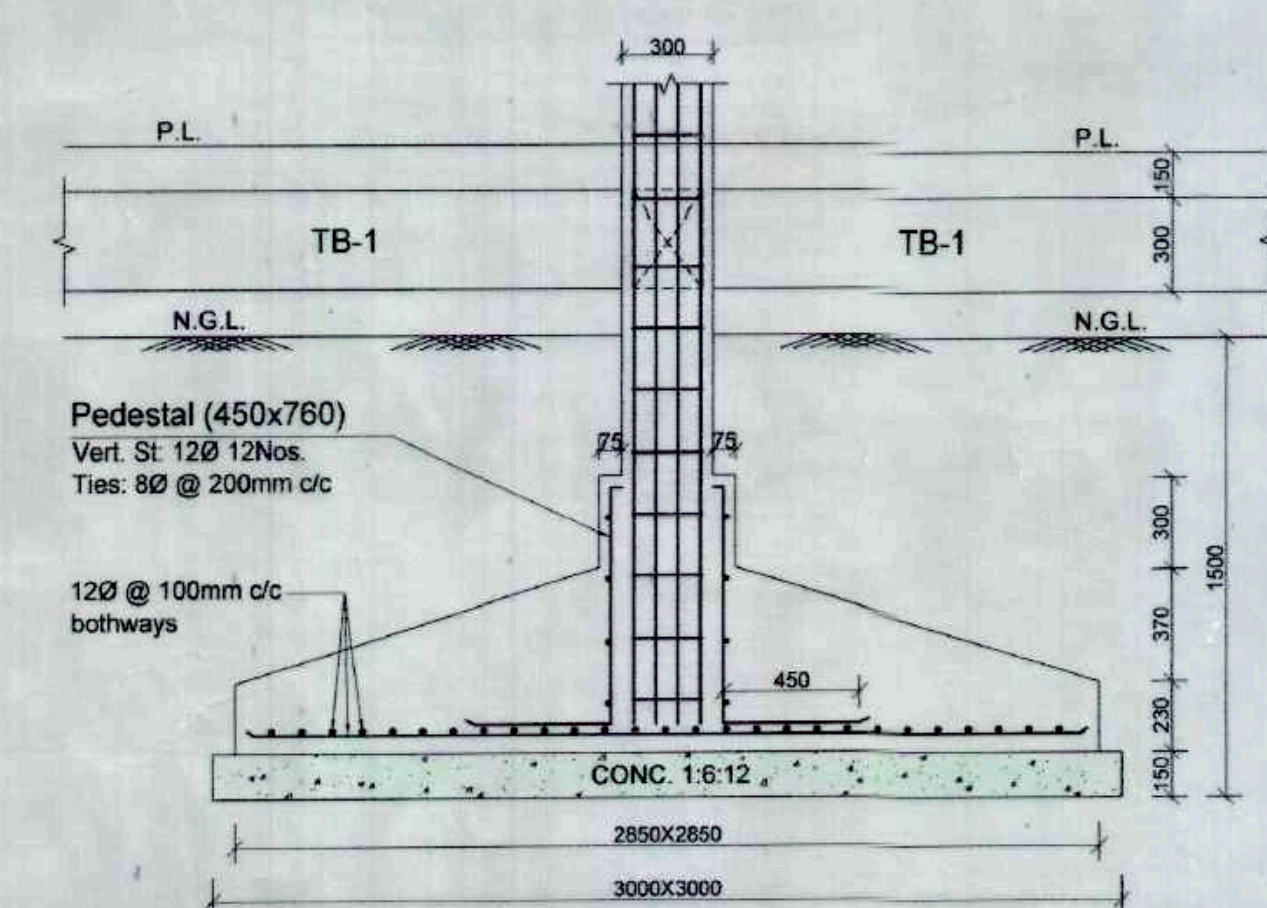
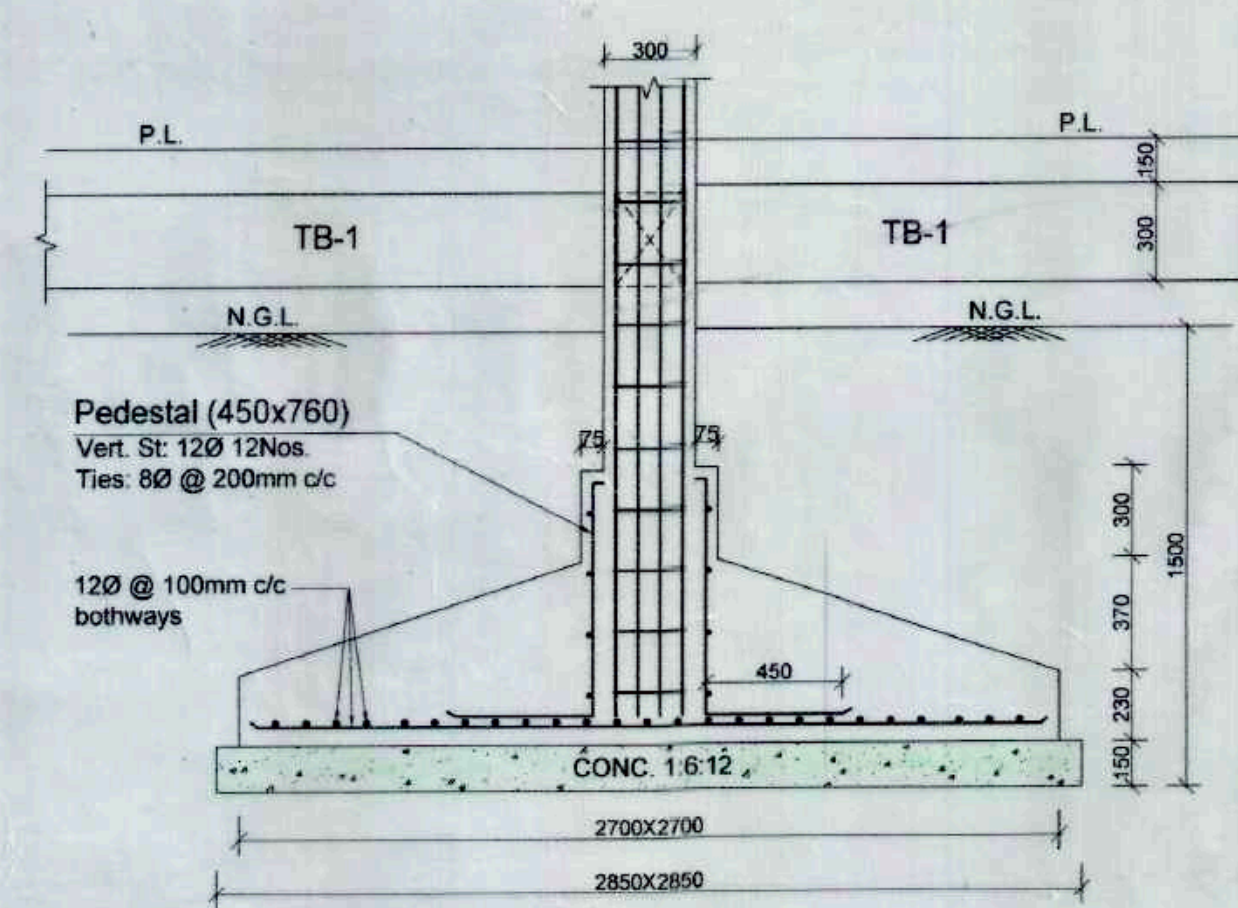




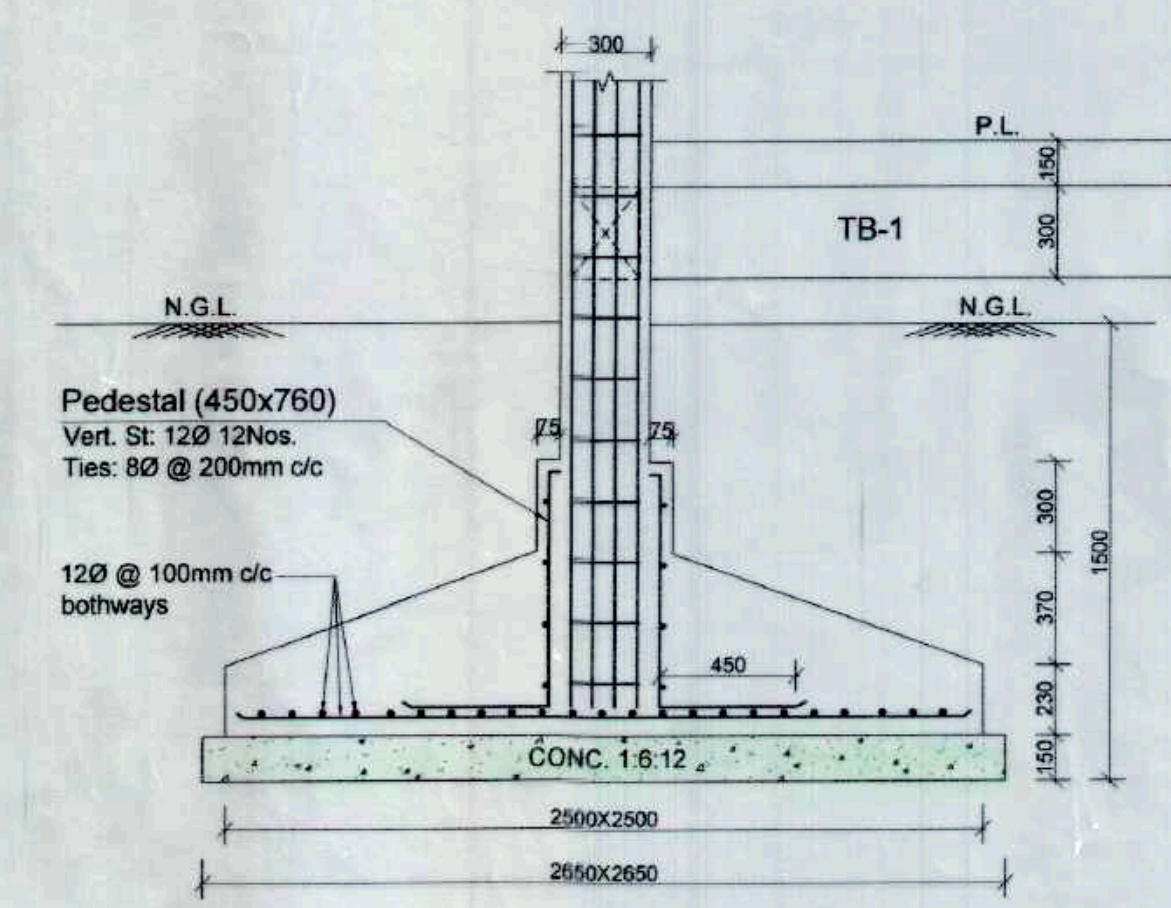
FOUNDATION EXCAVATION & KEY PLAN



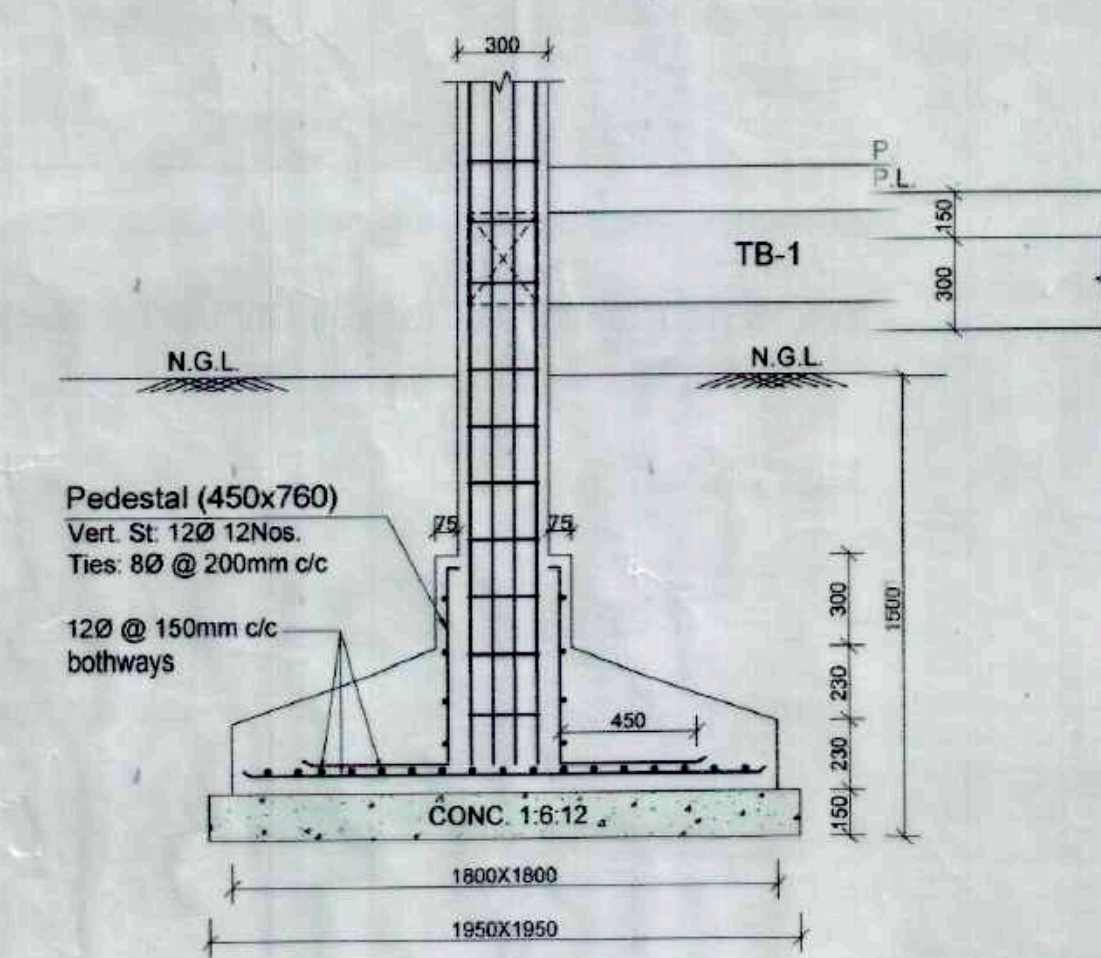
C-1



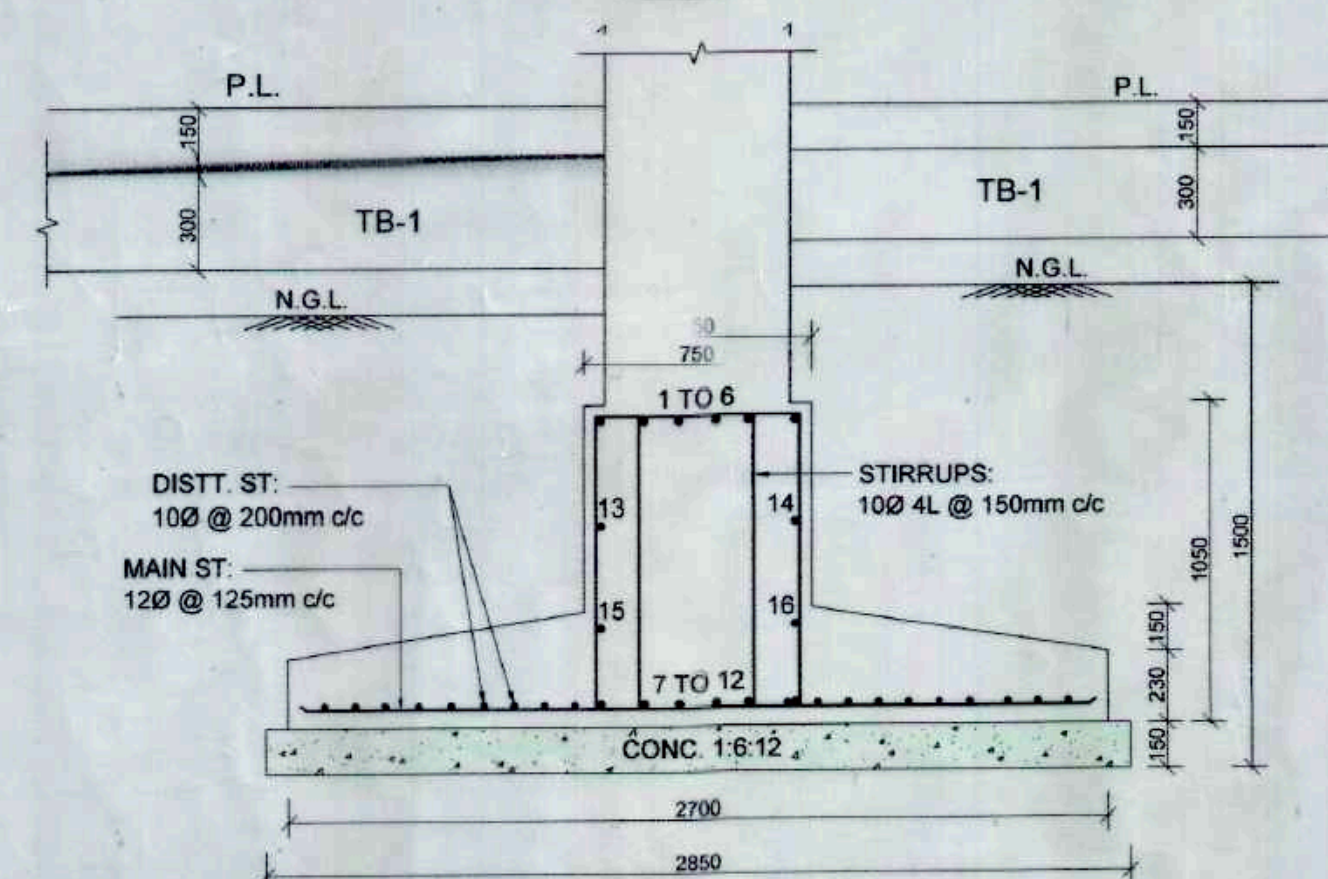
C-2



C-3



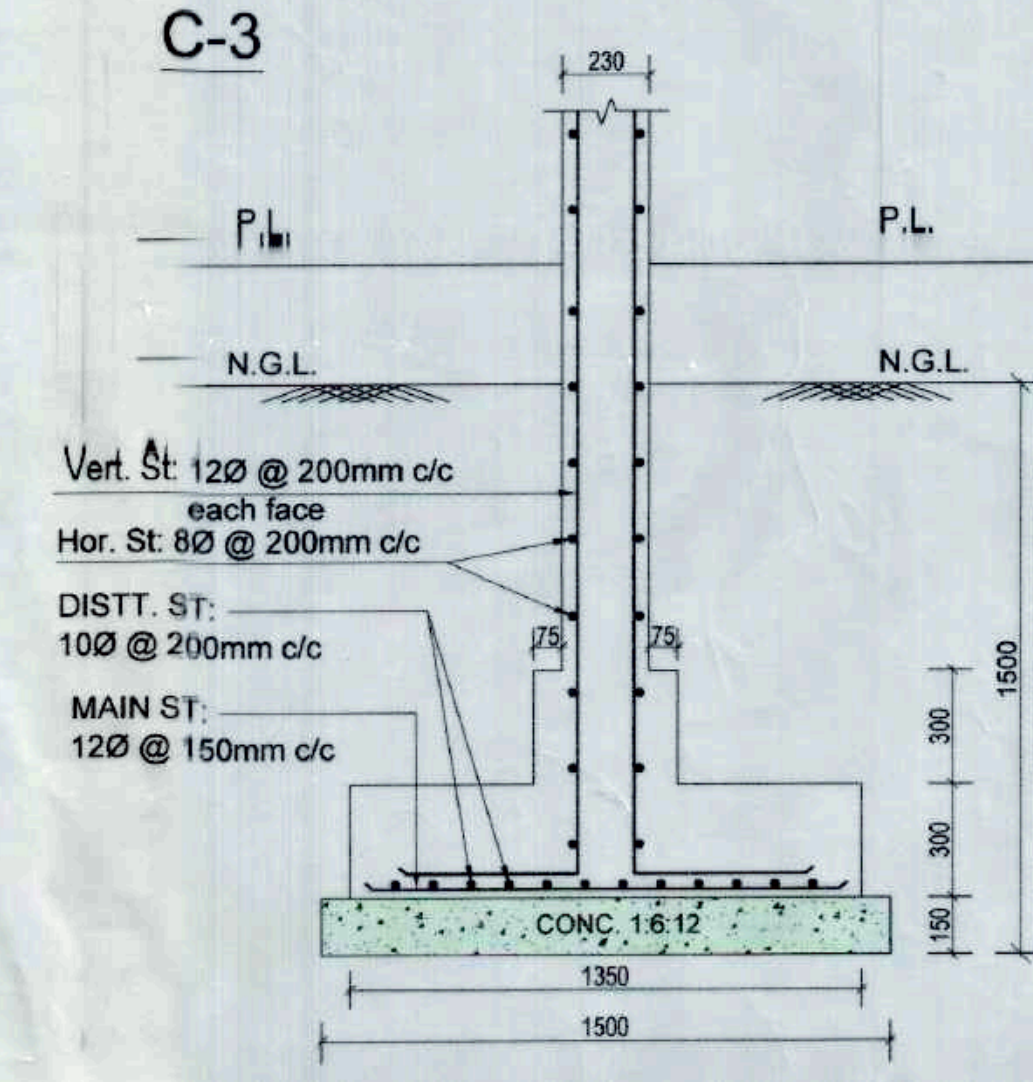
C-4, C-5



FB-1

Bars: 1 To 12 = 20Ø

13 To 16 = 16Ø



RCW-1

SCHEDULE OF COLUMNS

COLUMNS	C-1,C-2		C-3,C-4,C-5	
FLR. LVL.	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT
TERRACE TO FIFTH FLOOR		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c
FIFTH FLOOR TO FOURTH FLOOR		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c
FOURTH FLOOR TO THIRD FLOOR		VERT. ST. 16Ø 8 Nos.+ 12 mm dia. 4 Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 16Ø 8 Nos.+ 12 Ø 4 Nos. TIES: 8Ø 3 sets @ 200mm c/c
THIRD FLOOR TO SECOND FLOOR		VERT. ST. 16Ø 8Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. + 12Ø 4Nos. TIES: 8Ø 3 sets @ 200mm c/c
SECOND FLOOR TO FIRST FLOOR		VERT. ST. 20Ø 4Nos.+ 16 mm Ø 8 Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 3 sets @ 200mm c/c
FIRST FLOOR TO STILT FLOOR		VERT. ST. 20Ø 8 Nos.+ 16 Ø 4 Nos., TIES: 10Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos. + 16Ø 8Nos. TIES: 10Ø 3 sets @ 200mm c/c

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar (mm)	Slab/Beams (mm)	Columns (mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm.
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²
- CEMENT MORTAR IN BRICK WALLS
(a) 230 mm thick CM 1:6
(b) 115 mm thick CM 1:4

CONSULTANTS:
SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:
CHANDIGARH HOUSING BOARD

PROJECT:
HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

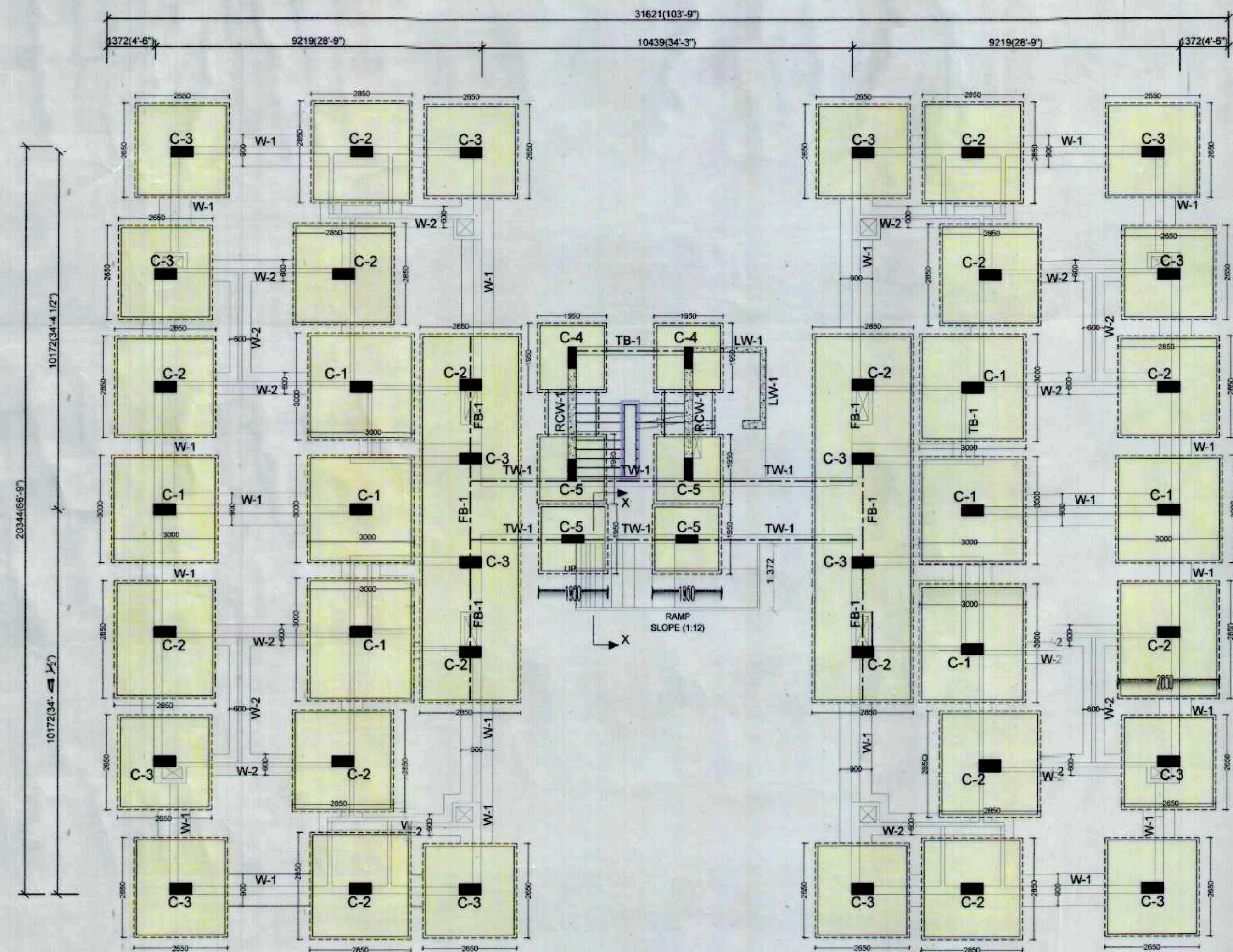
STRUCTURE

FOUNDATION EXCAVATION & KEY PLAN
COL. C-1, C-2, C-3, C-4, C-5, FB-1, TB-1, RCW-1
SCHEDULE OF COLUMNS

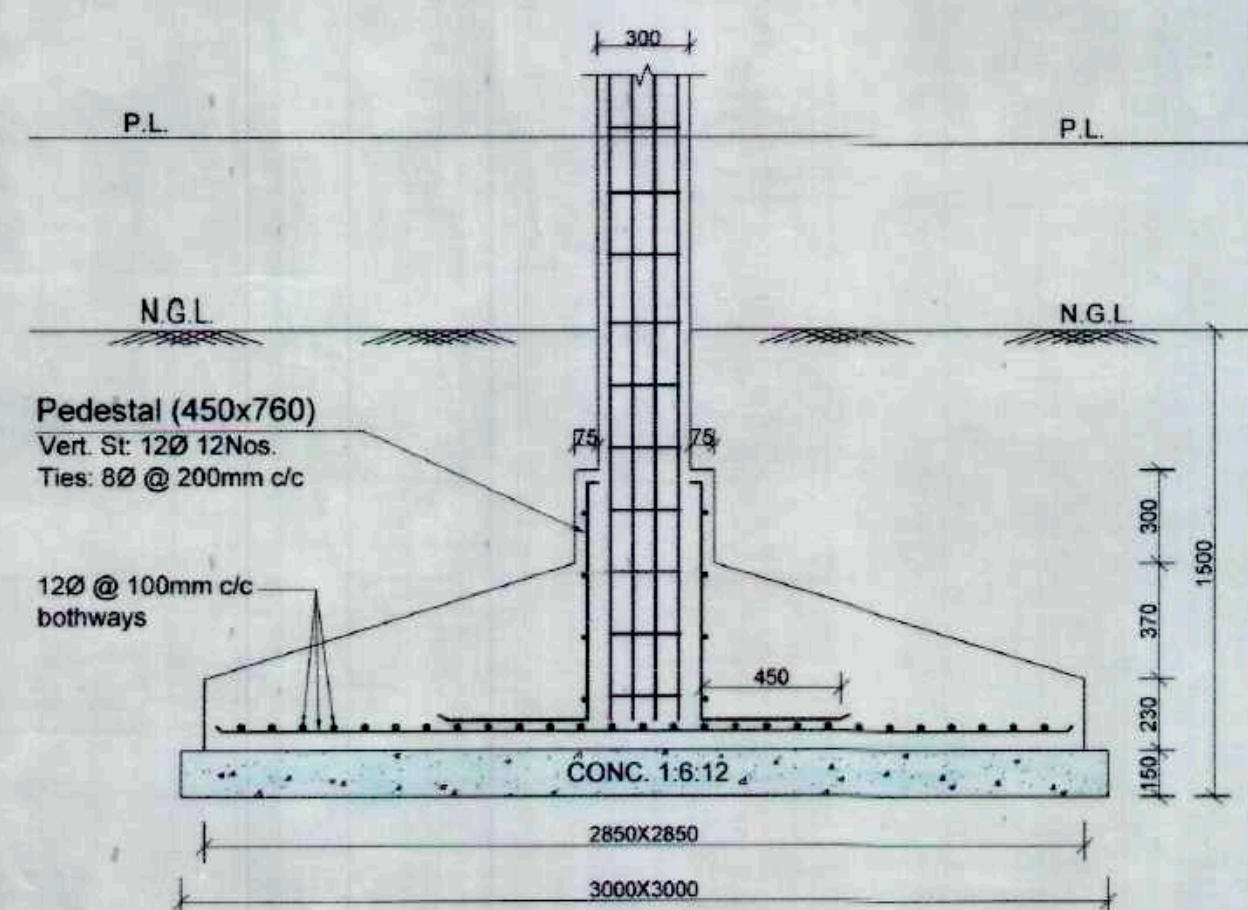
STRUCTURAL CONSULTANT: **Dr. I. C. Syal**
SIGNATURE & STAMP:

DRAWN BY: **JAGMEET SINGH**
SCALE: **N.T.S.**
DATE: **30-06-09**
DRG. NO.: **S-1**

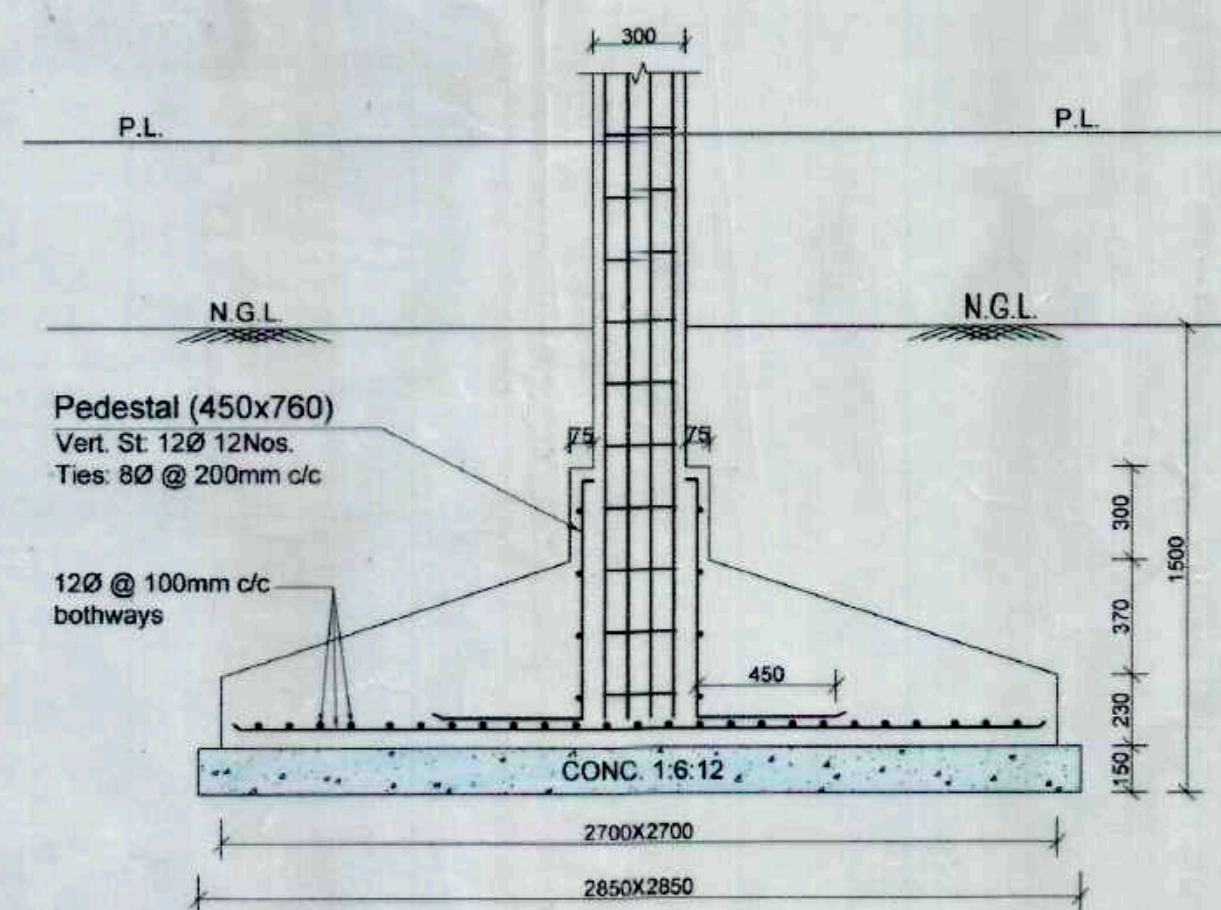
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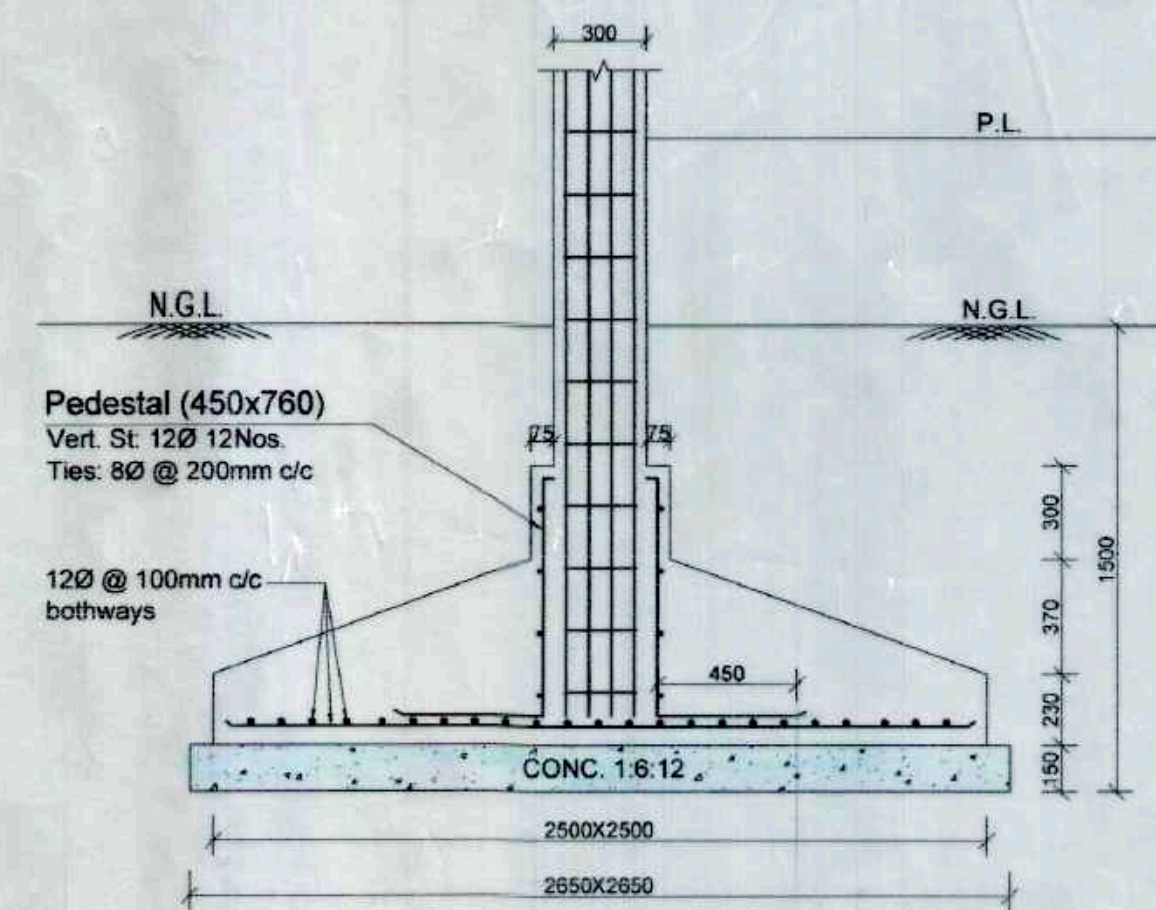
FOUNDATION EXCAVATION & KEY PLAN



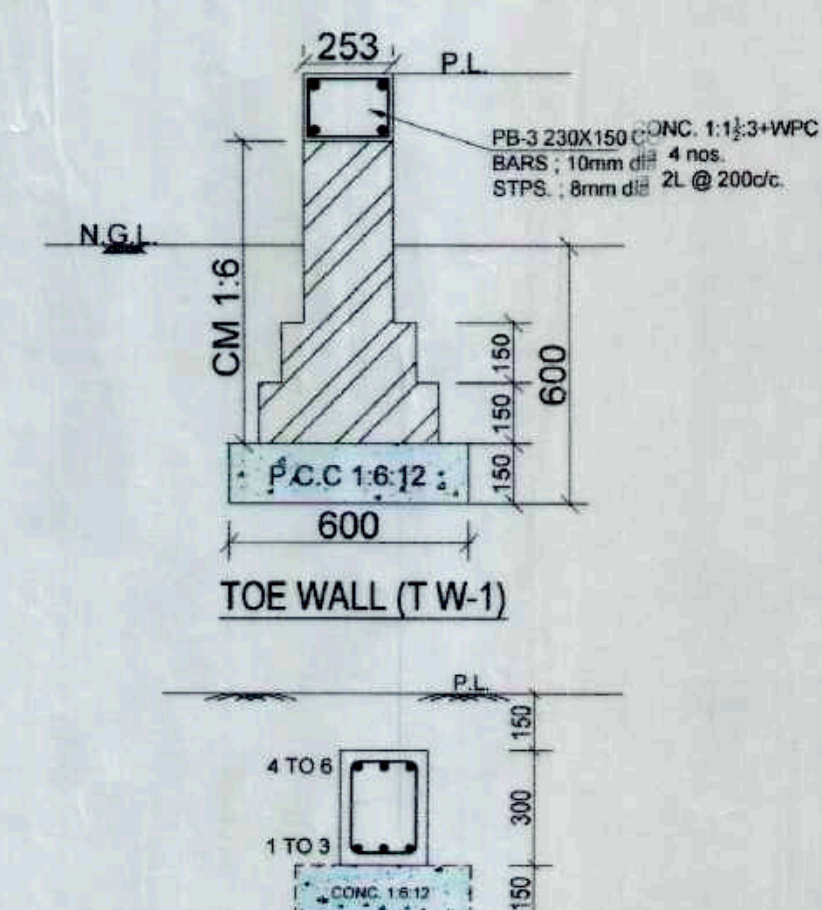
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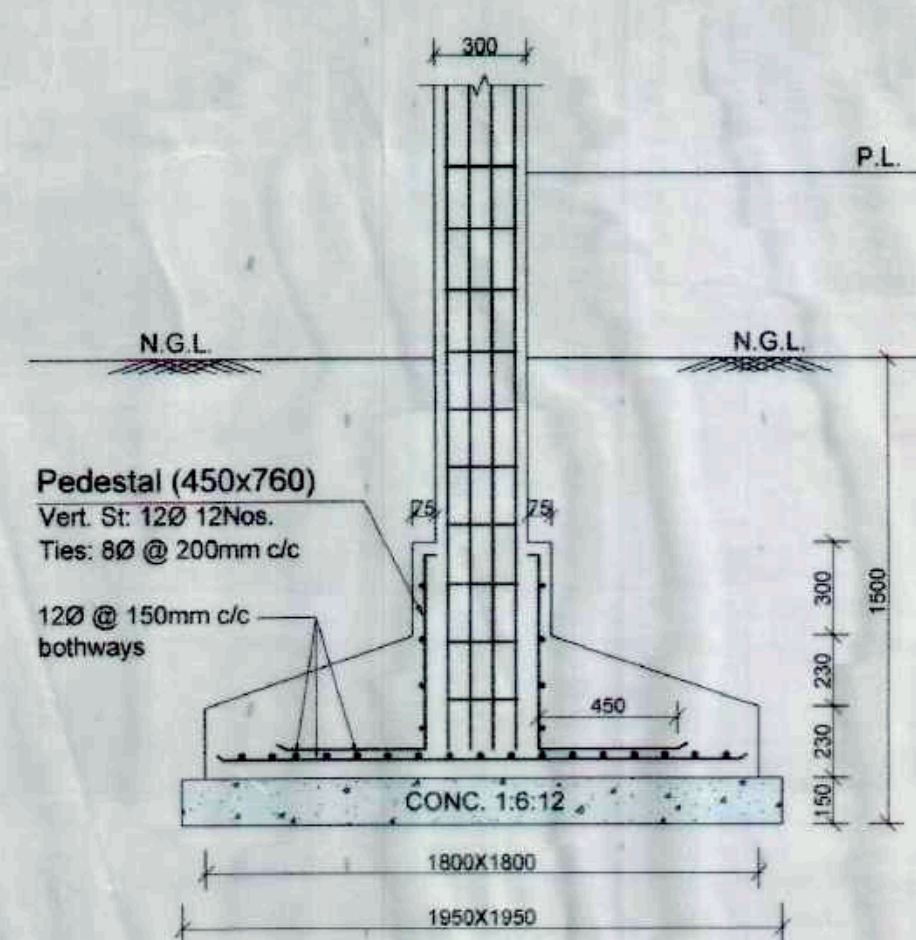
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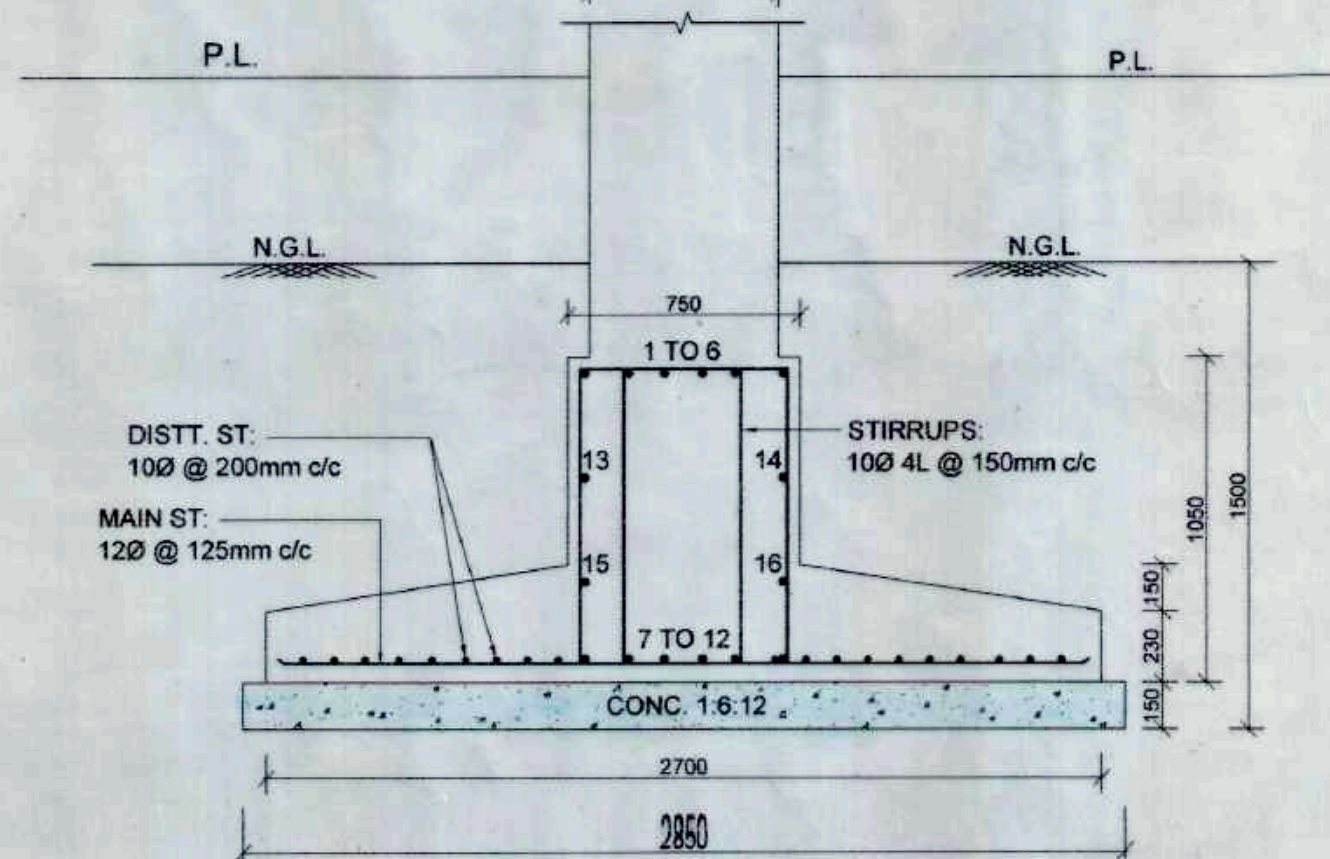
C-3



C-4

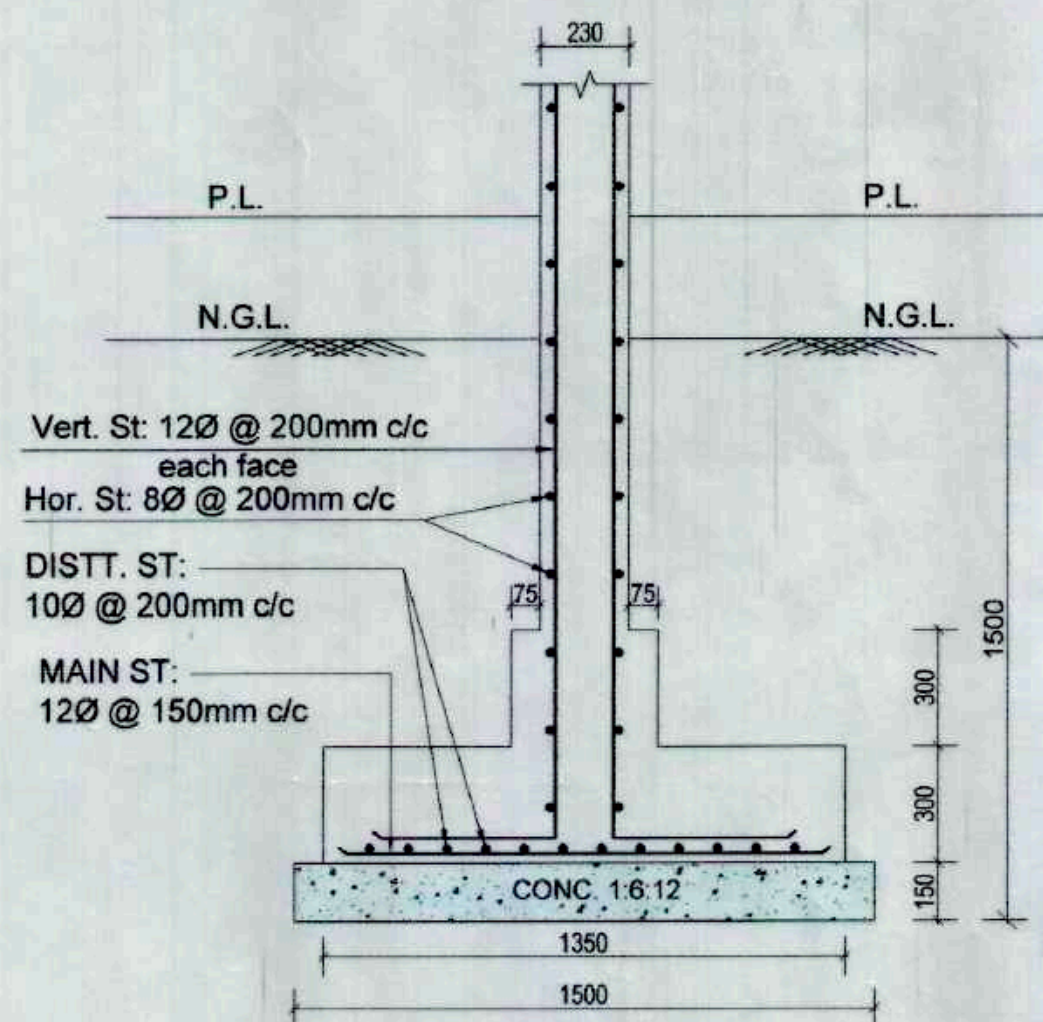


C-5

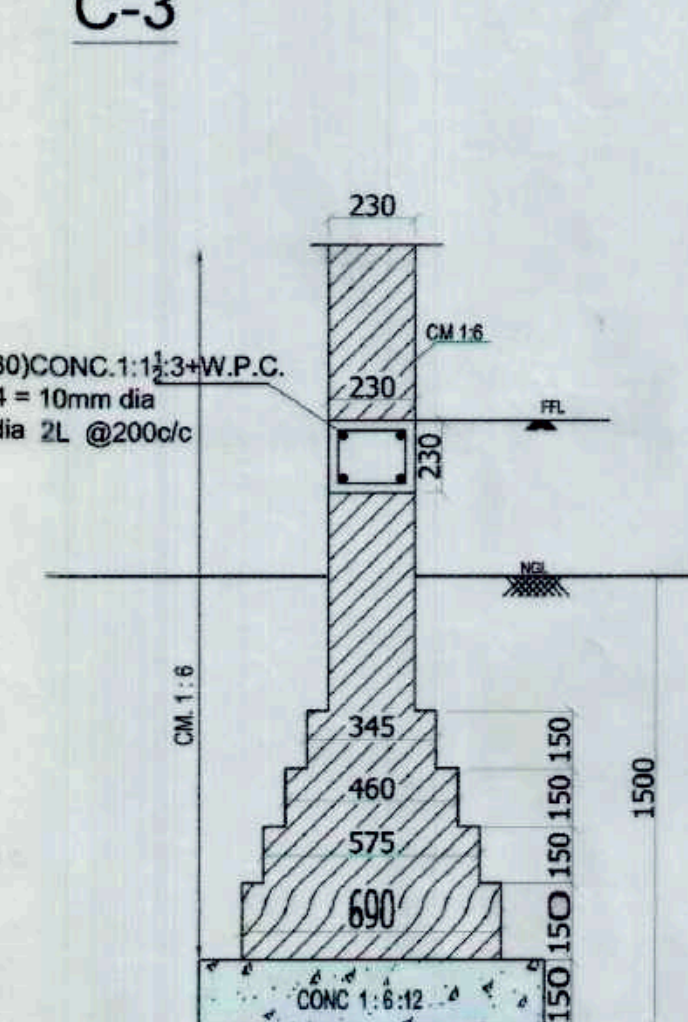


FB-1

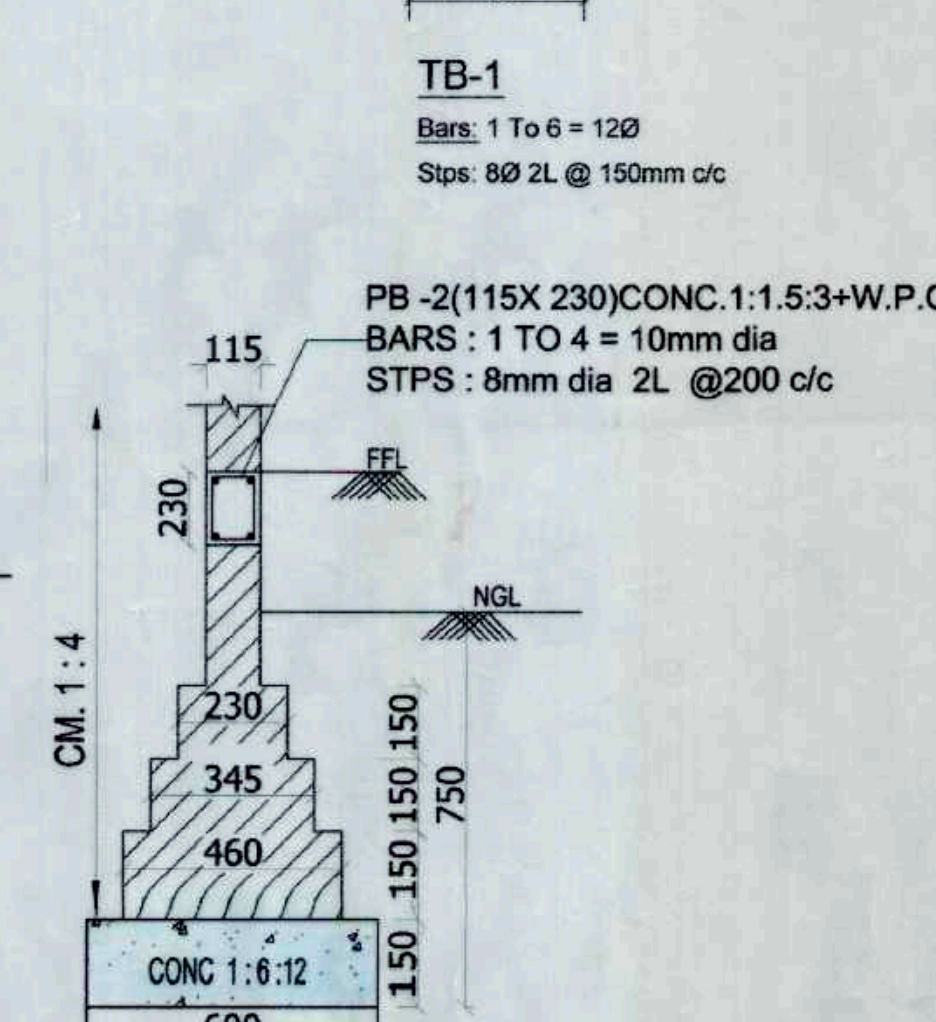
Bars: 1 To 12 = 20Ø
13 To 16 = 16Ø



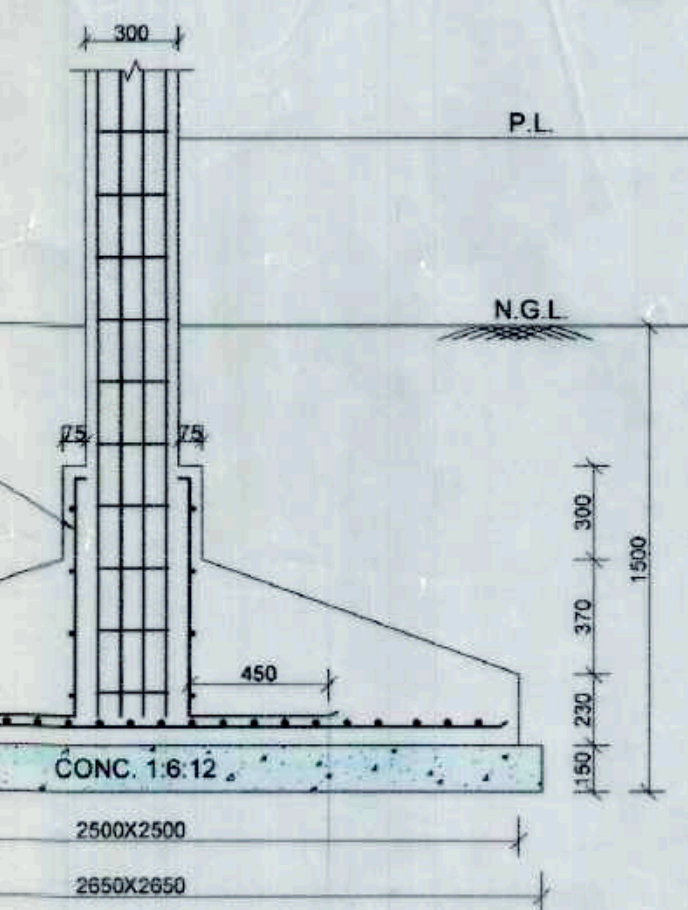
RCW-1



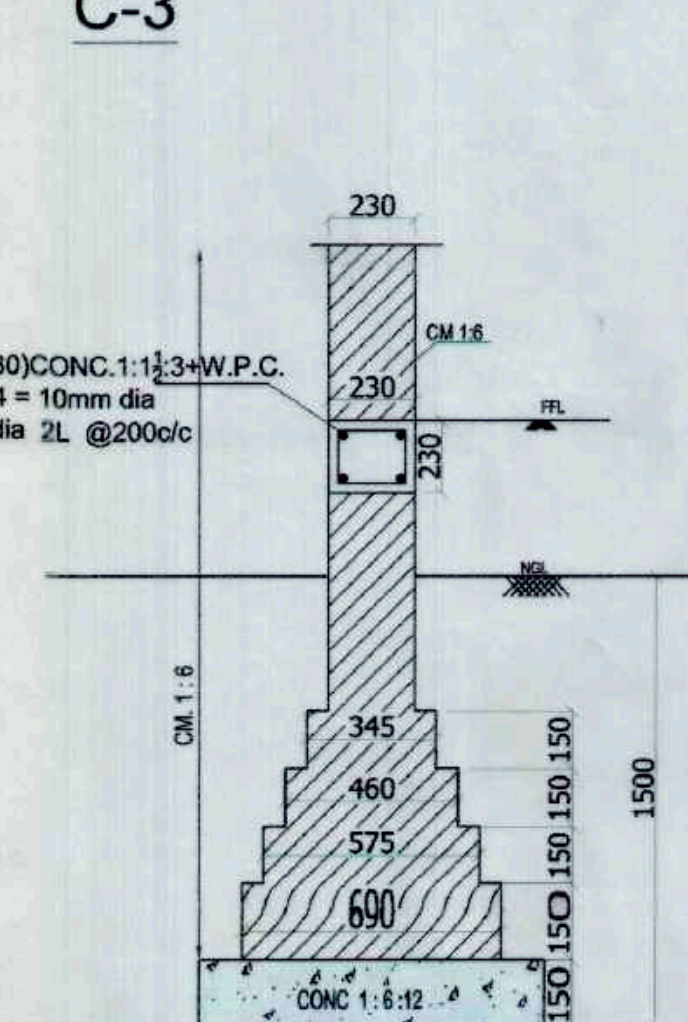
WALL W-1 (230MM-THICK)



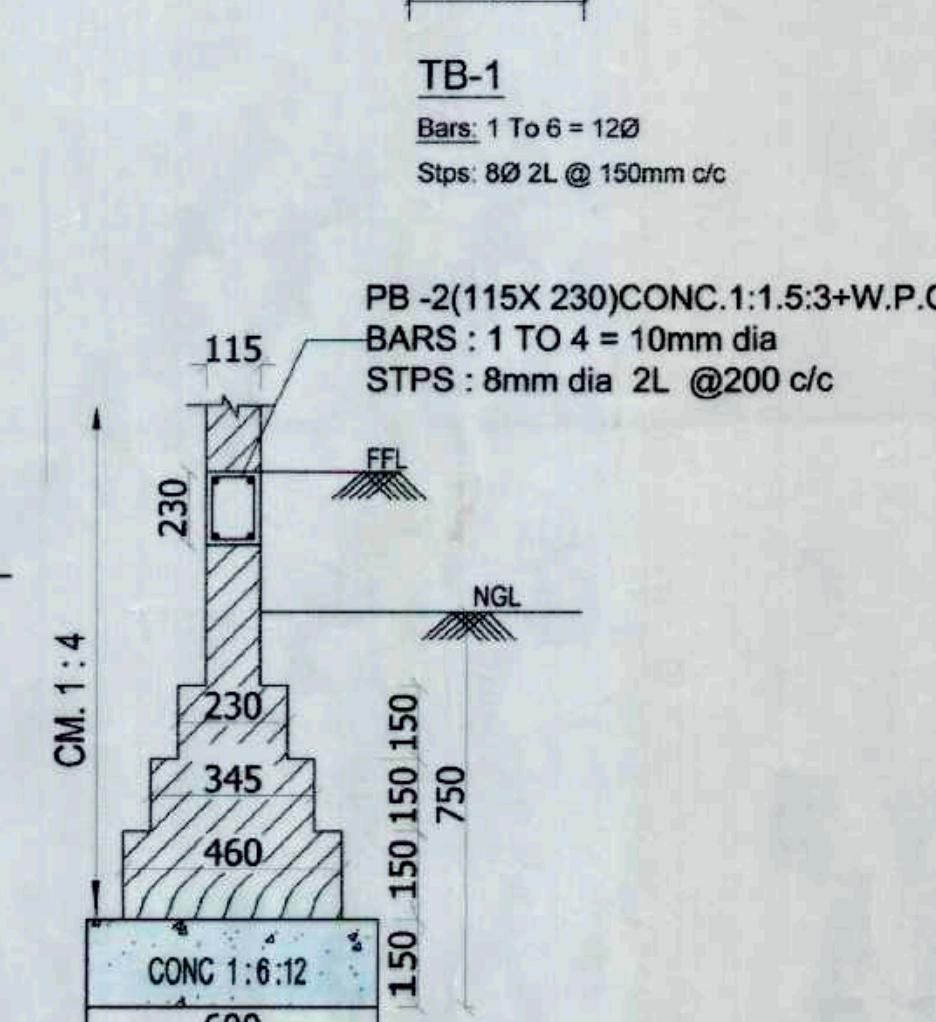
WALL W-2 (115MM-THICK)



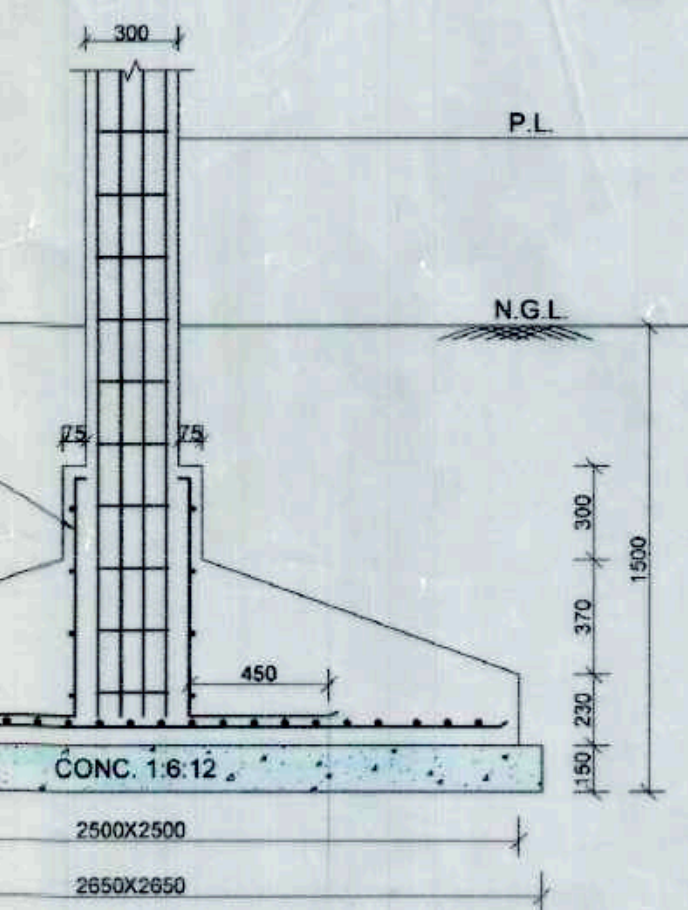
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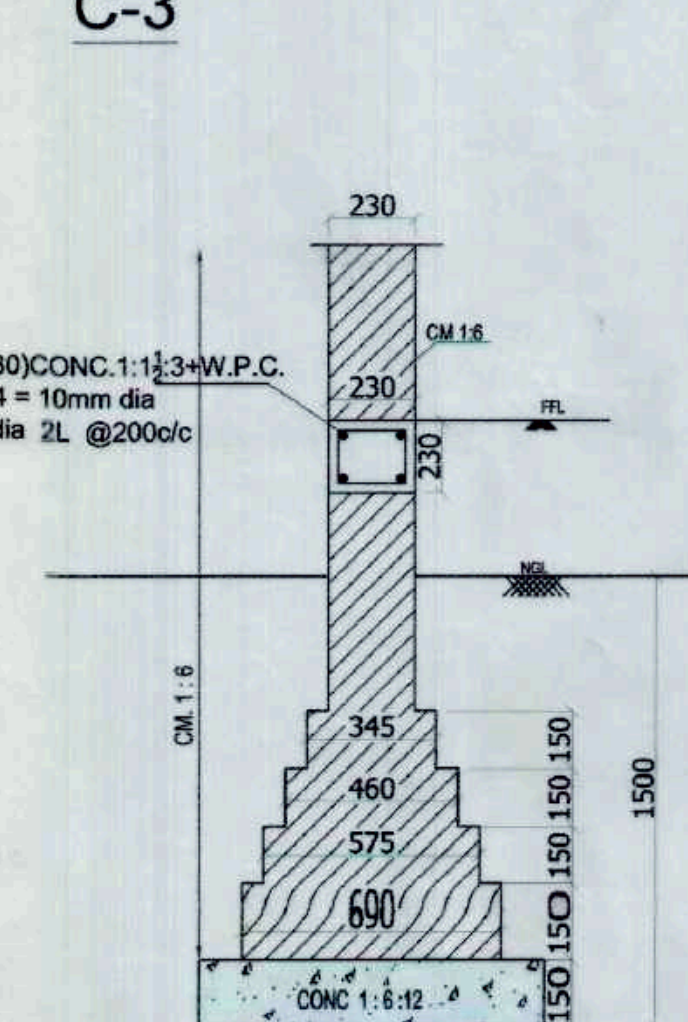
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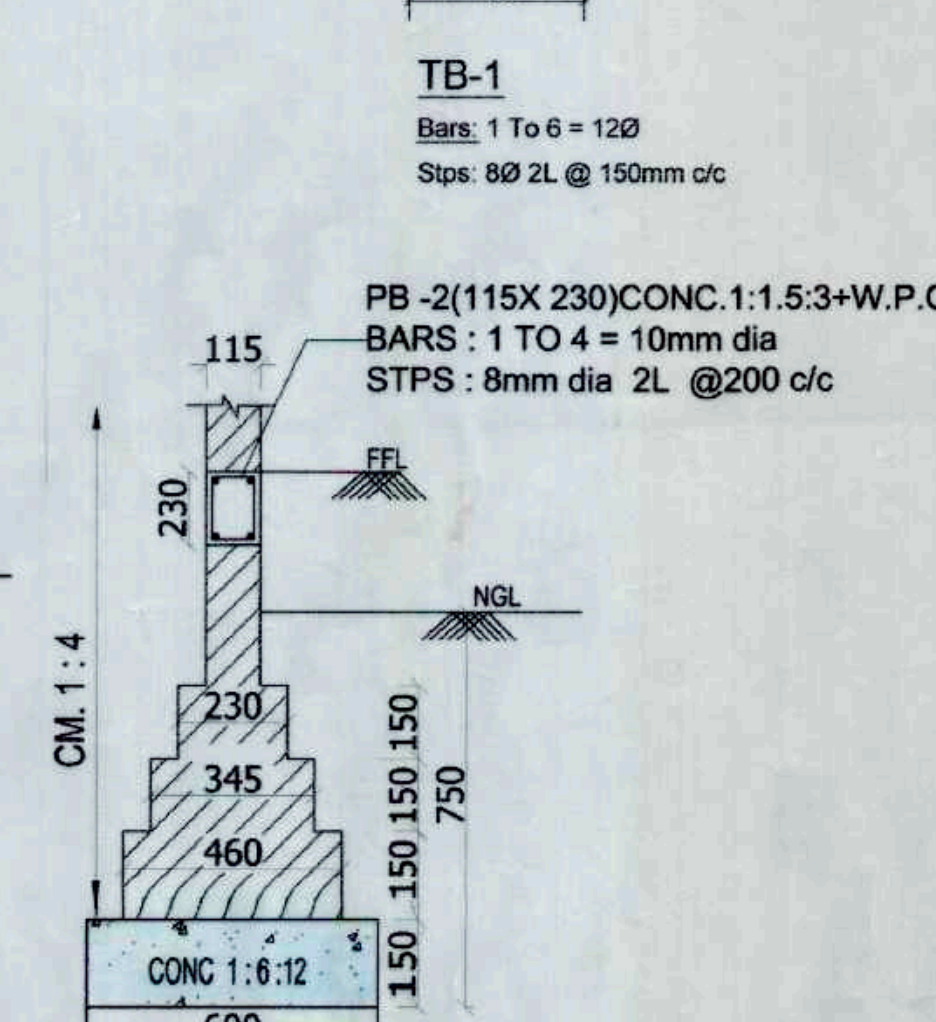
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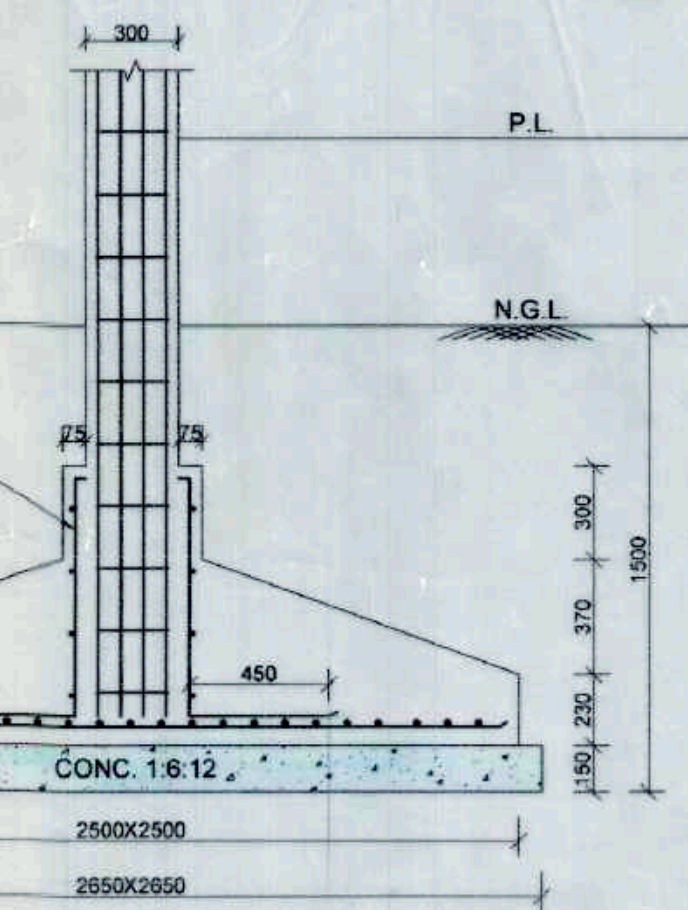
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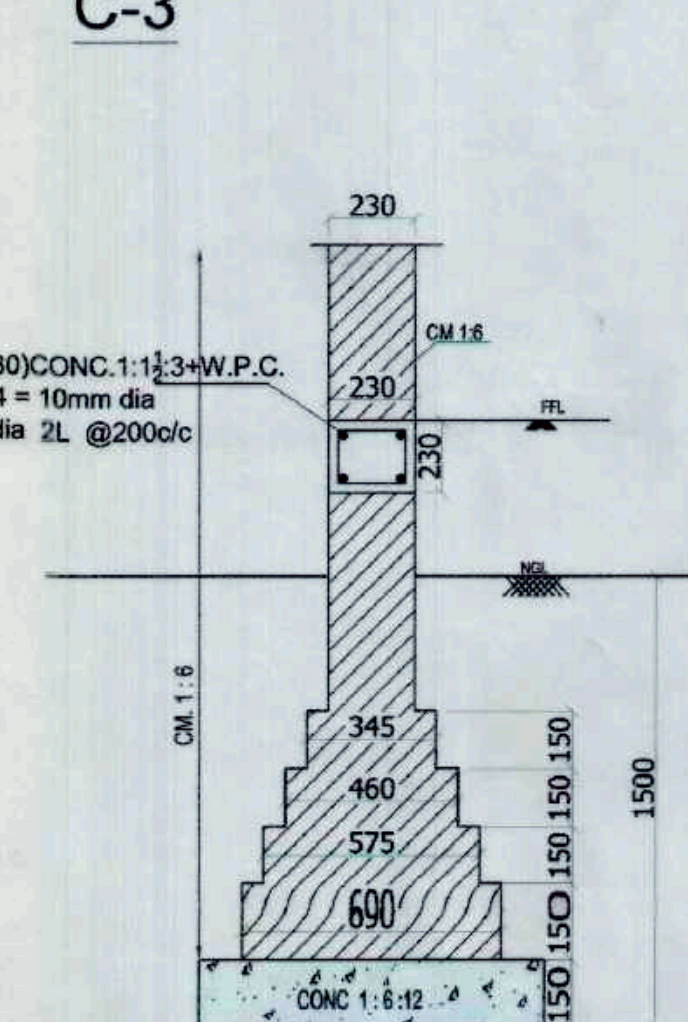
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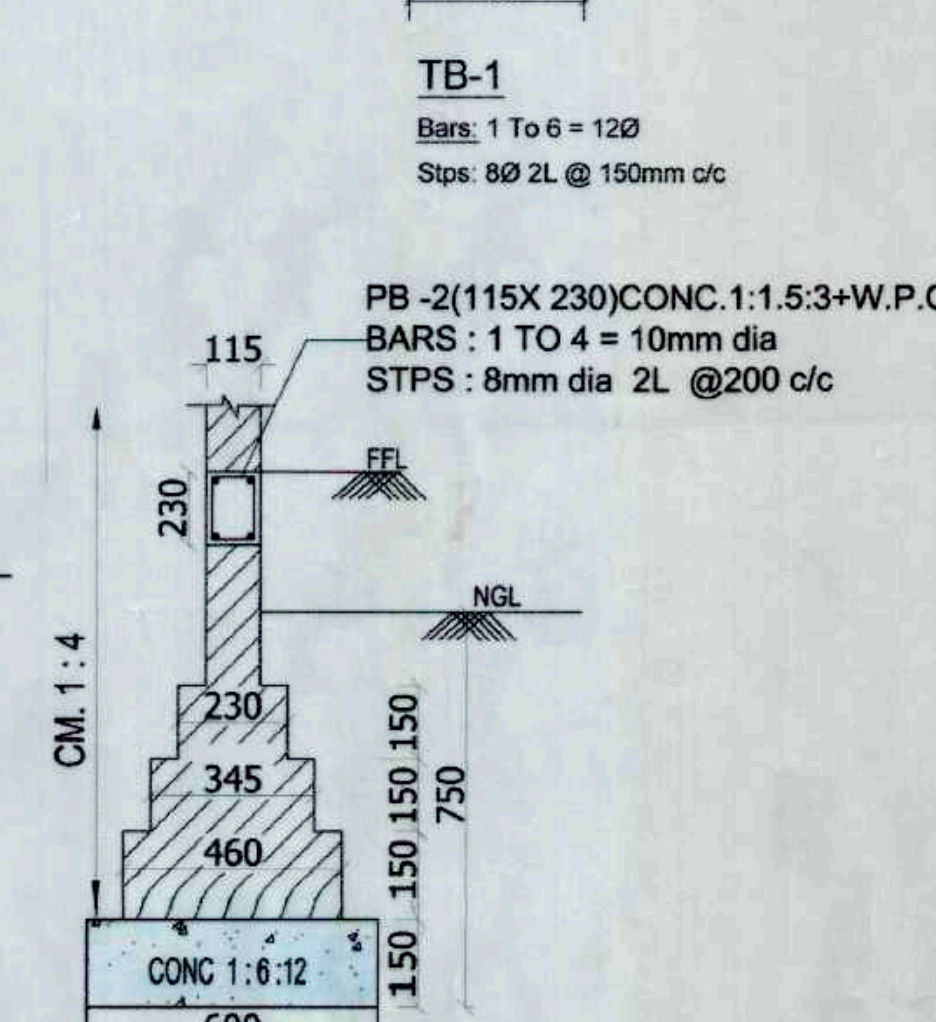
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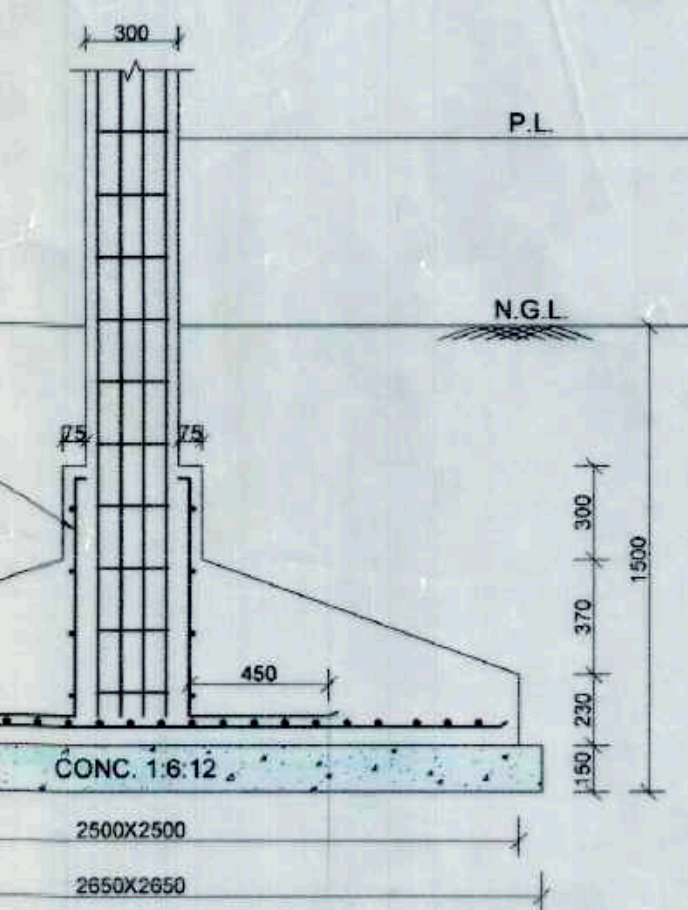
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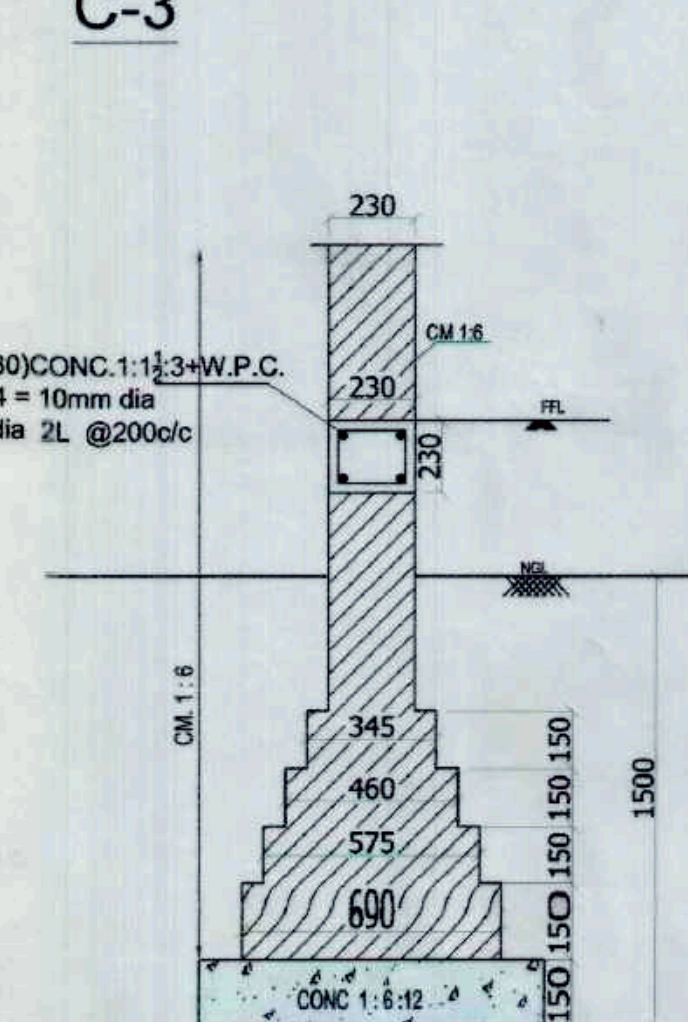
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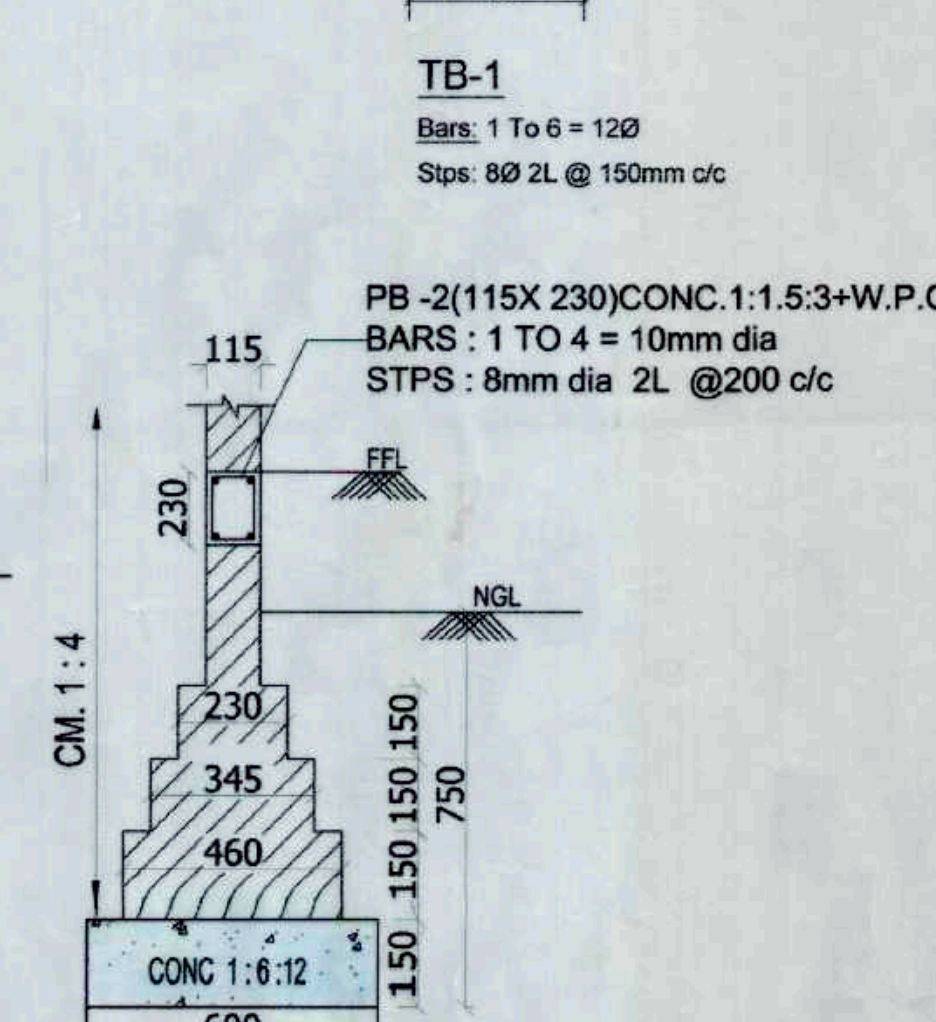
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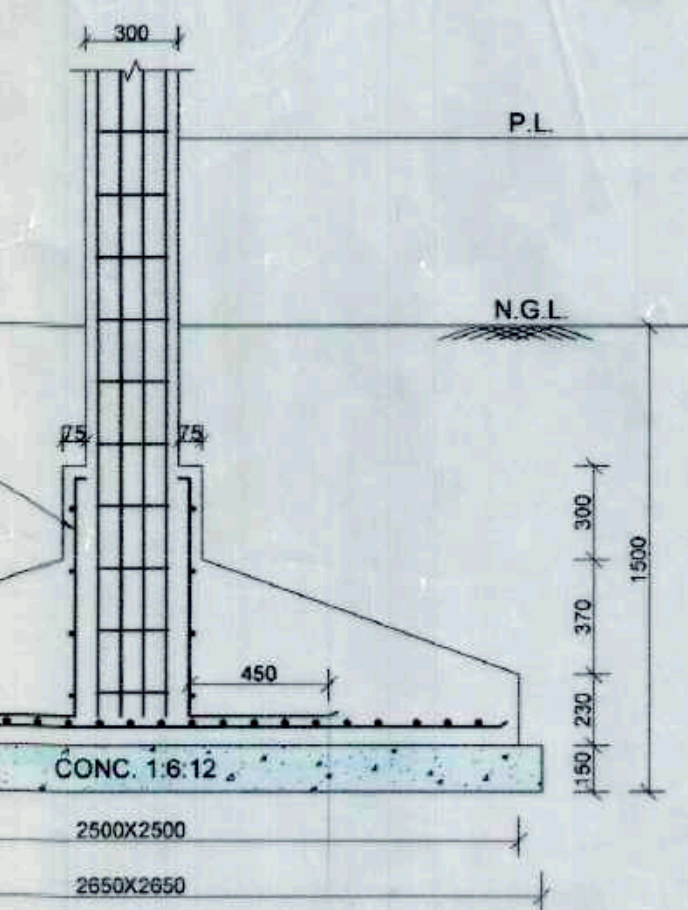
TB-1



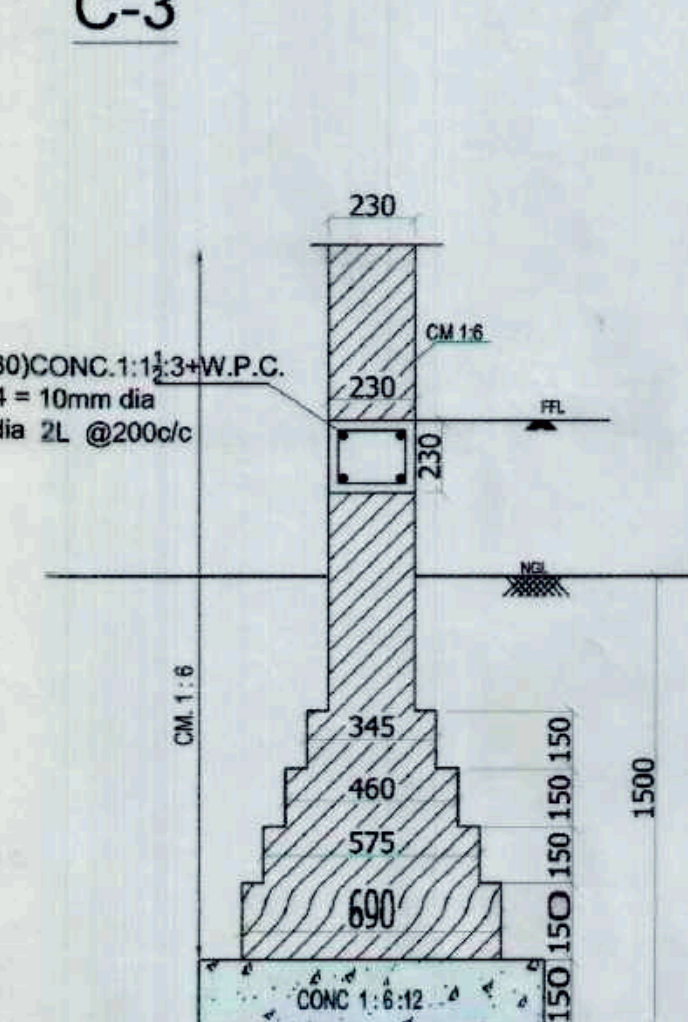
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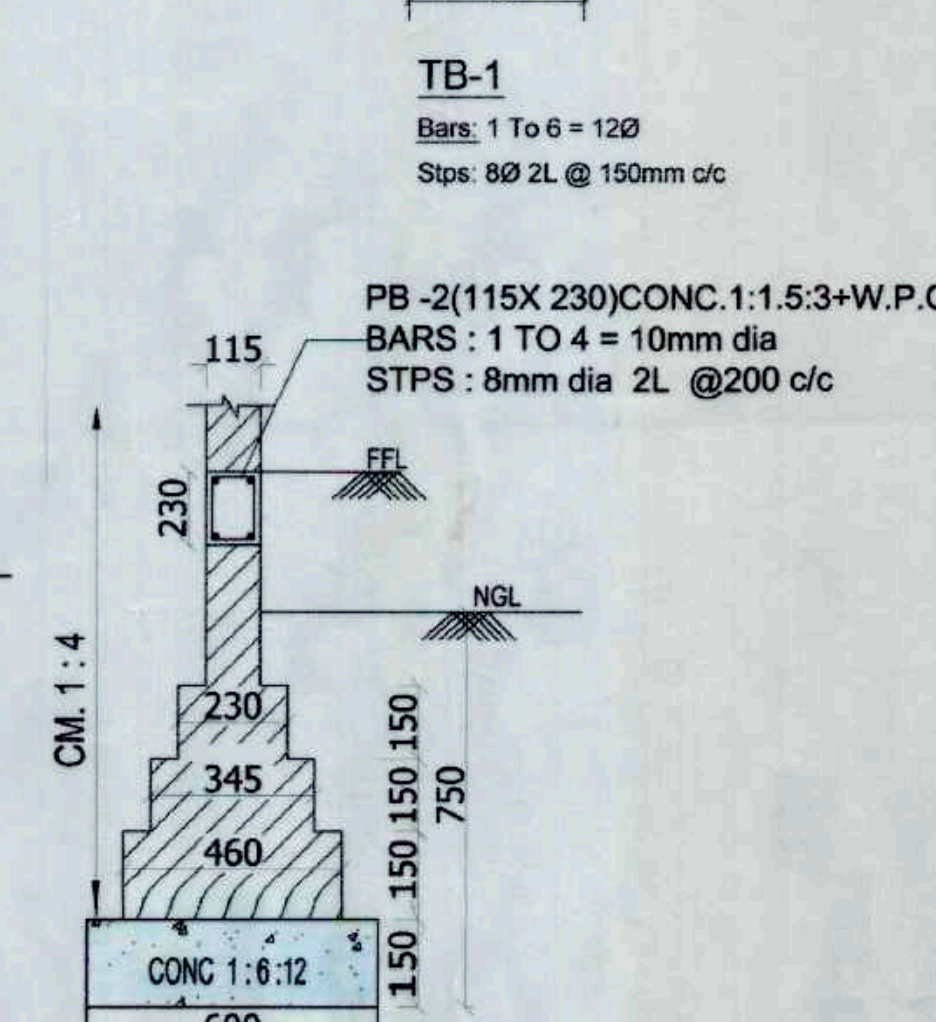
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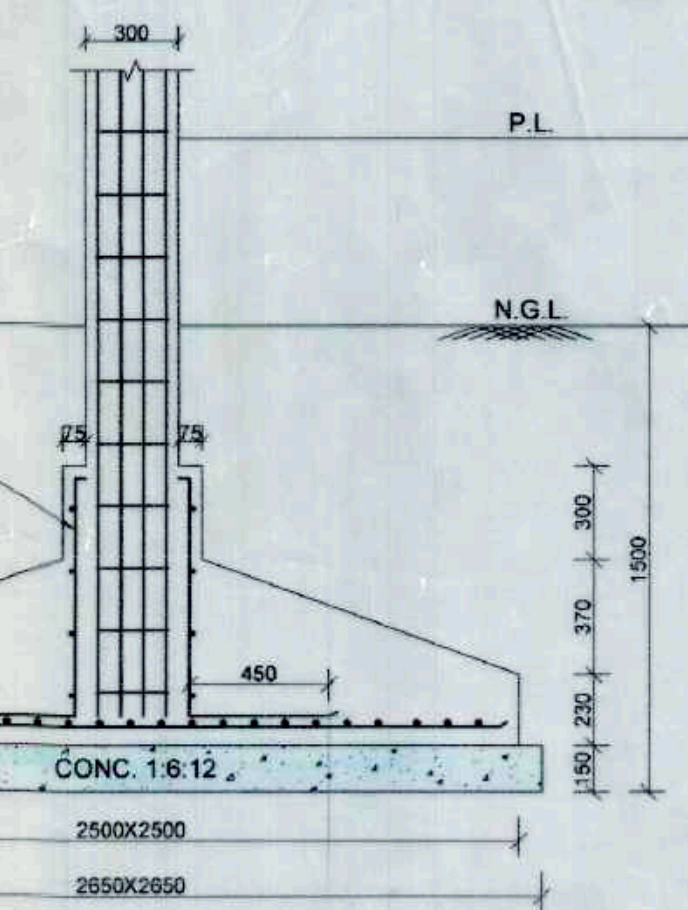
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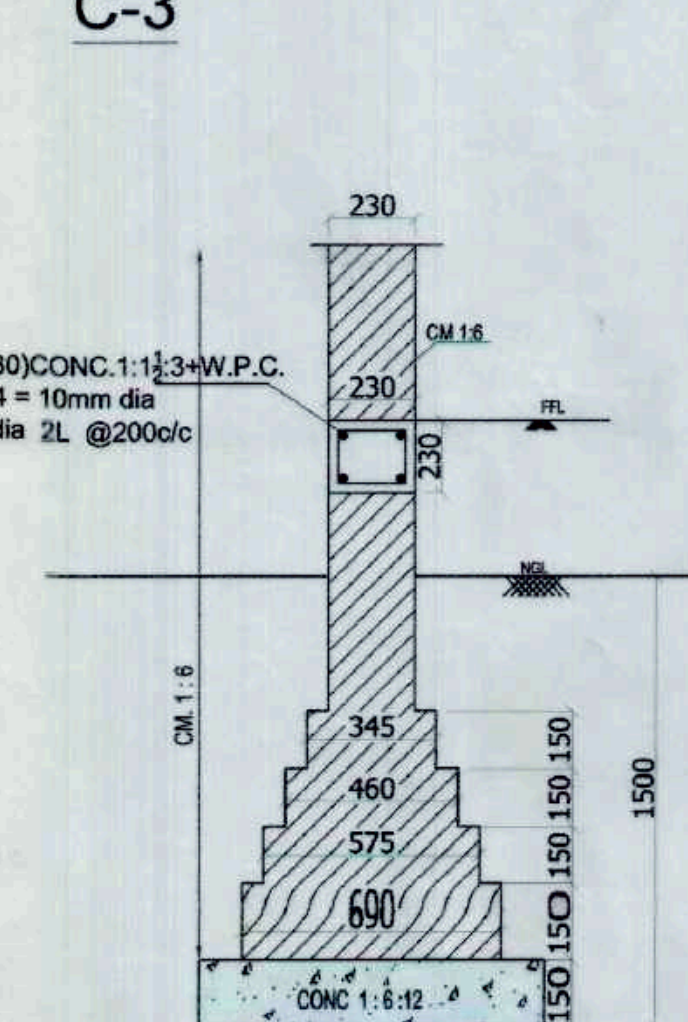
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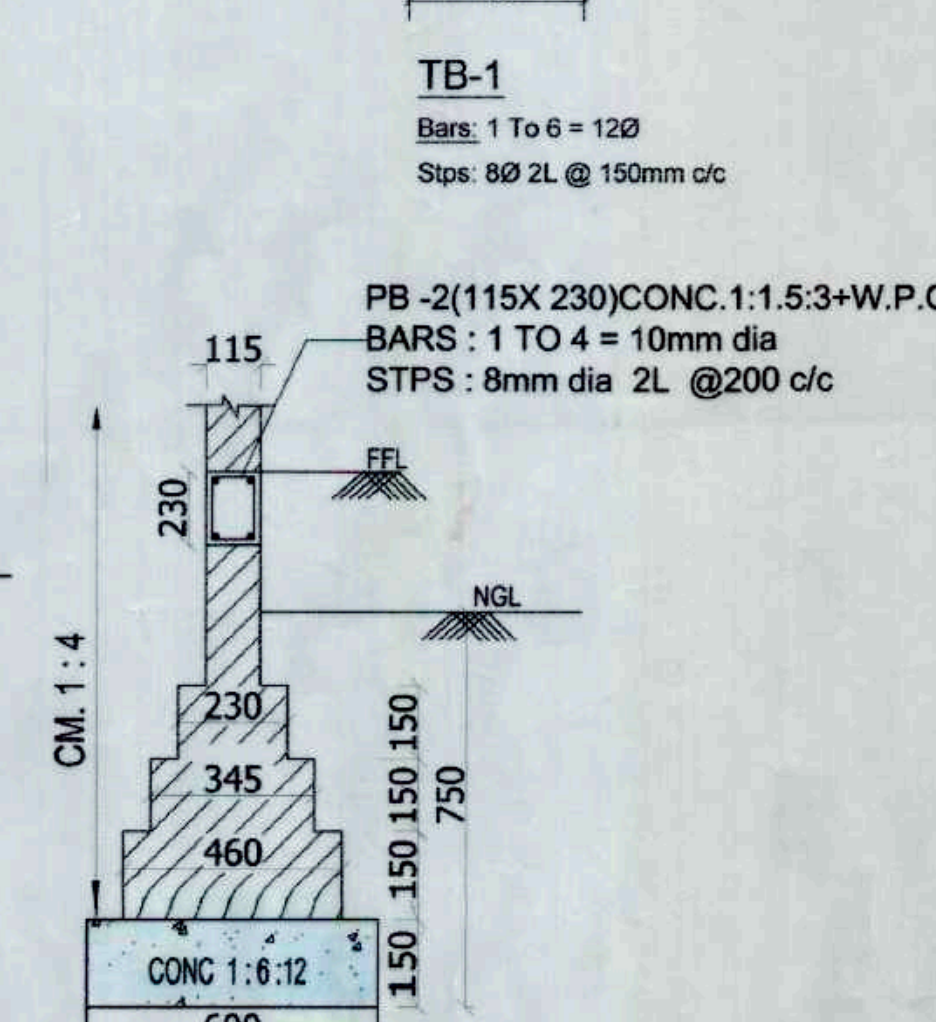
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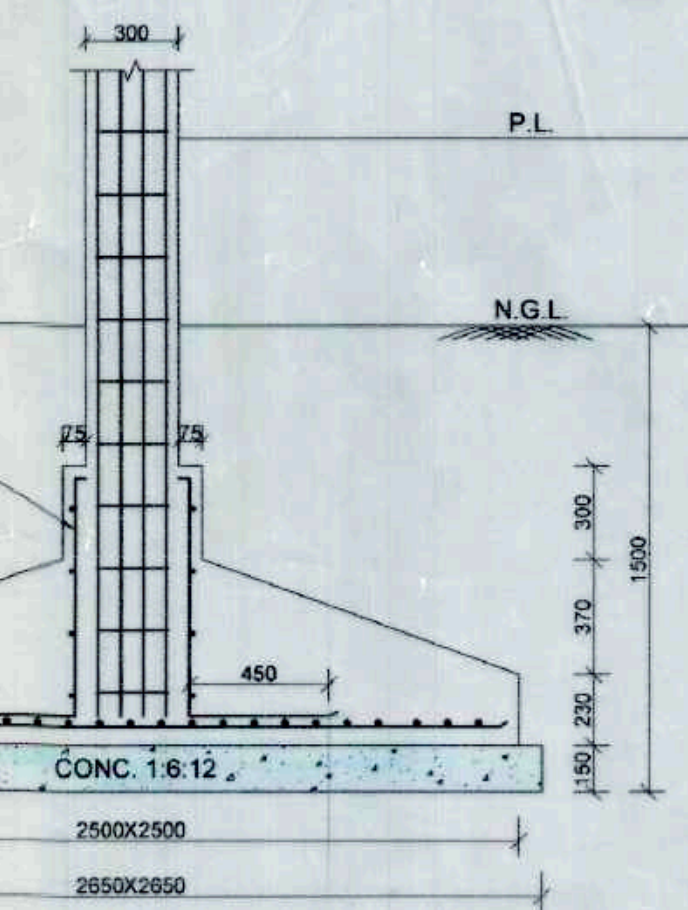
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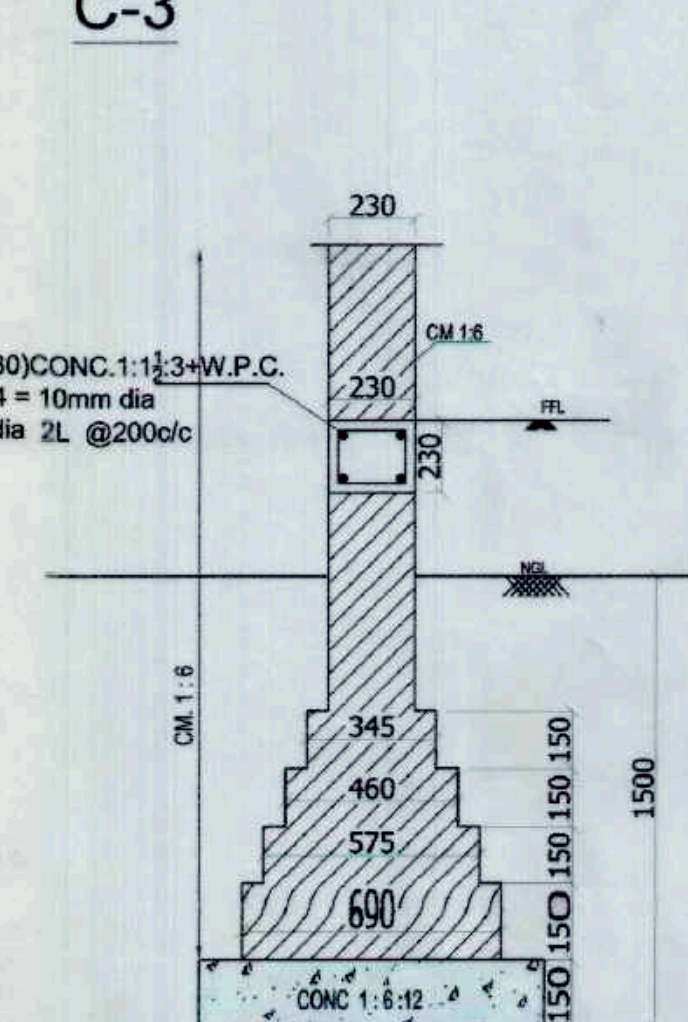
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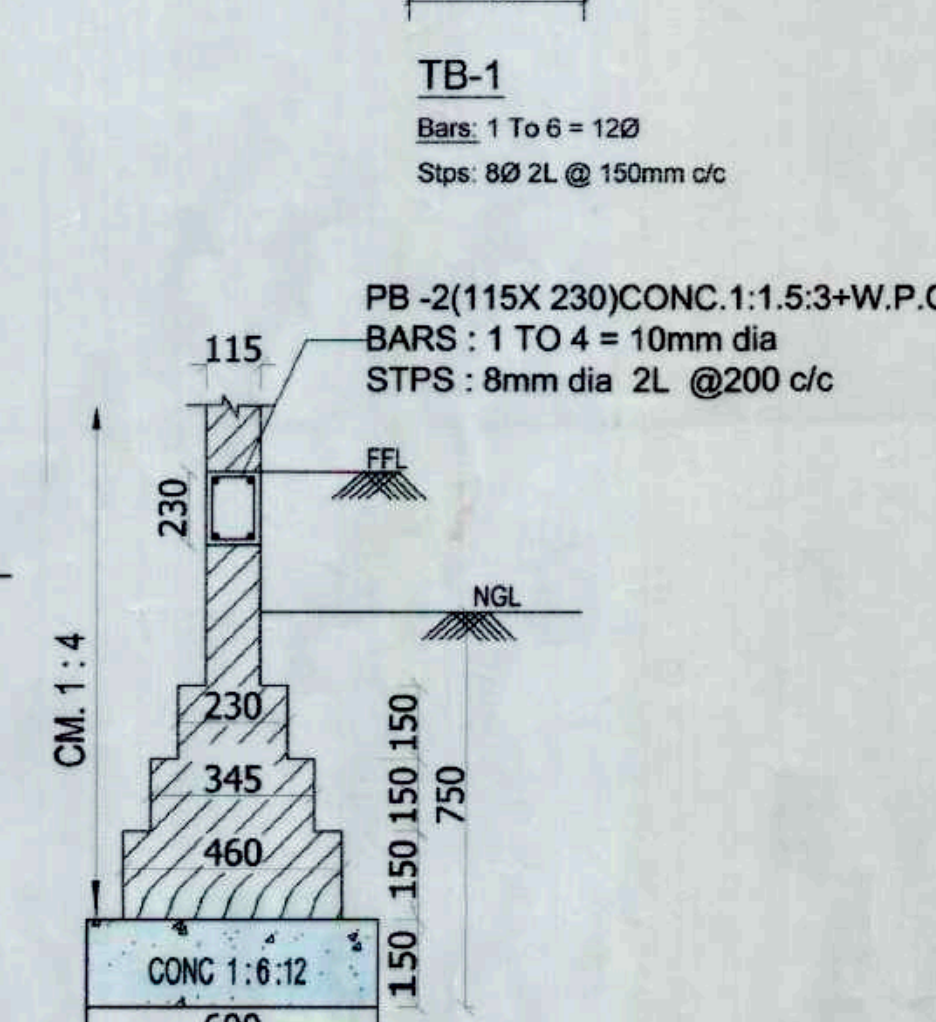
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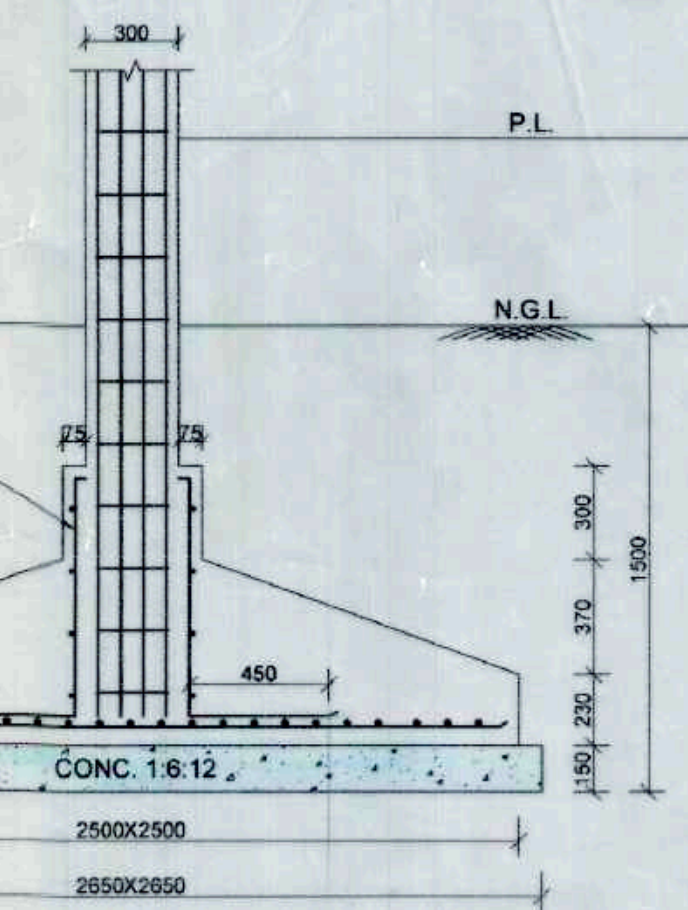
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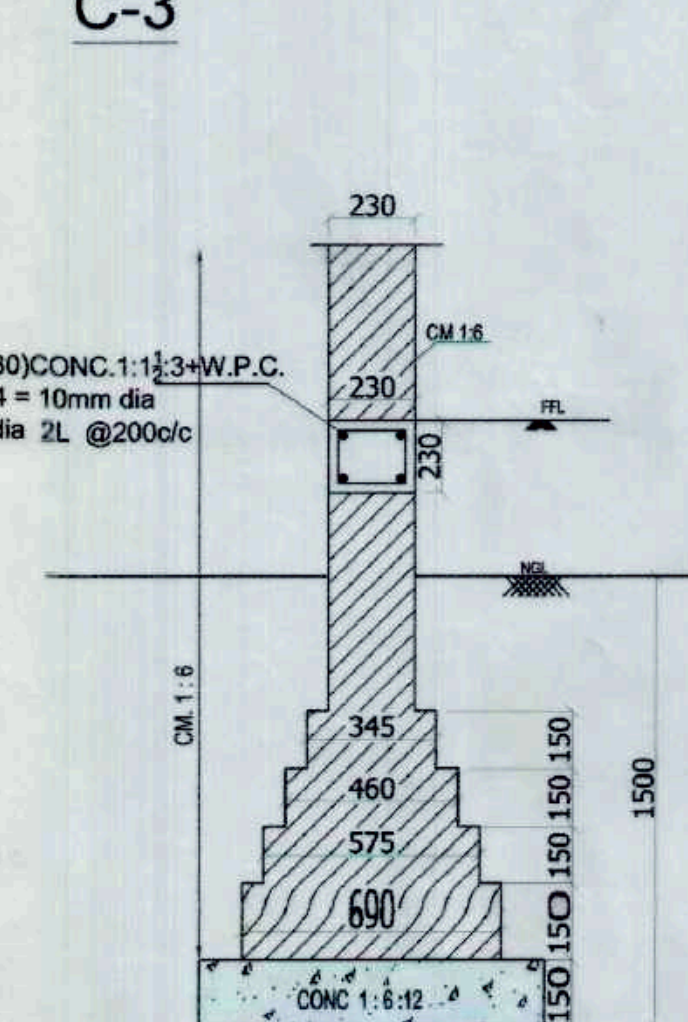
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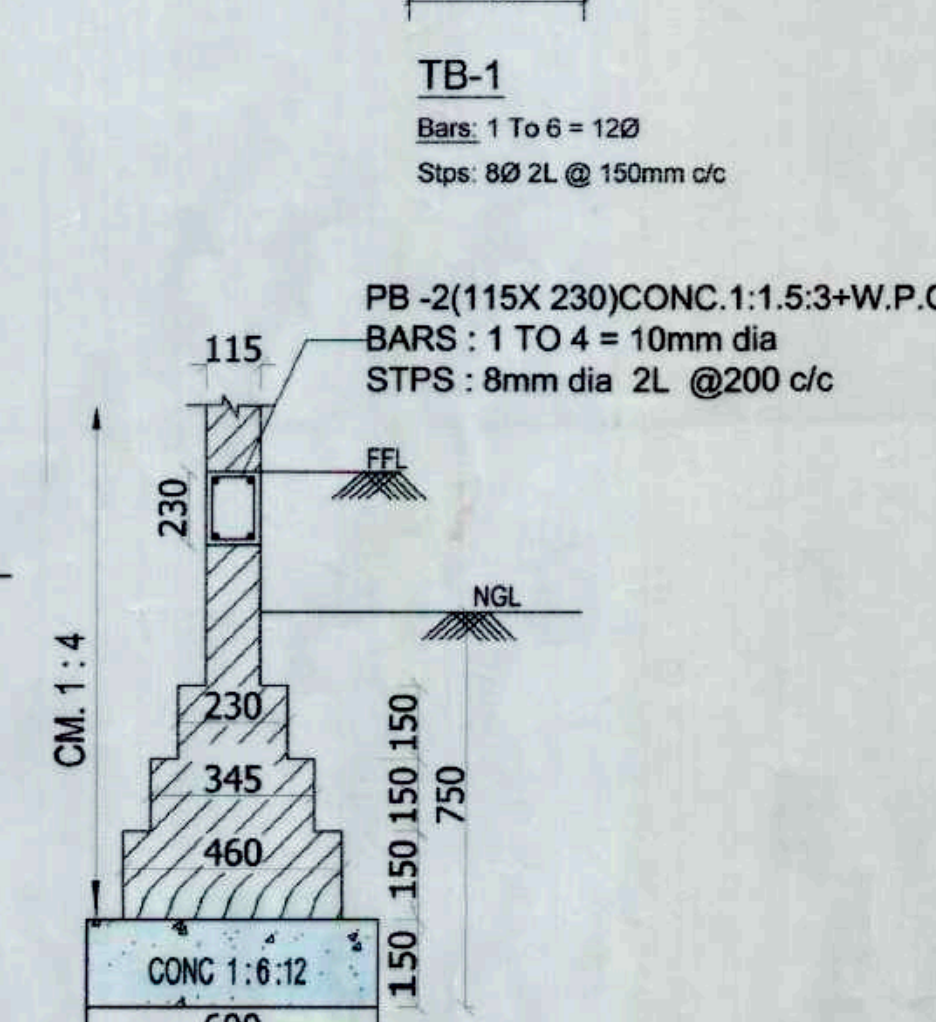
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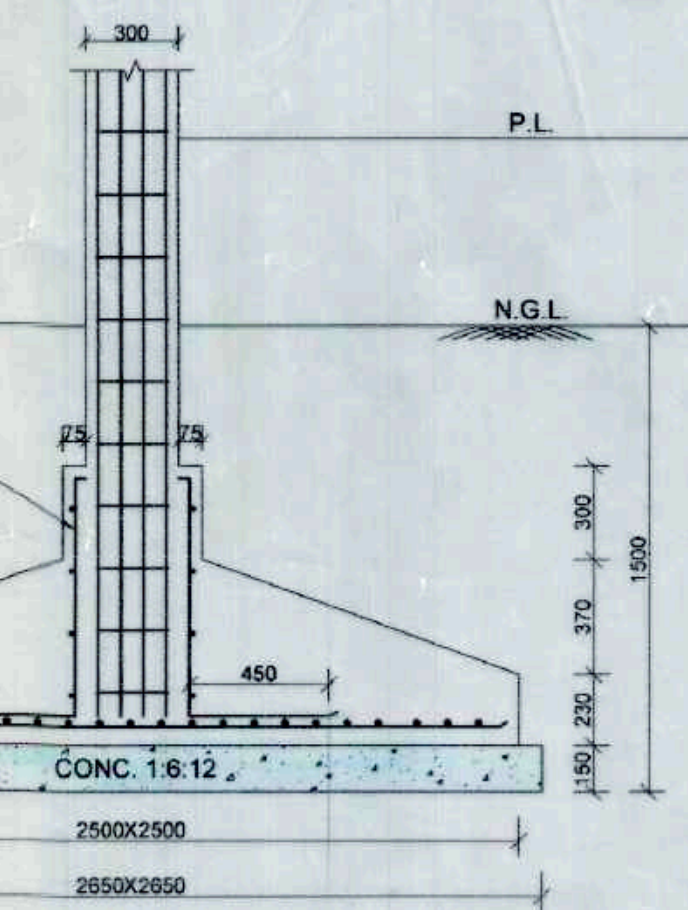
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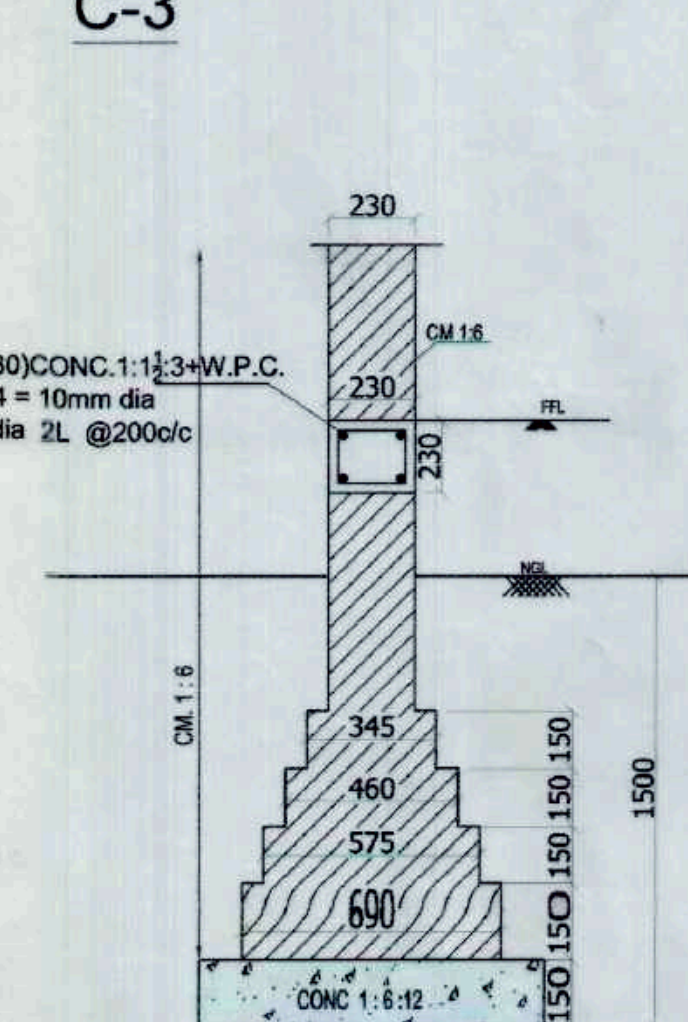
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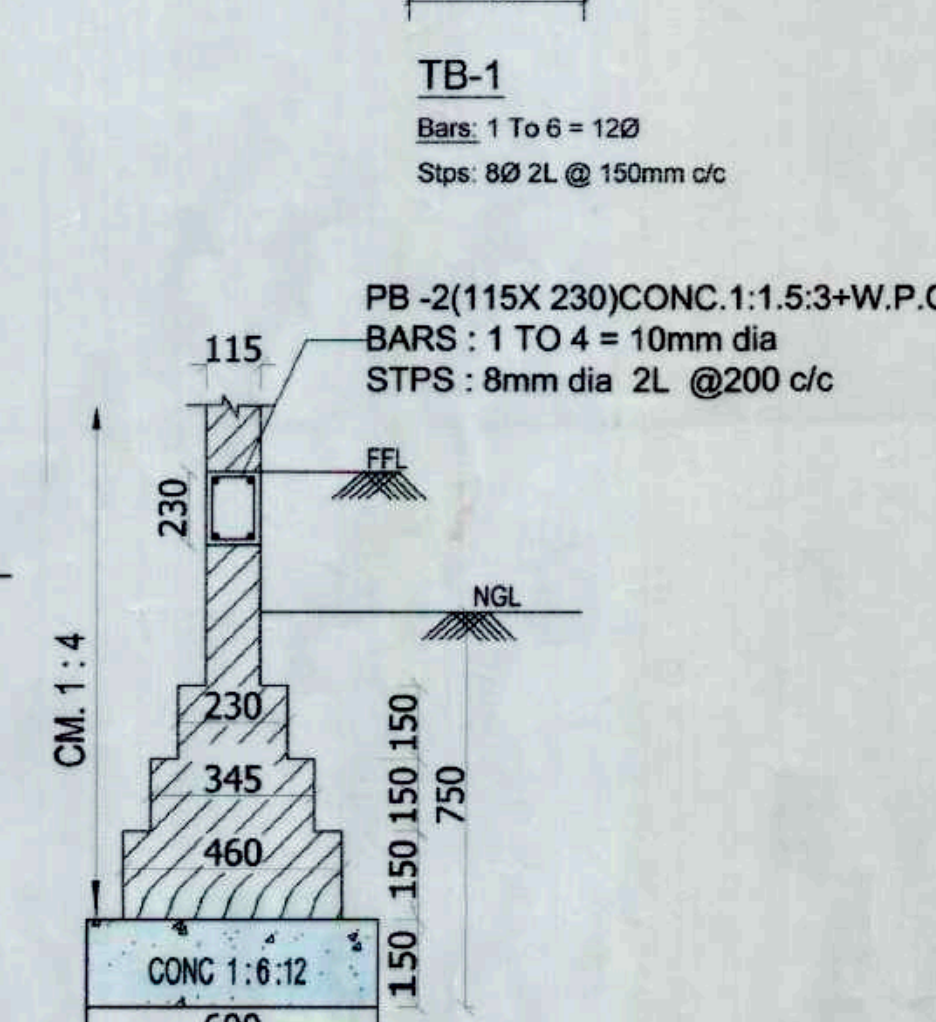
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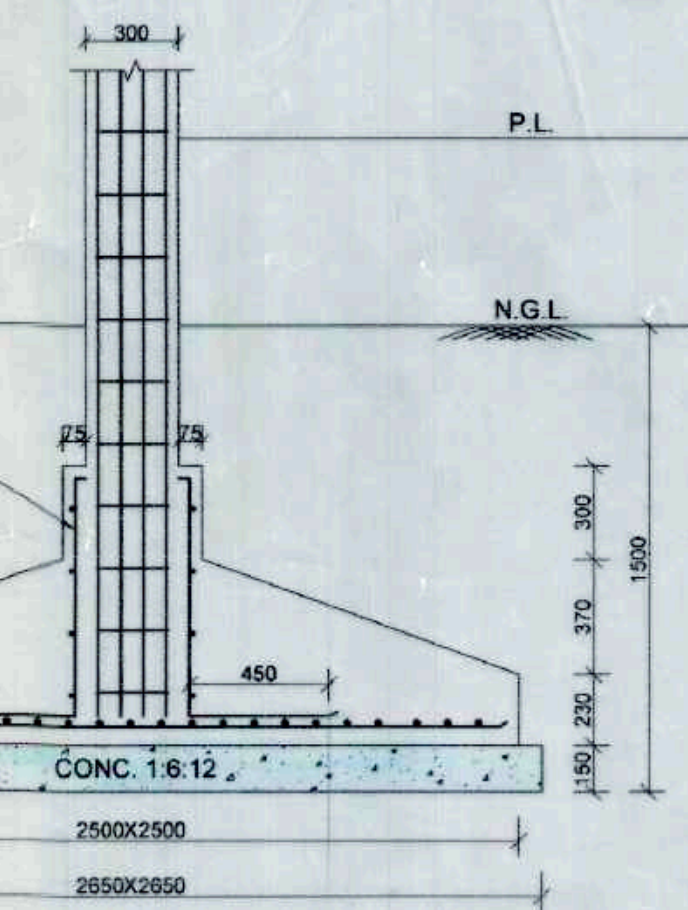
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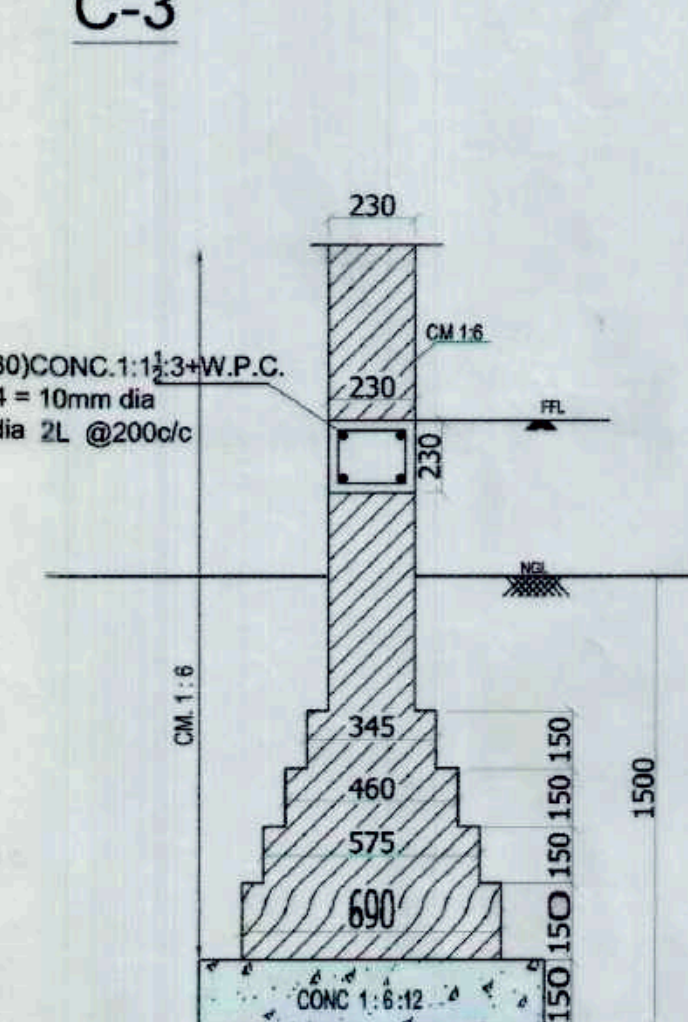
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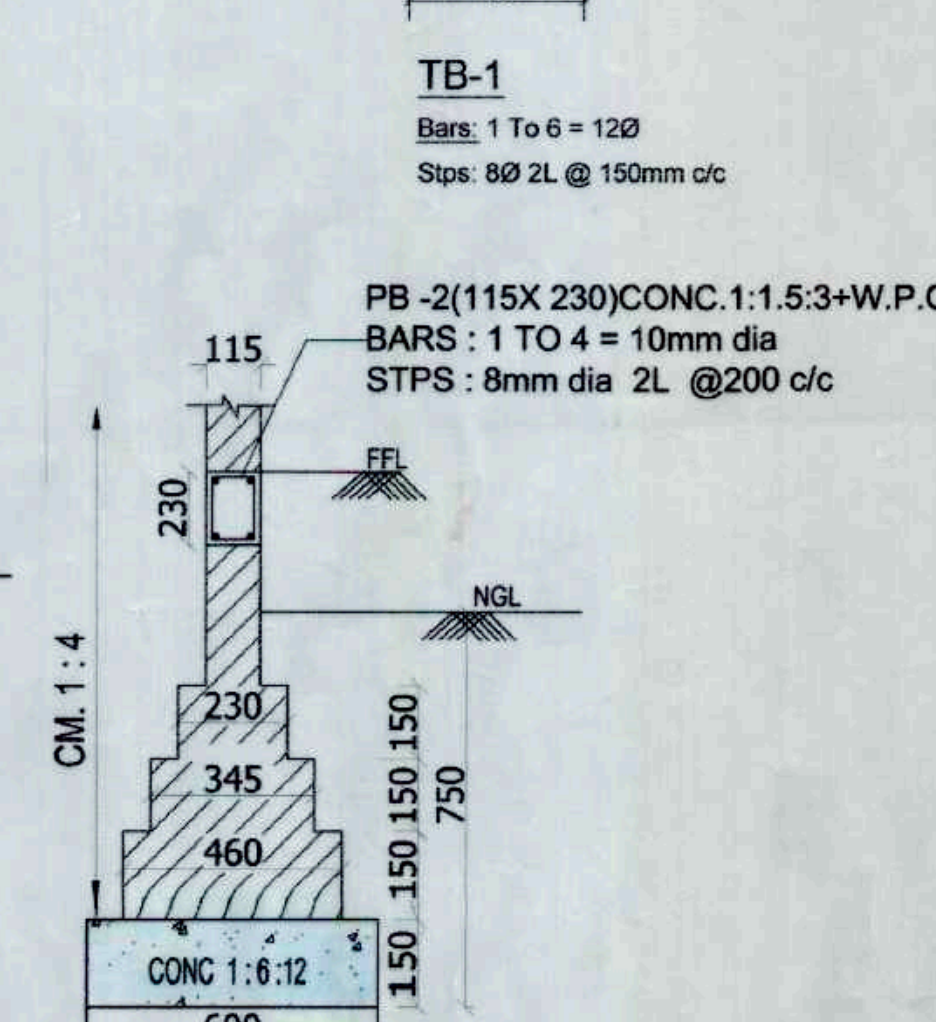
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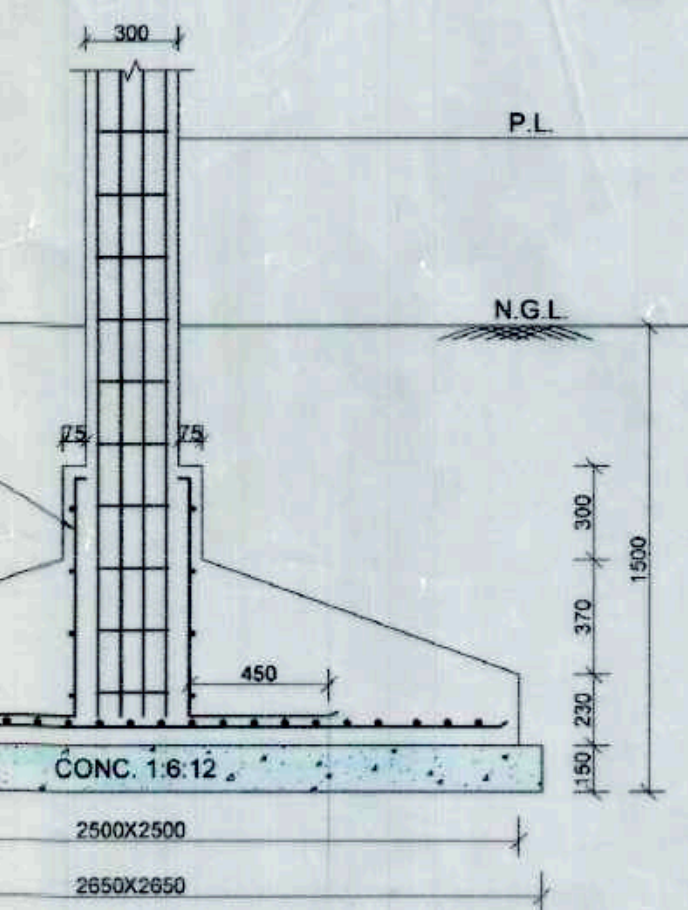
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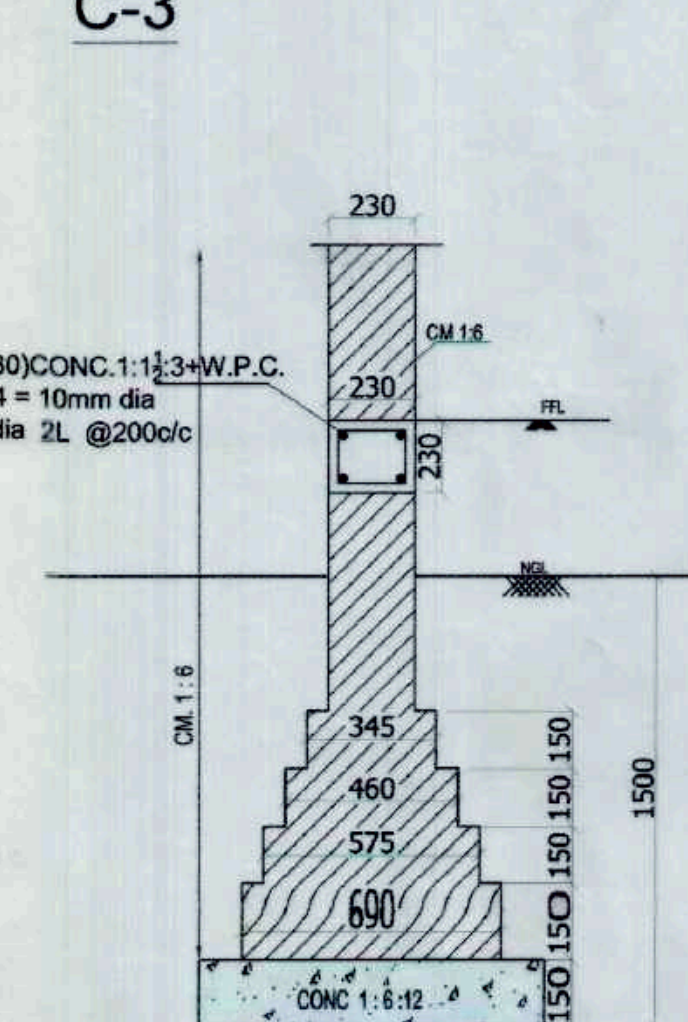
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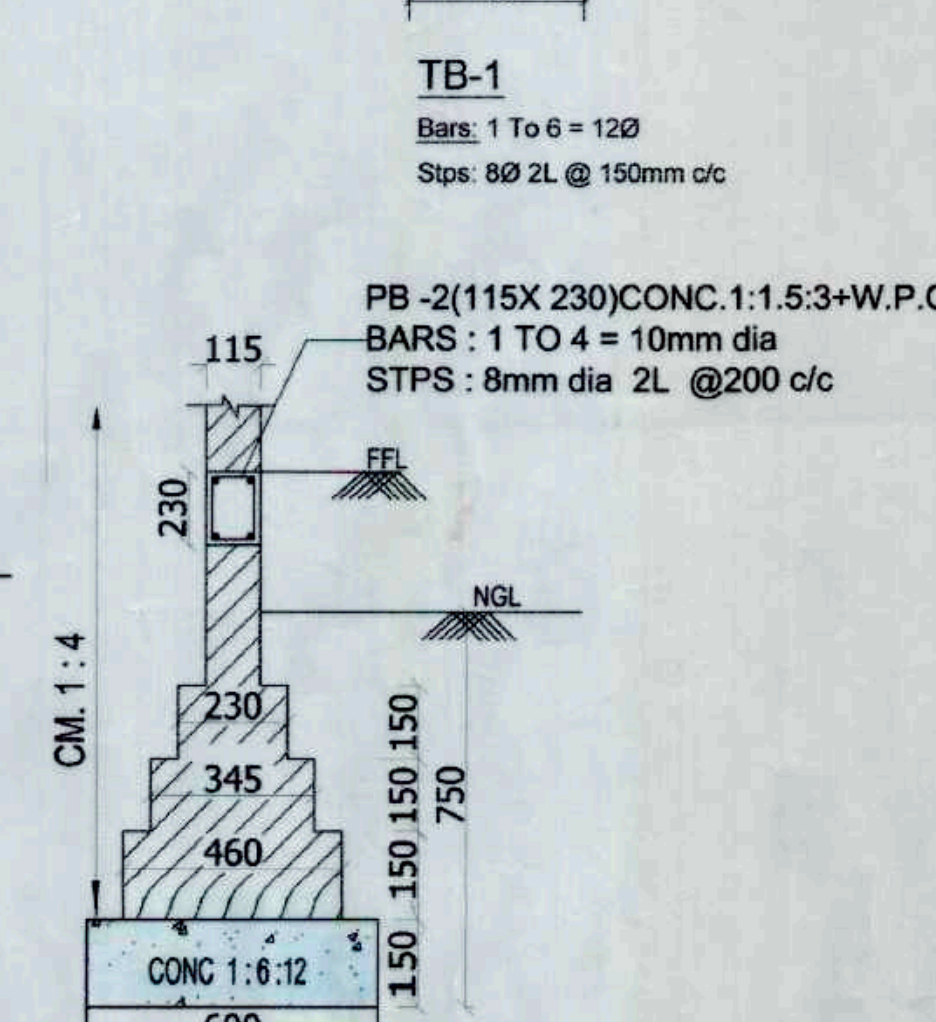
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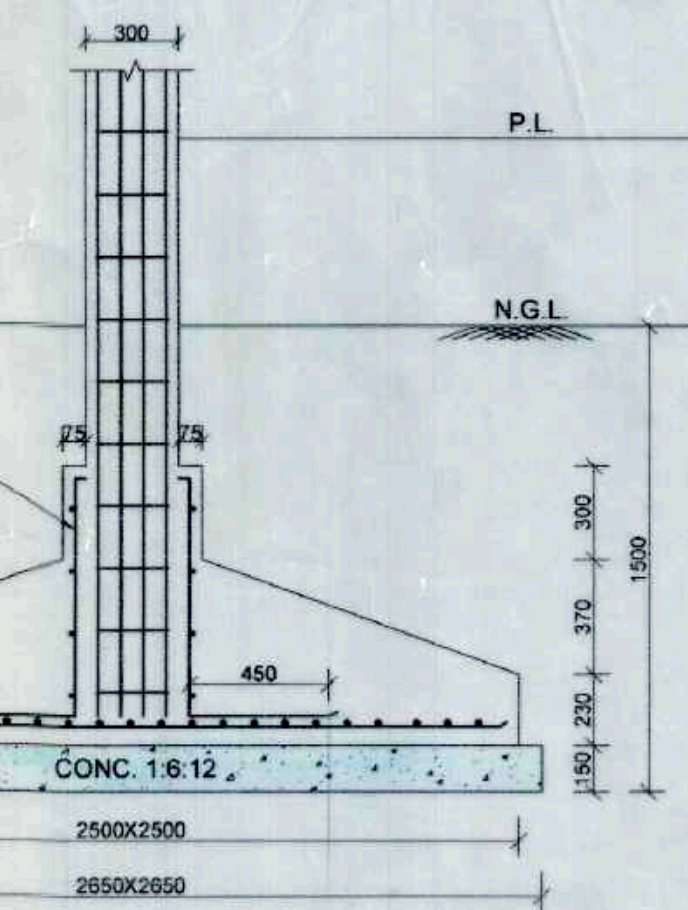
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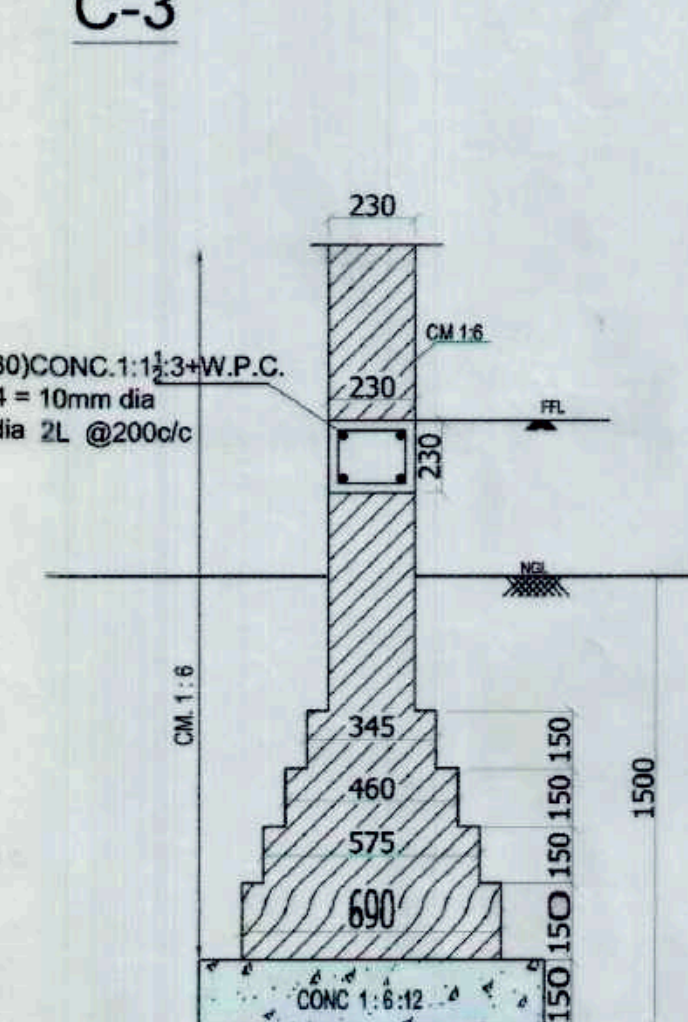
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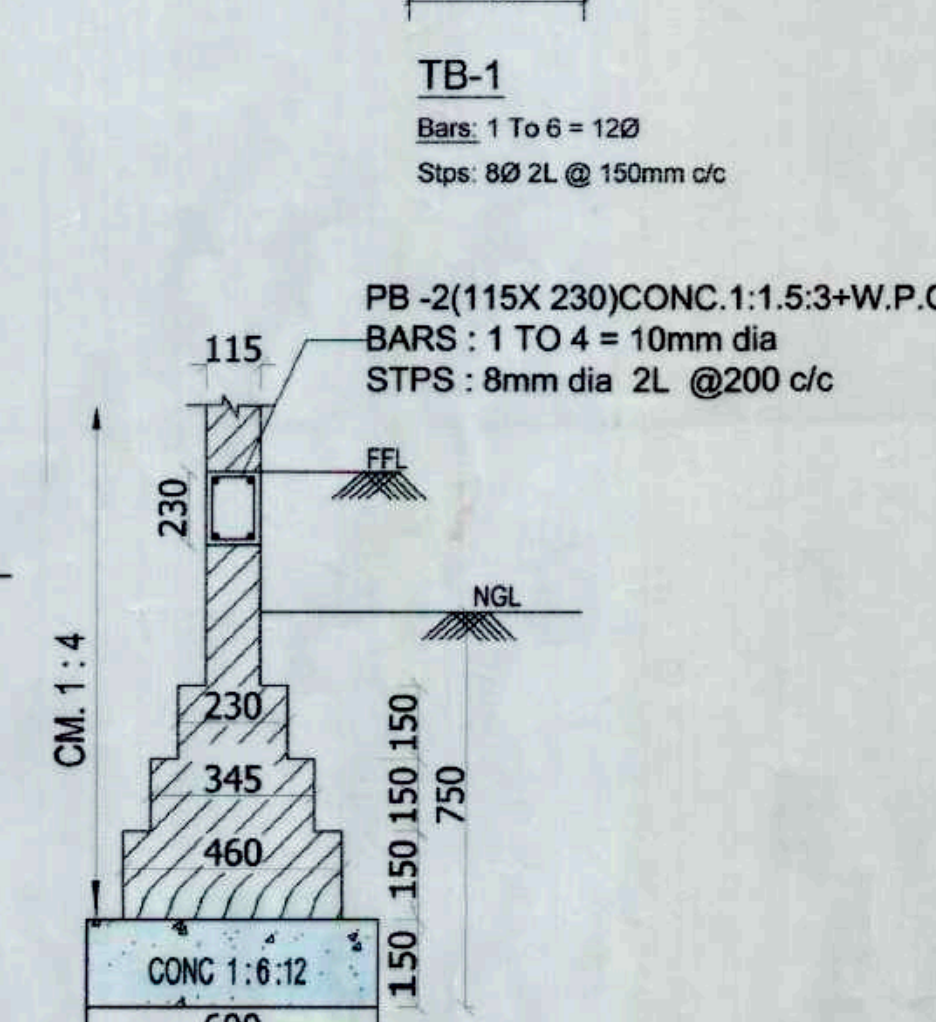
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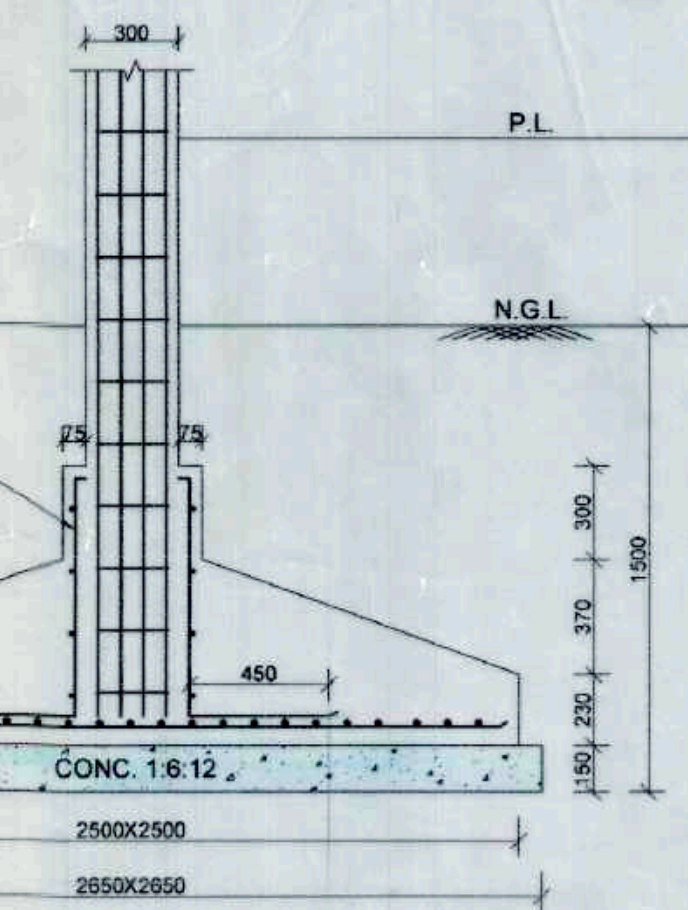
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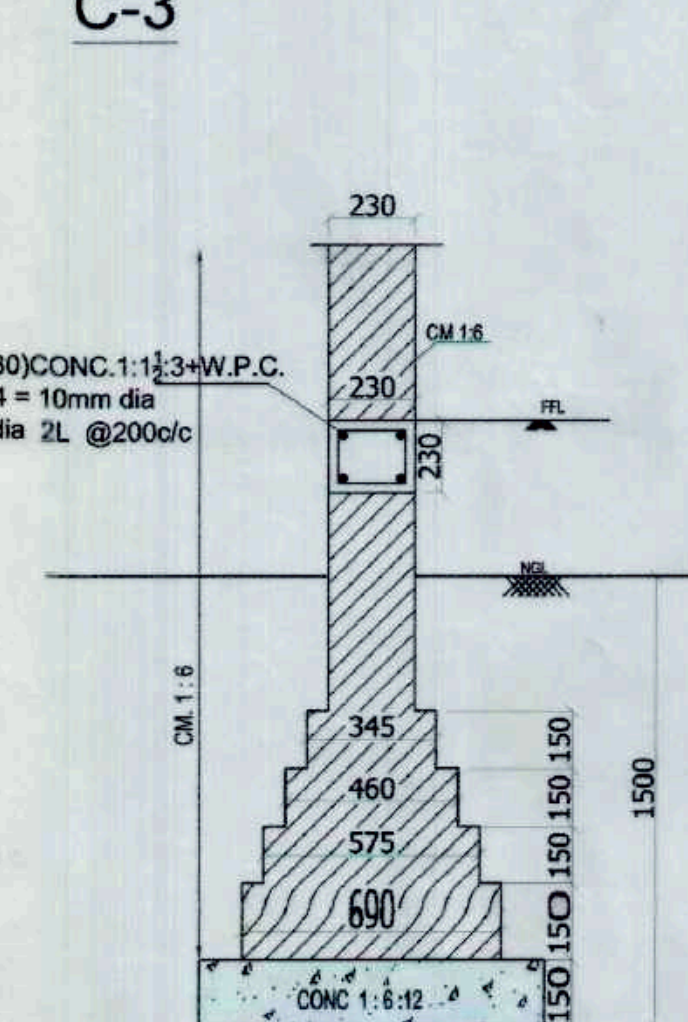
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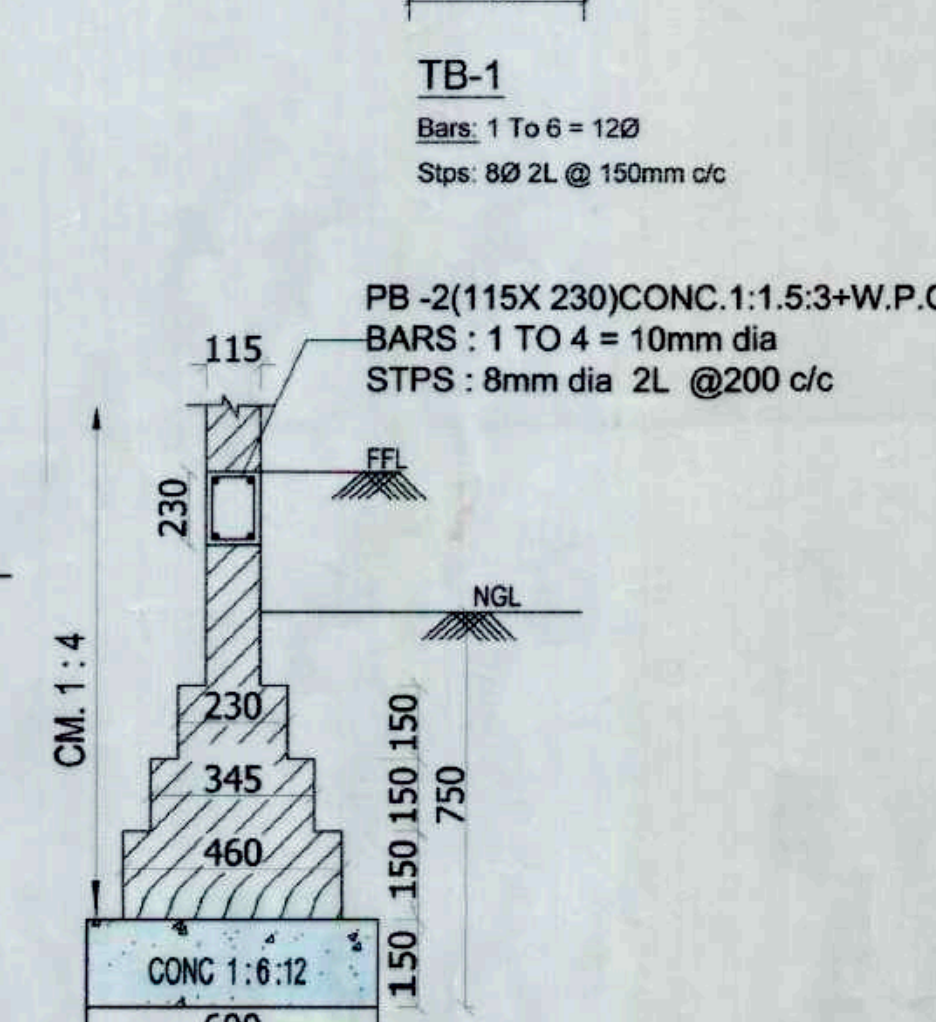
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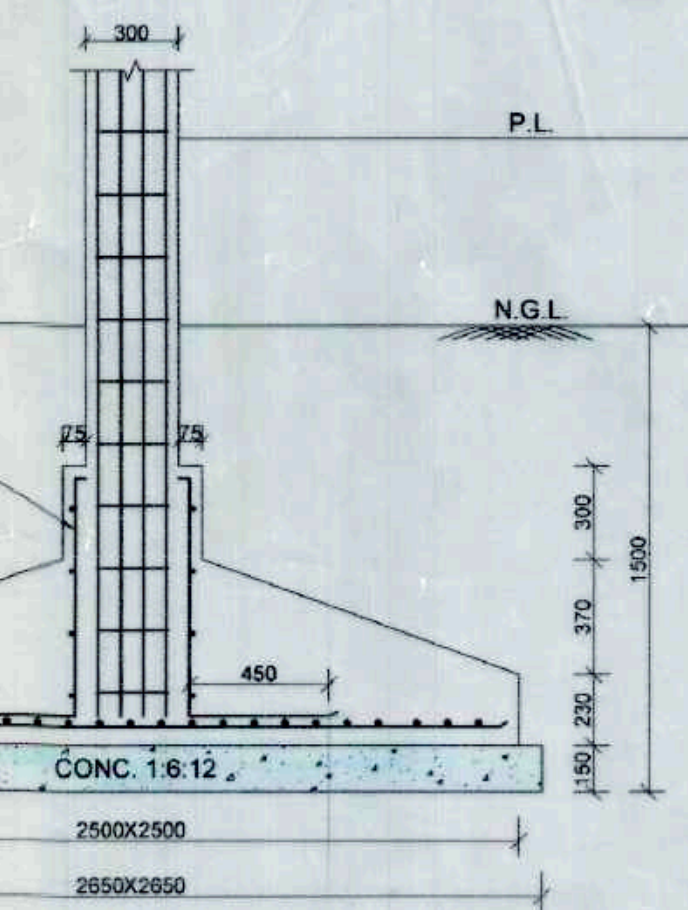
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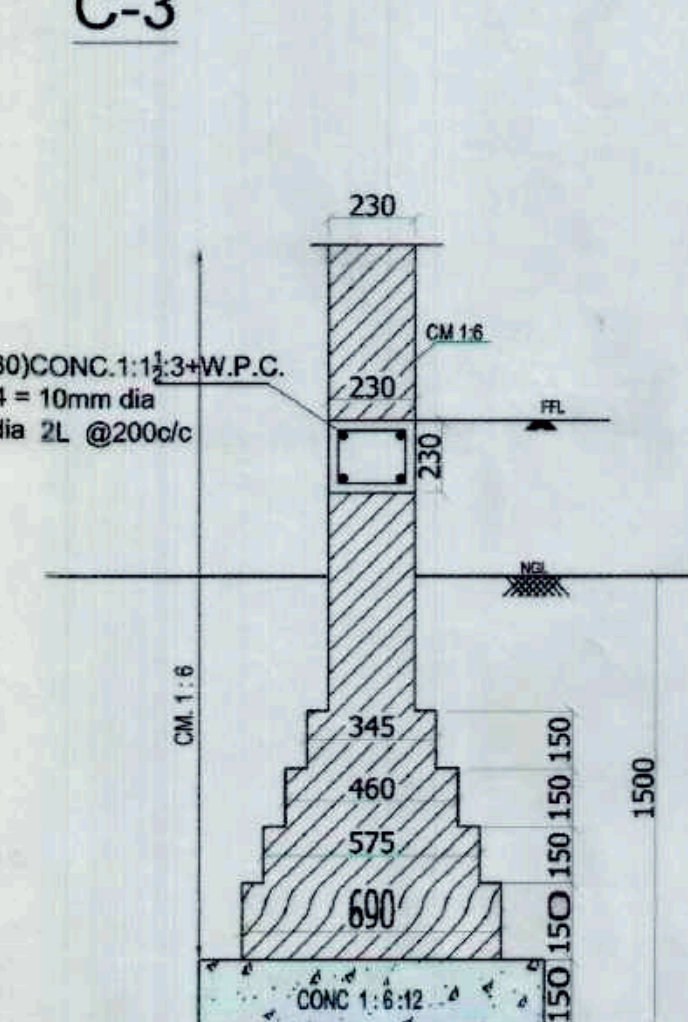
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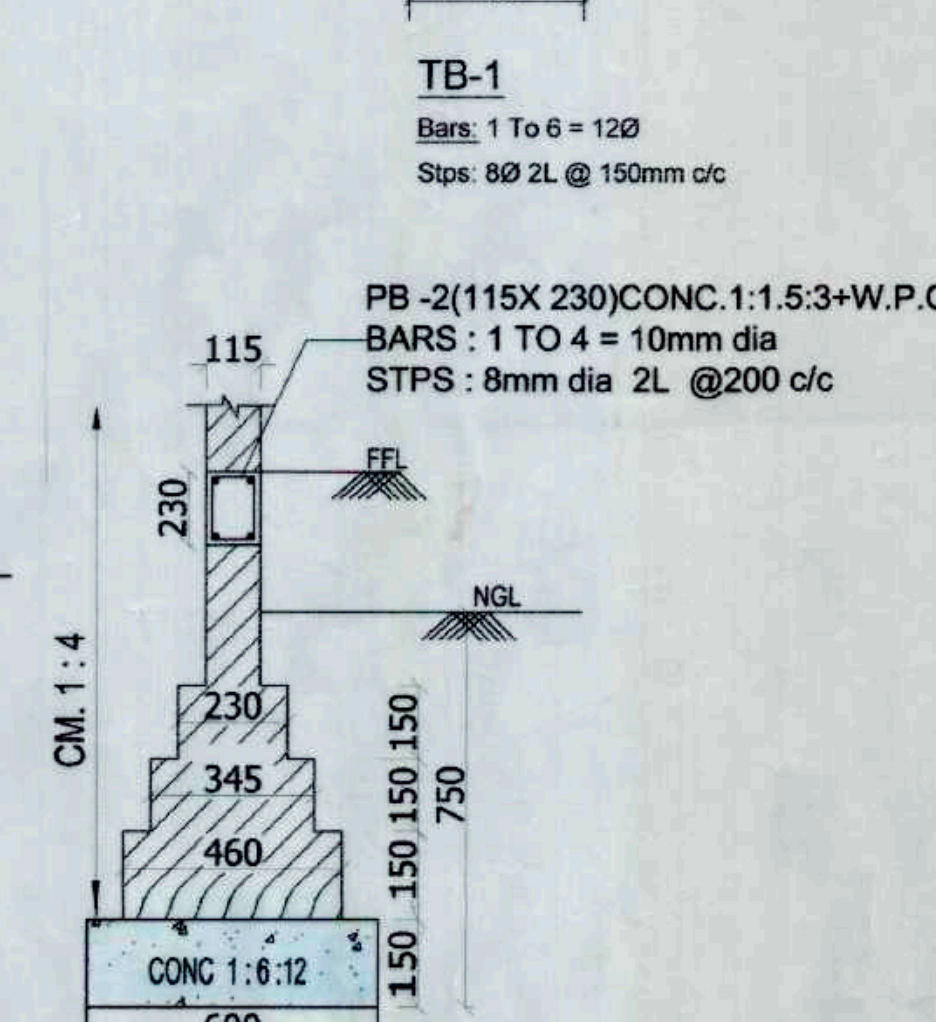
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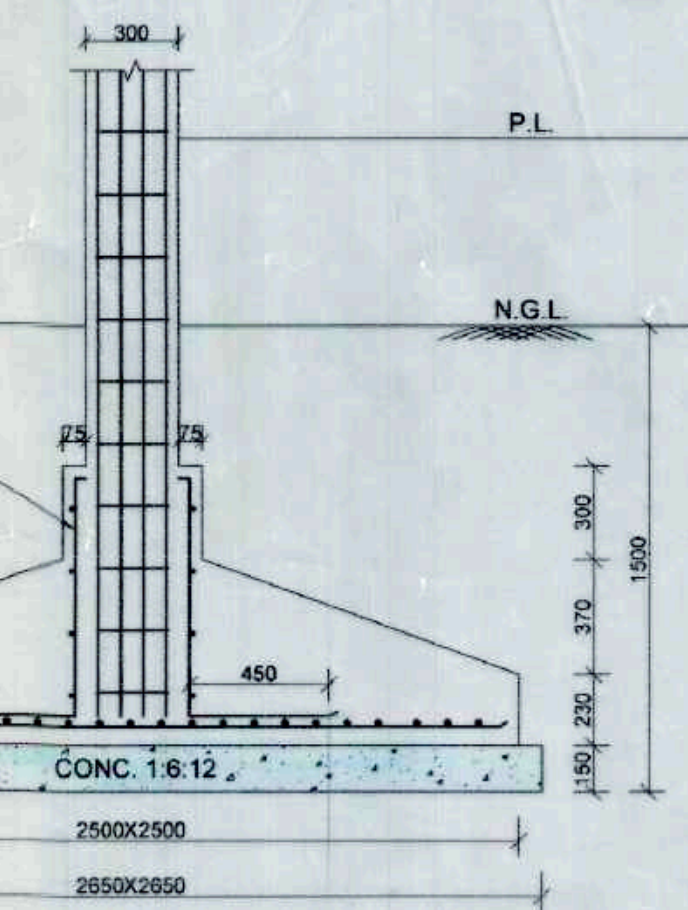
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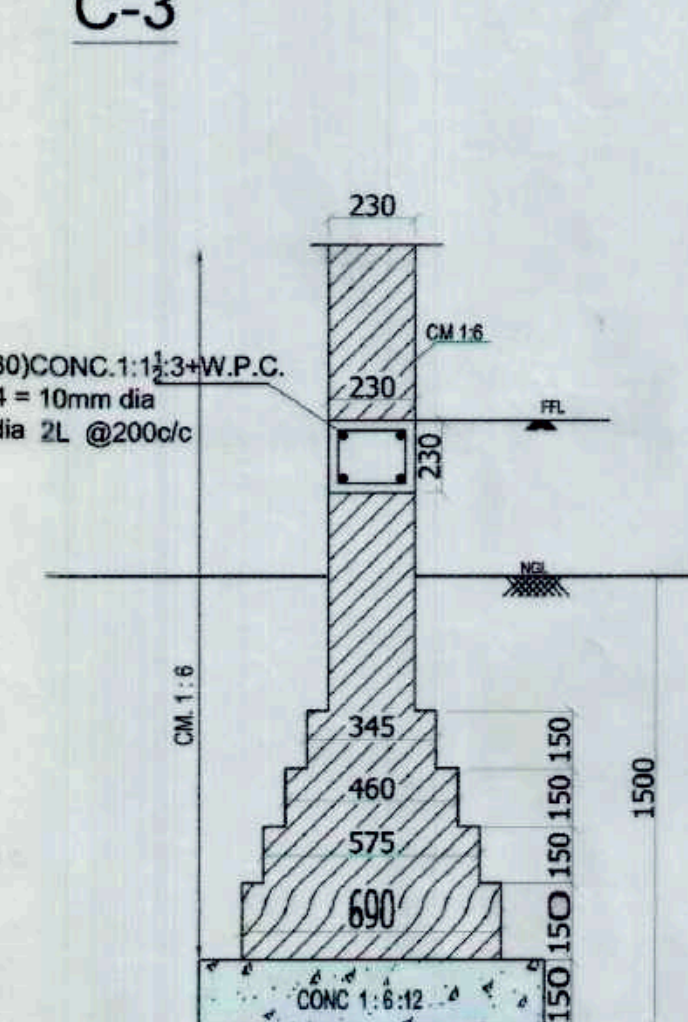
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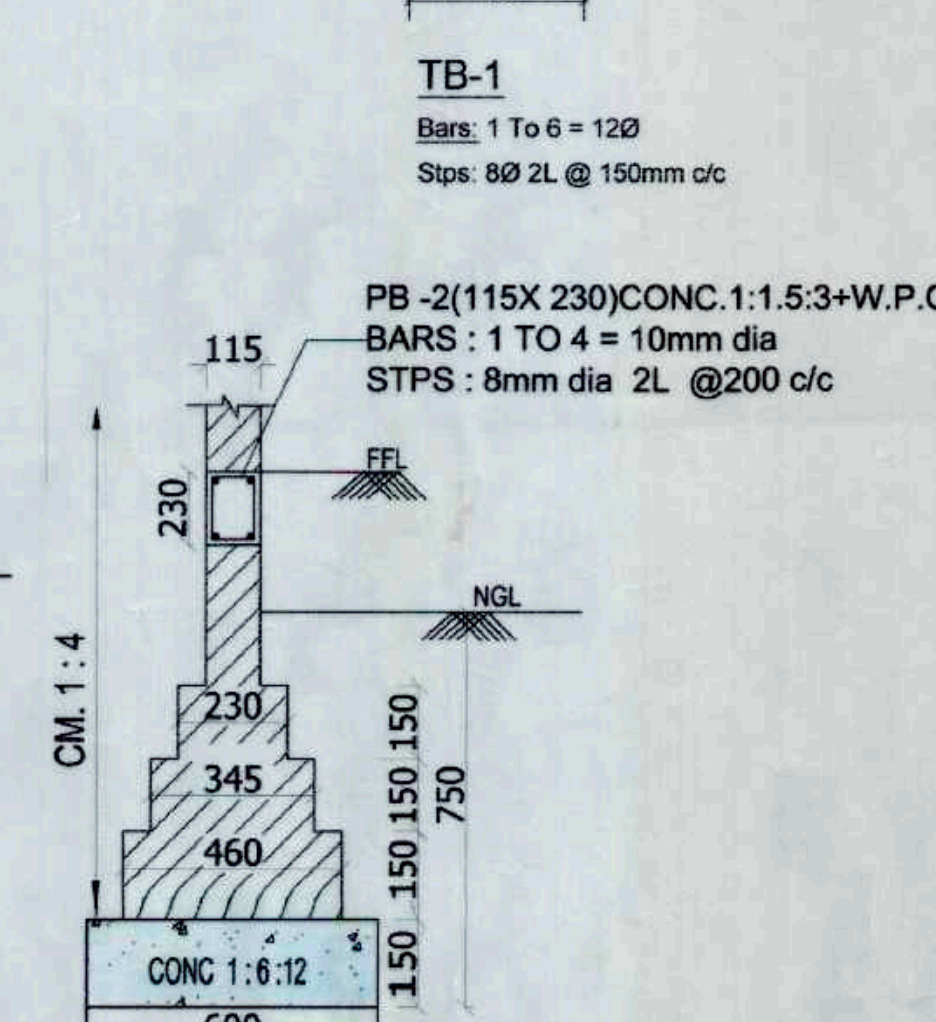
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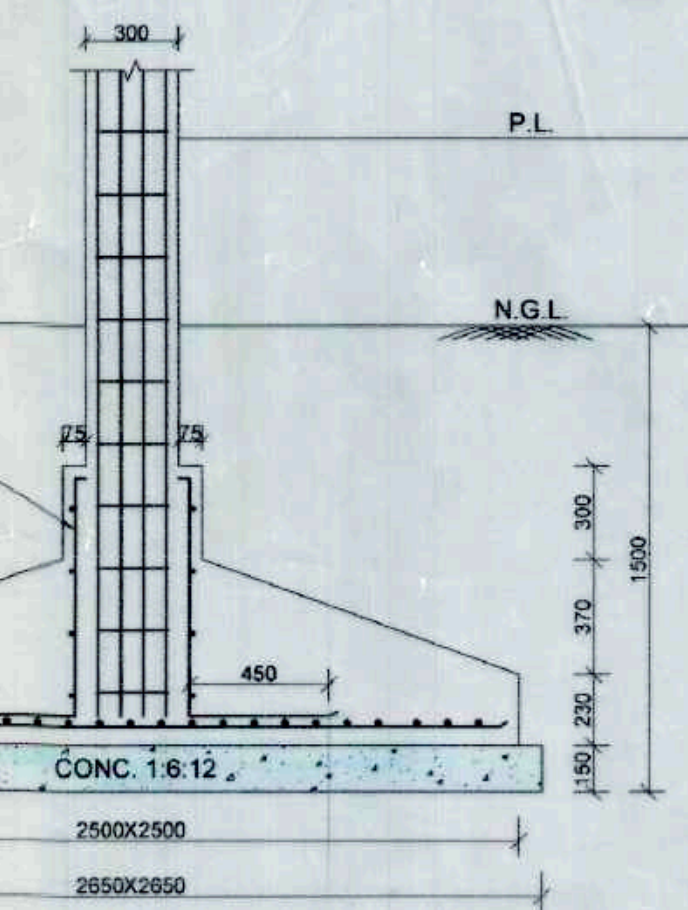
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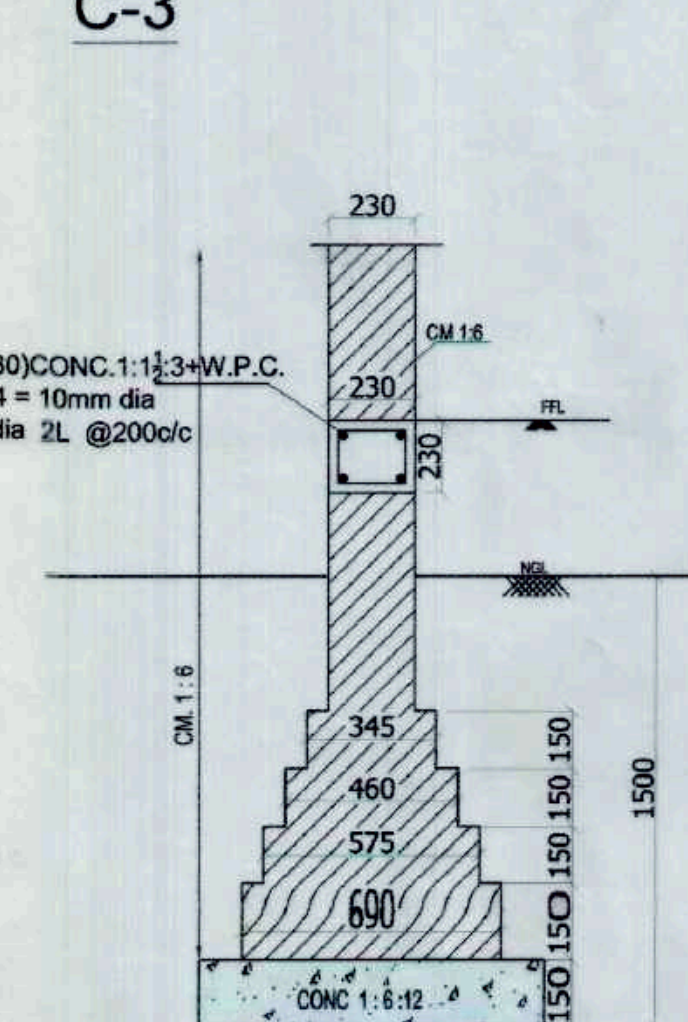
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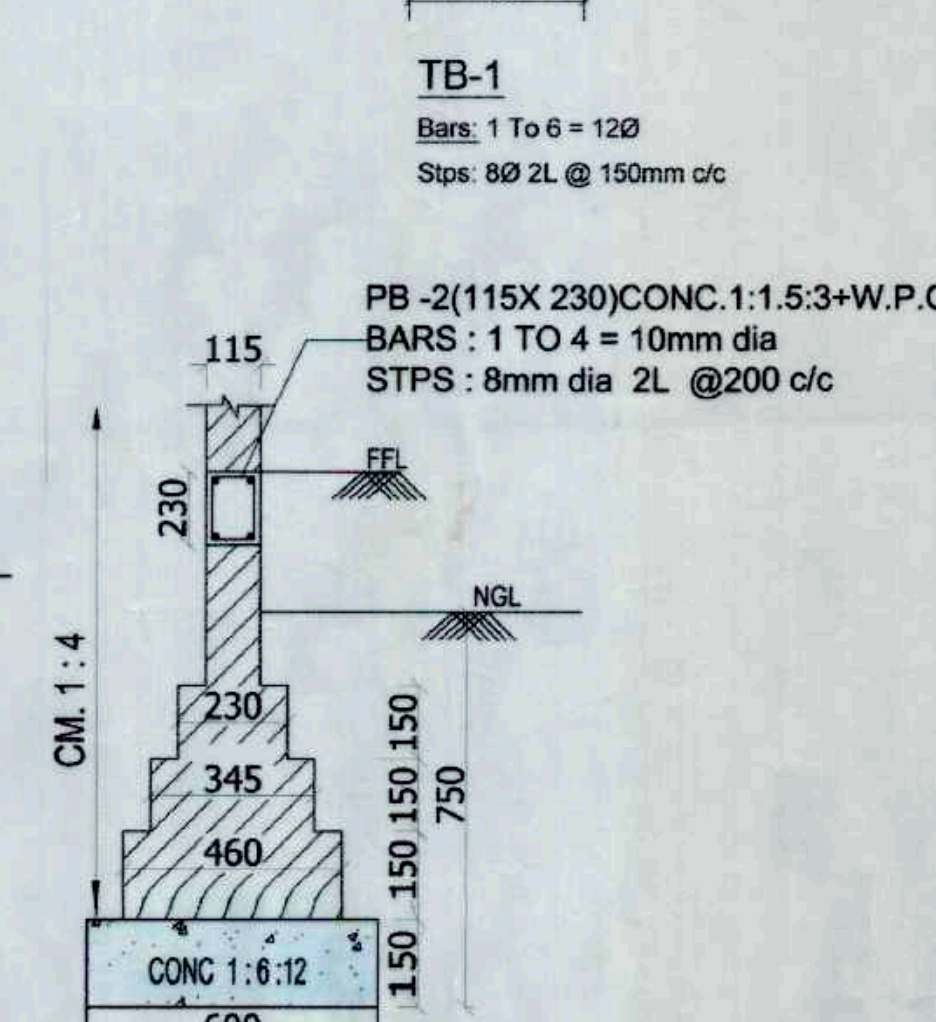
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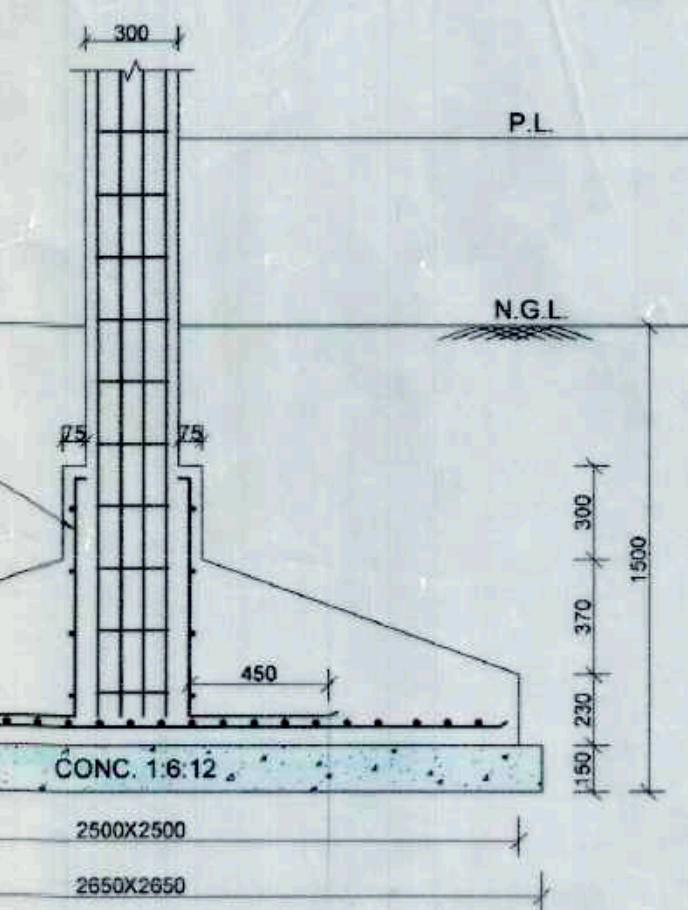
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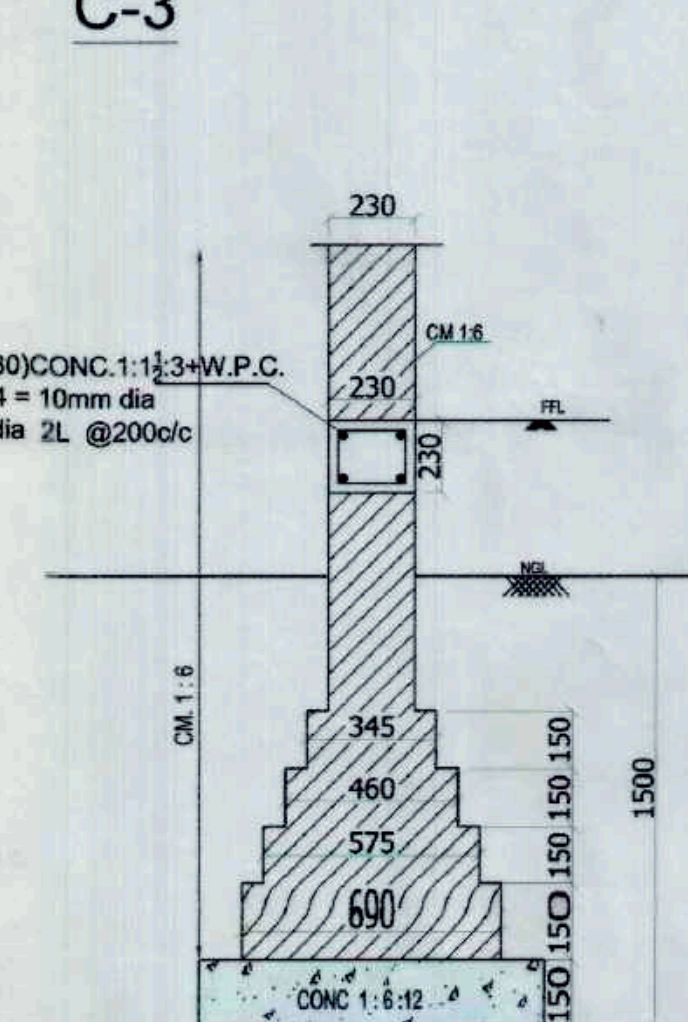
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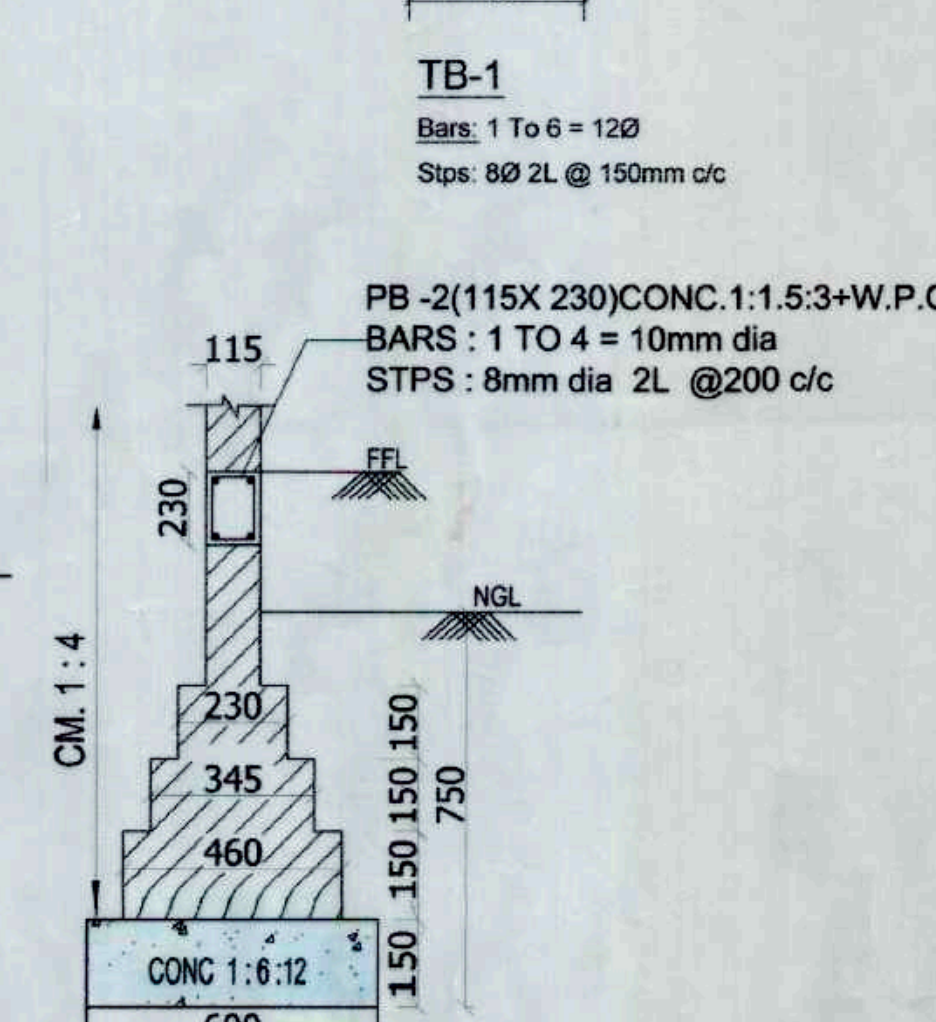
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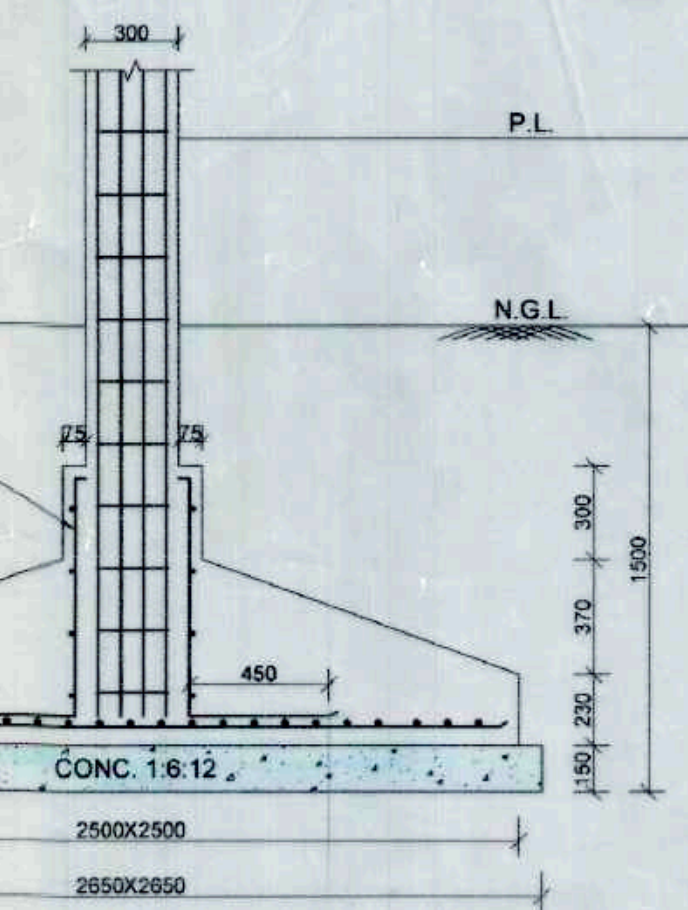
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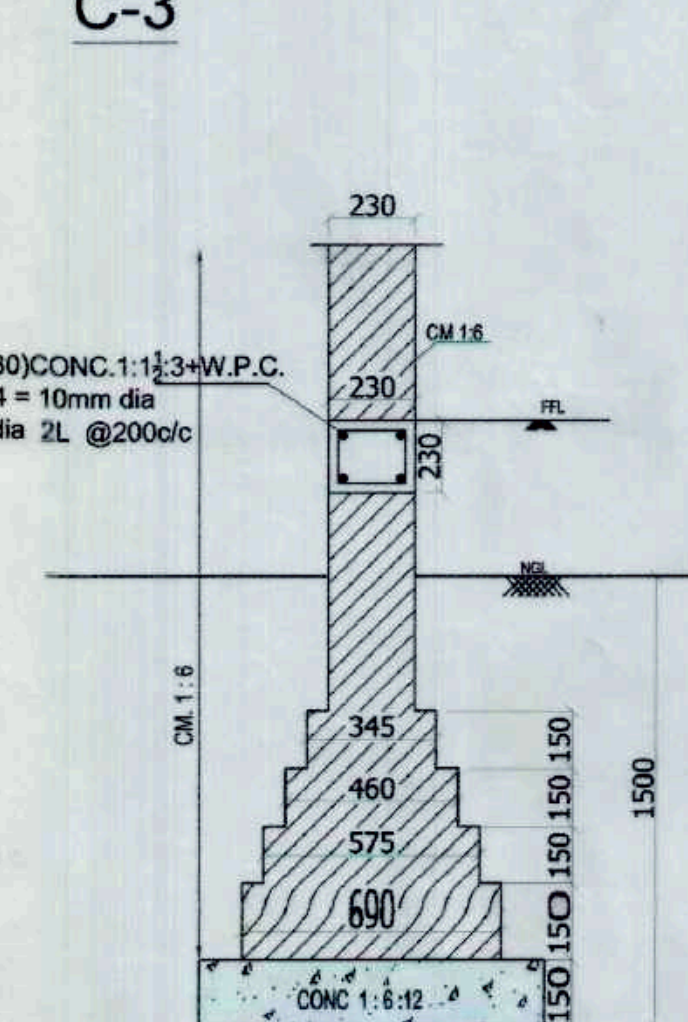
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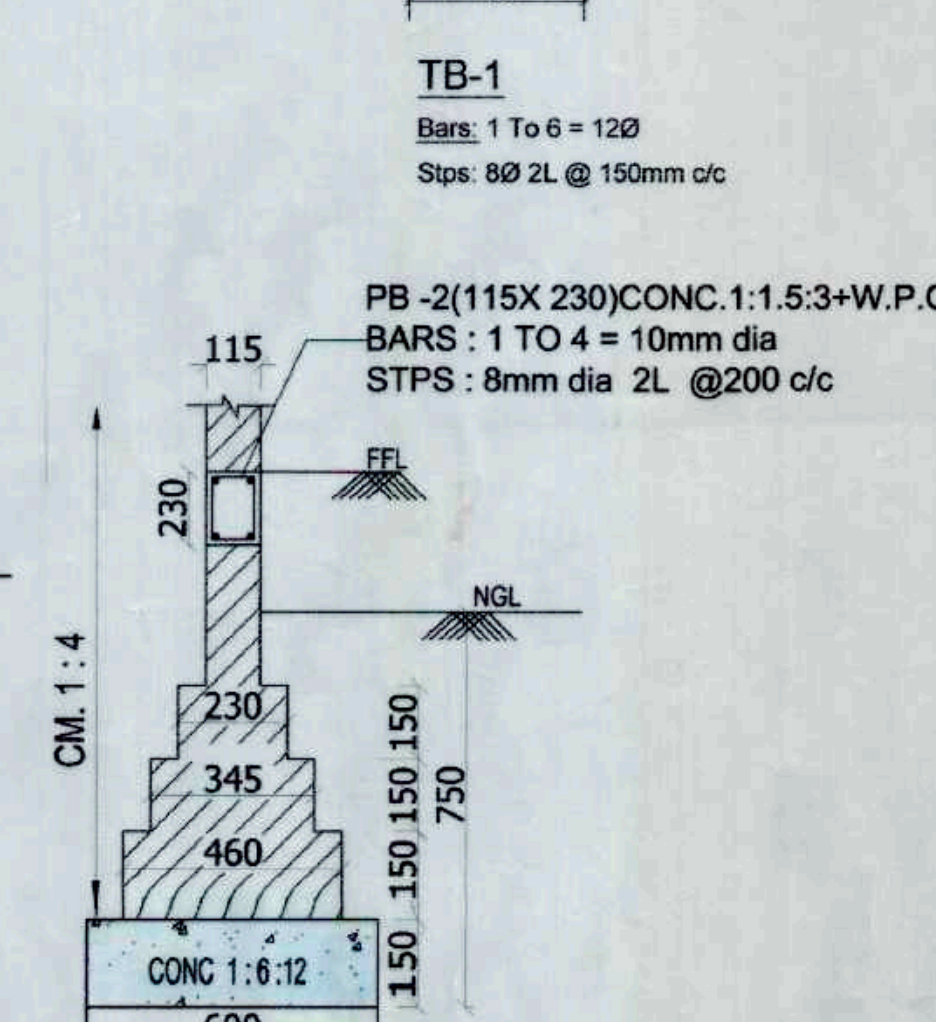
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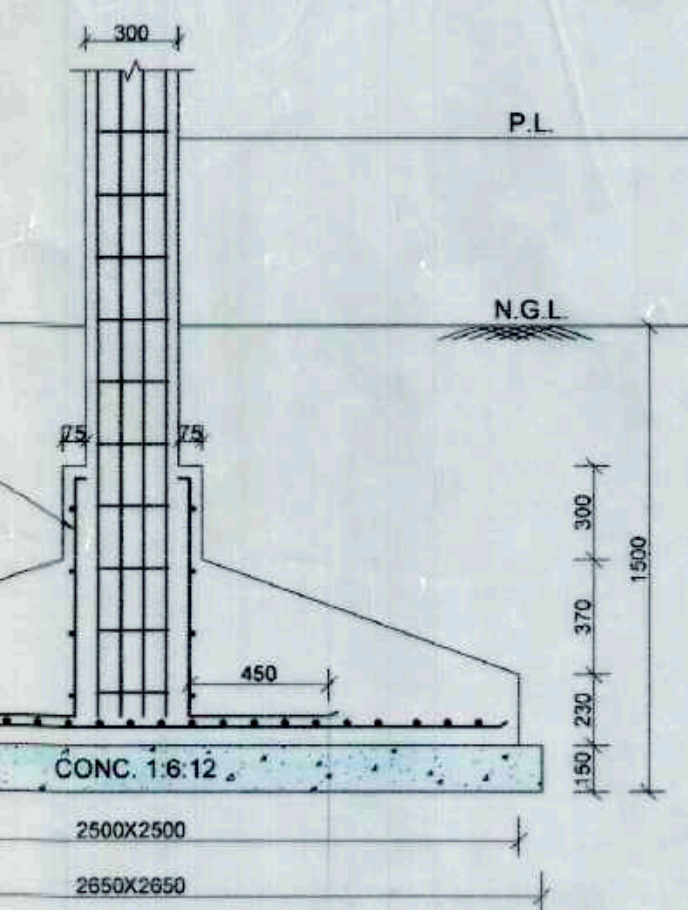
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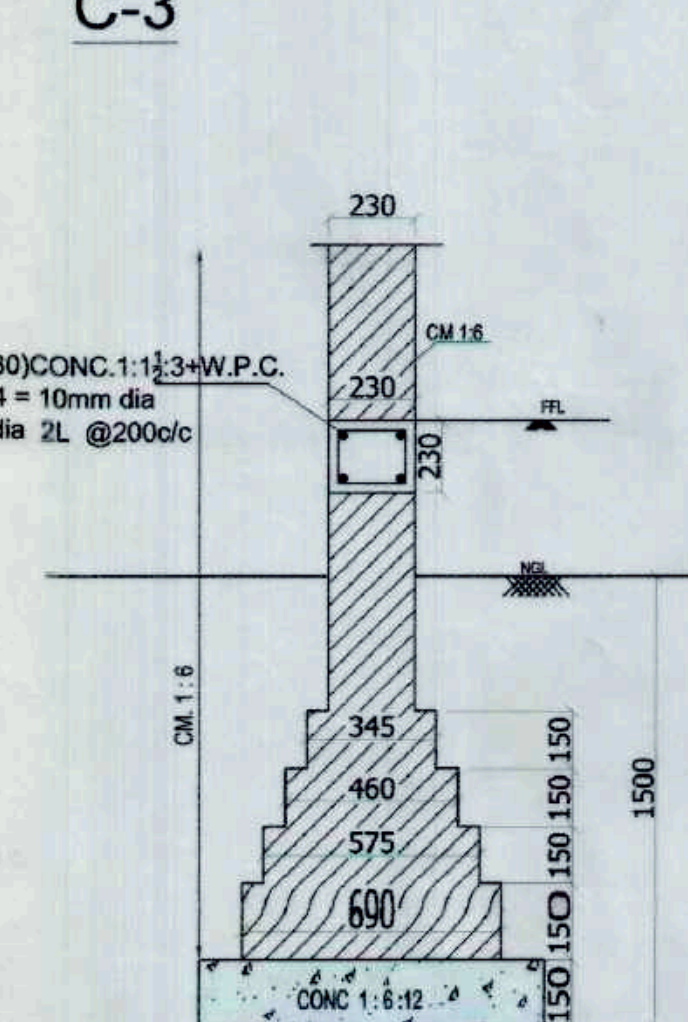
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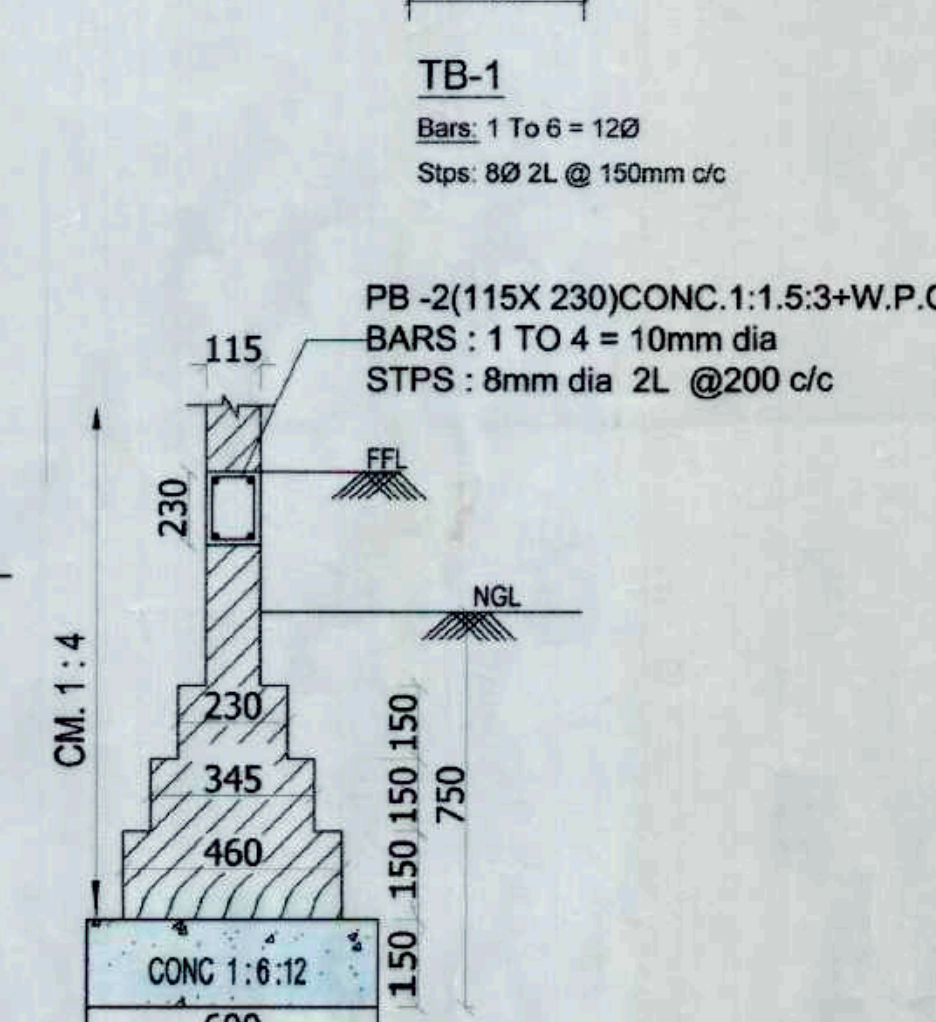
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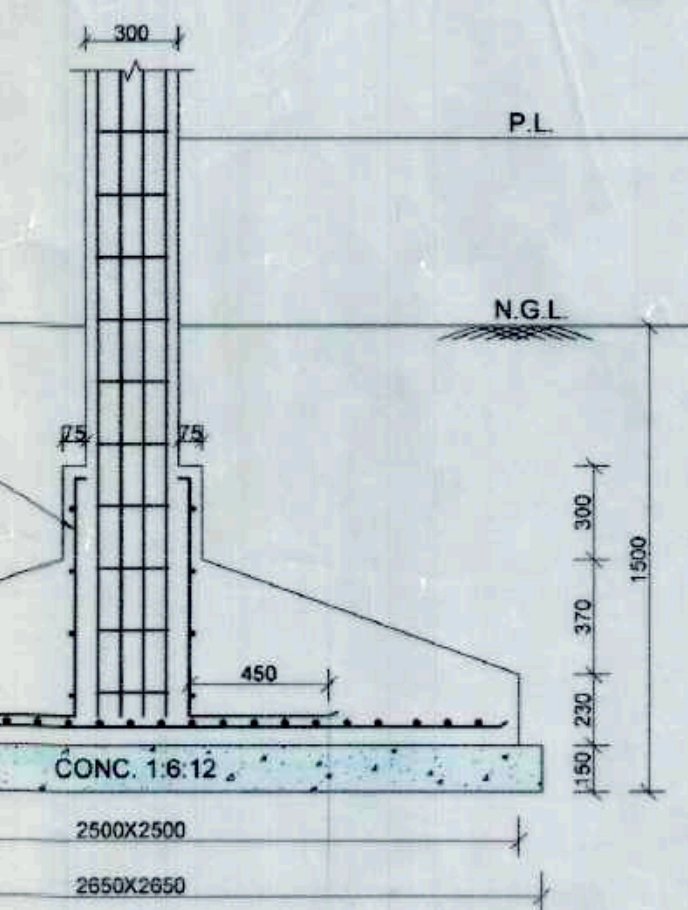
TB-1



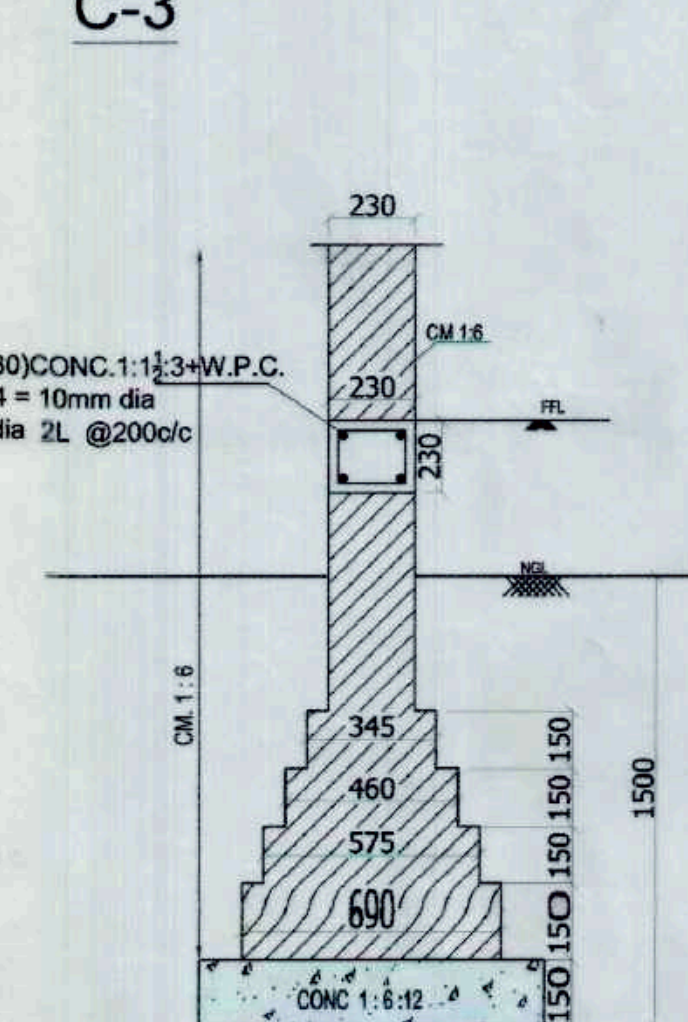
WALL W-1 (230MM-THICK)



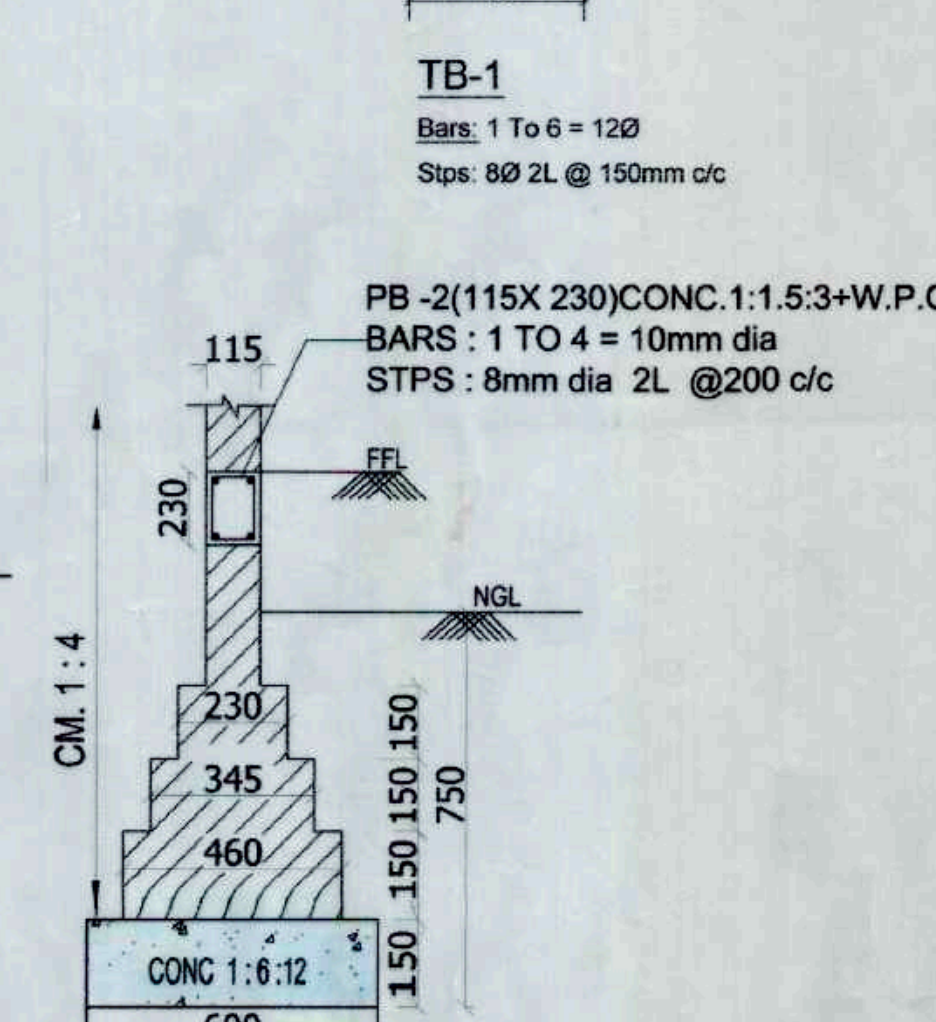
WALL W-2 (115MM-THICK)



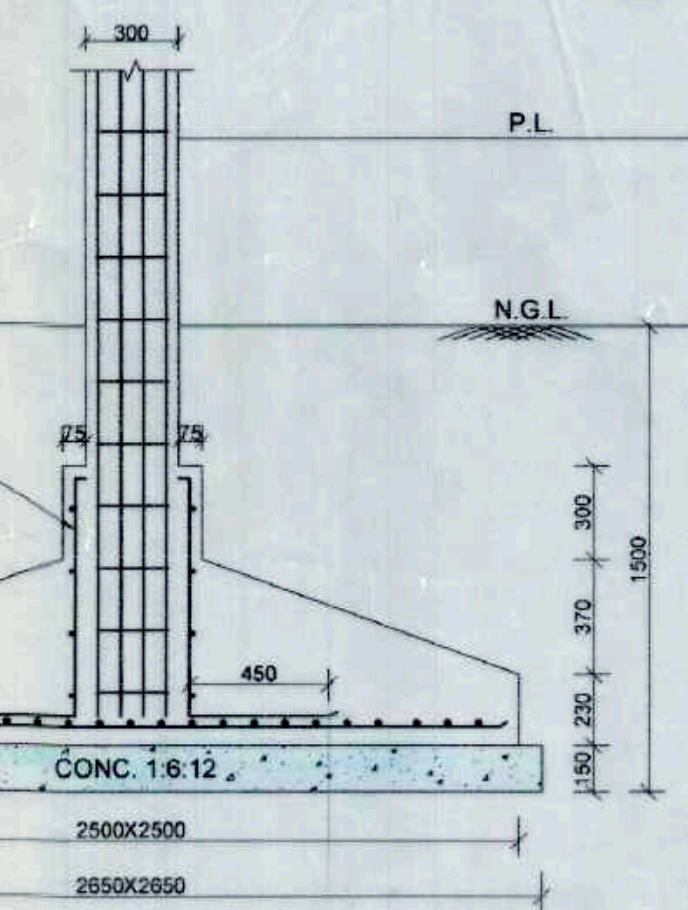
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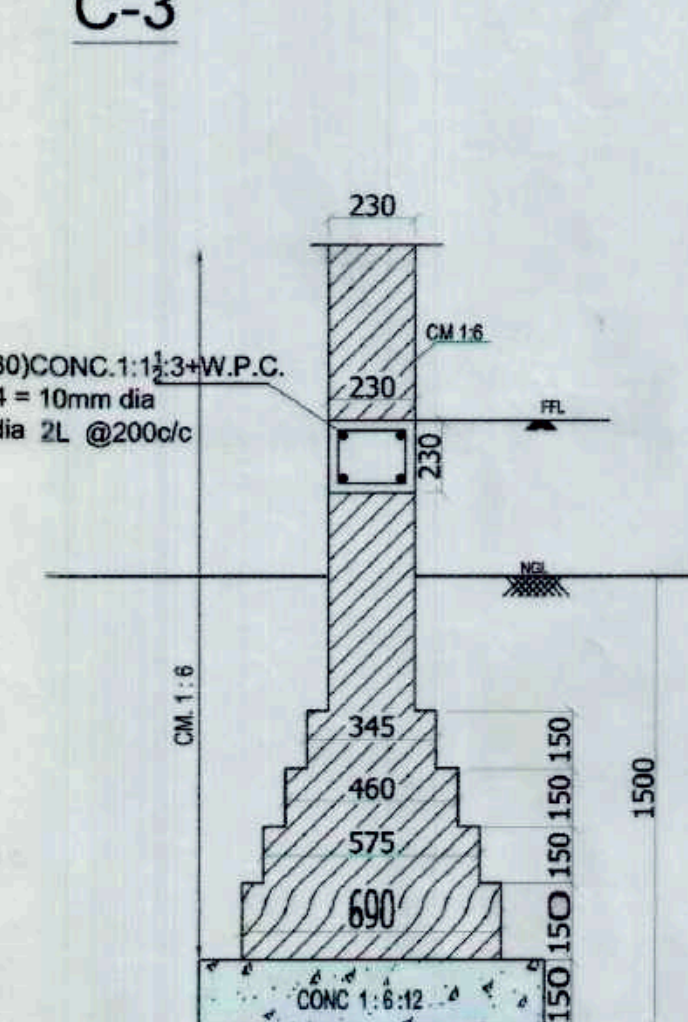
WALL W-1 (230MM-THICK)



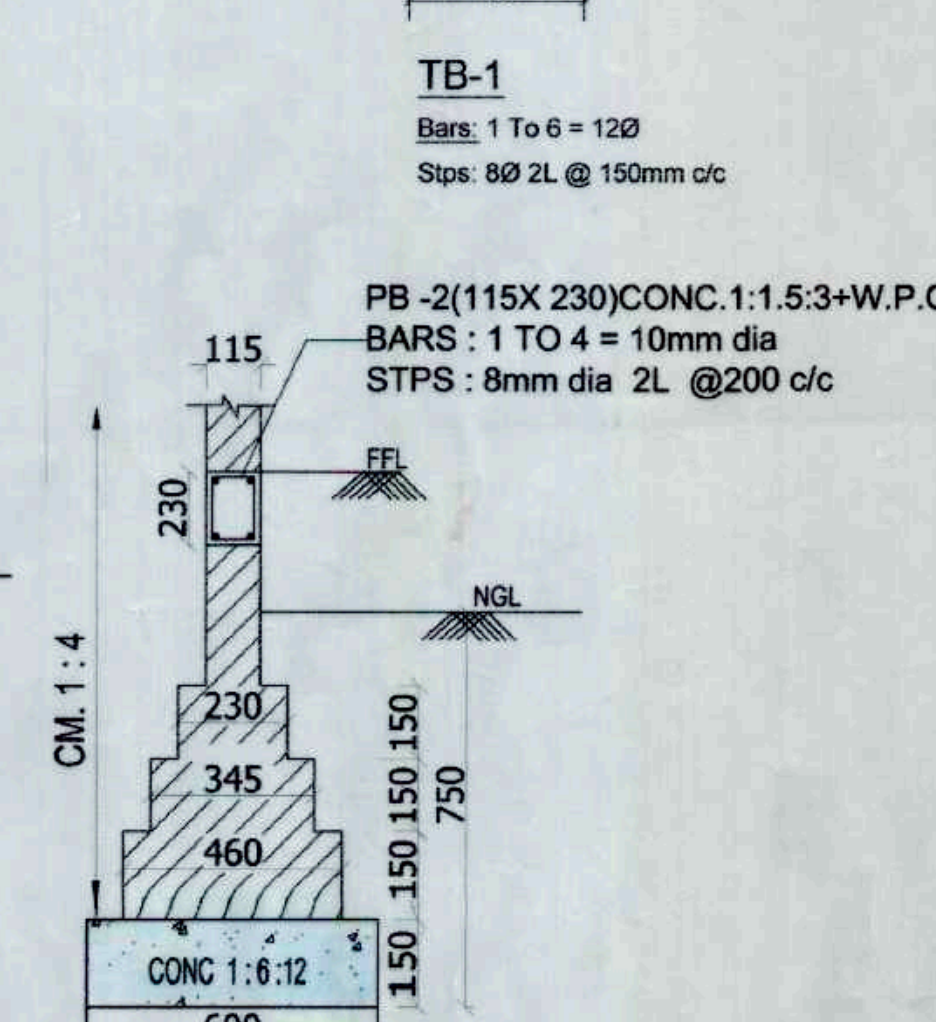
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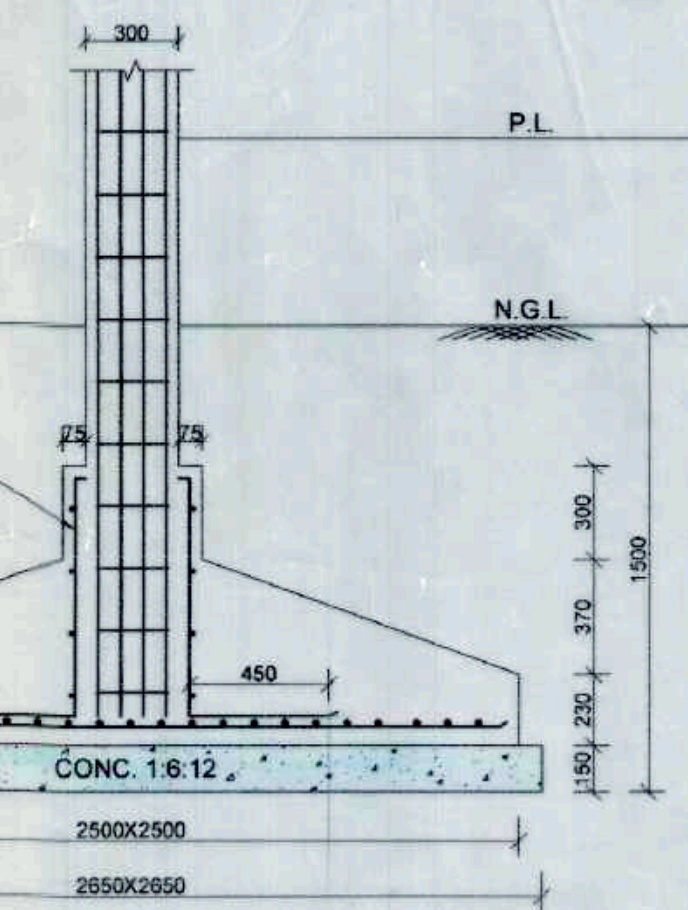
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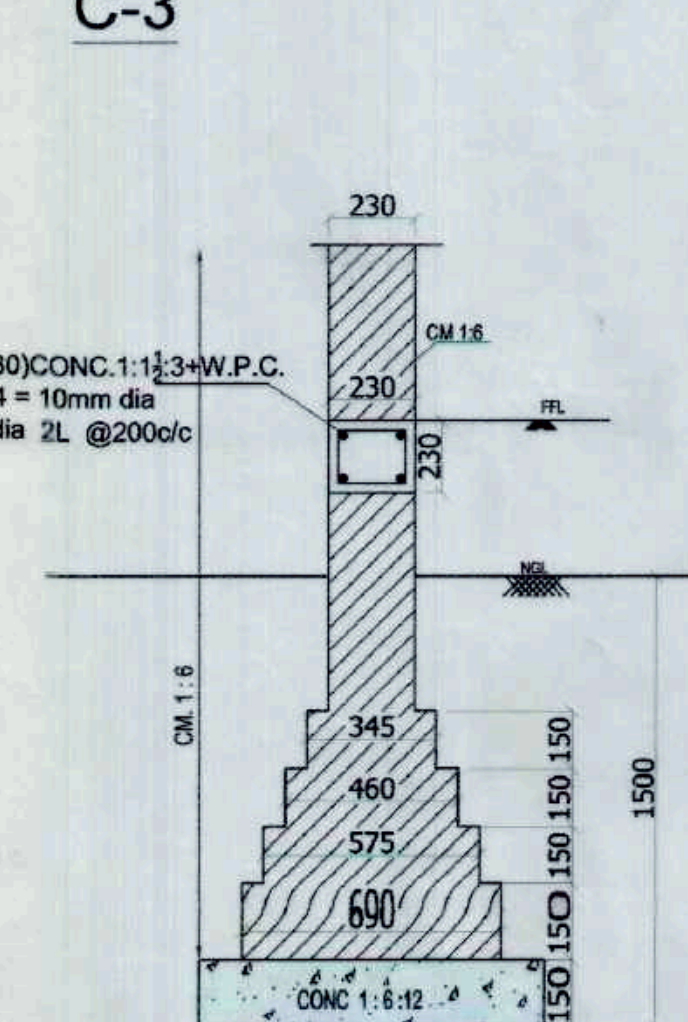
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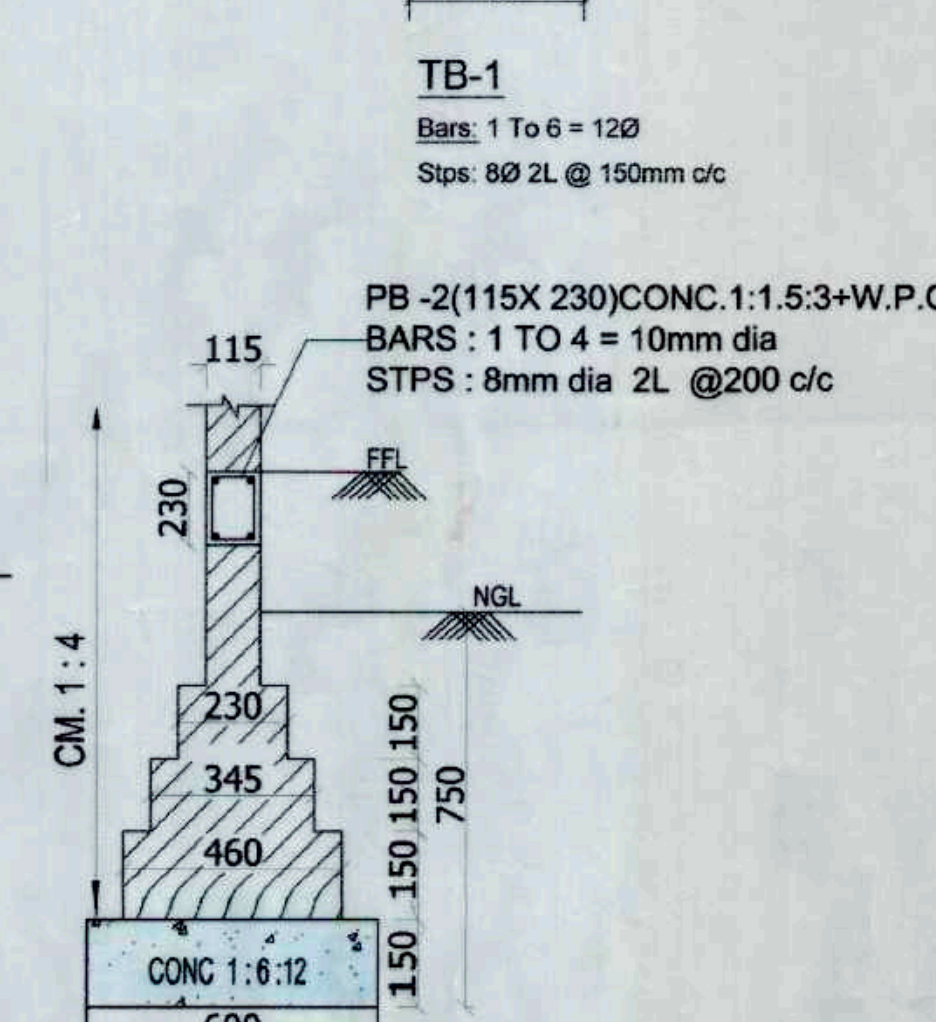
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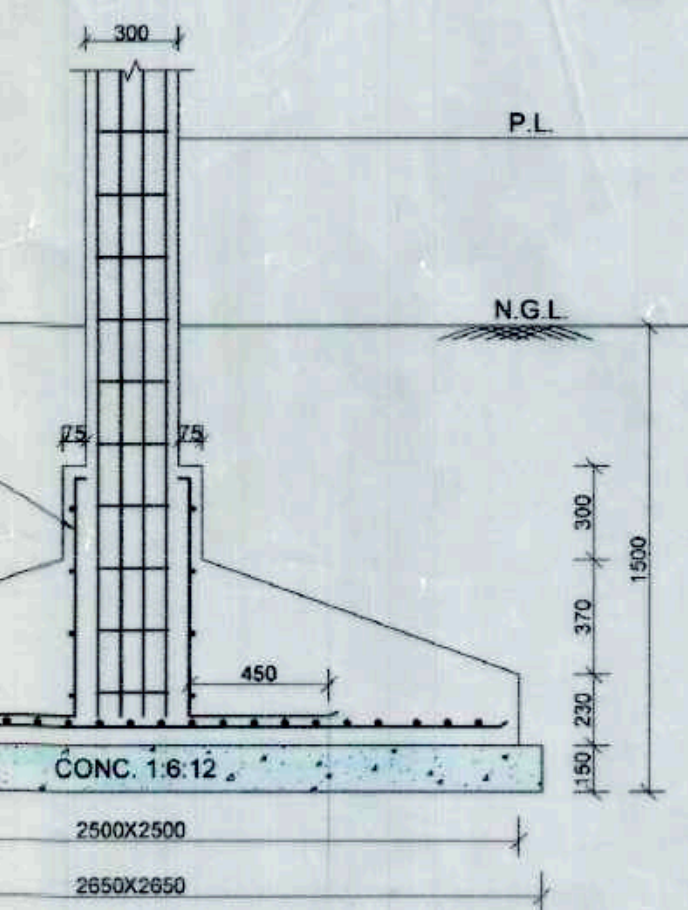
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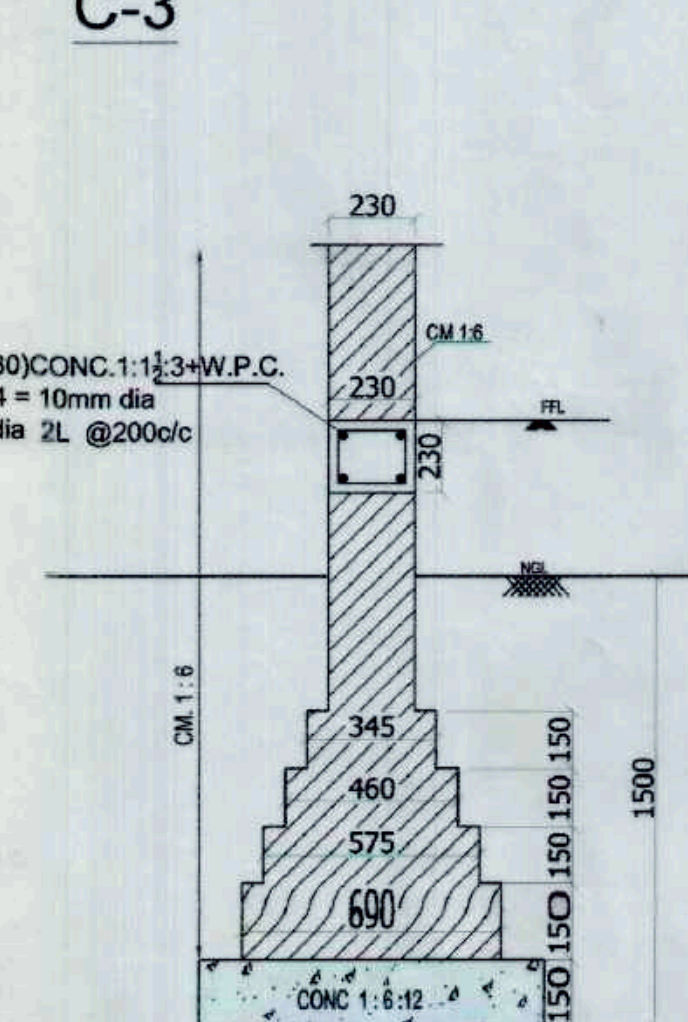
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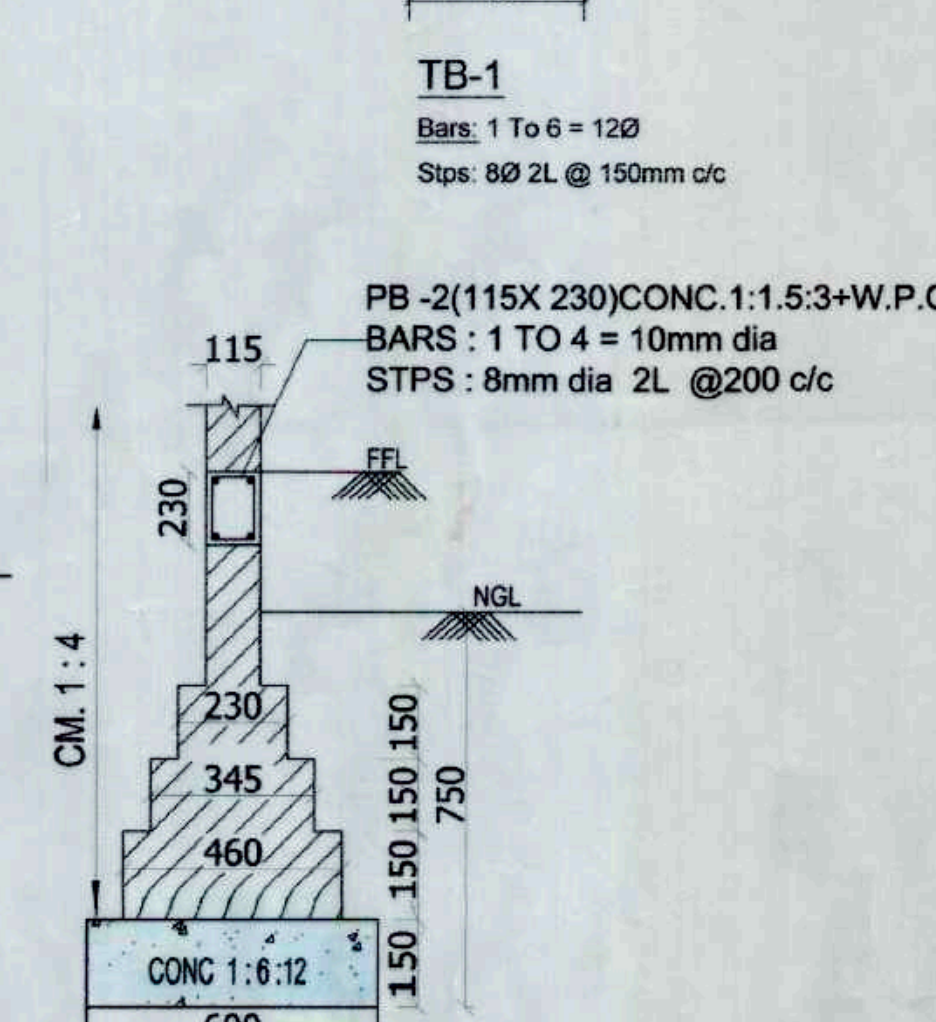
WALL W-2 (115MM-THICK)



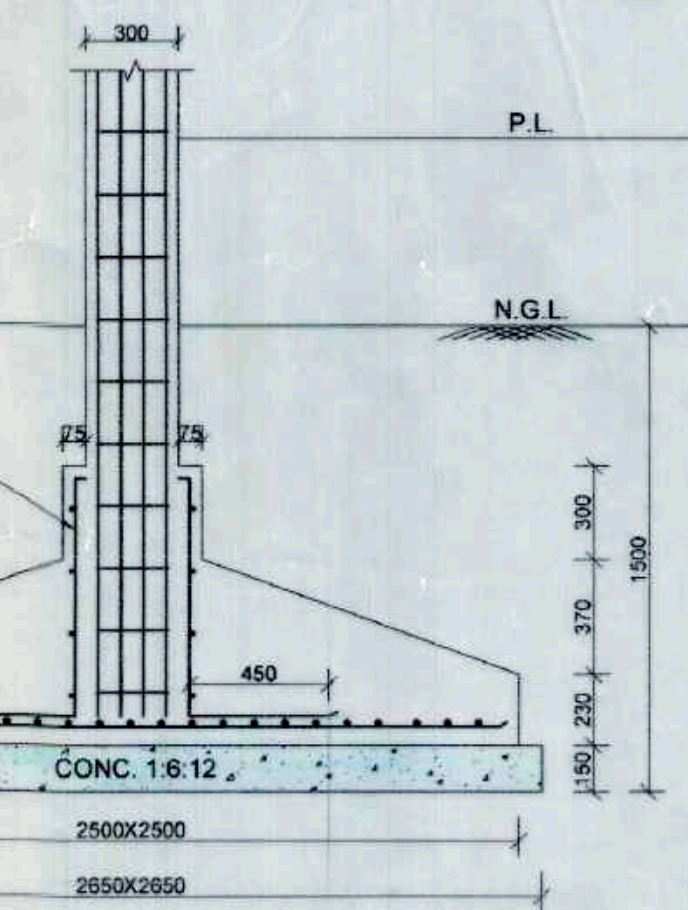
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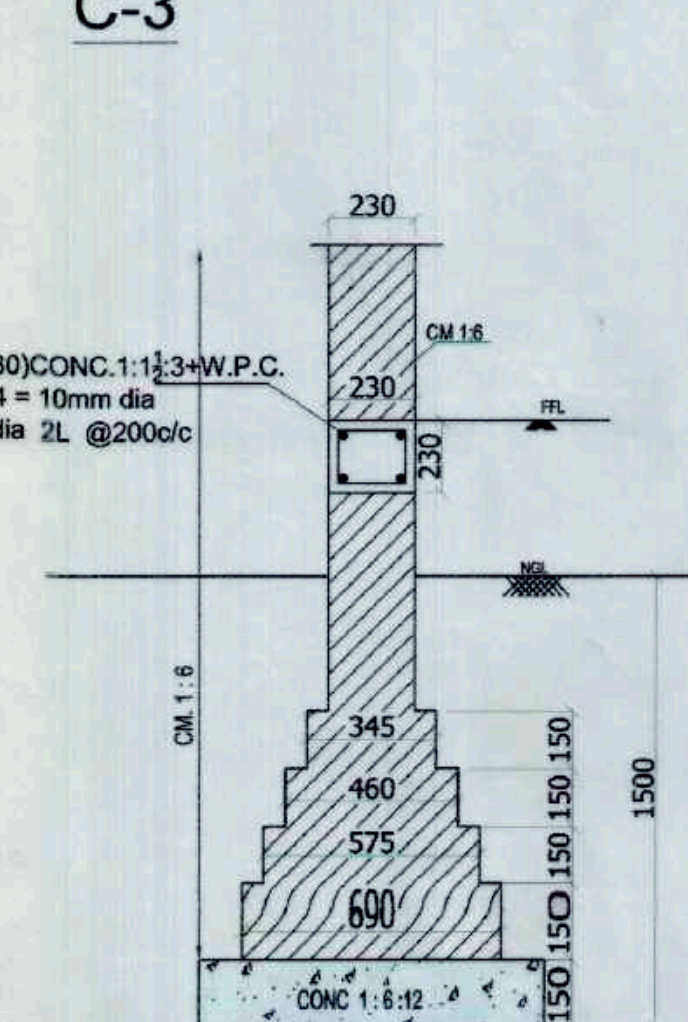
WALL W-1 (230MM-THICK)



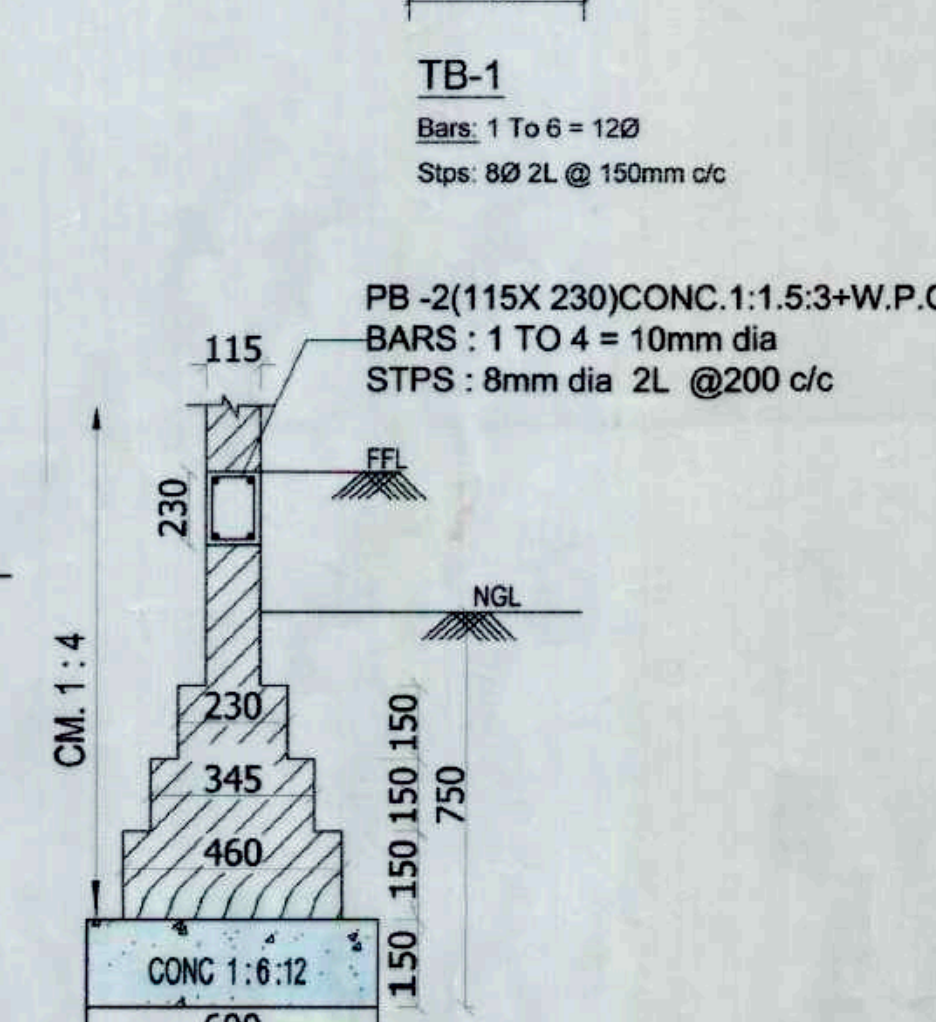
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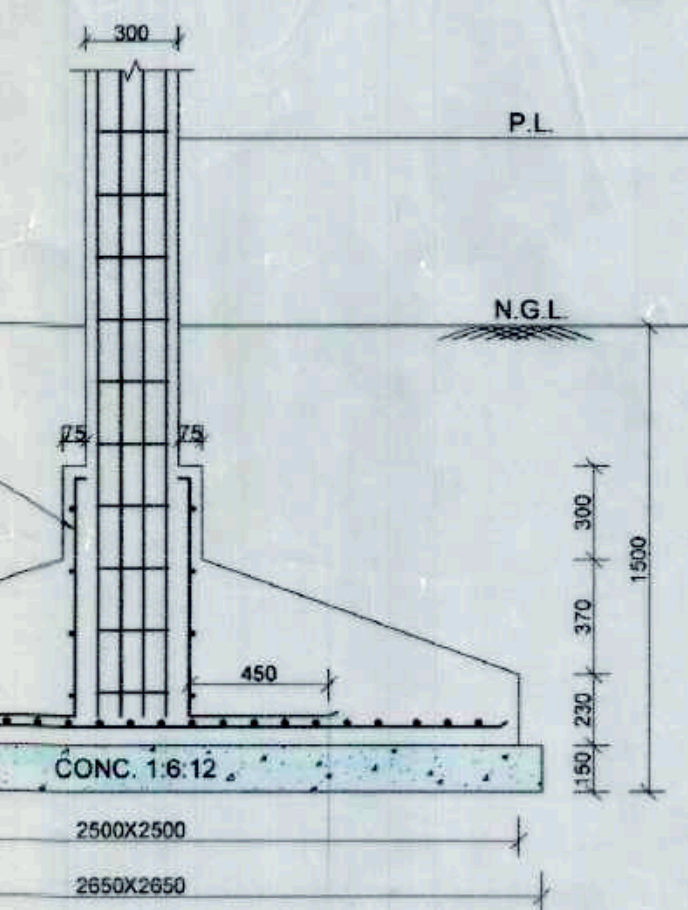
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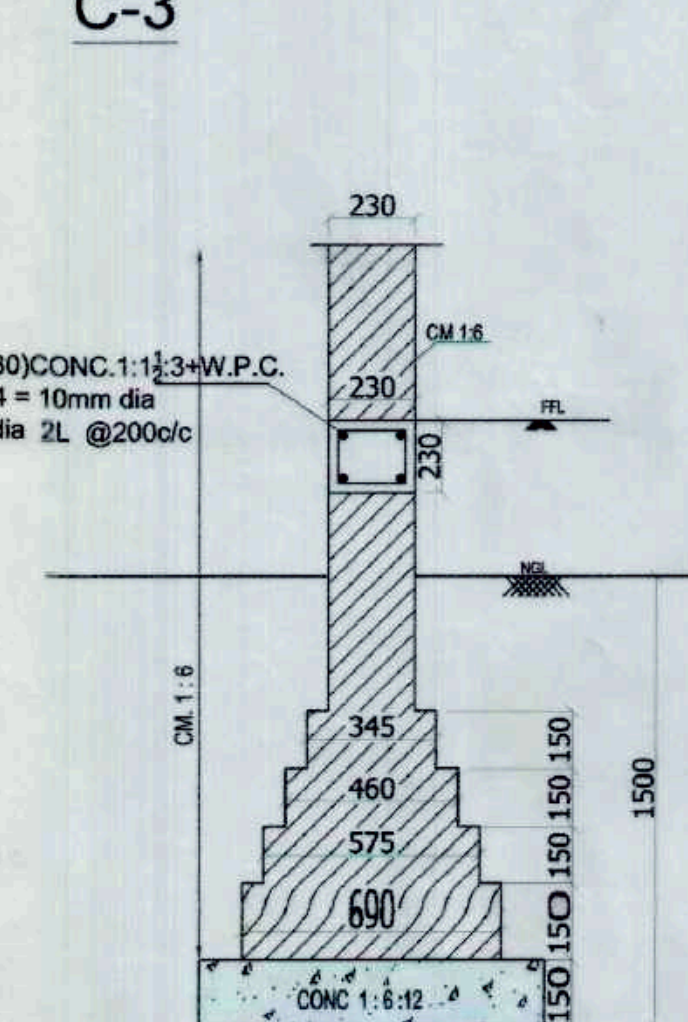
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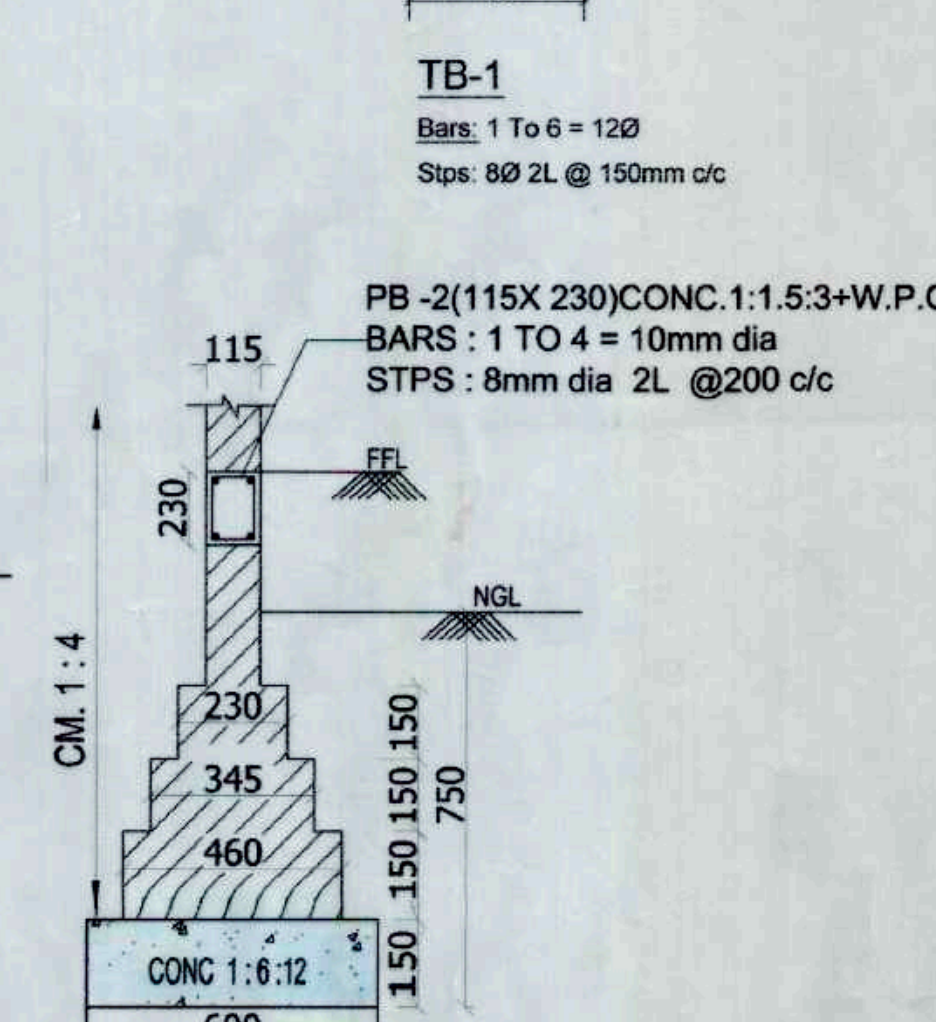
WALL W-2 (115MM-THICK)



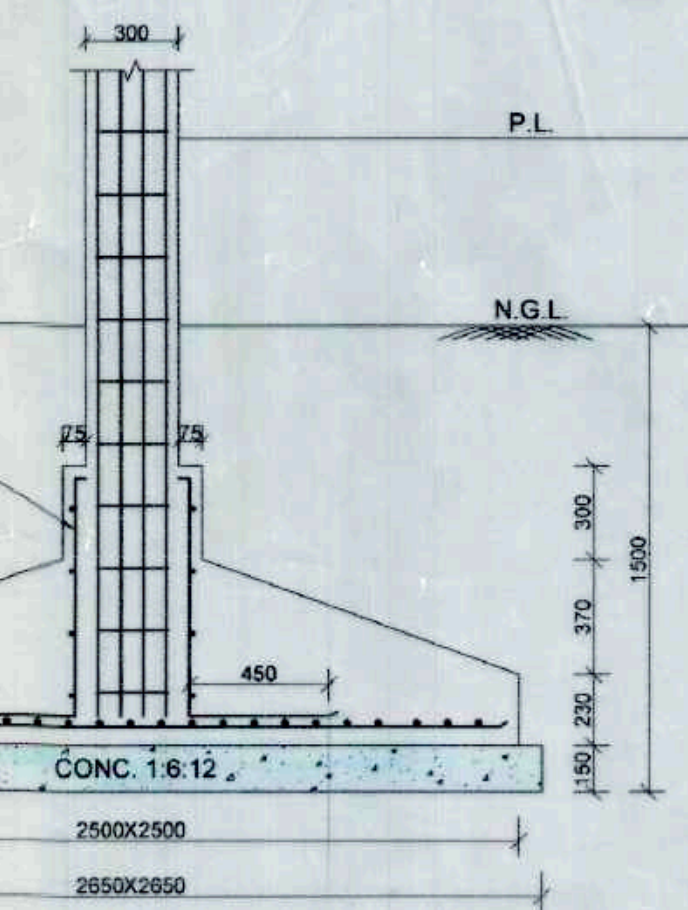
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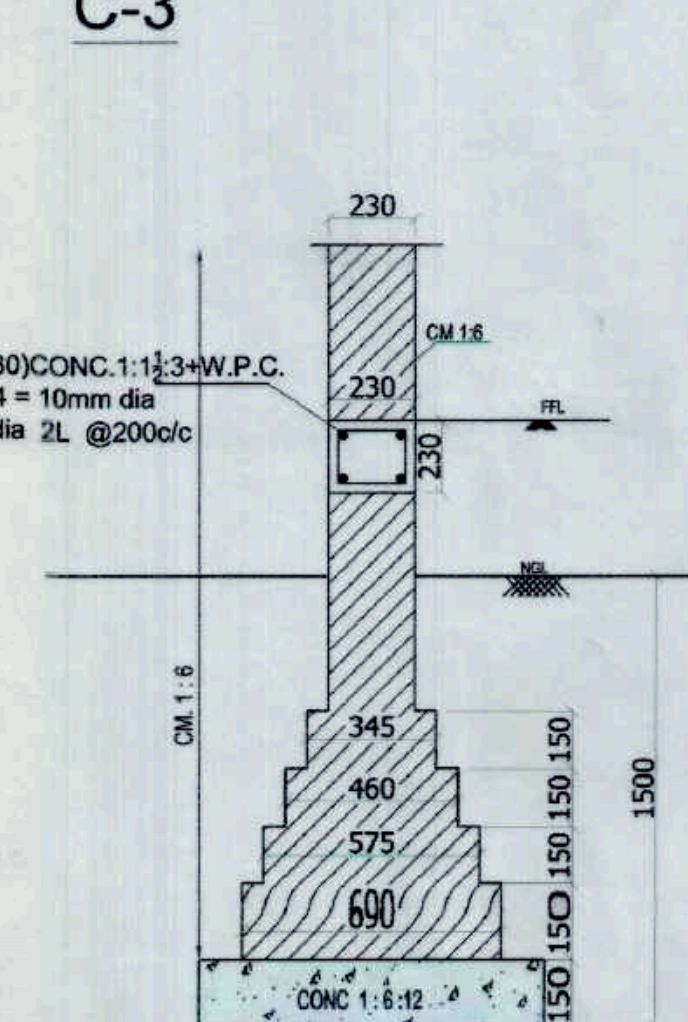
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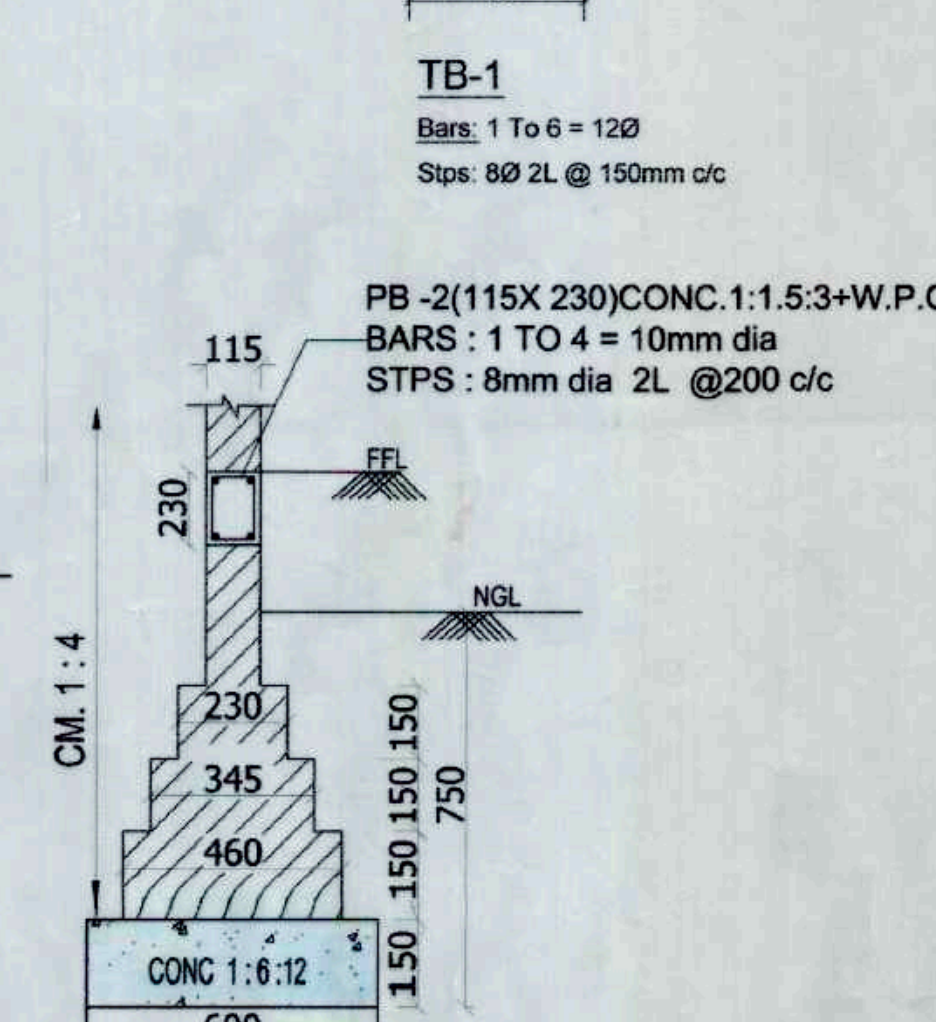
WALL W-2 (115MM-THICK)



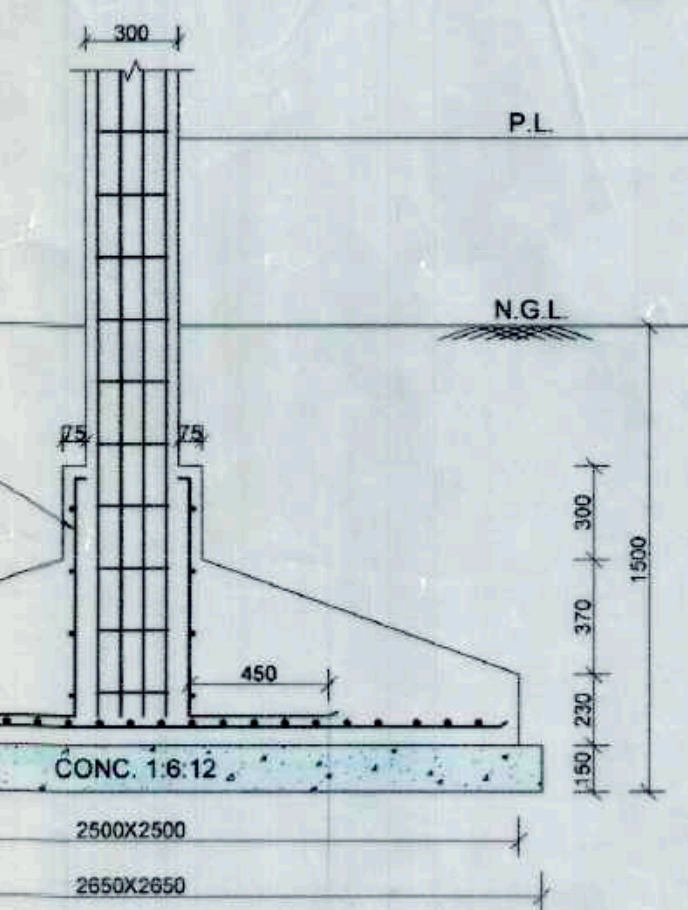
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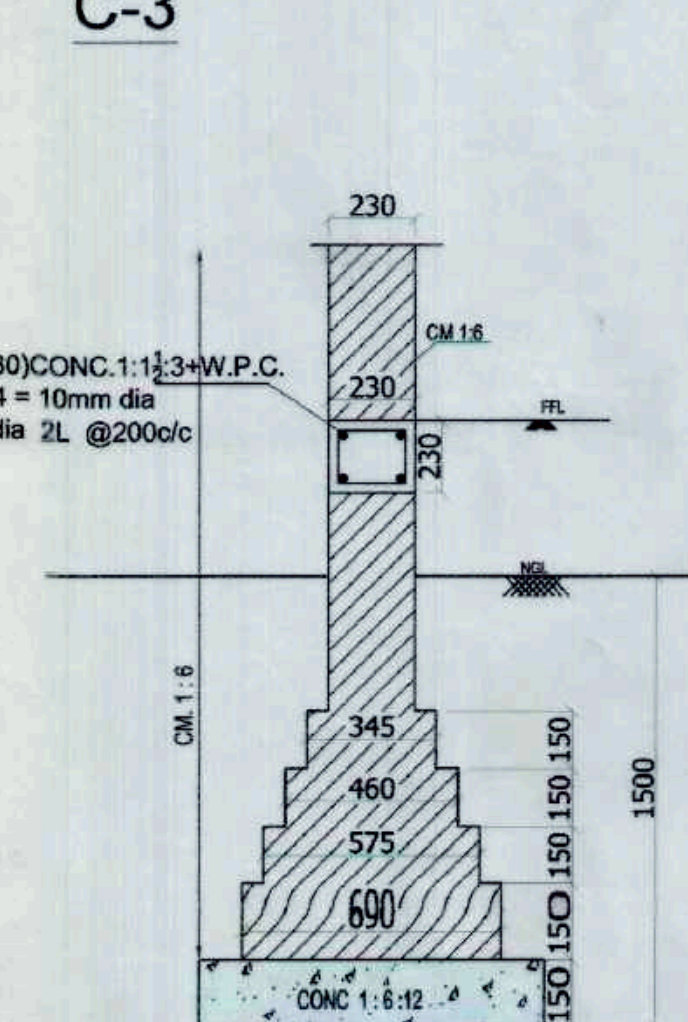
WALL W-1 (230MM-THICK)



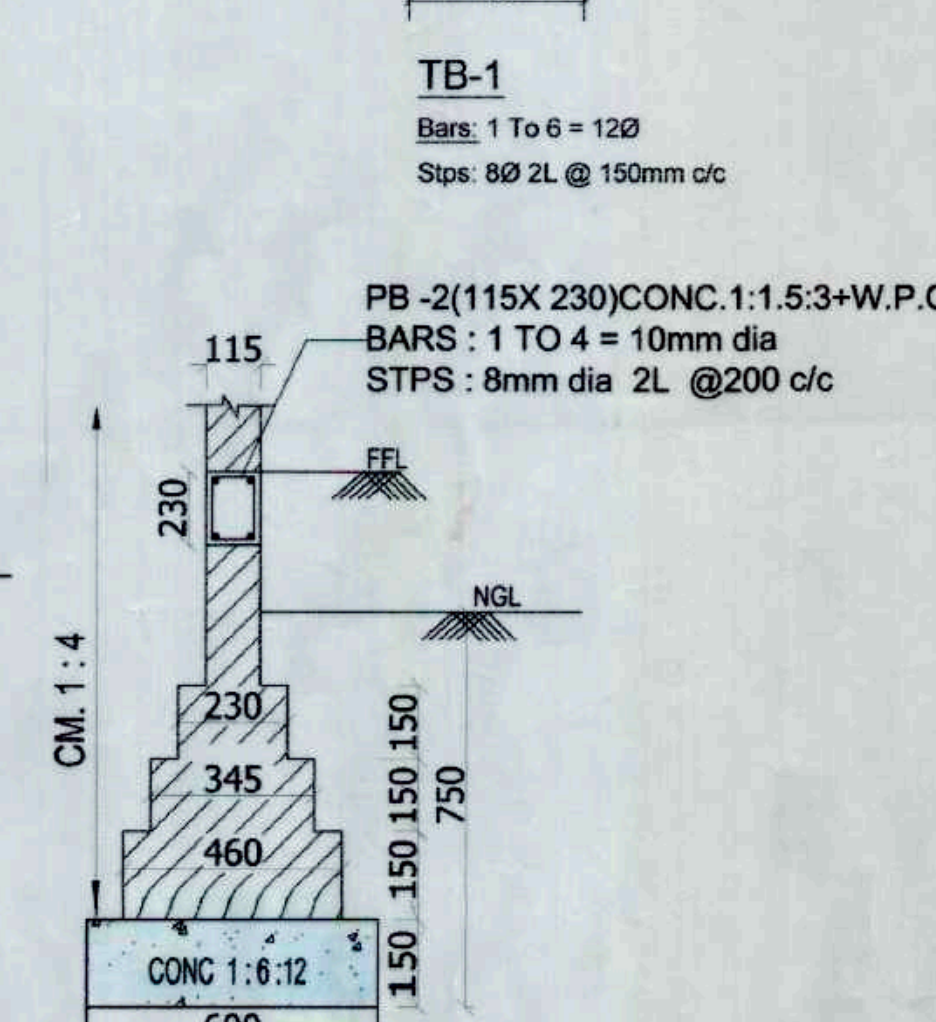
WALL W-2 (115MM-THICK)

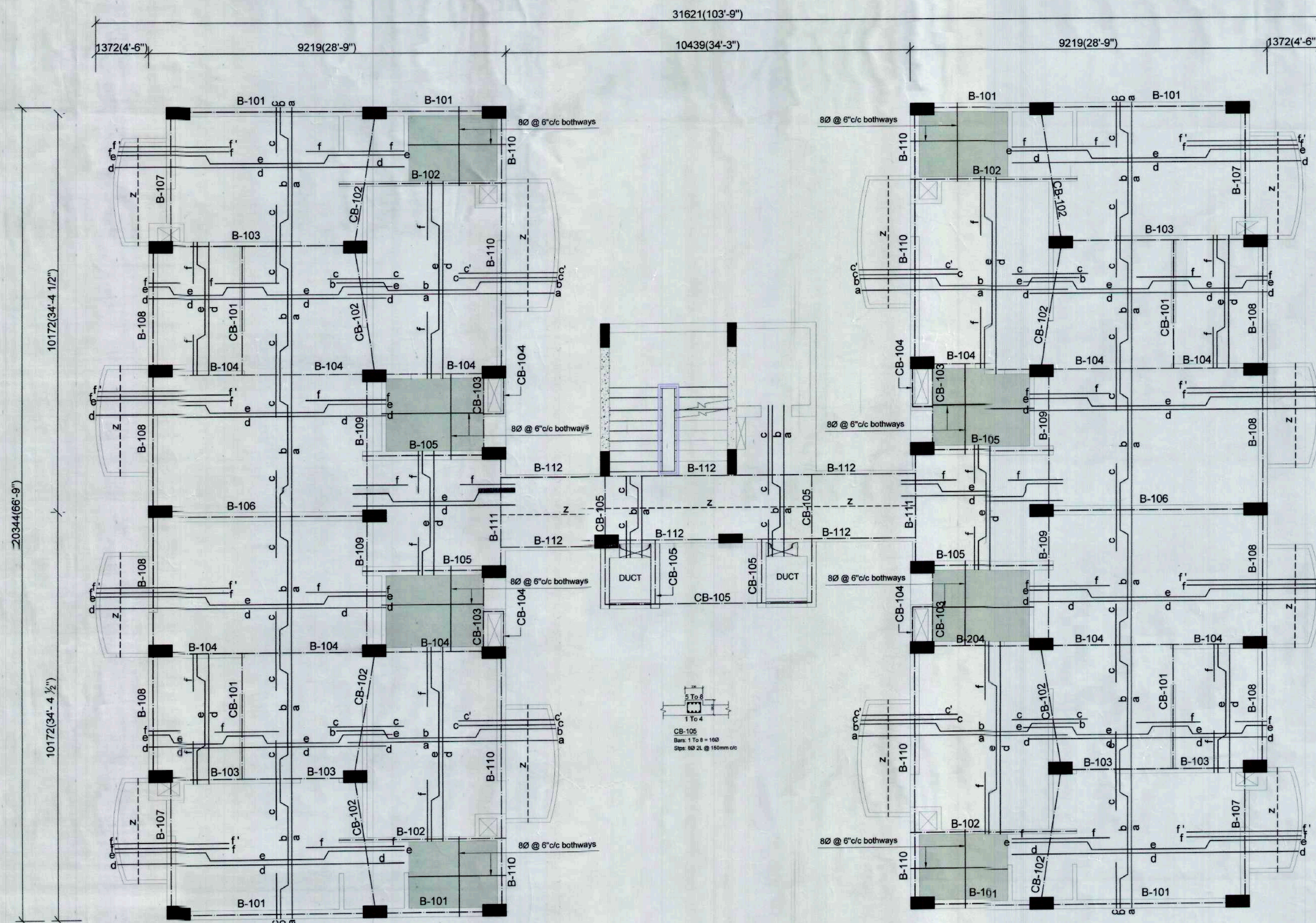


TB-1



WALL W-1 (230MM-THICK)





STILT FLOOR ROOF SLAB REINFORCEMENT DETAIL

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN STILT FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a	= 10 mm dia. @ 16" c/c.	(B)
b	= 10 mm dia. @ 16" c/c.	(C)
c	= 10 mm dia. @ 16" c/c.	(T)
c'	= 10 mm dia. @ 8" c/c.	(T)
d	= 8 mm dia. @ 16" c/c.	(B)
e	= 8 mm dia. @ 16" c/c.	(C)
f	= 10 mm dia. @ 16" c/c.	(T)
f'	= 10 mm dia. @ 8" c/c.	(T)
Distt. St. 'z'	= 8 mm dia. @ 8" c/c.	
Holding Bars	= 10 mm dia. @ 8" c/c.	

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

**CHANDIGARH
HOUSING
BOARD**

PROJECT:-

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

STILT FLOOR ROOF SLAB REINFORCEMENT
DETAIL, CB-105

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

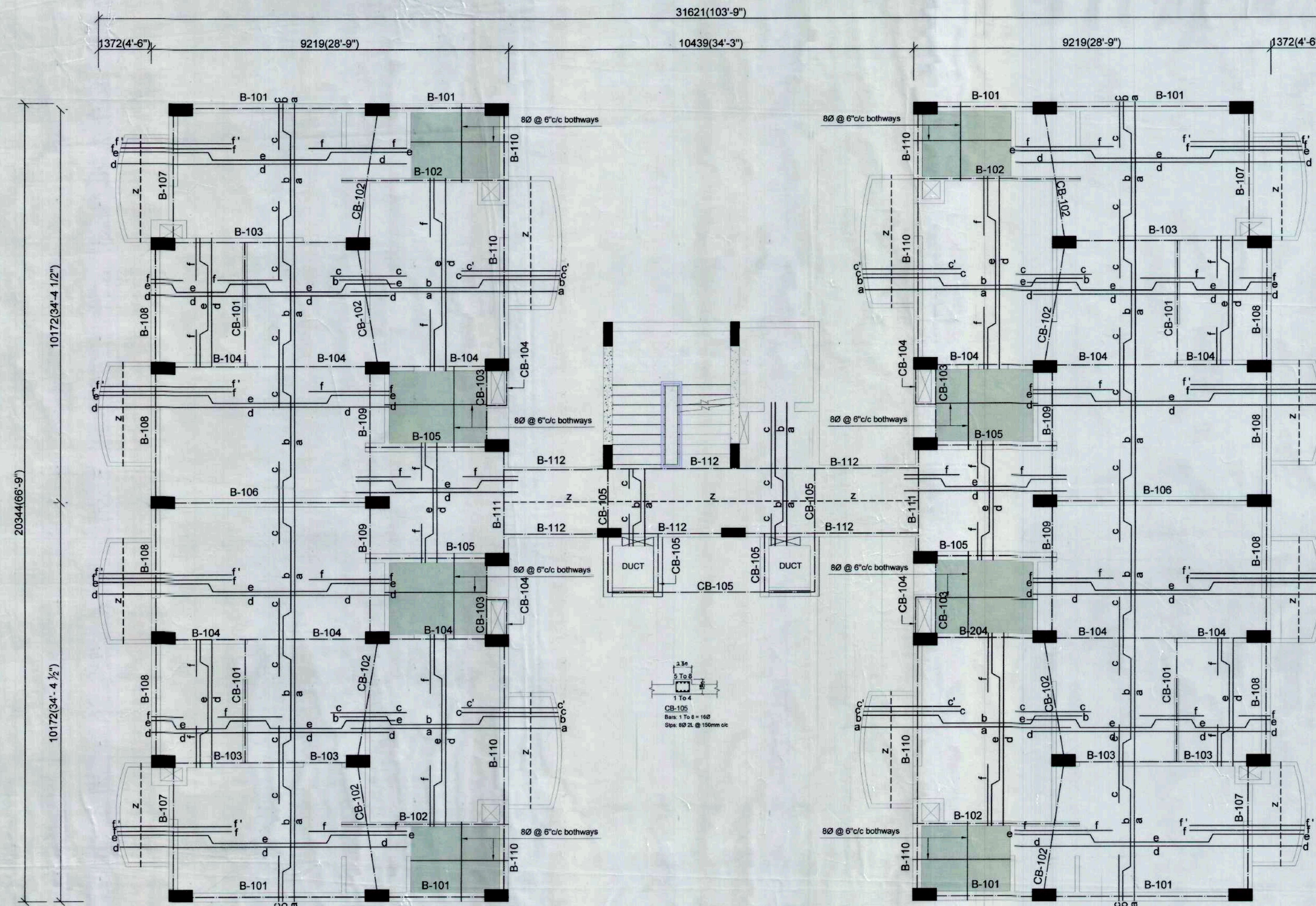
DRAWN BY: JAGMEET SINGH

SCALE: N.T.S.

DATE: 30-06-09

DRG. NO.: S-2

DRG. No. 03, JOB No. 139



GROUND FLOOR ROOF SLAB REINFORCEMENT DETAIL

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF.:-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN GROUND FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a	= 10 mm dia. @ 16" c/c.	(B)
b	= 10 mm dia. @ 16" c/c.	(C)
c	= 10 mm dia. @ 16" c/c.	(T)
c'	= 10 mm dia. @ 8" c/c.	(T)
d	= 8 mm dia. @ 16" c/c.	(B)
e	= 8 mm dia. @ 16" c/c.	(C)
f	= 10 mm dia. @ 16" c/c.	(T)
f'	= 10 mm dia. @ 8" c/c.	(T)
Distt. St. 'z'	= 8 mm dia. @ 8" c/c.	
Holding Bars	= 10 mm dia. @ 8" c/c.	

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI, (Pb) PH 0172-2236219



CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (G+5)

REVISION:

STRUCTURE

GROUND FLOOR ROOF SLAB REINFORCEMENT DETAIL

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

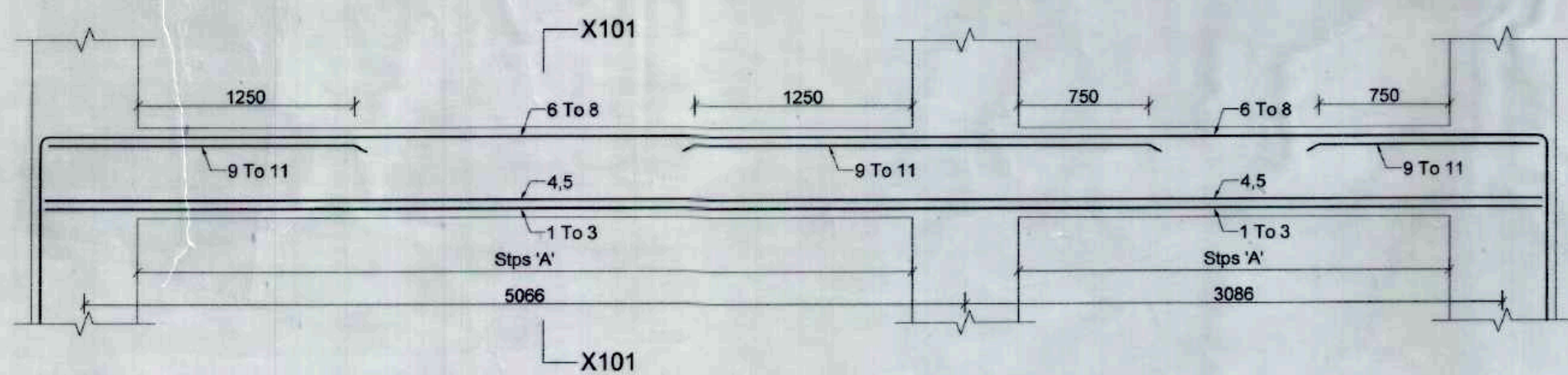
DRAWN BY: JAGMEET SINGH

SCALE: N.T.S.

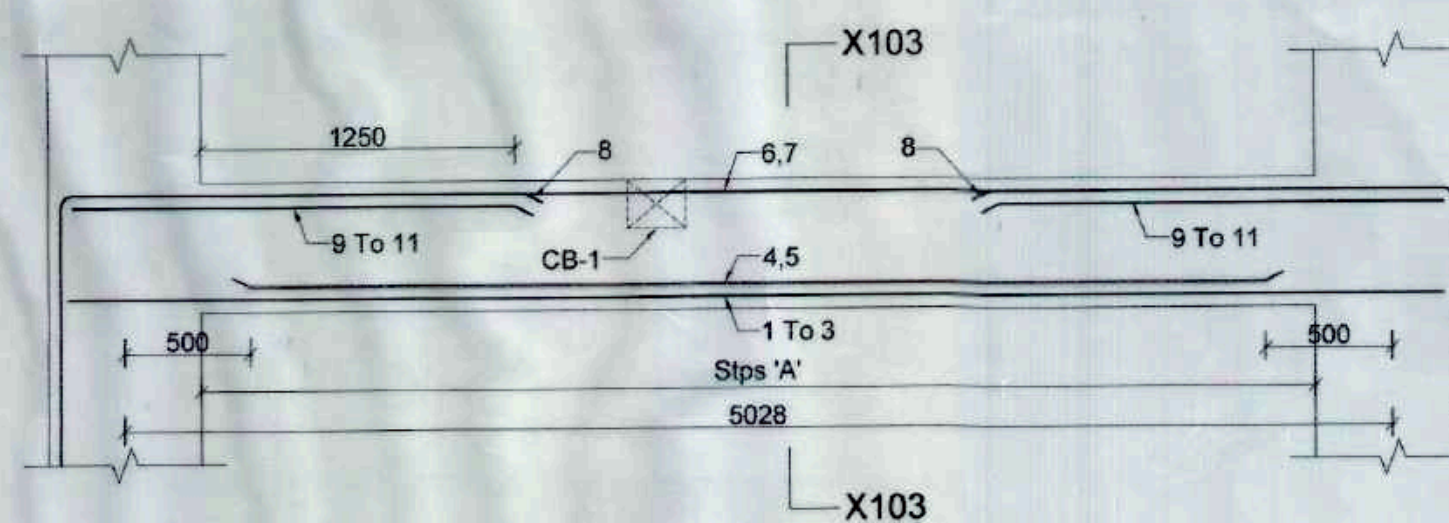
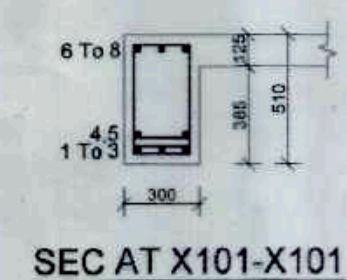
DATE: 30-06-09

DRG. NO.: S-2

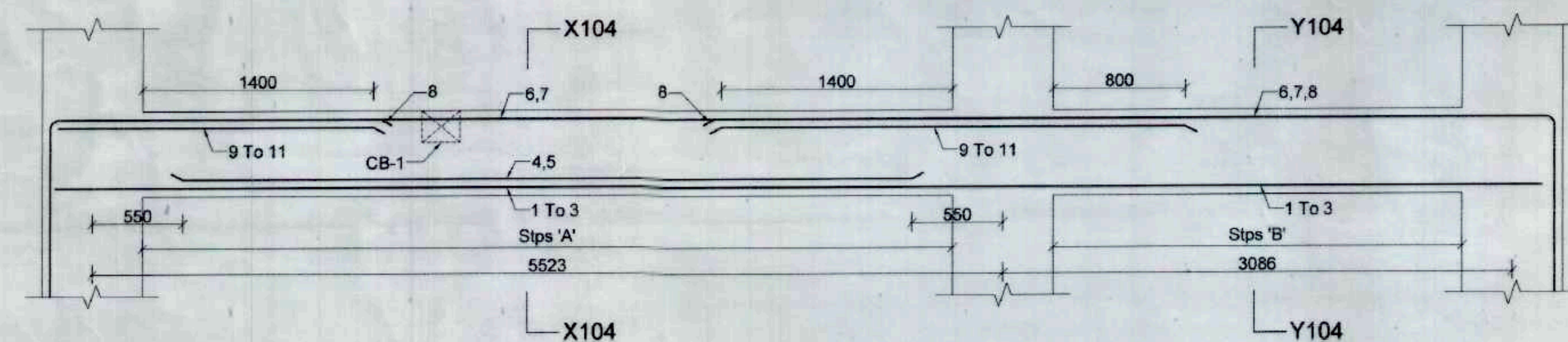
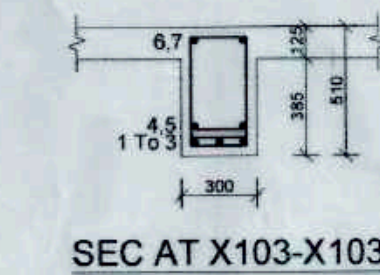
DWG. No. 04 JOB No. 139



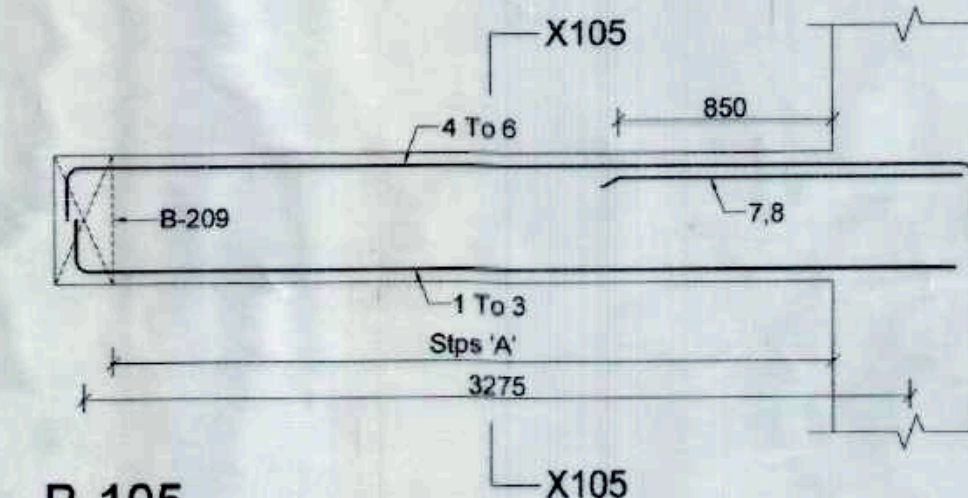
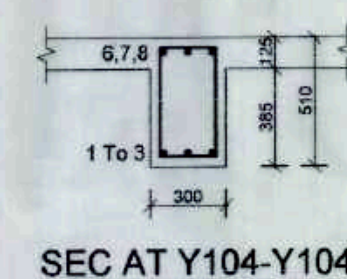
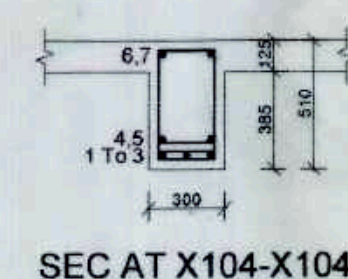
B-101
Bars: 1 To 11 = 16Ø



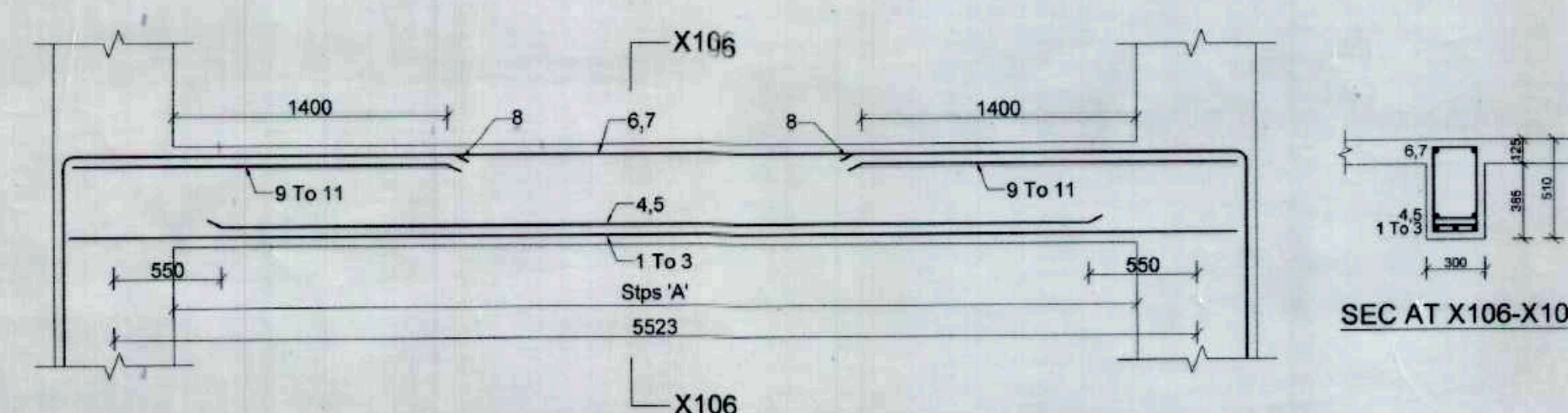
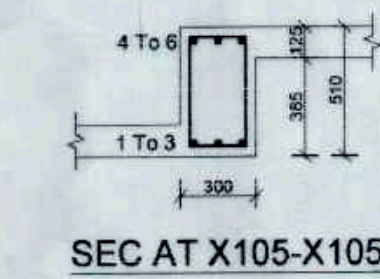
B-103
Bars: 1 To 11 = 16Ø



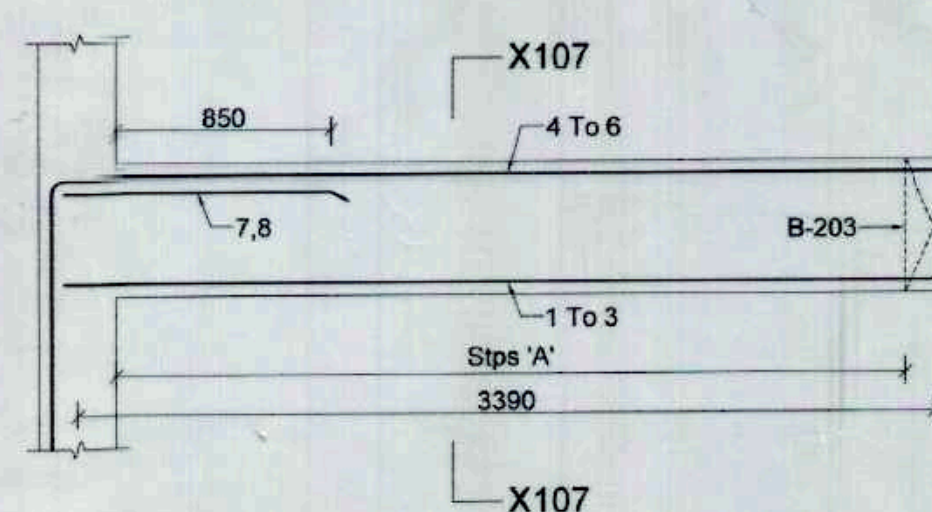
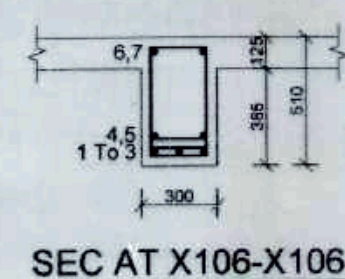
B-104
Bars: 1 To 11 = 16Ø



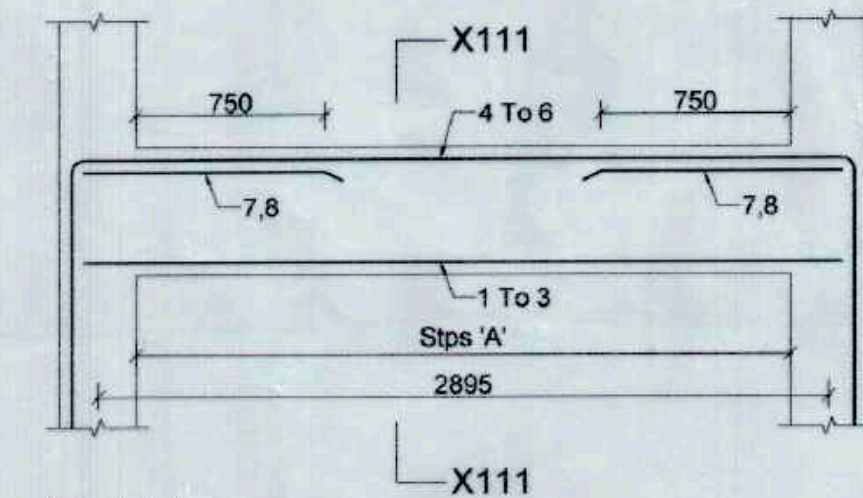
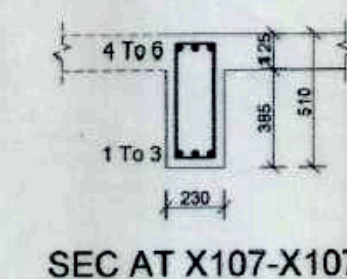
B-105
Bars: 1 To 8 = 16Ø



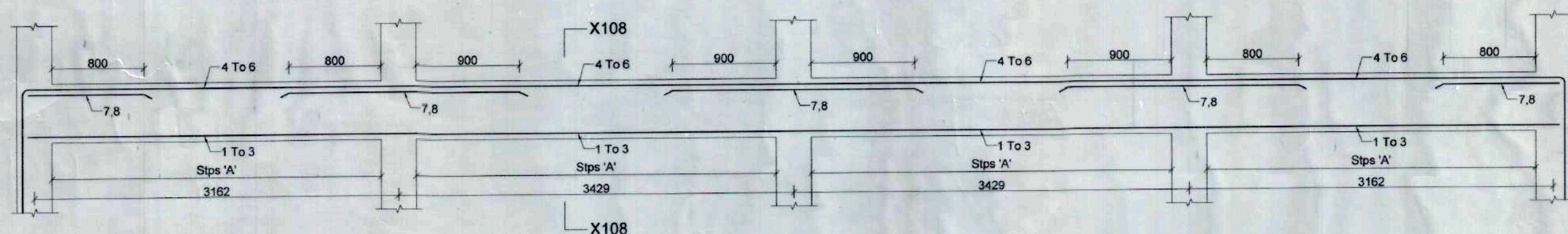
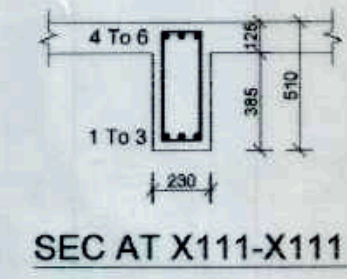
B-106
Bars: 1 To 3, 6 To 8 = 16Ø
4, 5 = 12Ø
9 To 11 = 20Ø



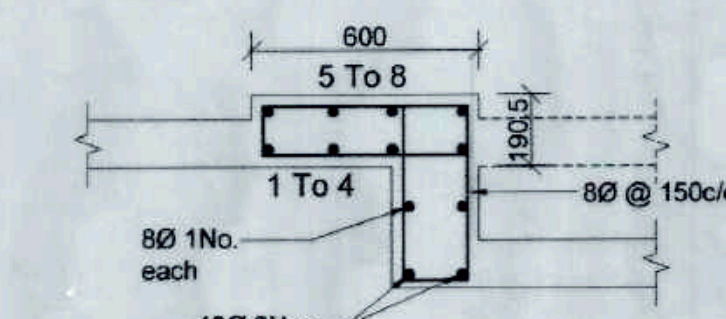
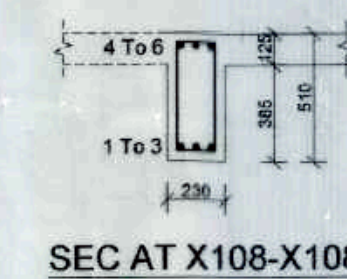
B-107
Bars: 1 To 8 = 16Ø



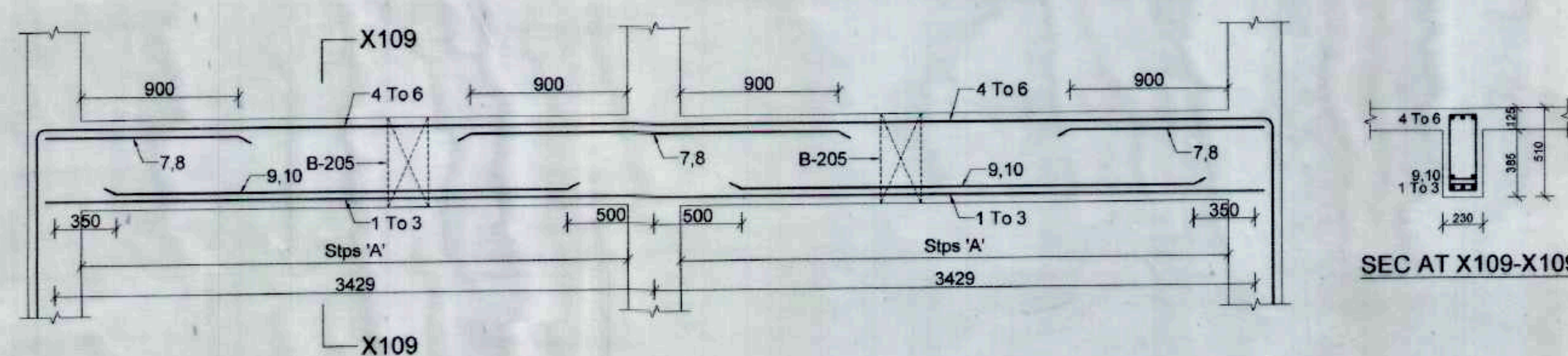
B-111
Bars: 1 To 8 = 16Ø



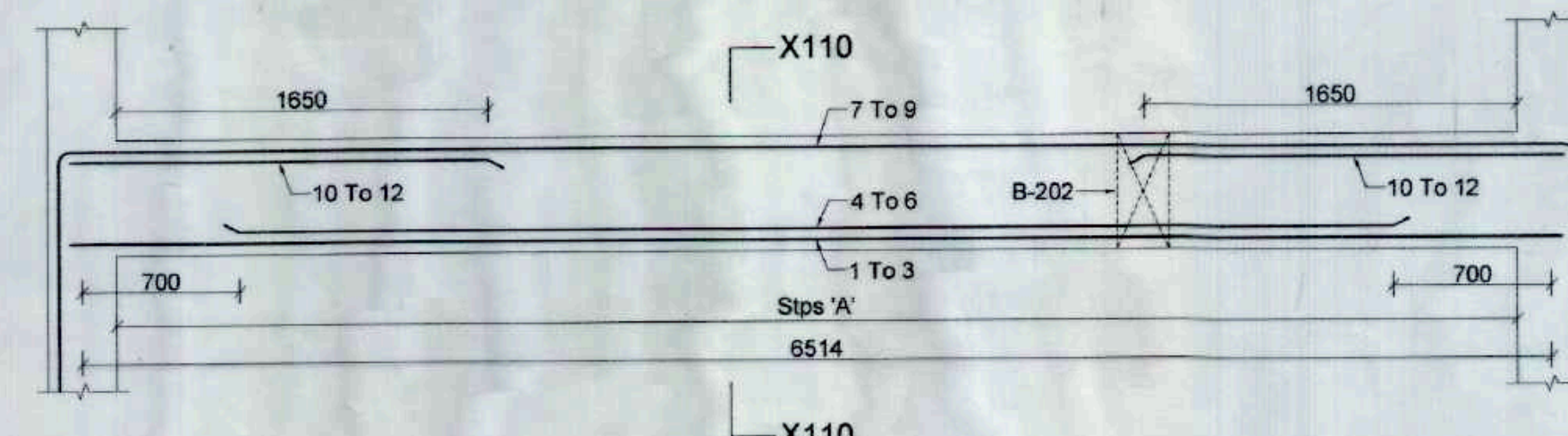
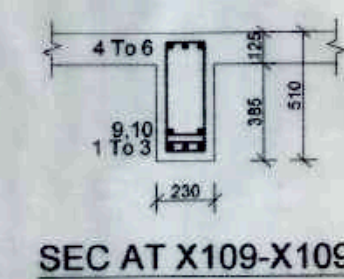
B-108
Bars: 1 To 8 = 16Ø



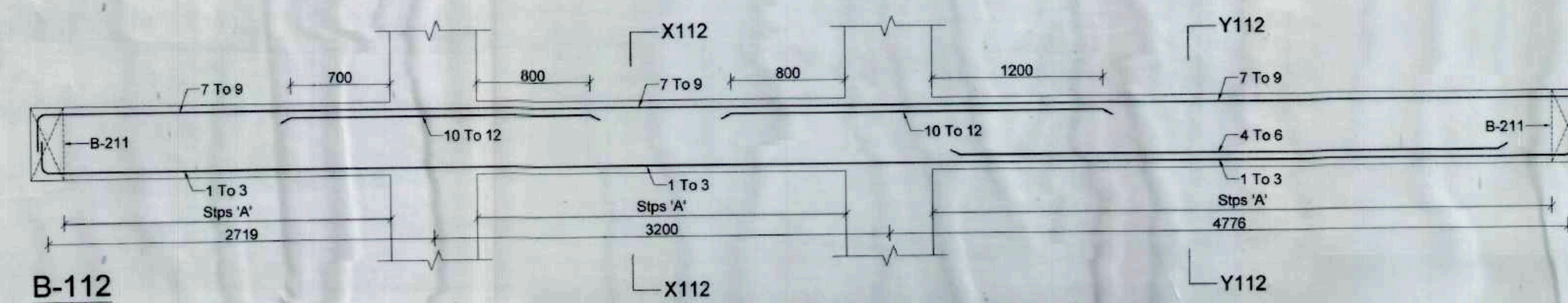
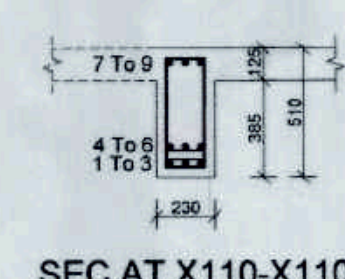
B-102
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c



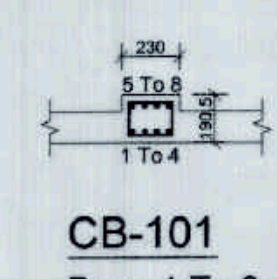
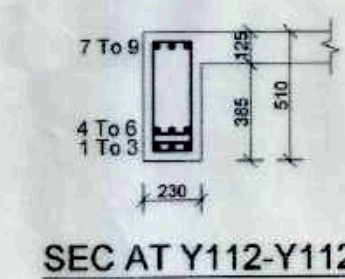
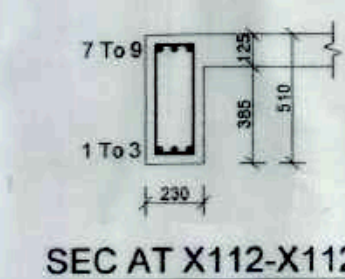
B-109
Bars: 1 To 10 = 16Ø



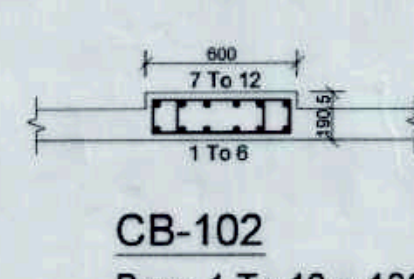
B-110
Bars: 1 To 9 = 16Ø
10 To 12 = 20Ø



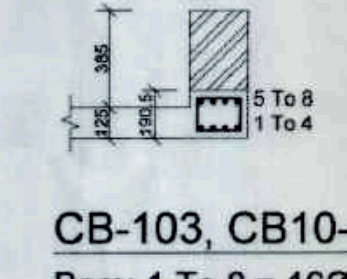
B-112
Bars: 1 To 12 = 16Ø



CB-101
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c



CB-102
Bars: 1 To 12 = 16Ø
Stps: 8Ø 4L @ 150mm c/c



CB-103, CB10-4
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950

- CLEAR COVER TO REINF:-
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

STIRRUPS TABLE

Stps 'A'	= 8Ø 2L 9Nos. @ 100mm c/c + rest @ 200mm c/c
Stps 'B'	= 8Ø 2L @ 150mm c/c

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

STILT FLOOR ROOF SLAB BEAM DETAIL
B-101 TO B-112, CB-101, CB-102, CB-103, CB-104

STRUCTURAL CONSULTANT:

Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY:

JAGMEET SINGH

SCALE:

N.T.S.

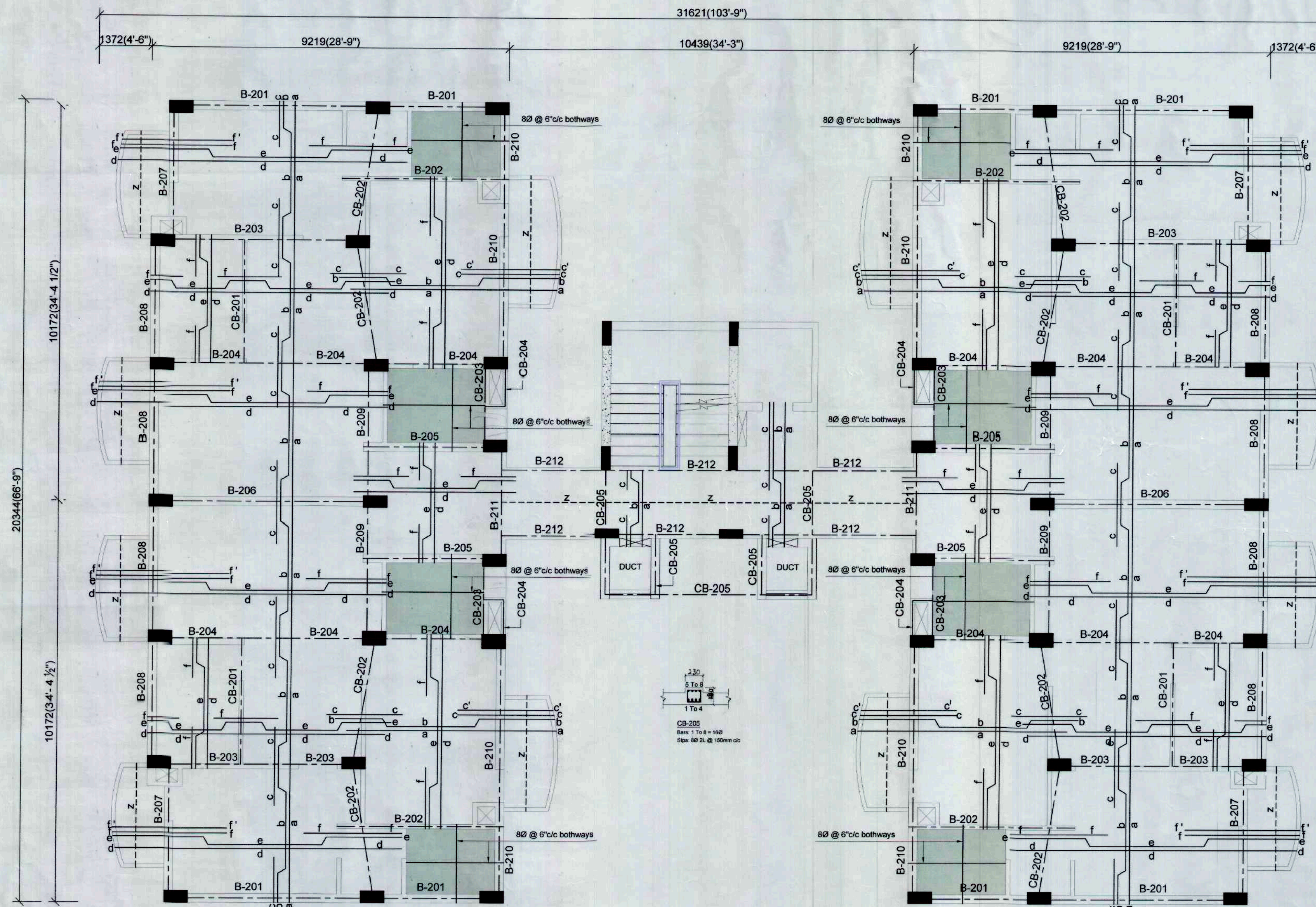
DATE:

30-06-09

DRG. NO.:

S-3

DRG. NO. 05, JOB NO. 139



FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL(TYPICAL)

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FIRST FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a = 10 mm dia. @ 16" c/c. (B)
b = 10 mm dia. @ 16" c/c. (C)
c = 10 mm dia. @ 16" c/c. (T)
c' = 10 mm dia. @ 8" c/c. (T)
d = 8 mm dia. @ 16" c/c. (B)
e = 8 mm dia. @ 16" c/c. (C)
f = 10 mm dia. @ 16" c/c. (T)
f' = 10 mm dia. @ 8" c/c. (T)
Distt. St. 'z' = 8 mm dia. @ 8" c/c.
Holding Bars = 10 mm dia. @ 8" c/c.

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219



CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:-

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

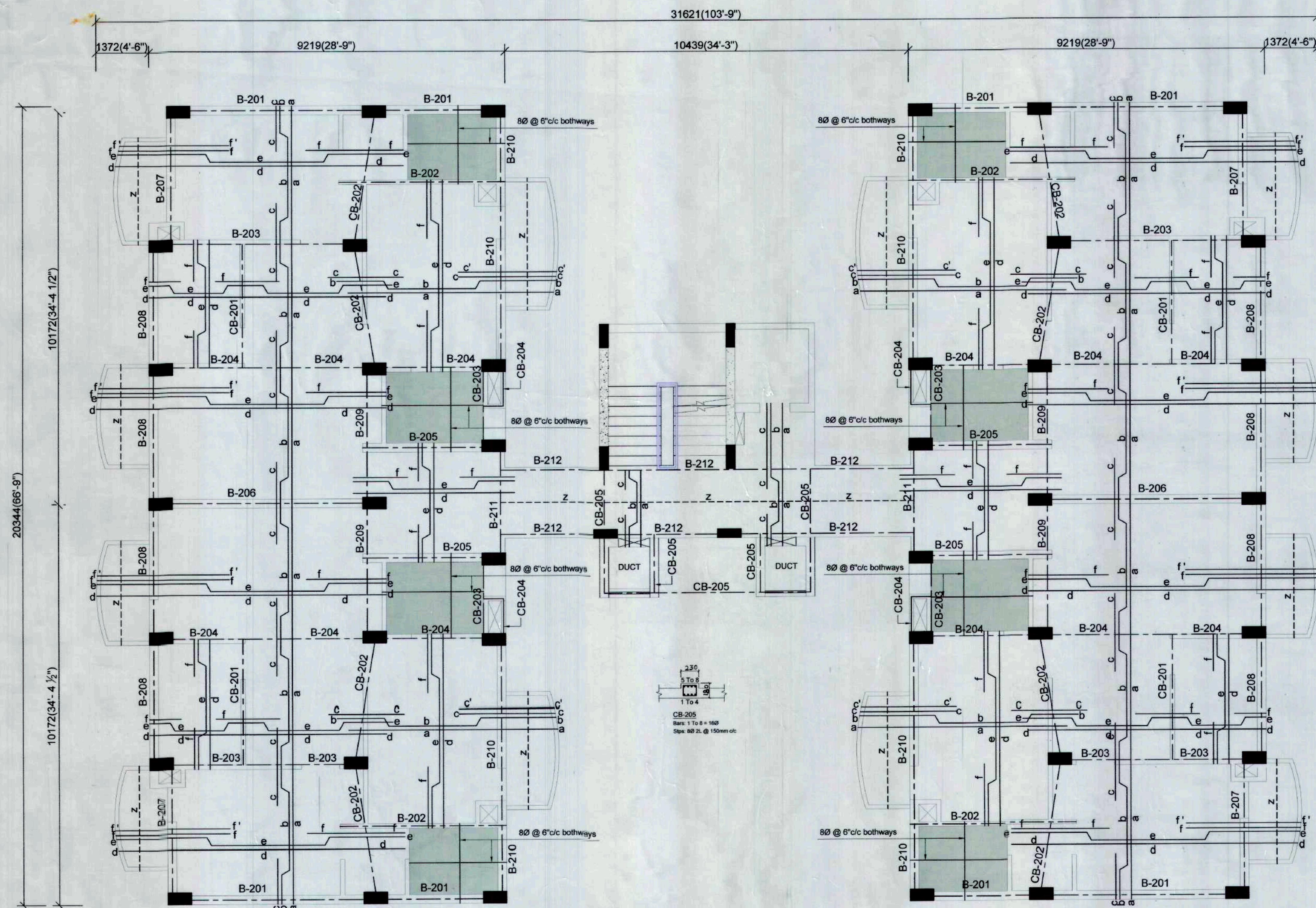
FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL
(TYPICAL), CB-205

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY: JAGMEET SINGH
SCALE: N.T.S.
DATE: 30-06-09
DRG. NO.: S-4

DRG. No. 06, JOB No. 129



FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL(TYPICAL)

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF.:-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FIRST FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a	= 10 mm dia. @ 16" c/c.	(B)
b	= 10 mm dia. @ 16" c/c.	(C)
c	= 10 mm dia. @ 16" c/c.	(T)
c'	= 10 mm dia. @ 8" c/c.	(T)
d	= 8 mm dia. @ 16" c/c.	(B)
e	= 8 mm dia. @ 16" c/c.	(C)
f	= 10 mm dia. @ 16" c/c.	(T)
f'	= 10 mm dia. @ 8" c/c.	(T)
Distt. Sl. 'z'	= 8 mm dia. @ 8" c/c.	
Holding Bars	= 10 mm dia. @ 8" c/c.	

NOTE:
B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)

F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (G+5)

REVISION:

S T R U C T U R E

FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL
(TYPICAL), CB-205

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

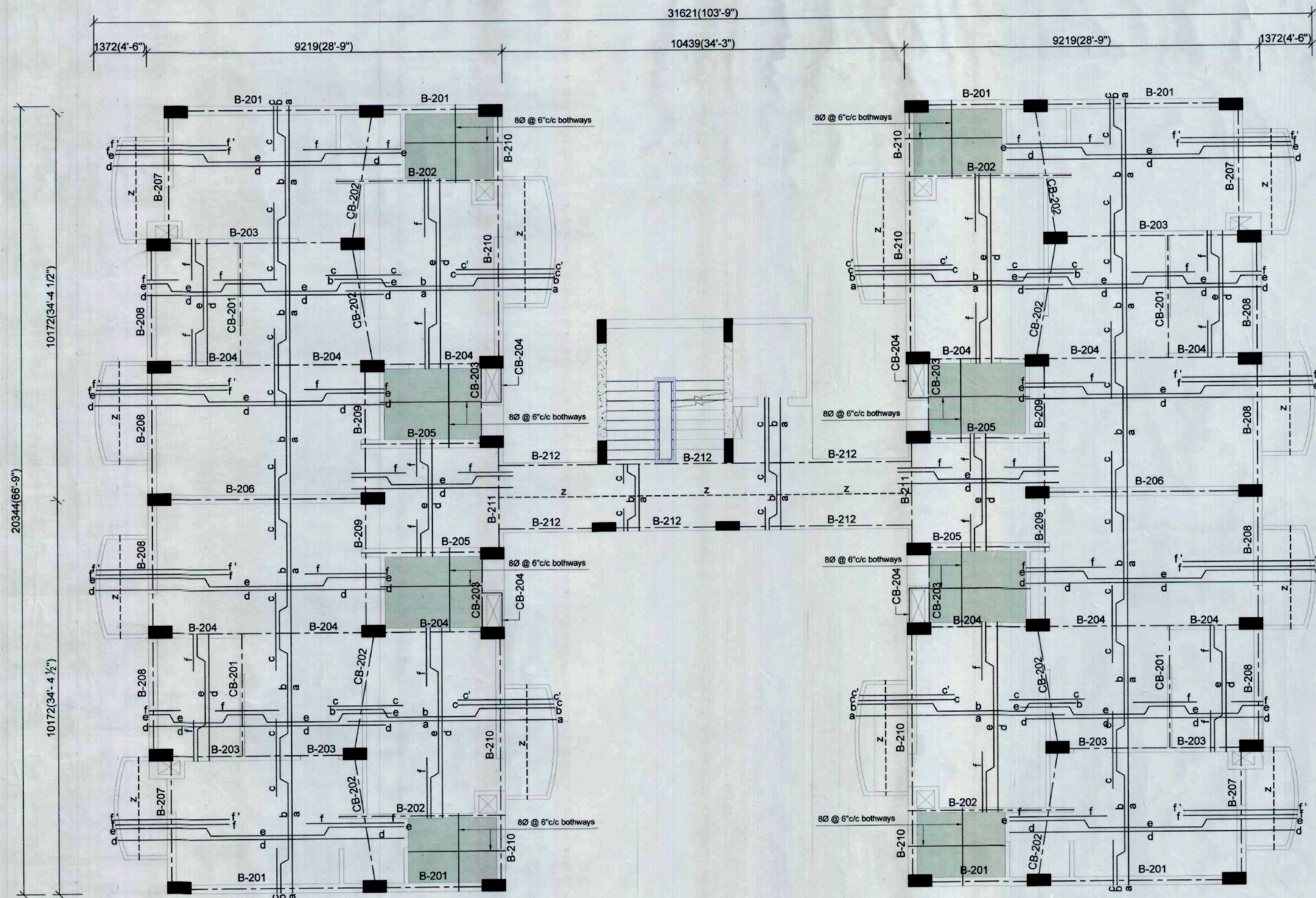
DRAWN BY: JAGMEET SINGH

SCALE: N.T.S.

DATE: 30-06-09

DRG. NO.: S-4

DRG. No. 07, JOB No. 139



FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FIRST FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a = 10 mm dia. @ 16" c/c. (B)
b = 10 mm dia. @ 16" c/c. (C)
c = 10 mm dia. @ 16" c/c. (T)
c' = 10 mm dia. @ 8" c/c. (T)
d = 8 mm dia. @ 16" c/c. (B)
e = 8 mm dia. @ 16" c/c. (C)
f = 10 mm dia. @ 16" c/c. (T)
f' = 10 mm dia. @ 8" c/c. (T)
Distt. St. 'z' = 8 mm dia. @ 8" c/c.
Holding Bars = 10 mm dia. @ 8" c/c.

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)

F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:

**CHANDIGARH
HOUSING
BOARD**

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

S T R U C T U R E

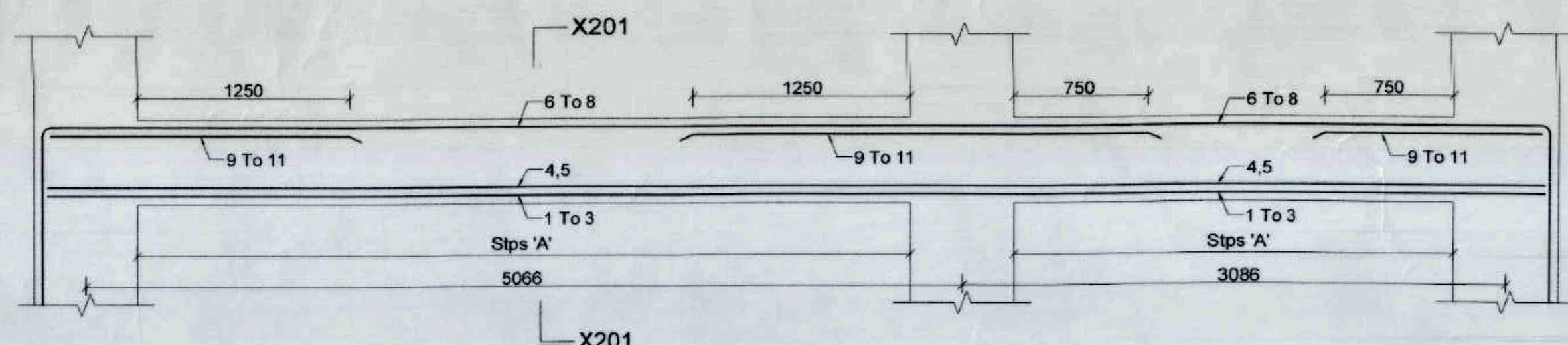
FIRST FLOOR ROOF SLAB REINFORCEMENT DETAIL

STRUCTURAL CONSULTANT: Dr. I. C. Syal

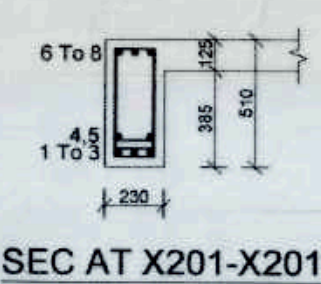
SIGNATURE & STAMP:

DRAWN BY:	JAGMEET SINGH
SCALE:	N.T.S.
DATE:	30-06-09
DRG. NO.:	S-4

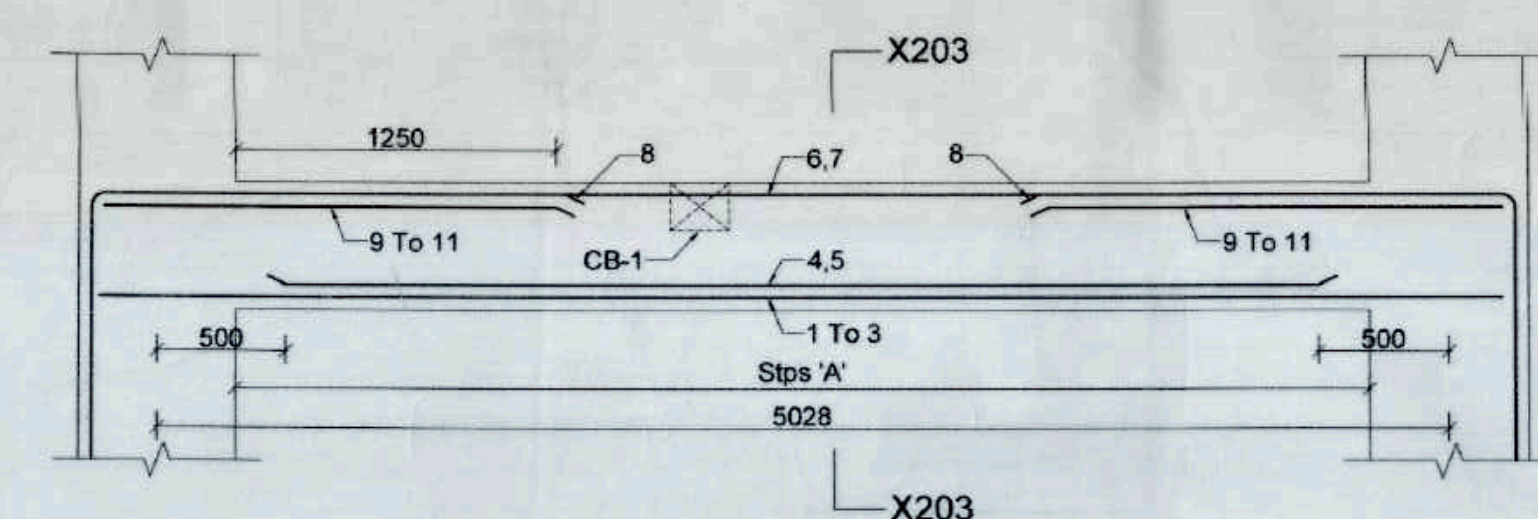
DRG. No. 08 JOB No. 139



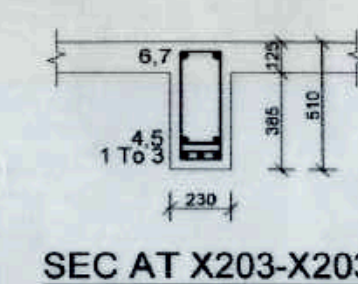
B-201
Bars: 1 To 11 = 16Ø



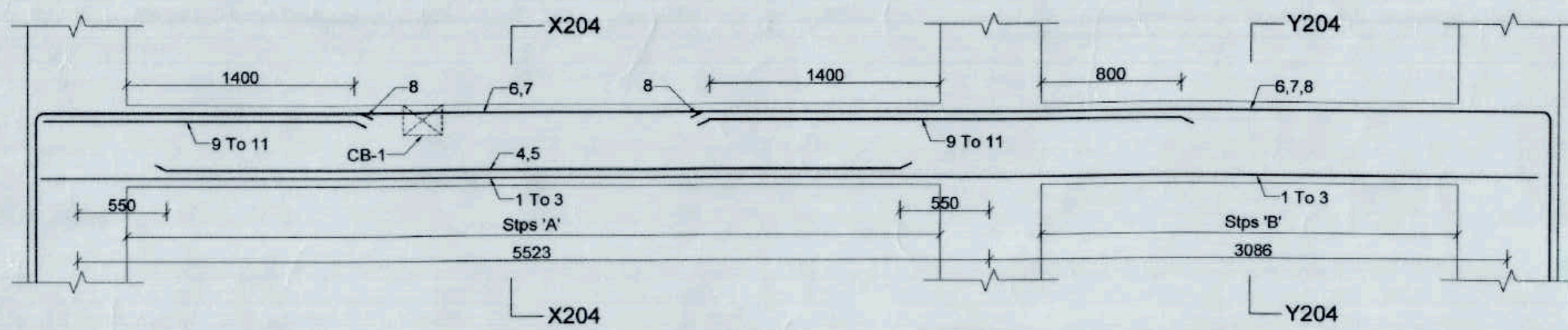
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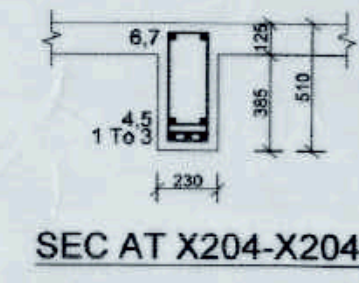
B-203
Bars: 1 To 11 = 16Ø



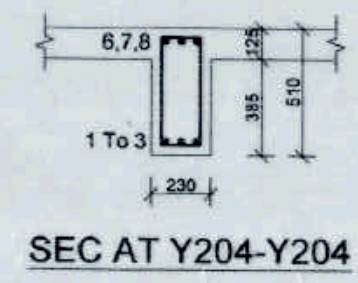
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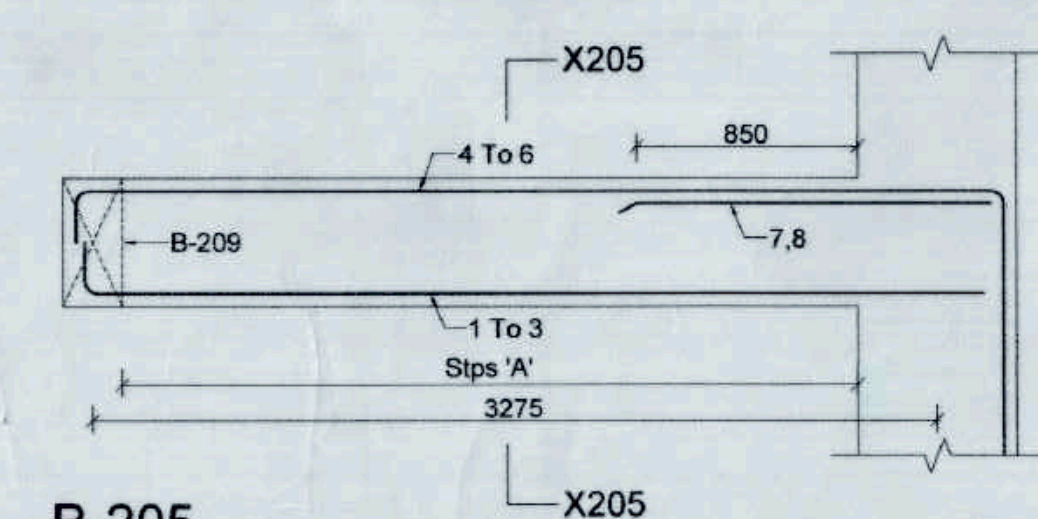
B-204
Bars: 1 To 11 = 16Ø



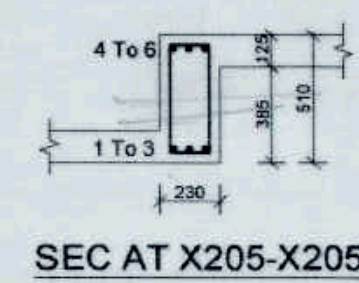
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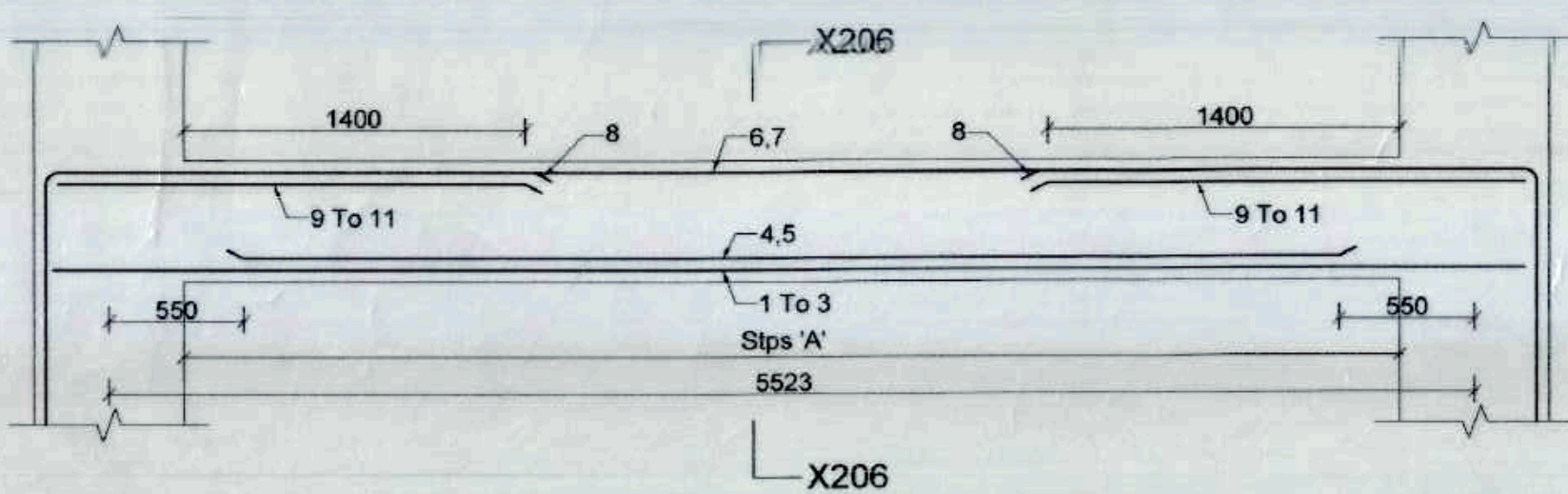
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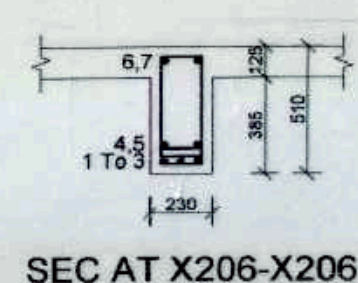
B-205
Bars: 1 To 8 = 16Ø



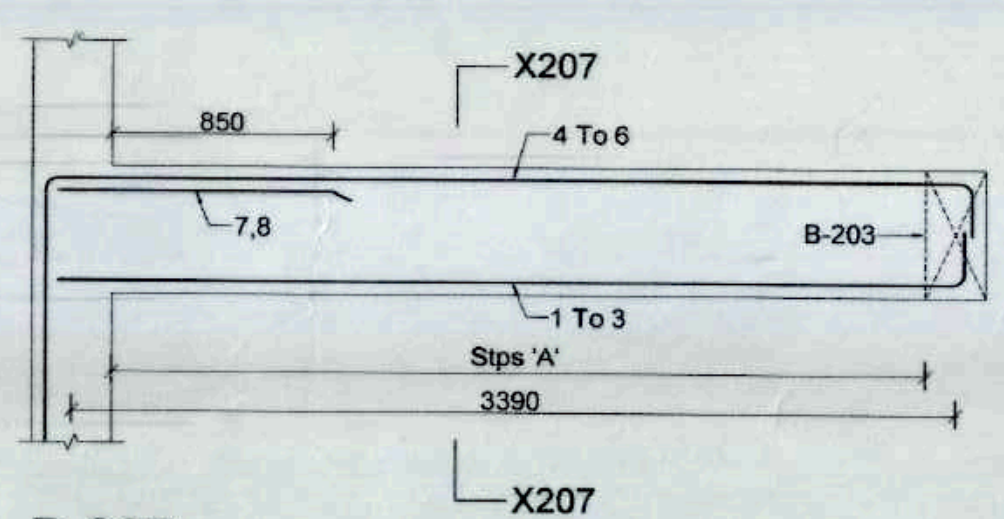
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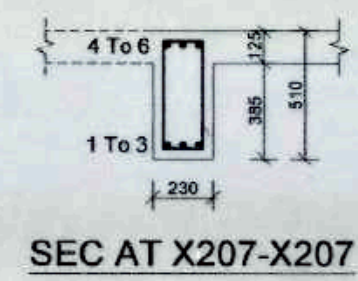
B-206
Bars: 1 To 3, 6 To 8 = 16Ø
4,5 = 12Ø
9 To 11 = 20Ø



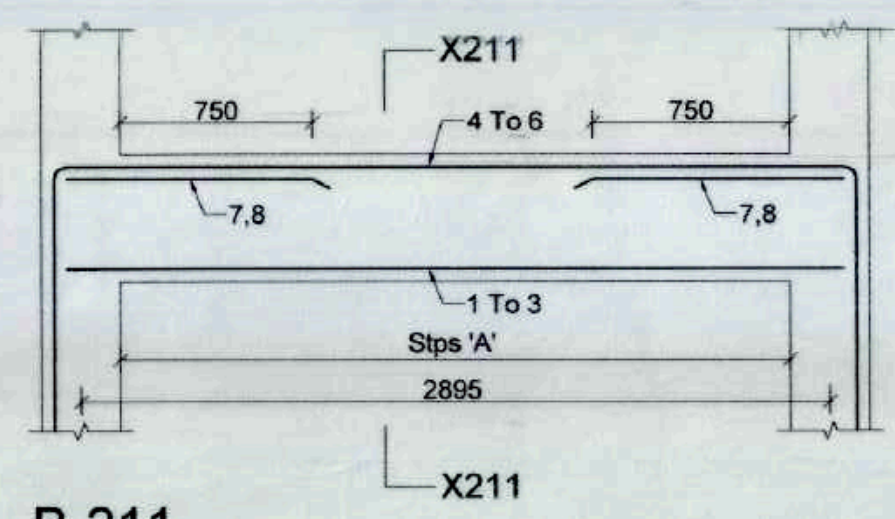
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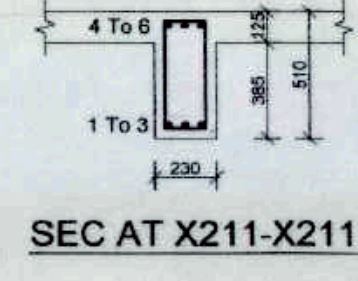
B-207
Bars: 1 To 8 = 16Ø



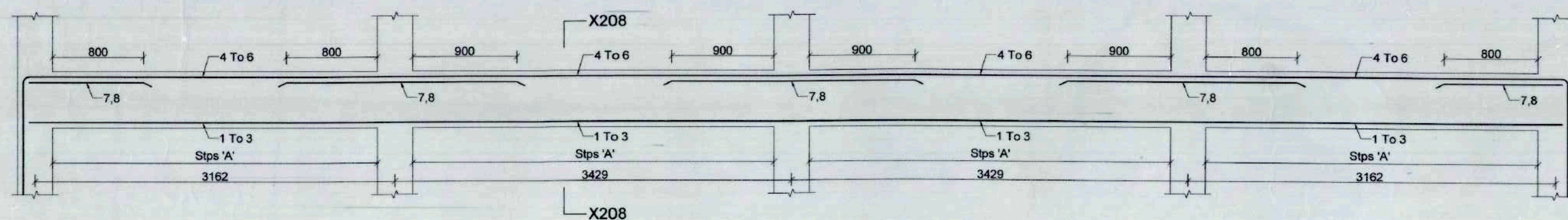
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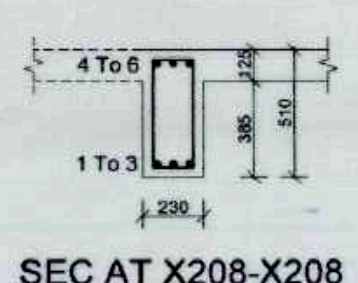
B-211
Bars: 1 To 8 = 16Ø



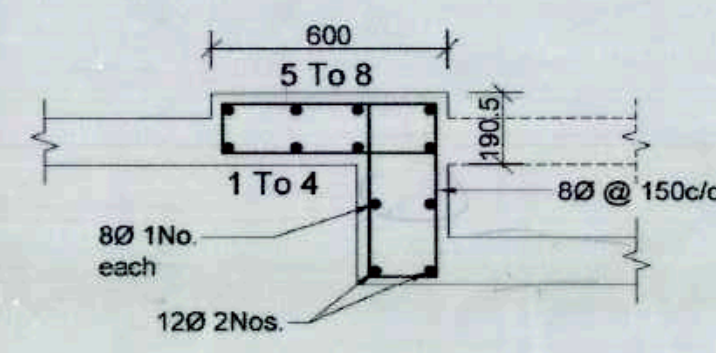
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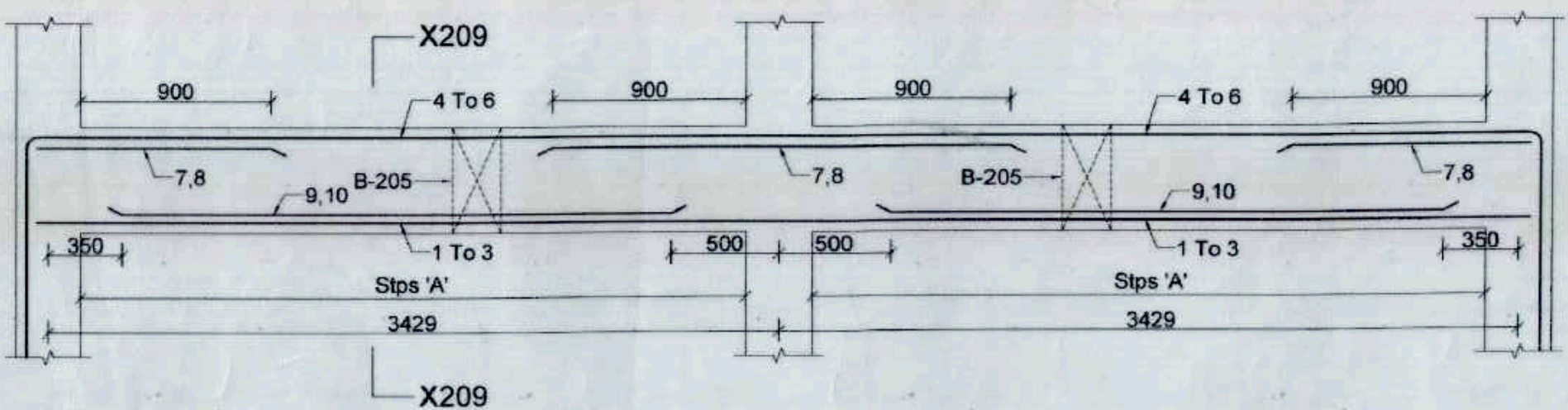
B-208
Bars: 1 To 8 = 16Ø



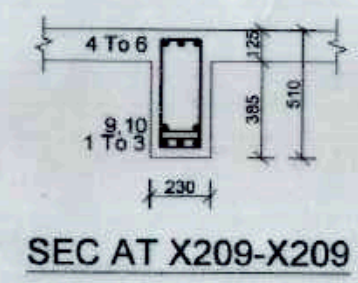
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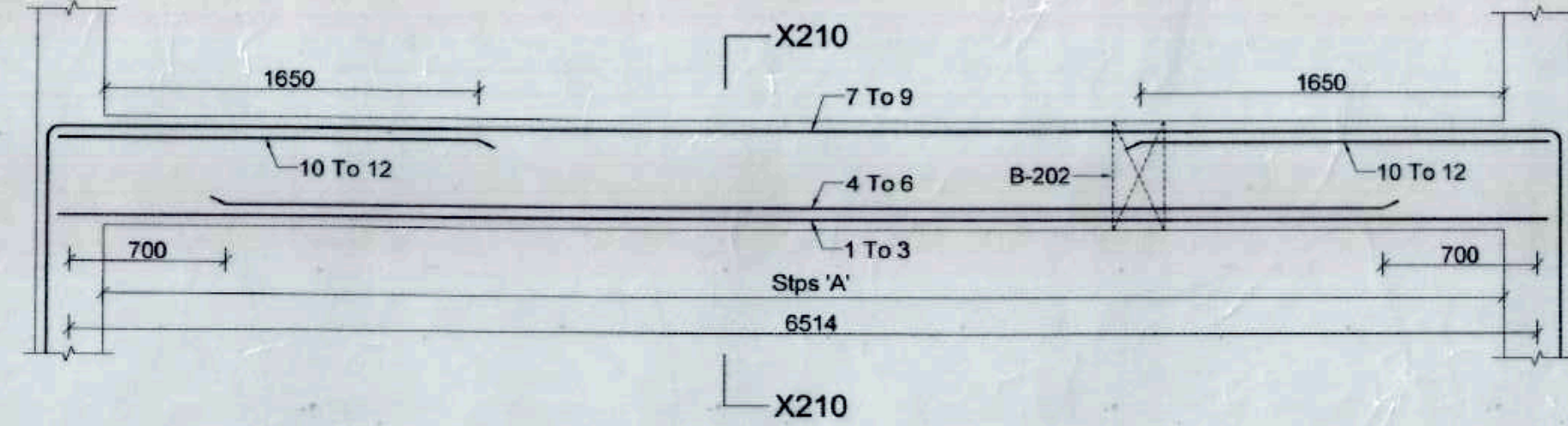
B-202
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c



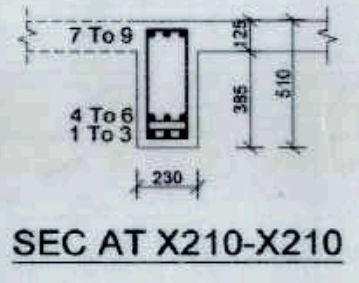
B-209
Bars: 1 To 10 = 16Ø



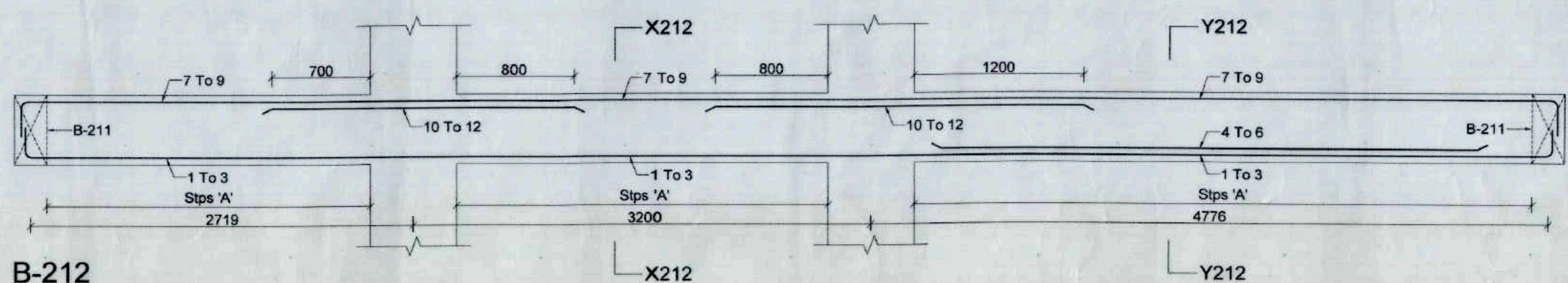
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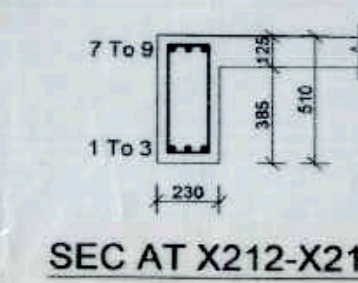
B-210
Bars: 1 To 9 = 16Ø
10 To 12 = 20Ø



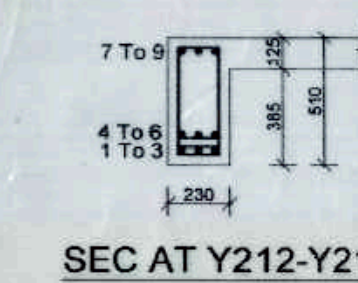
SEC AT X210-X210



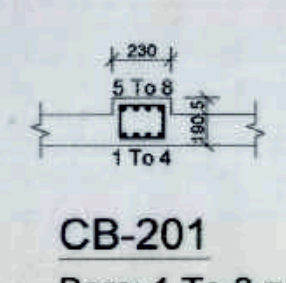
B-212
Bars: 1 To 12 = 16Ø



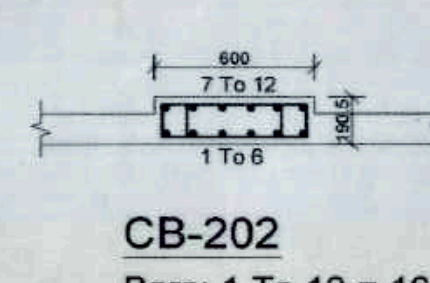
SEC AT X212-X212



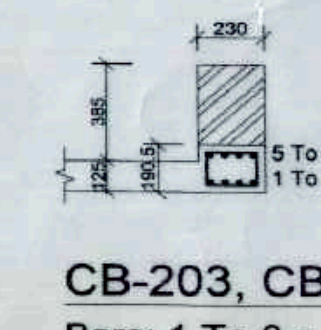
SEC AT Y212-Y212



CB-201
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c



CB-202
Bars: 1 To 12 = 16Ø
Stps: 8Ø 4L @ 150mm c/c



CB-203, CB-204
Bars: 1 To 8 = 16Ø
Stps: 8Ø 2L @ 150mm c/c

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF:-
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

STIRRUPS TABLE

Stps 'A'	= 8Ø 2L 9Nos. @ 100mm c/c + rest @ 200mm c/c
Stps 'B'	= 8Ø 2L @ 150mm c/c

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:-

CHANDIGARH HOUSING BOARD

PROJECT:-

**HOUSING SCHEME FOR SECTOR-63, CHANDIGARH. (SIX STOREY)
TWO BED ROOM FLATS (S+5)**

REVISION:

S T R U C T U R E

FIRST FLOOR ROOF SLAB BEAM DETAIL
B-201 TO B-212, CB-201, CB-202, CB-203, CB-204

STRUCTURAL CONSULTANT:

Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY:

JAGMEET SINGH

SCALE:

N.T.S.

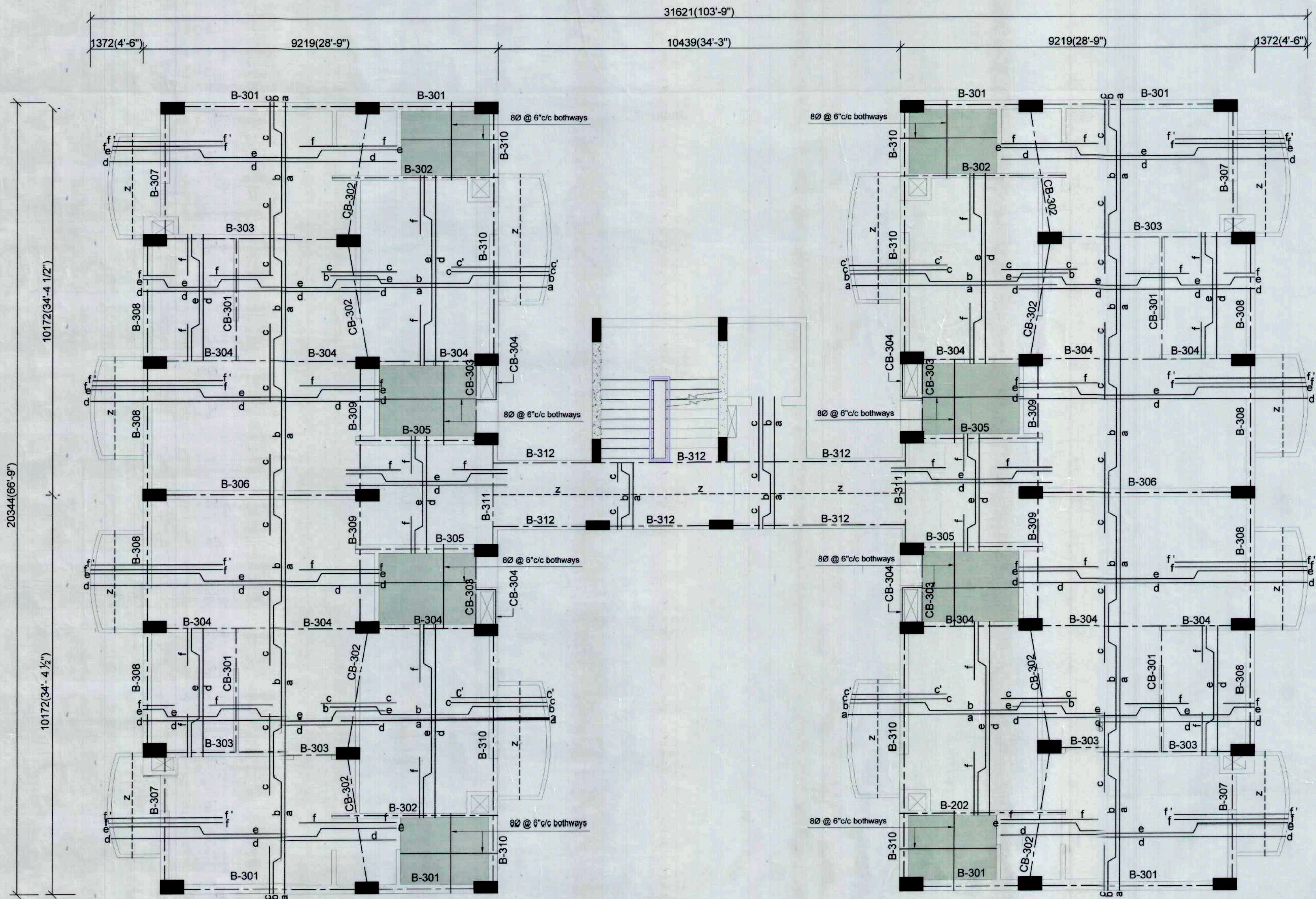
DATE:

30-06-09

DRG. NO.:

S-5

DRG. NO. 09, JOB NO. 139



SECOND FLOOR ROOF SLAB REINFORCEMENT DETAIL

BEAM EQUIVALENCE TABLE	
B-301	B-201
B-302	B-202
B-303	B-203
B-304	B-204
B-305	B-205
B-306	B-206
B-307	B-207
B-308	B-208
B-309	B-209
B-310	B-210
B-311	B-211
B-312	B-212
CB-301	CB-201
CB-302	CB-202
CB-303	CB-203
CB-304	CB-204

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH:-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF.:-
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN SECOND FLOOR ROOF SLAB	
SLAB THICKNESS = 5" THK.	
CONC. USED = M20	
a	= 10 mm dia. @ 16" c/c. (B)
b	= 10 mm dia. @ 16" c/c. (C)
c	= 10 mm dia. @ 16" c/c. (T)
c'	= 10 mm dia. @ 8" c/c. (T)
d	= 8 mm dia. @ 16" c/c. (B)
e	= 8 mm dia. @ 16" c/c. (C)
f	= 10 mm dia. @ 16" c/c. (T)
f'	= 10 mm dia. @ 8" c/c. (T)
Dist. St. 'z'	= 8 mm dia. @ 8" c/c.
Holding Bars	= 10 mm dia. @ 8" c/c.
NOTE: B Bottom C Crank T Top	

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)
TWO BED ROOM FLATS (S+5)

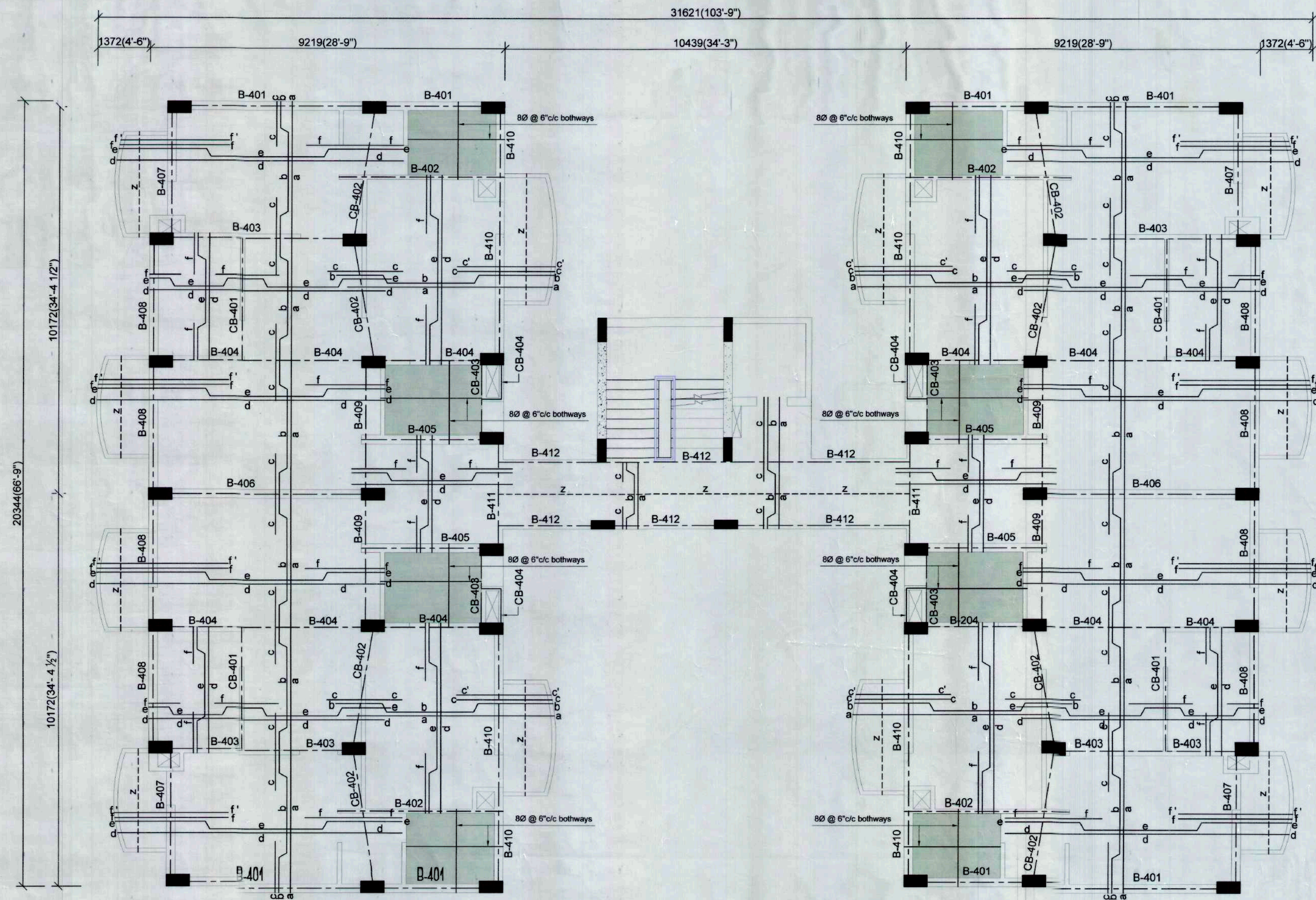
REVISION:		

STRUCTURE

SECOND FLOOR ROOF SLAB REINFORCEMENT DETAIL

STRUCTURAL CONSULTANT:	Dr. I. C. Syal
SIGNATURE & STAMP:	

DRAWN BY:	JAGMEET SINGH
SCALE:	N.T.S.
DATE:	30-06-09
DRG. NO.:	S-6



THIRD FLOOR ROOF SLAB REINFORCEMENT DETAIL

BEAM EQUIVALENCE TABLE	
B-401	≈ B-201
B-402	≈ B-202
B-403	≈ B-203
B-404	≈ B-204
B-405	≈ B-205
B-406	≈ B-206
B-407	≈ B-207
B-408	≈ B-208
B-409	≈ B-209
B-410	≈ B-210
B-411	≈ B-211
B-412	≈ B-212
CB-401	≈ CB-201
CB-402	≈ CB-202
CB-403	≈ CB-203
CB-404	≈ CB-204

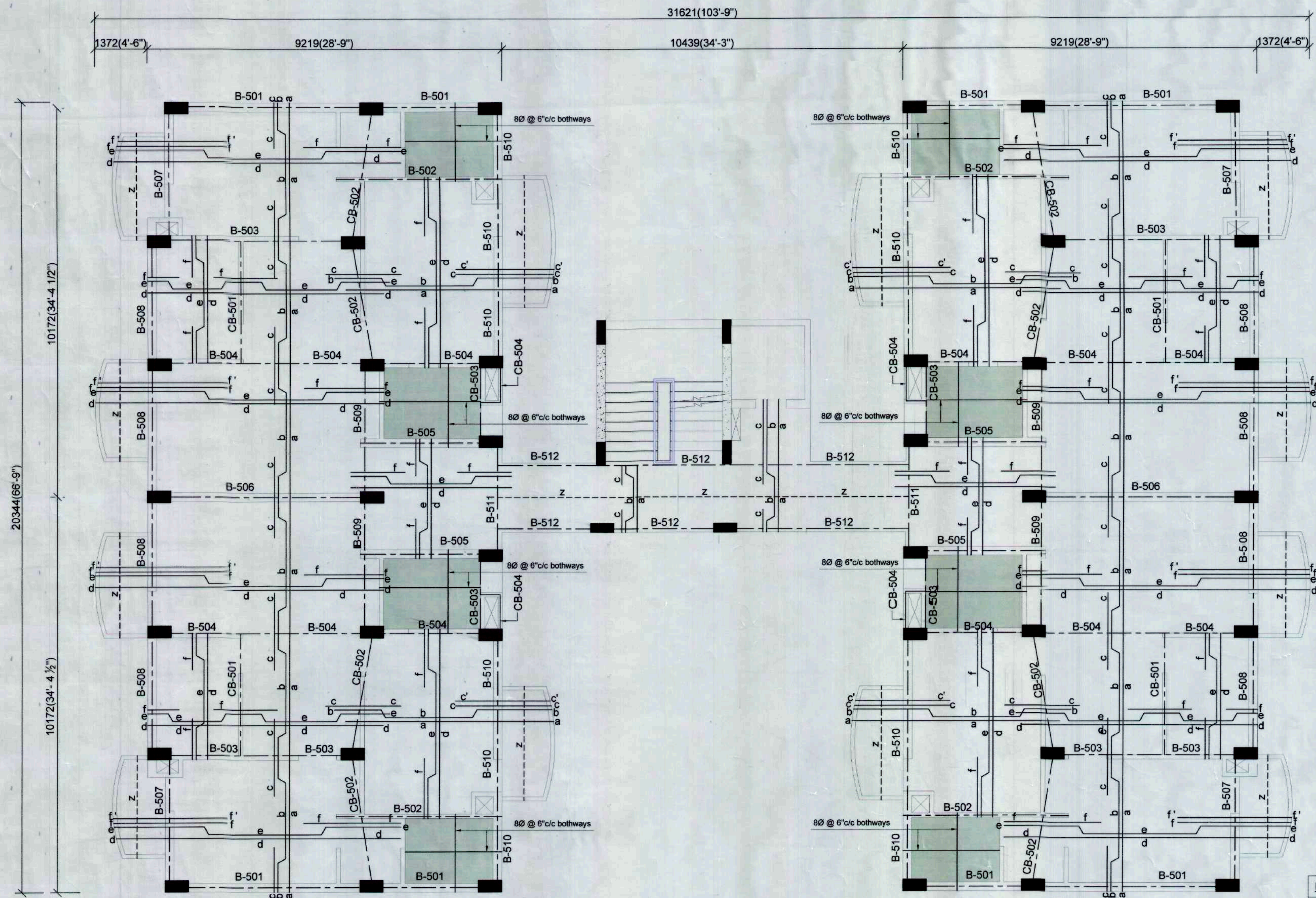
NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm .
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.8 T/m²

SCHEDULE OF BARS IN THIRD FLOOR ROOF SLAB	
SLAB THICKNESS	= 5" THK.
CONC. USED	= M20
a	= 10 mm dia. @ 16" c/c. (B)
b	= 10 mm dia. @ 16" c/c. (C)
c	= 10 mm dia. @ 16" c/c. (T)
c'	= 10 mm dia. @ 8" c/c. (T)
d	= 8 mm dia. @ 16" c/c. (B)
e	= 8 mm dia. @ 16" c/c. (C)
f	= 10 mm dia. @ 16" c/c. (T)
f'	= 10 mm dia. @ 8" c/c. (T)
Distt. St. 'z'	= 8 mm dia. @ 8" c/c.
Holding Bars	= 10 mm dia. @ 8" c/c.
NOTE: B Bottom C Crank T Top	

CONSULTANTS: SYAL & ASSOCIATES (Chartered Engineers, Architects, Surveyors & Land Planners) F-91, PHASE VII, INDUSTRIAL AREA, MOHALI.(Pb) PH 0172-2236219							
CLIENT:-  CHANDIGARH HOUSING BOARD							
PROJECT:- HOUSING SCHEME FOR SECTOR-63, CHANDIGARH. (SIX STOREY) TWO BED ROOM FLATS (S+5)							
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S T R U C T U R E							
THIRD FLOOR ROOF SLAB REINFORCEMENT DETAIL							
STRUCTURAL CONSULTANT:	Dr. I. C. Syal						
SIGNATURE & STAMP: 							
DRAWN BY:	JAGMEET SINGH						
SCALE:	N.T.S.						
DATE:	30-06-09						
DRG. NO.:	S-7						



FOURTH FLOOR ROOF SLAB REINFORCEMENT DETAIL

BEAM EQUIVALENCE TABLE			
B-501	≈	B-201	
B-502	≈	B-202	
B-503	≈	B-203	
B-504	≈	B-204	
B-505	≈	B-205	
B-506	≈	B-206	
B-507	≈	B-207	
B-508	≈	B-208	
B-509	≈	B-209	
B-510	≈	B-210	
B-511	≈	B-211	
B-512	≈	B-212	
CB-501	≈	CB-201	
CB-502	≈	CB-202	
CB-503	≈	CB-203	
CB-504	≈	CB-204	

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar (mm)	Slab/Beams (mm)	Columns (mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF.:-
 (i) FOUNDATION = 60mm.
 (ii) BEAM = 30mm
 (iii) COLUMN = 40mm
 (iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN, WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FOURTH FLOOR ROOF SLAB

SLAB THICKNESS = 5" THK.
CONC. USED = M20

a	=	10 mm dia. @ 16" c/c.	(B)
b	=	10 mm dia. @ 16" c/c.	(C)
c	=	10 mm dia. @ 16" c/c.	(T)
c'	=	10 mm dia. @ 8" c/c.	(T)
d	=	8 mm dia. @ 16" c/c.	(B)
e	=	8 mm dia. @ 16" c/c.	(C)
f	=	10 mm dia. @ 16" c/c.	(T)
f'	=	10 mm dia. @ 8" c/c.	(T)
Distt. St. 'z'	=	8 mm dia. @ 8" c/c.	
Holding Bars	=	10 mm dia. @ 8" c/c.	

NOTE:

B	Bottom
C	Crank
T	Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

FOURTH FLOOR ROOF SLAB REINFORCEMENT DETAIL

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

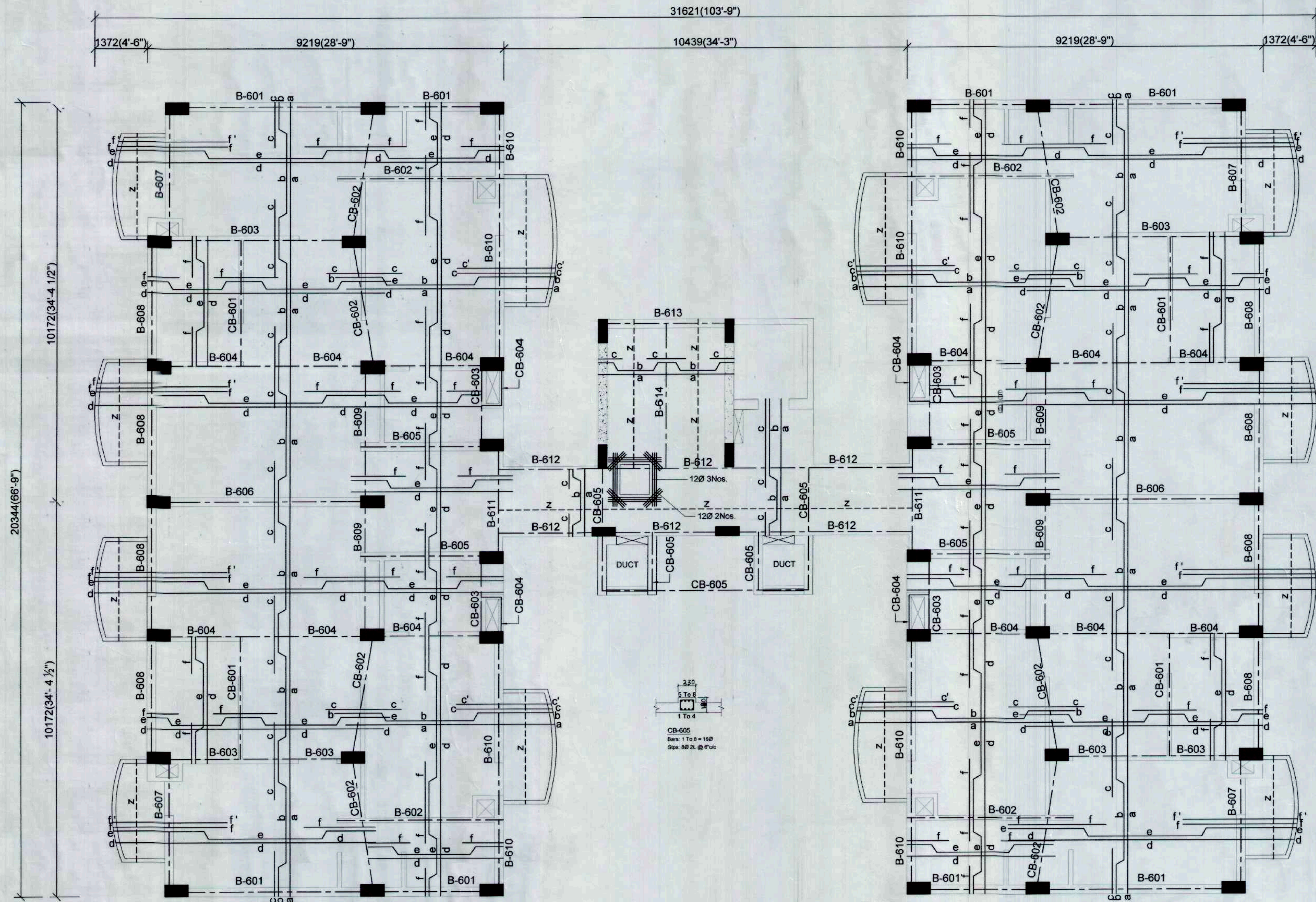
DRAWN BY: JAGMEET SINGH

SCALE: N.T.S.

DATE: 30-06-09

DRG. NO.: S-8

DRG. NO. 12, 20B NO. 139



FIFTH FLOOR ROOF SLAB REINFORCEMENT DETAIL

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH:-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950

- CLEAR COVER TO REINF:-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M20.
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FIFTH FLOOR ROOF SLAB

SLAB THICKNESS = 125mm THK.
CONC. USED = M20

a	= 10 mm dia. @ 400mm c/c.	(B)
b	= 10 mm dia. @ 400mm c/c.	(C)
c	= 10 mm dia. @ 400mm c/c.	(T)
c'	= 10 mm dia. @ 200mm c/c.	(T)
d	= 8 mm dia. @ 400mm c/c.	(B)
e	= 8 mm dia. @ 400mm c/c.	(C)
f	= 10 mm dia. @ 400mm c/c.	(T)
f'	= 10 mm dia. @ 200mm c/c.	(T)
Distt. St. 'z'	= 8 mm dia. @ 200mm c/c.	
Holding Bars	= 10 mm dia. @ 200mm c/c.	

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219



CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

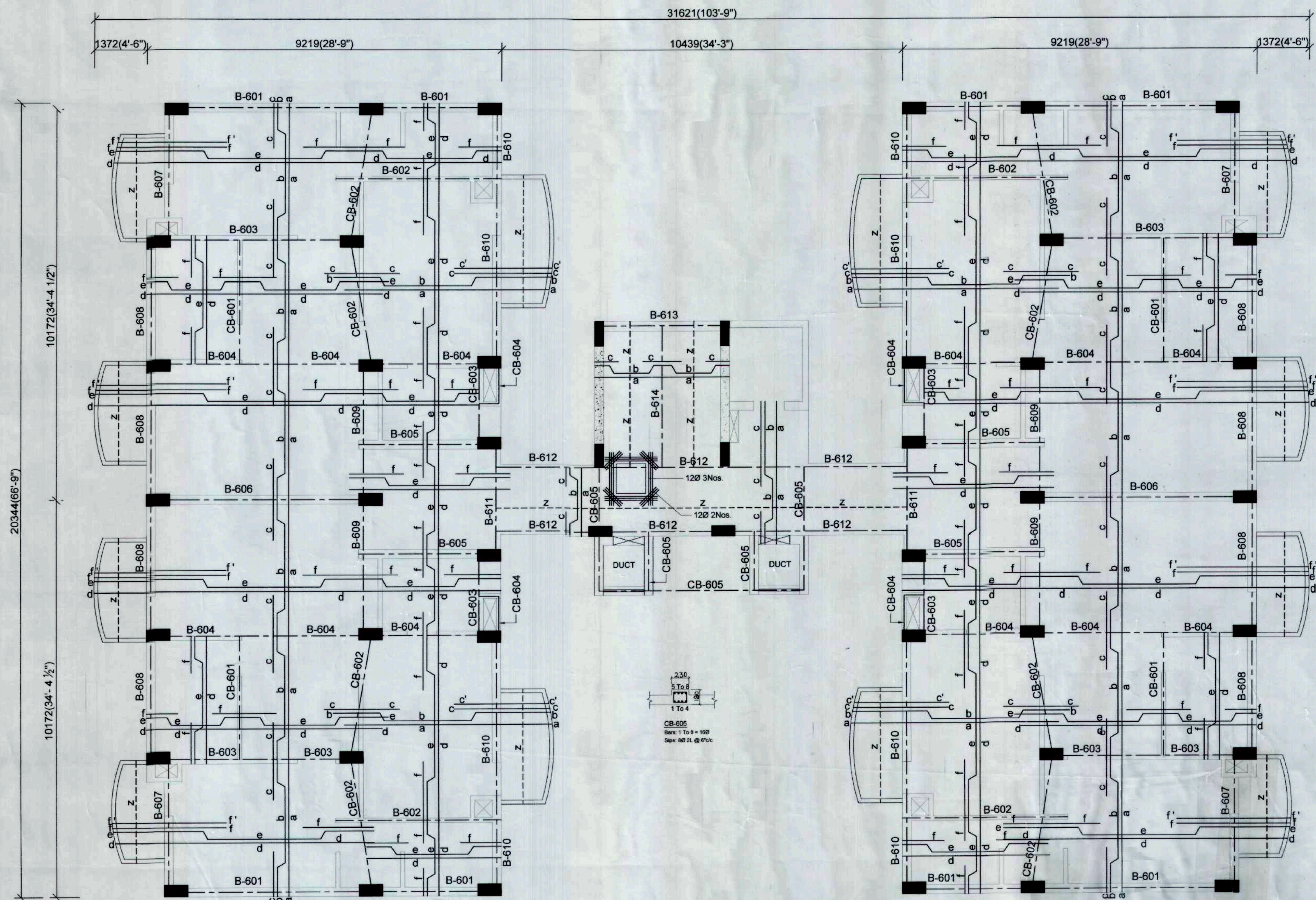
FIFTH FLOOR ROOF SLAB REINFORCEMENT
DETAIL, CB-605

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY:	JAGMEET SINGH
SCALE:	N.T.S.
DATE:	30-06-09
DRG. NO.:	S-9

DRG. NO. 13, 20B NO. 139



FIFTH FLOOR ROOF SLAB REINFORCEMENT DETAIL

NOTES

1. DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
2. CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
3. Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
4. FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
5. NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
6. LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
7. CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
8. EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
9. CONC. USED IS M25
10. NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

SCHEDULE OF BARS IN FIFTH FLOOR ROOF SLAB

SLAB THICKNESS = 125mm THK.
CONC. USED = M20

a = 10 mm dia. @ 400mm c/c. (B)
b = 10 mm dia. @ 400mm c/c. (C)
c = 10 mm dia. @ 400mm c/c. (T)
c' = 10 mm dia. @ 200mm c/c. (T)
d = 8 mm dia. @ 400mm c/c. (B)
e = 8 mm dia. @ 400mm c/c. (C)
f = 10 mm dia. @ 400mm c/c. (T)
f' = 10 mm dia. @ 200mm c/c. (T)
Dist. Sl. 'z' = 8 mm dia. @ 200mm c/c.
Holding Bars = 10 mm dia. @ 200mm c/c.

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219



CLIENT:

**CHANDIGARH
HOUSING
BOARD**

PROJECT:

HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (G+5)

REVISION:

S T R U C T U R E

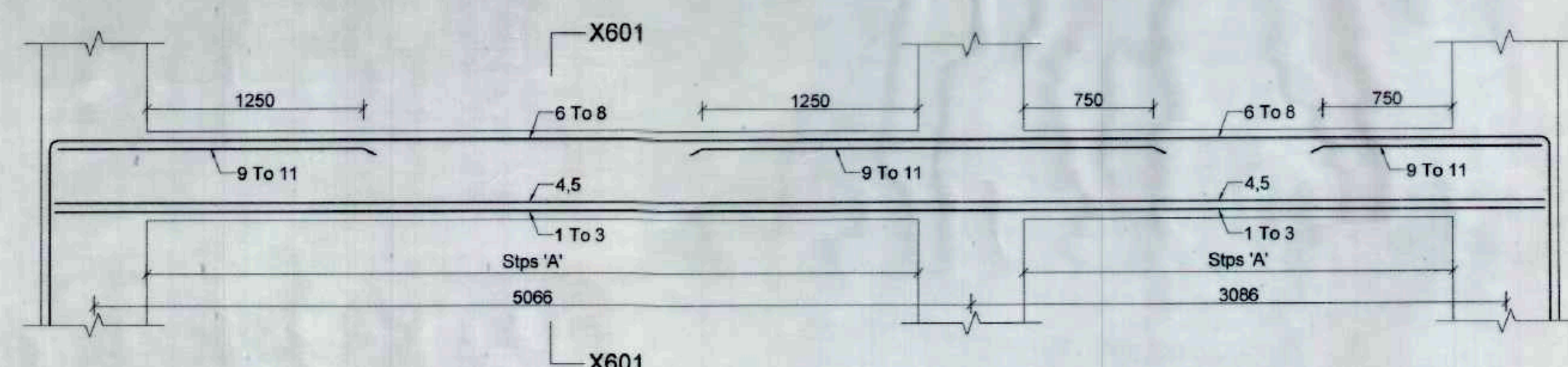
FIFTH FLOOR ROOF SLAB REINFORCEMENT
DETAIL, CB-605

STRUCTURAL CONSULTANT: Dr. I. C. Syal

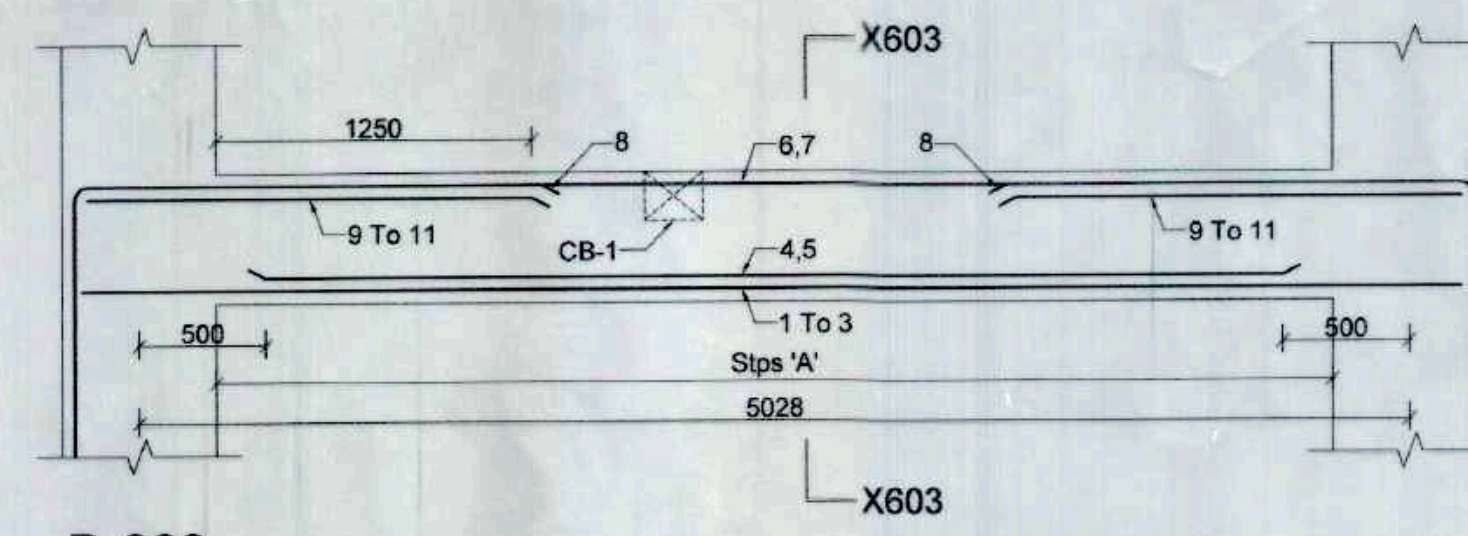
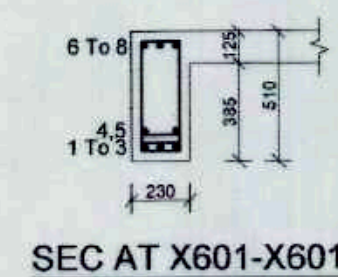
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SCALE:	N.T.S.
DATE:	30-06-09
DRG. NO.:	S-9

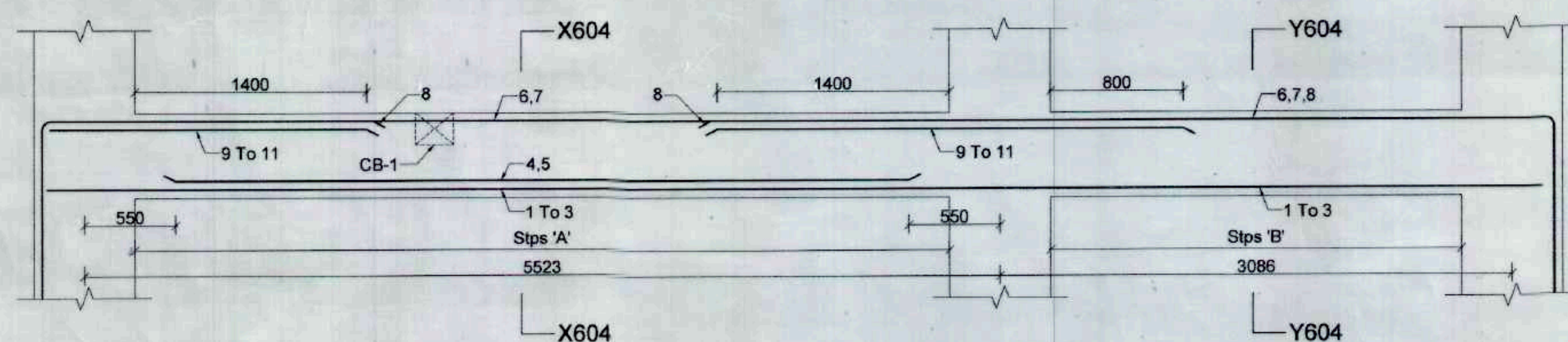
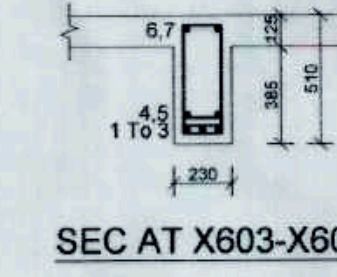
DRG. No. 14, 202 No. 139



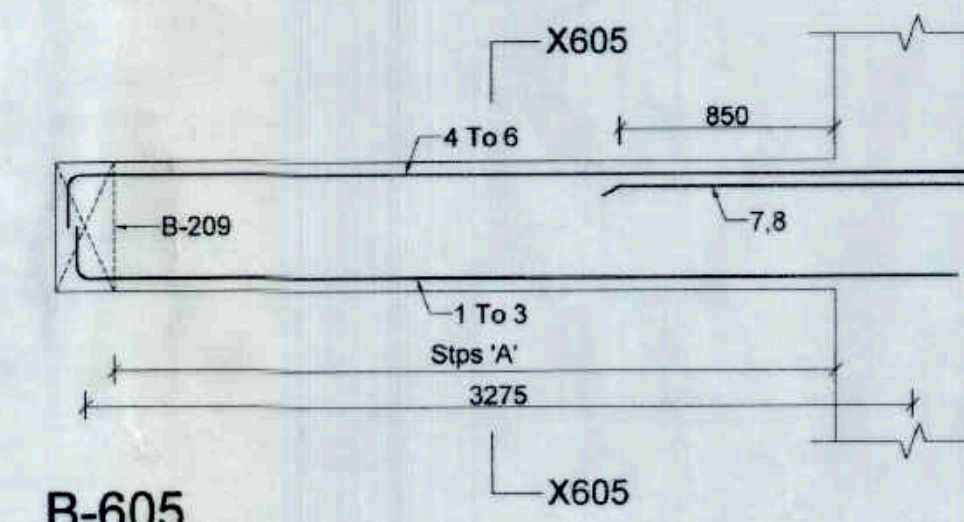
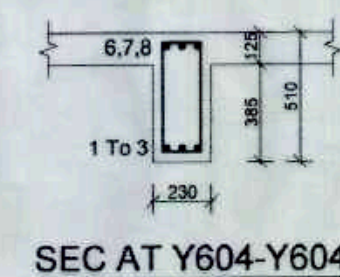
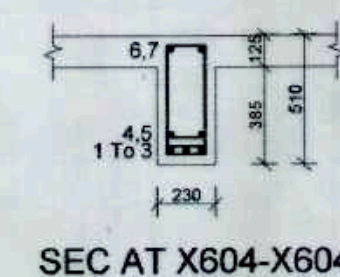
B-601
Bars: 1 To 3, 9 To 11 = 16Ø
4 To 8 = 12Ø



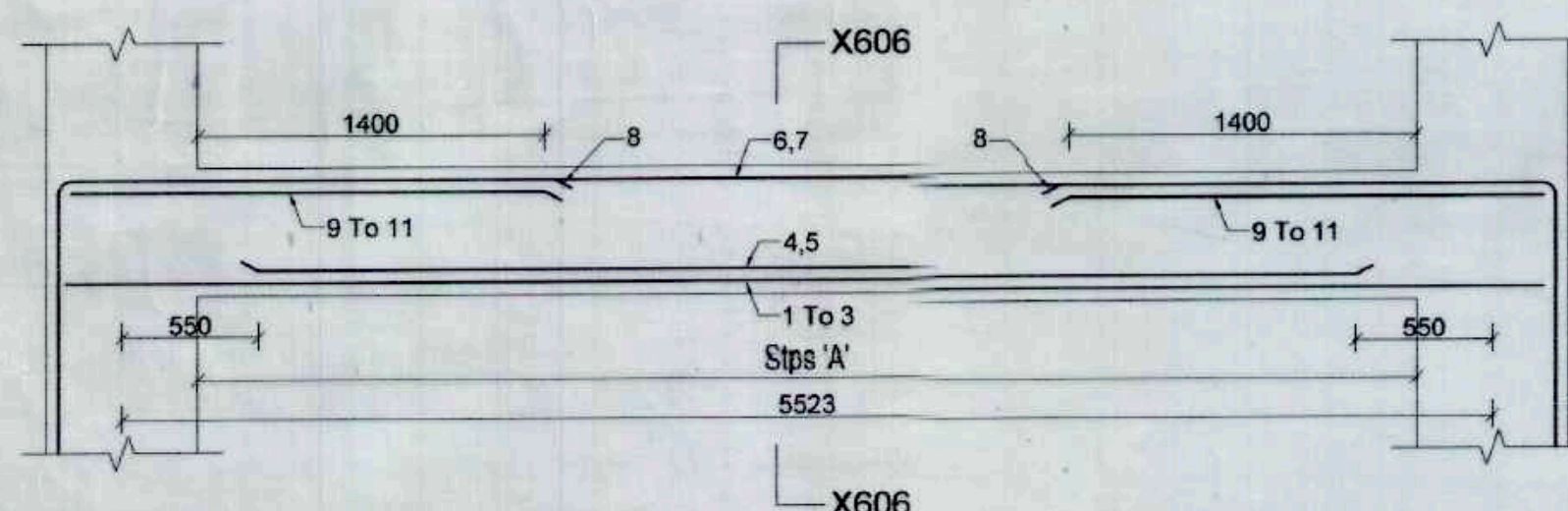
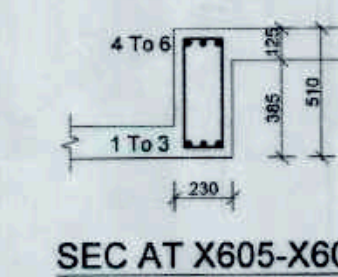
B-603
Bars: 1 To 3, 9 To 11 = 16Ø
4 To 8 = 12Ø



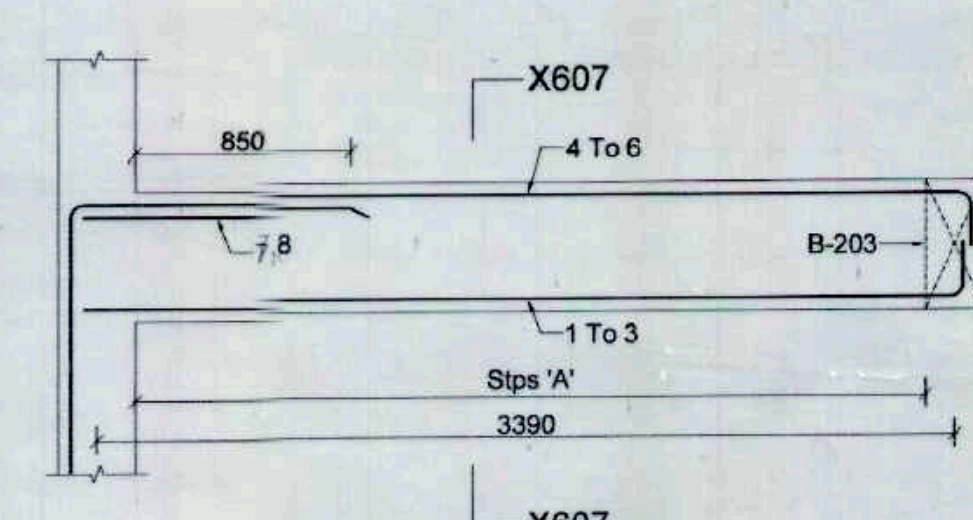
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4 To 8 = 12Ø



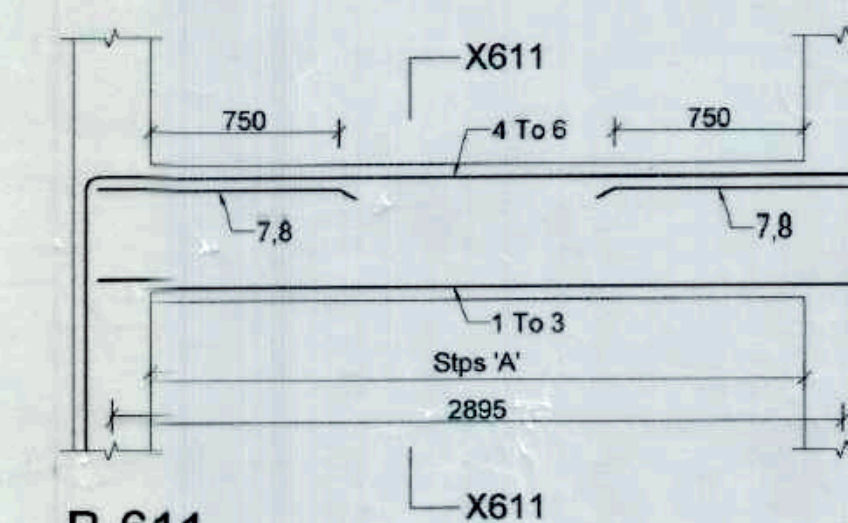
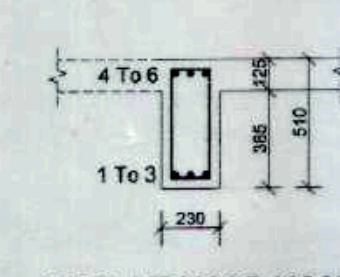
B-605
Bars: 1 To 6 = 16Ø
7,8 = 12Ø



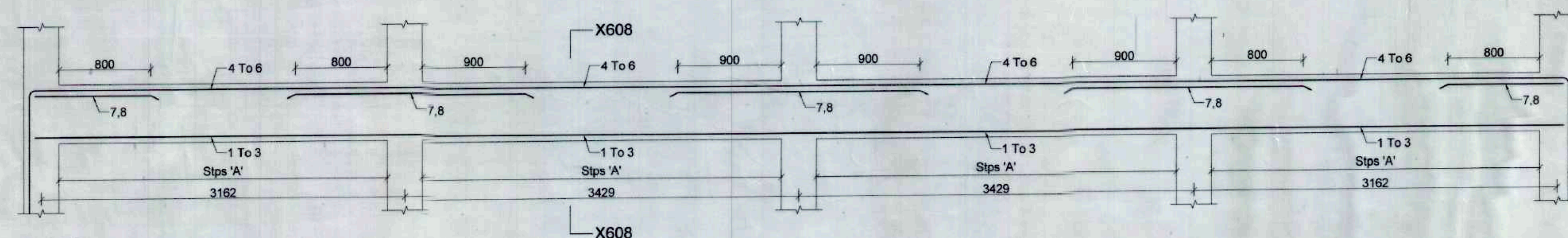
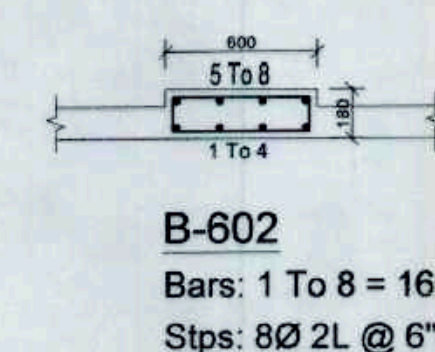
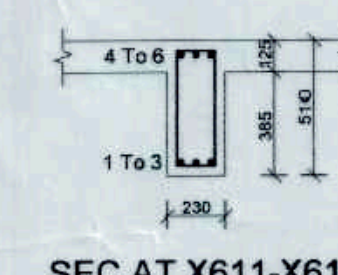
B-606
Bars: 1 To 3, 9 To 11 = 16Ø
4 To 8 = 12Ø



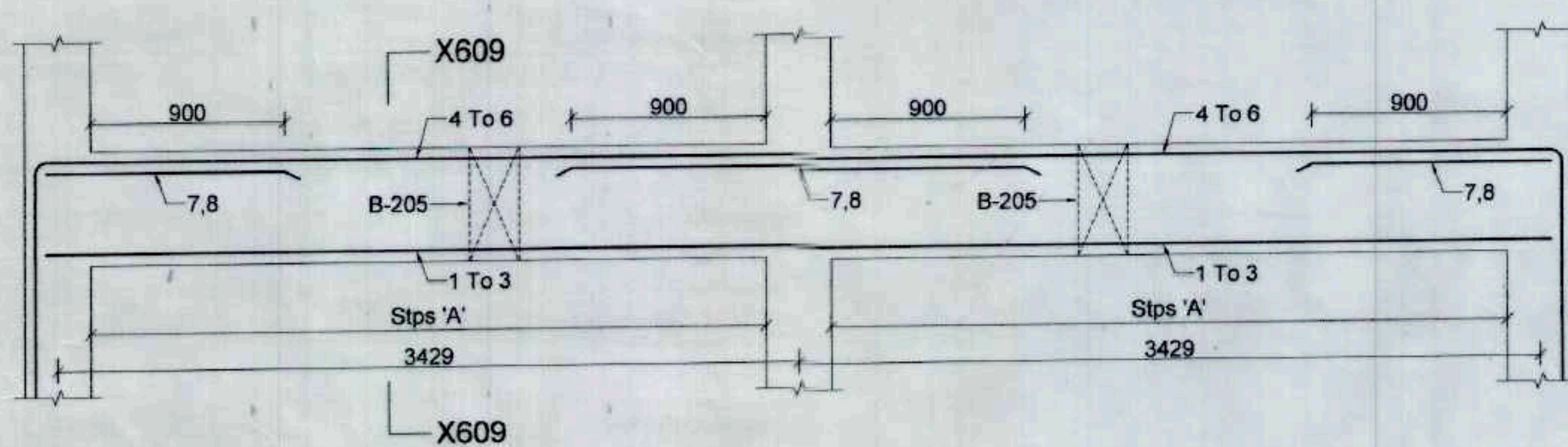
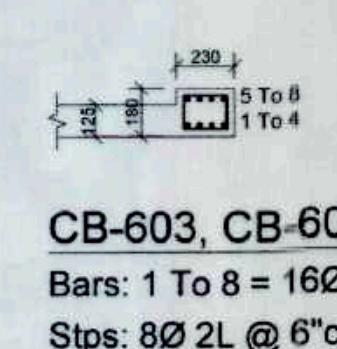
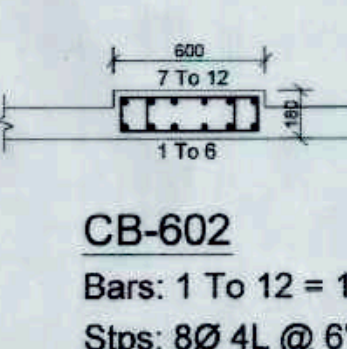
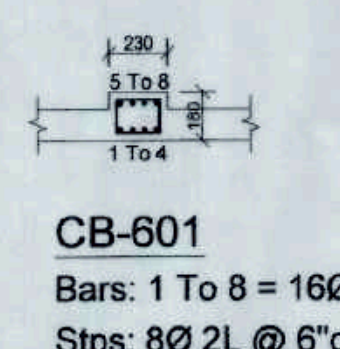
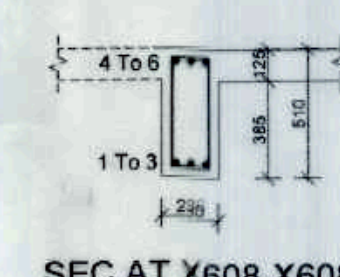
B-607
Bars: 1 To 6 = 16Ø
7,8 = 12Ø



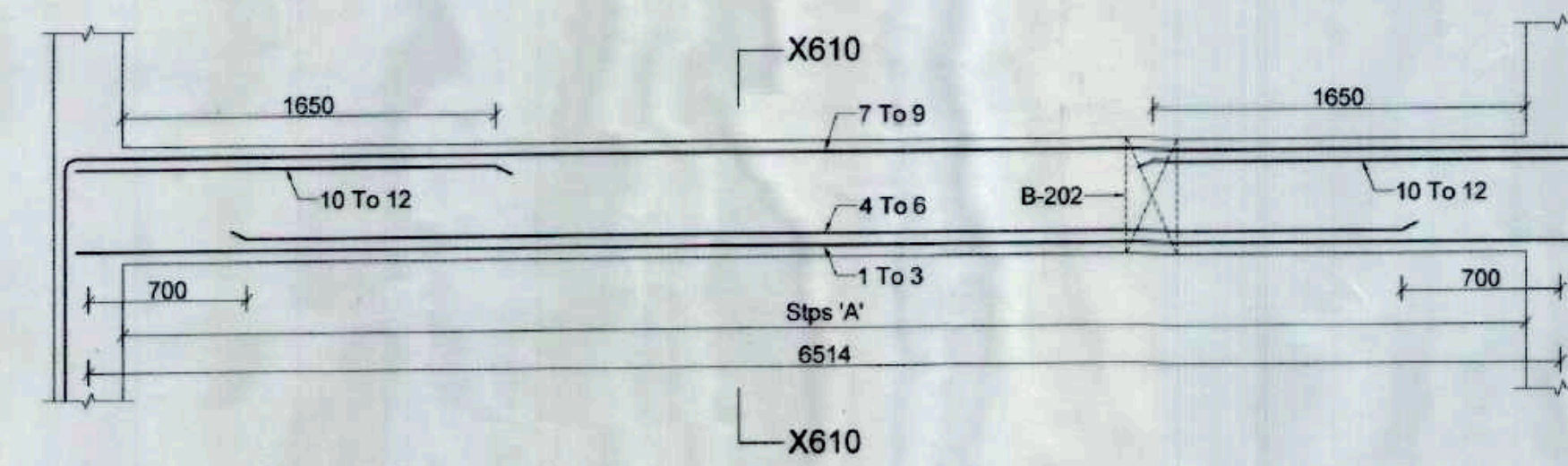
B-611
Bars: 1 To 6 = 16Ø
7,8 = 12Ø



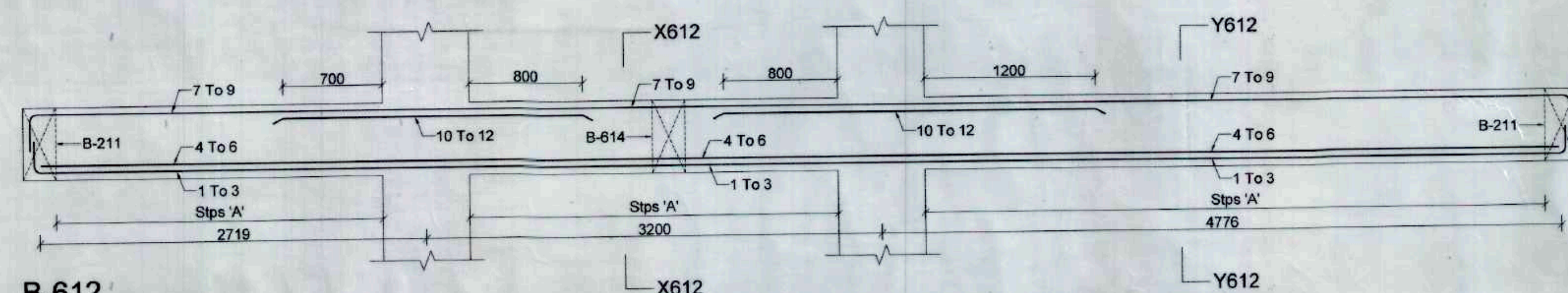
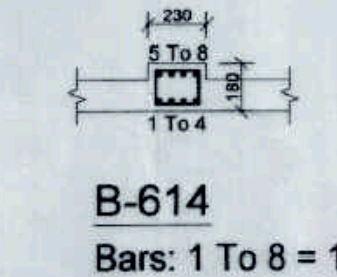
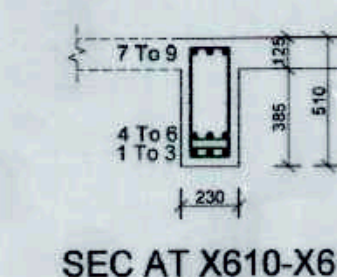
B-608
Bars: 1 To 6 = 16Ø
7,8 = 12Ø



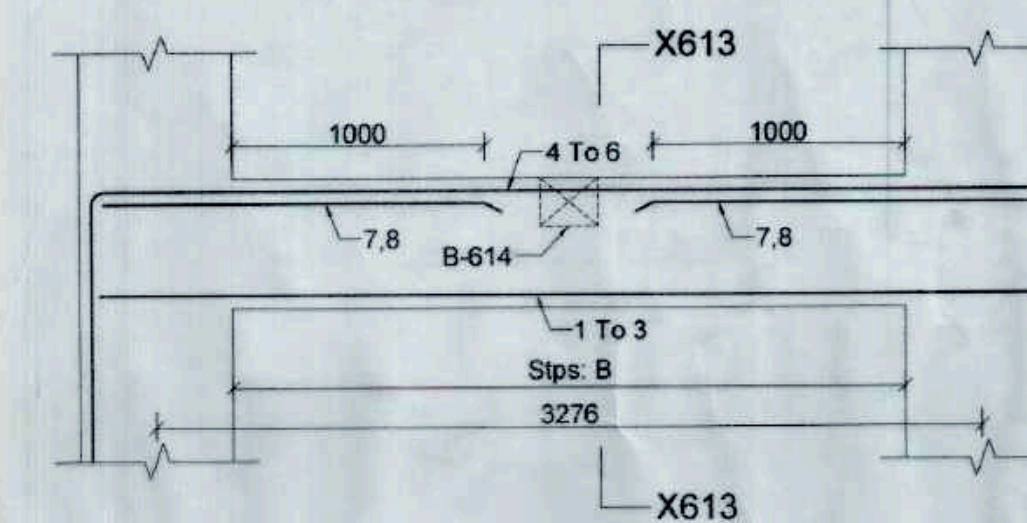
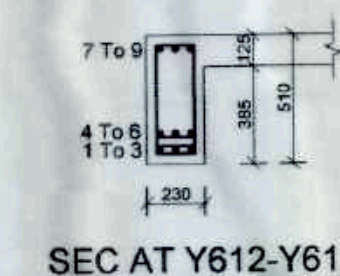
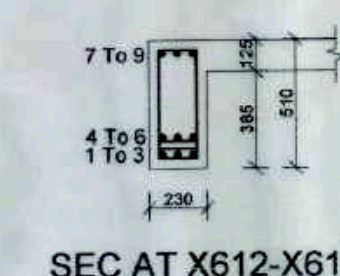
B-609
Bars: 1 To 8 = 16Ø



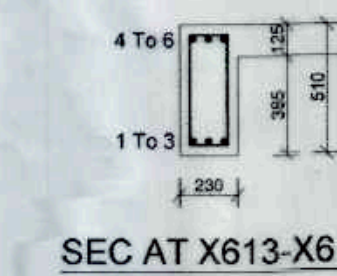
B-610
Bars: 1 To 12 = 16Ø



B-612
Bars: 1 To 12 = 16Ø



B-613
Bars: 1 To 8 = 16Ø



NOTES

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- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950

- CLEAR COVER TO REINF.:-
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

STIRRUPS TABLE

Stps 'A'	= 8Ø 2L 9Nos. @ 100mm c/c + rest @ 200mm c/c
Stps 'B'	= 8Ø 2L @ 150mm c/c

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

**CHANDIGARH
HOUSING
BOARD**

PROJECT:-

**HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)**

TWO BED ROOM FLATS (S+5)

REVISION:

STRUCTURE

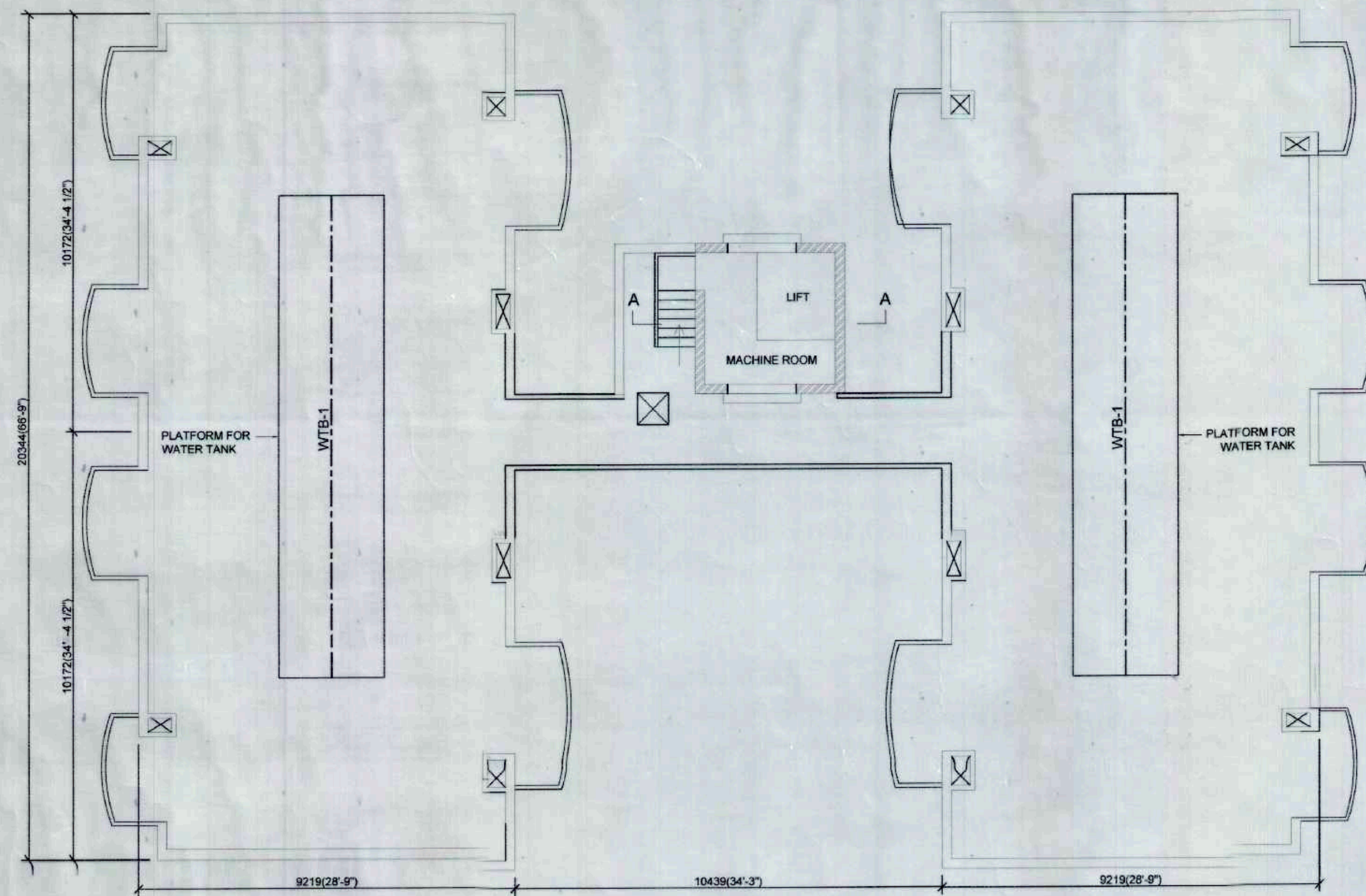
**FIFTH FLOOR ROOF SLAB BEAM DETAIL
B-601 TO B-614, CB-601, CB-602, CB-603, CB-604**

STRUCTURAL CONSULTANT: Dr. I. C. Syal

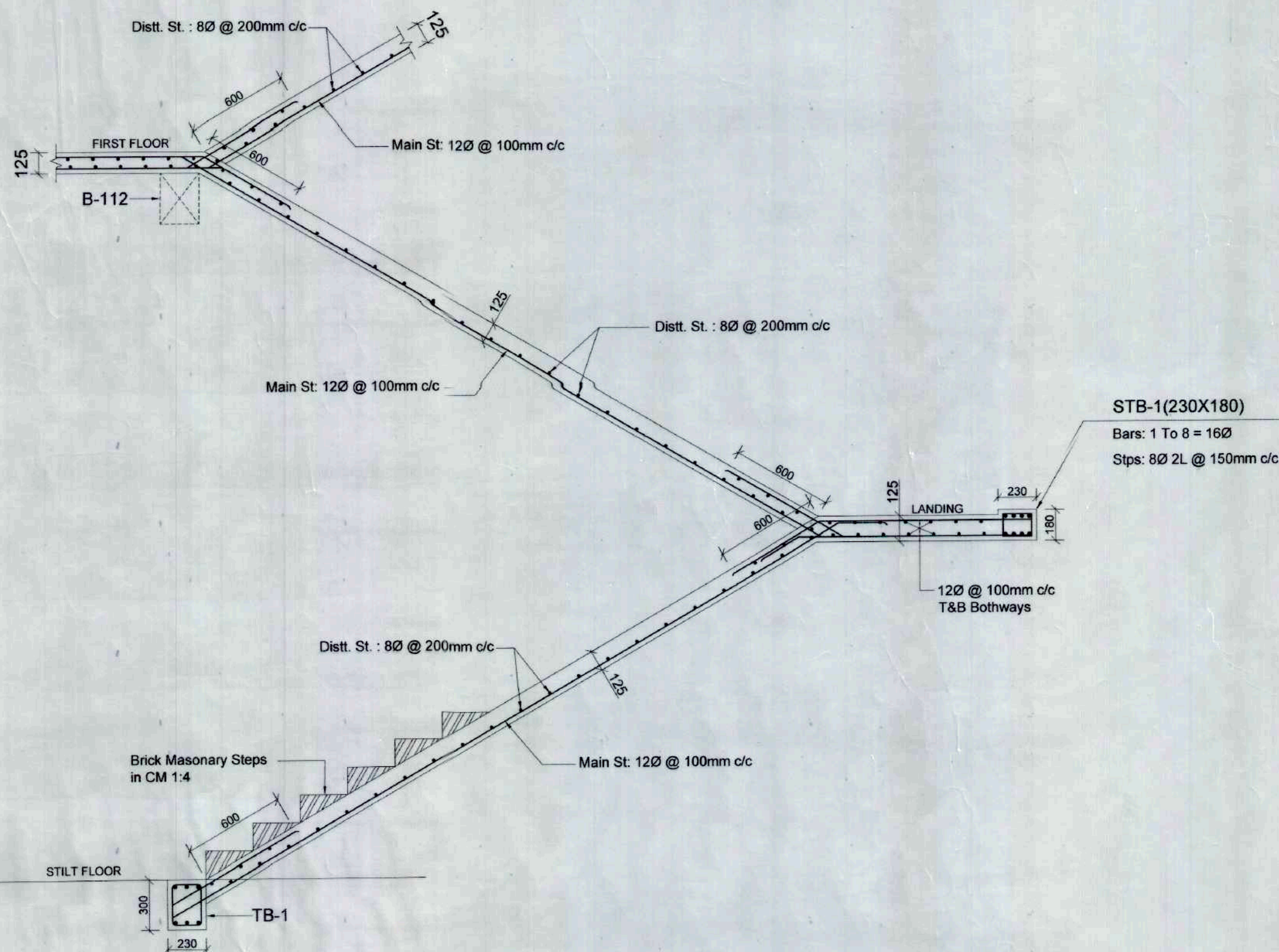
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SCALE:	N.T.S.
DATE:	30-06-09
DRG. NO.:	S-10

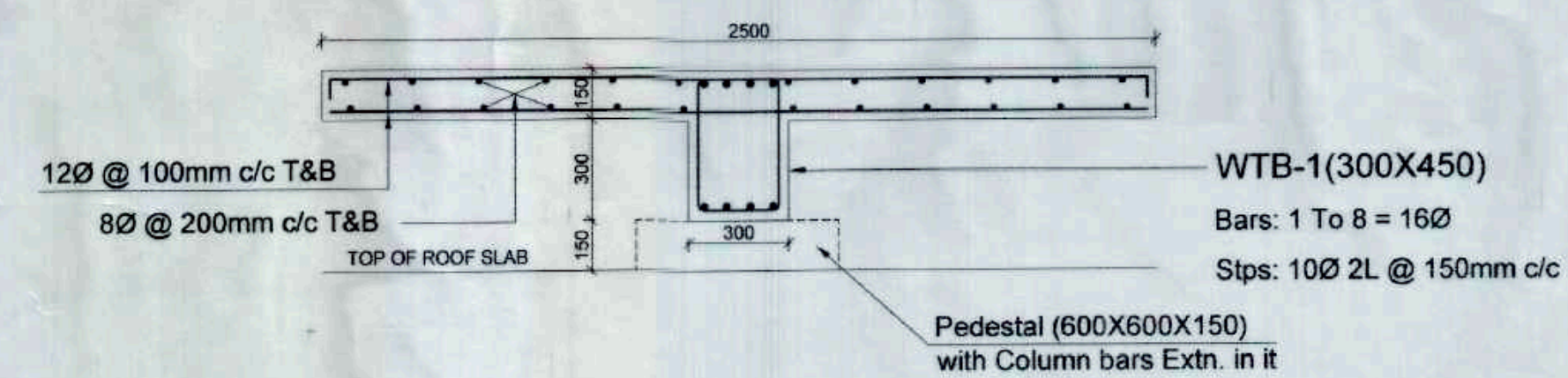
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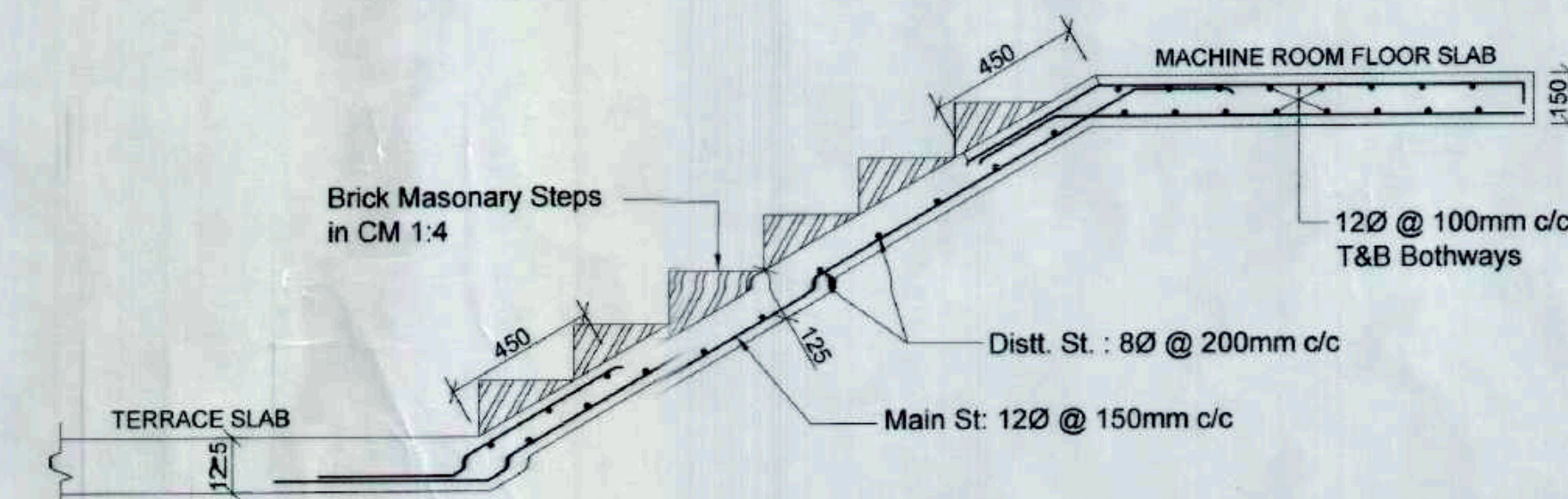
PLAN SHOWING WATER TANK/MACHINE ROOM



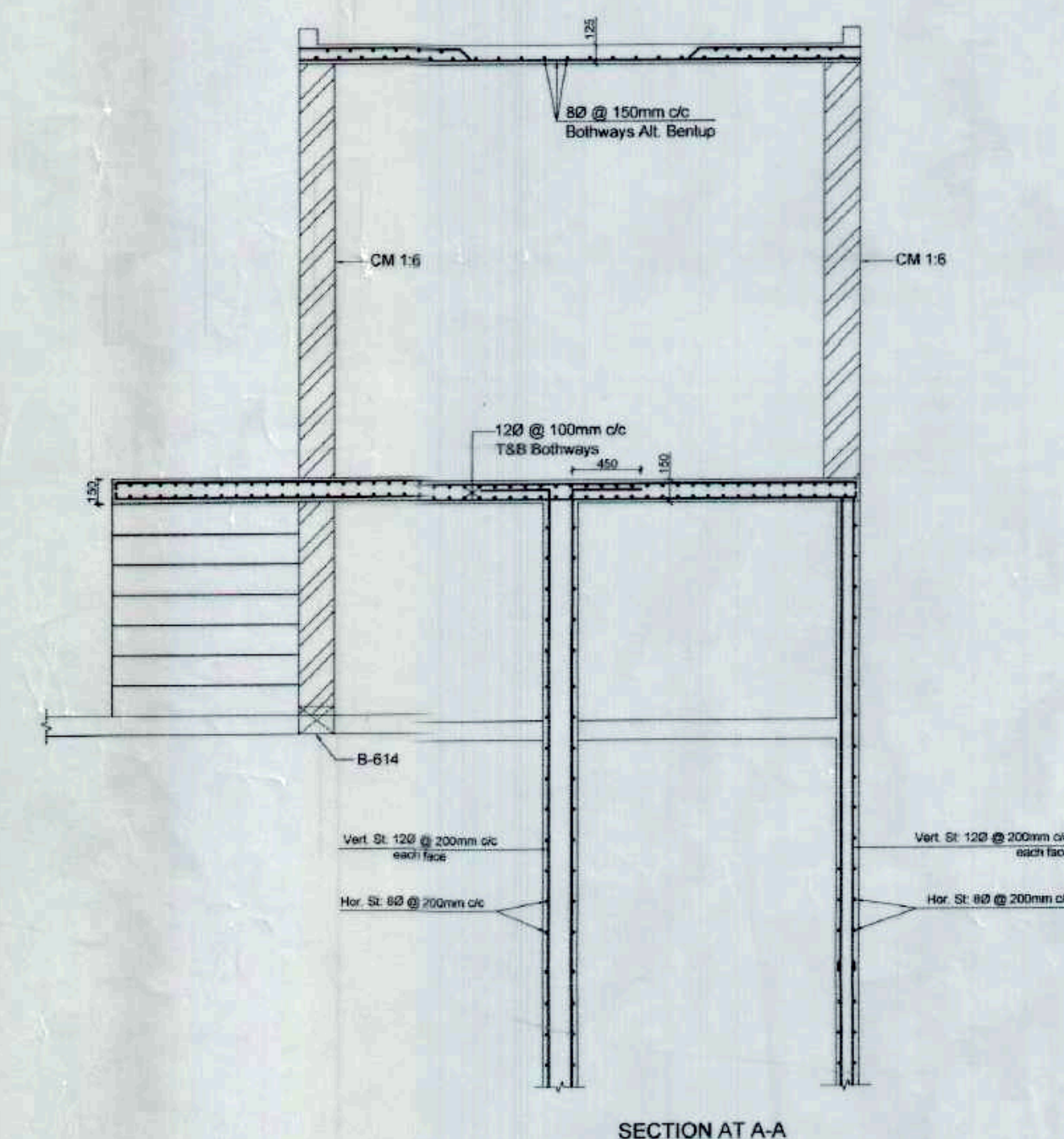
STAIR



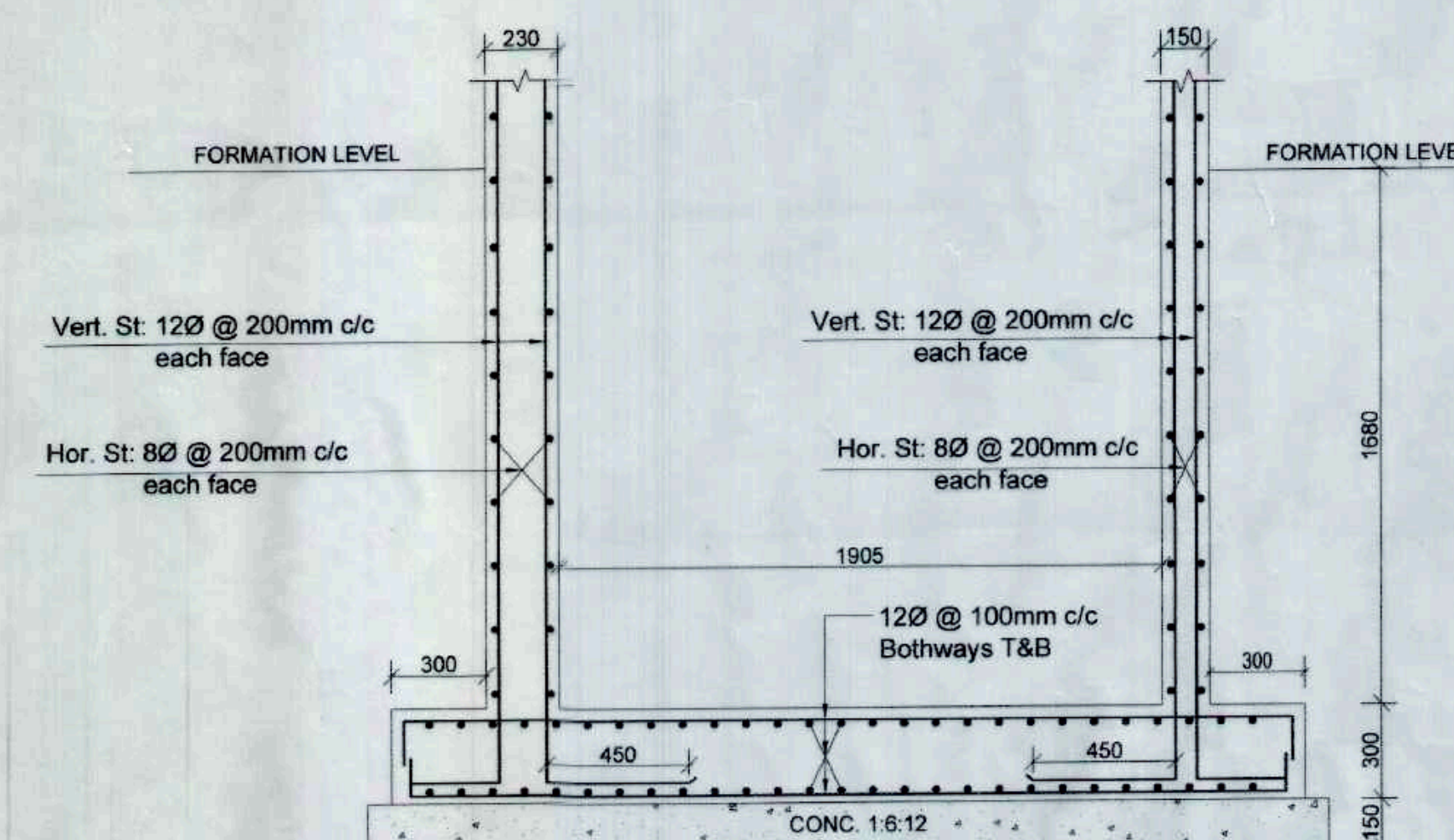
PLATFORM FOR WATER TANKS



STAIR FROM TERRACE SLAB TO MACHINE ROOM FLOOR SLAB



SECTION AT A-A



LIFT SECTION

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
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FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar(mm)	Slab/Beams(mm)	Columns(mm)
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20	950	750
25	1200	950
- CLEAR COVER TO REINF. :-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

CONSULTANTS :

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:-

**CHANDIGARH
HOUSING
BOARD**

PROJECT:-

**HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)**

TWO BED ROOM FLATS (S+5)

REVISION :

S T R U C T U R E

STAIRCASE, PLATFORM FOR WATER TANK,
LIFT SECTION,
STAIRCASE FROM TERRACE SLAB TO MACHINE ROOM
SLAB, SECTION AT A-A

STRUCTURAL CONSULTANT : Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY : JAGMEET SINGH

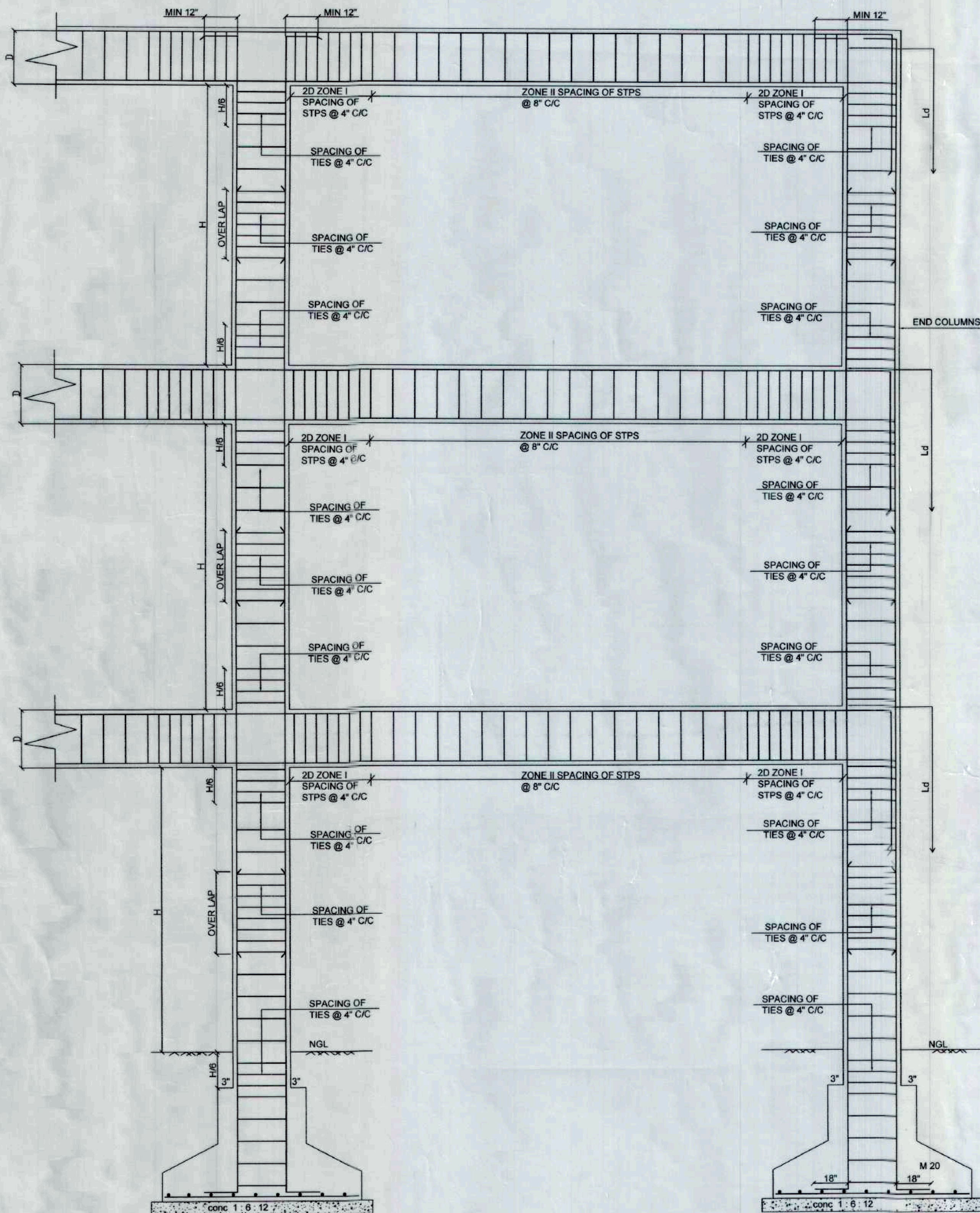
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DATE : 30-06-09

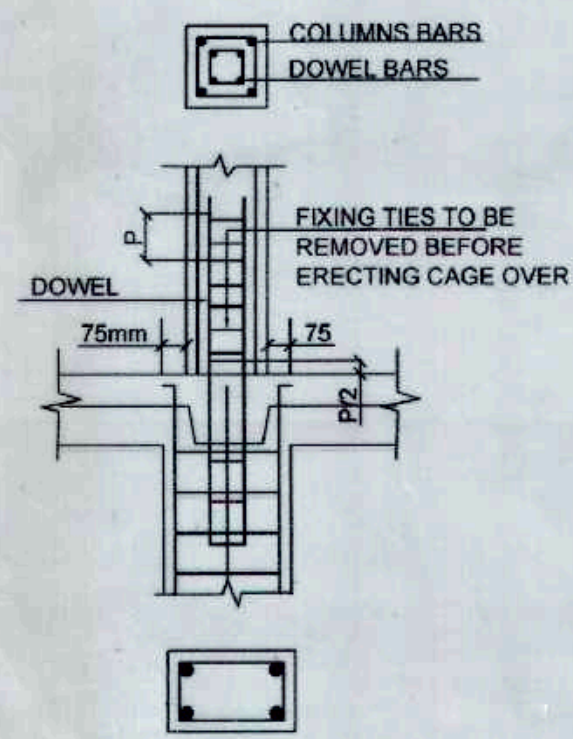
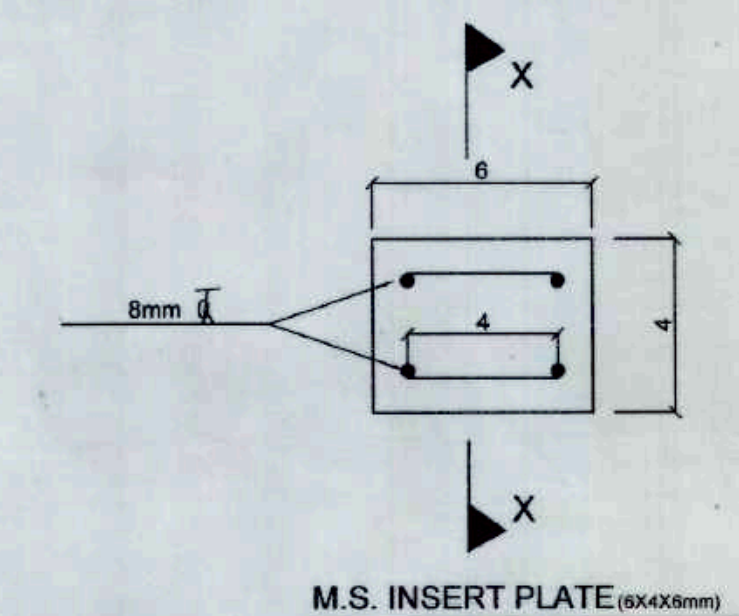
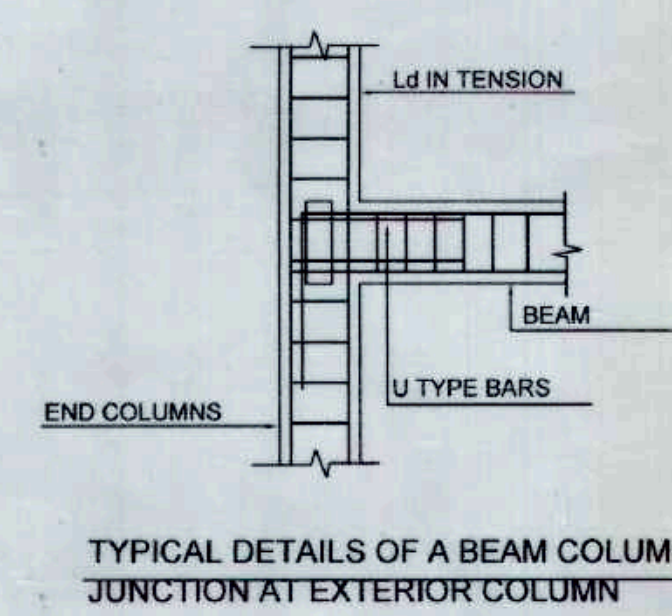
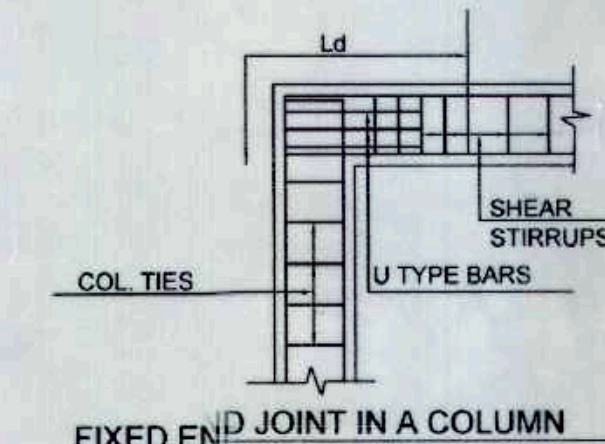
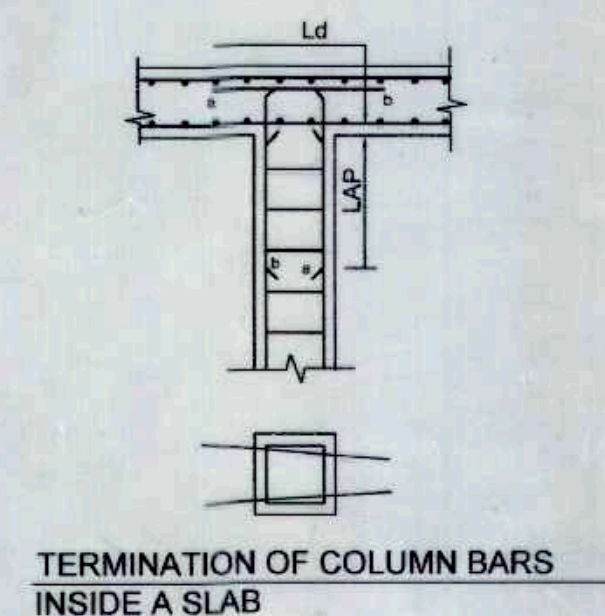
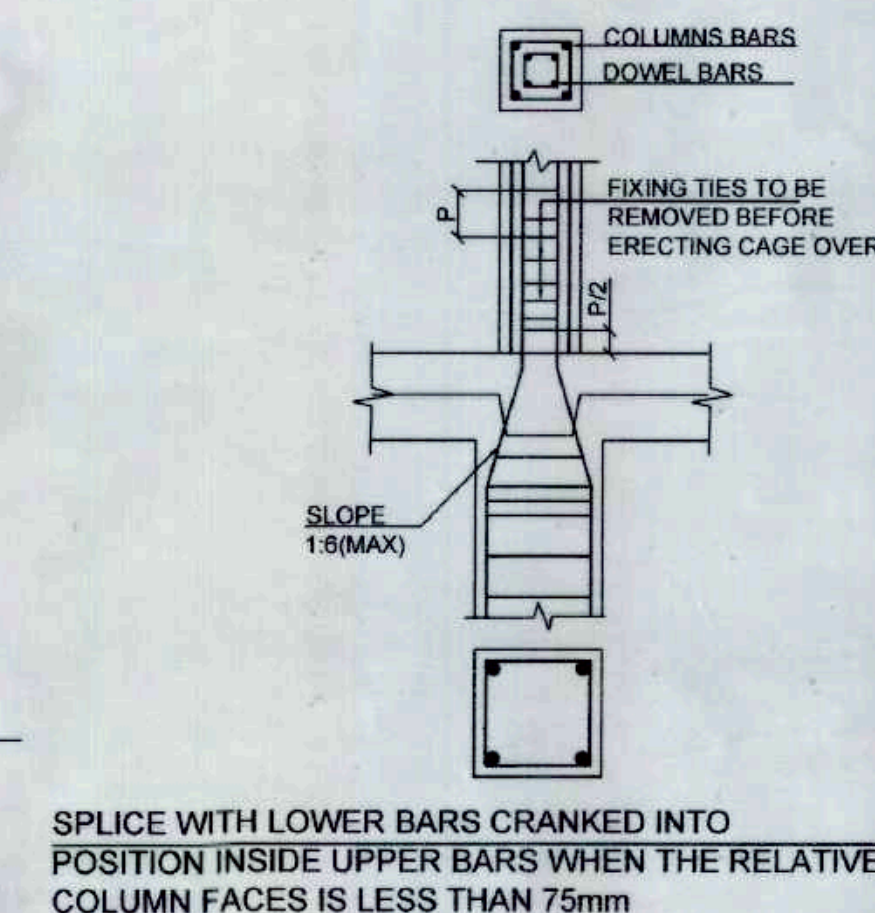
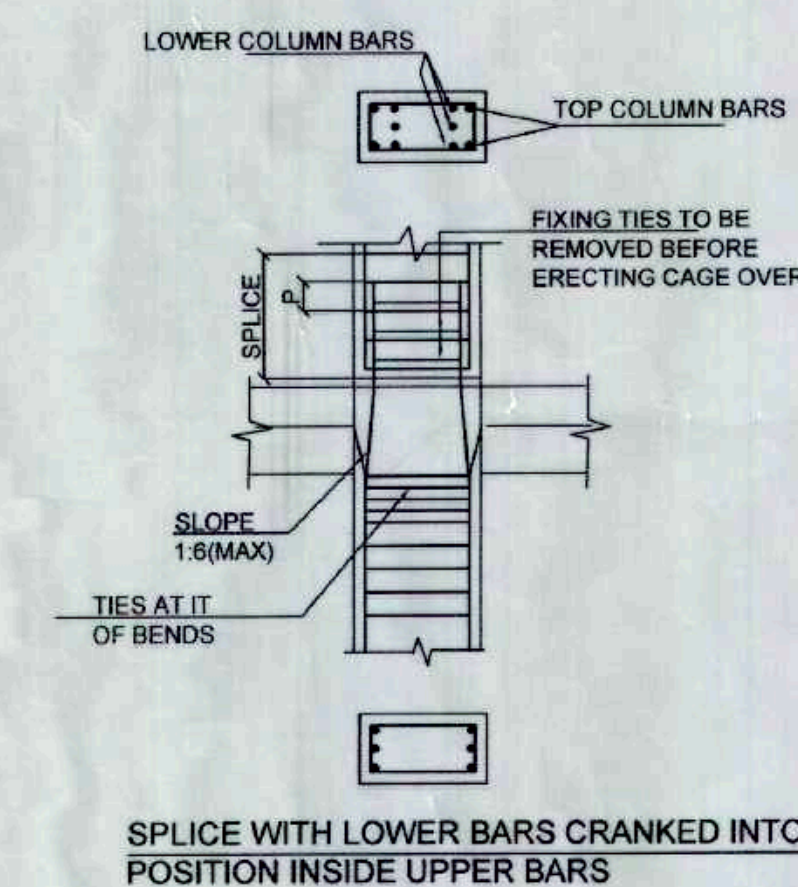
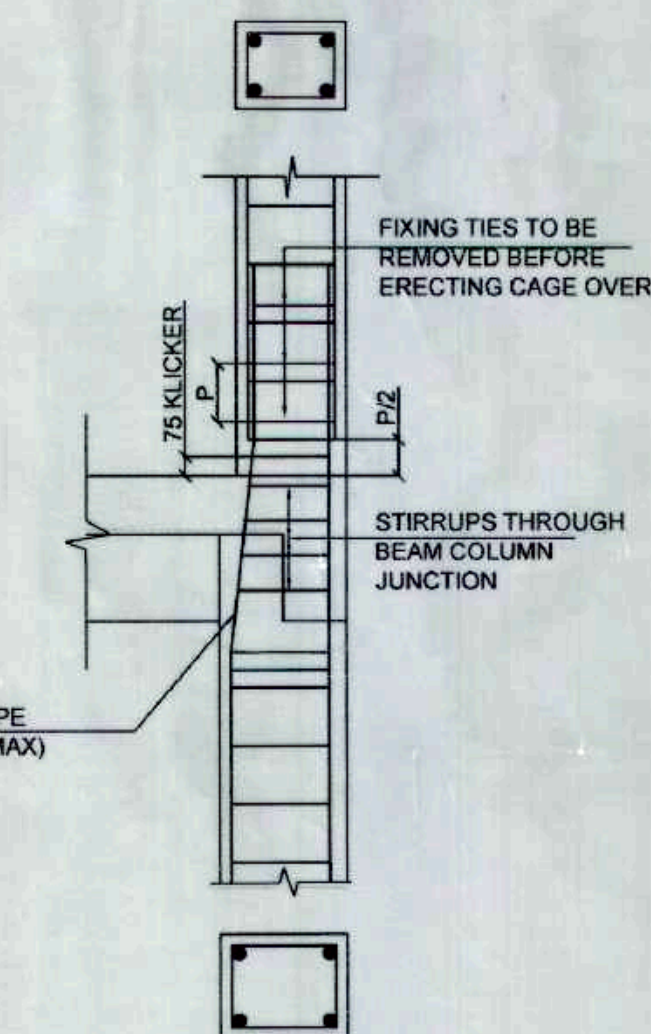
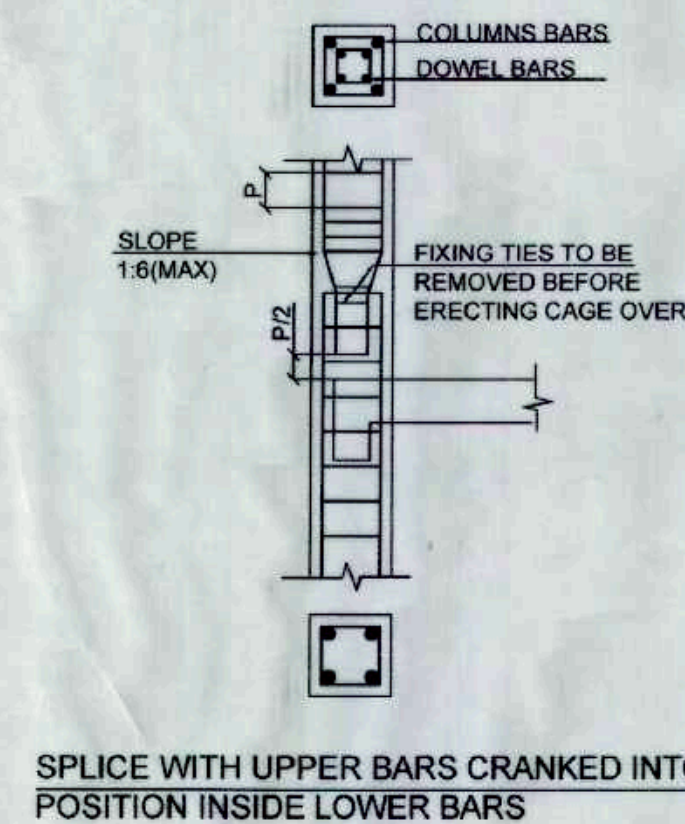
DRG. NO. : S-12

DRG. NO. 16,

JOB No. 139



TYPICAL BEAM COLUMNS DETAIL



NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415, REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH :-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar (mm)	Slab/Beams (mm)	Columns (mm)
8	400	300
10	500	400
12	600	450
16	750	600
20	950	750
25	1200	950
- CLEAR COVER TO REINF.:-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M25
- NET SAFE BEARING CAPACITY OF SOIL = 13.6 T/m²

CONSULTANTS:
SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:
CHANDIGARH HOUSING BOARD

PROJECT:
HOUSING SCHEME FOR SECTOR-63,
CHANDIGARH. (SIX STOREY)

TWO BED ROOM FLATS (S+5)

REVISION:

S T R U C T U R E

SPLICING DETAIL

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY: JAGMEET SINGH

SCALE: N.T.S.

DATE: 30-06-09

DRG. NO.: S-11

DRG. No. 17, JOB No. 139