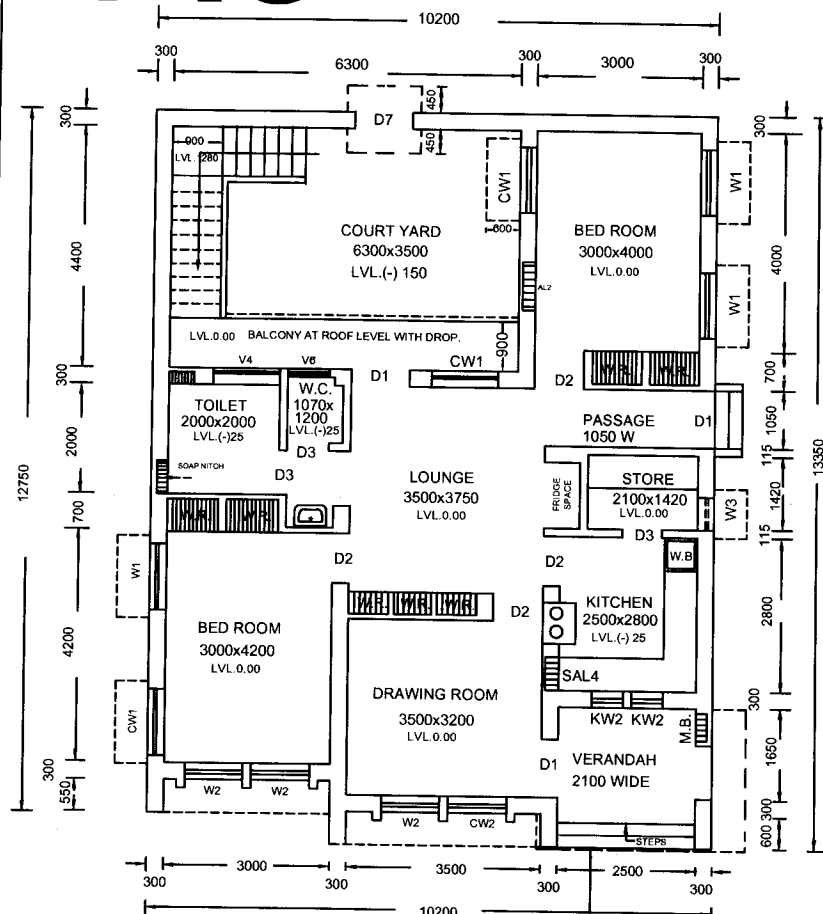


# R3

TYPE R-3 (DRG.2003)



GROUND FLOOR PLAN

**NOTES:-**

1. THIS DRAWING SUPERSEDES THE EARLIER DRG.NO.387/2K1 DT.7.5.2001
2. NO DIMENSION SHALL BE MEASURED FROM THE DRAWING.
3. ALL DIMENSION ARE IN MILIMETERS.
4. FOUNDATION SECTION SHAL BE PROPERLY DESIGNED & APPROVED BY S.E. CIVIL AFTER CONDUCTING SOIL INVESTIGATION.
5. PLINTH LEVEL OF THE BUILDING SHALL BE DECIDED BY SE(CIVIL).
6. CEILING HEIGHT OF BUILDING SHALL BE 3000MM.
7. PARAPET HEIGHT 900 MM
8. LINTEL HEIGHT 2000 MM
9. KITCHEN WINDOW HEIGHT1050 MM.(900 OPENABLE+150 FIXED)
10. TREAD & RISE NOT TO BE COUNTED FROM DRAWING.
11. ALL STEEL SECTION SHALL BE PAINTED WITH RED-OXIDE BEFORE FIXING.
12. WORK SHALL BE CARRIED OUT AS PER SPECIFIED GUIDE LINES & RELEVANT IS CODES.
13. ROOF OF W.C. TO BE KEPT SUNK BY 380MM.
14. IN CASE OF ANY DISCREPANCY IN THE DRAWING OR DIFFICULTY AT SITE, THIS OFFICE MUST BE REFERRED IMMEDIATELY PRIOR TO EXECUTION OF WORK.

**JOINERY SCHEDULE**

**1-DOOR**

- D1 1050X2000 SINGLE LEAF ASSAM TEAK
- D2 900X2000 " " " "
- D3 750X2000 " " " "
- D7 1200X2000 DOUBLE LEAF STEEL

**2-WINDOW**

- W1 1200X1200 STEEL
- W2 900X1200 STEEL
- W3 700X1200 STEEL
- CW1 1200X1200 STEEL(COOLER WINDOW)
- CW2 900X1200 STEEL(COOLER WINDOW)
- KW2 600X1050 STEEL.

**3-VENT**

- V4 1200X450 STEEL
- V6 750X450 STEEL

**4-ALMIRAH**

- AL2 900X1900
- SAL4 600X1200

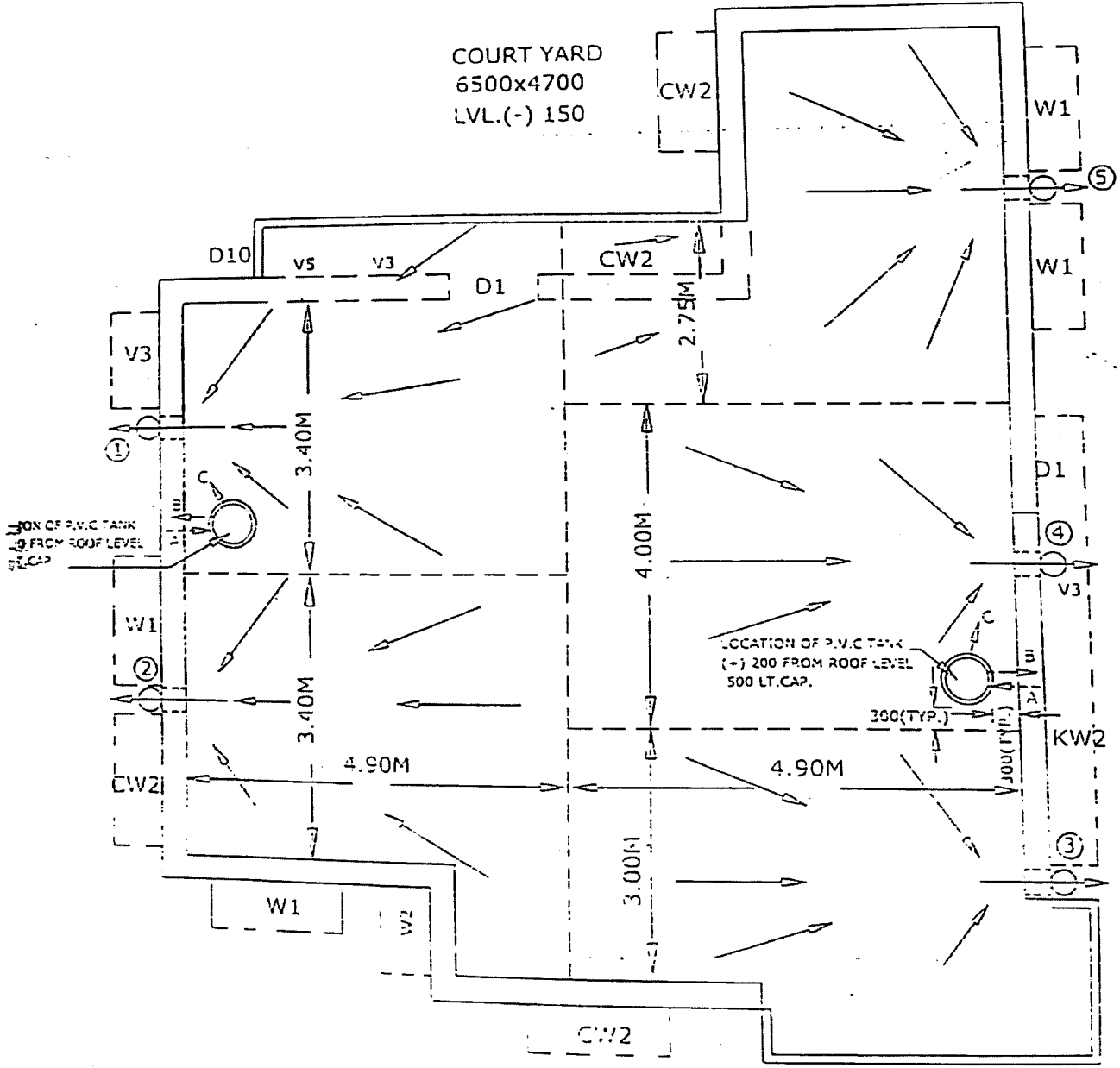
**Chief Engineer (Civil)**  
**R.R.V.P.N.L., JAIPUR**

OFFICE OF THE CHIEF ENGINEER (CIVIL)  
R.R.V.P.N.LTD.,JAIPUR.

PLAN OF R-3 TYPE QTR.(TYPE DESIGN) 2003

DRAWN BY:-		CHECKED BY:-	DRG.NO. 494/2K3
(O.P.PAREEK) D/MAN-II		AEN(C-DESIGN)	SCALE:- N.T.S.
			DATE:- 28.5.2003
SUBMITTED BY:-		RECOMENDED BY:-	APPROVED BY:-
XEN(C-DESIGN)		T.A. TO C.E.(CIVIL)	.CHIEF ENGINEER(CIVIL)

# REVISED ROOF DRAINAGE SYSTEM FOR R-3 TYPE QTR.(DRG.2001)



## NOTE:-

1. THIS IS AN INDICATIVE DRAWING OF ROOF DRAINAGE.
2. A.C.DOWNTAKE PIPE SHALL BE PROVIDED.
3. MINIMUM SLOPE TO BE PROVIDED 1:60.

## INDEX:-

- A- INLET G.I. PIPE
- B- OUT LET G.I. PIPE.
- C- OVER FLOW/WASHOUT

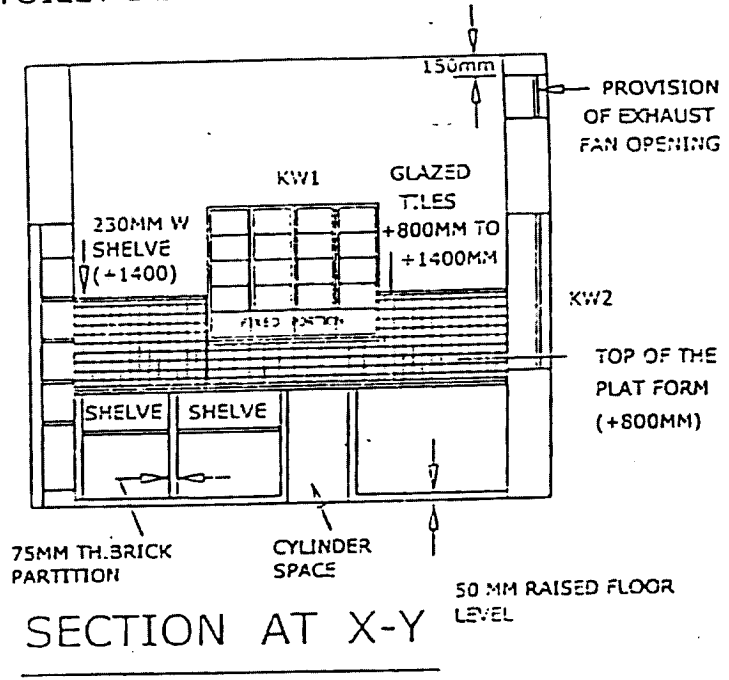
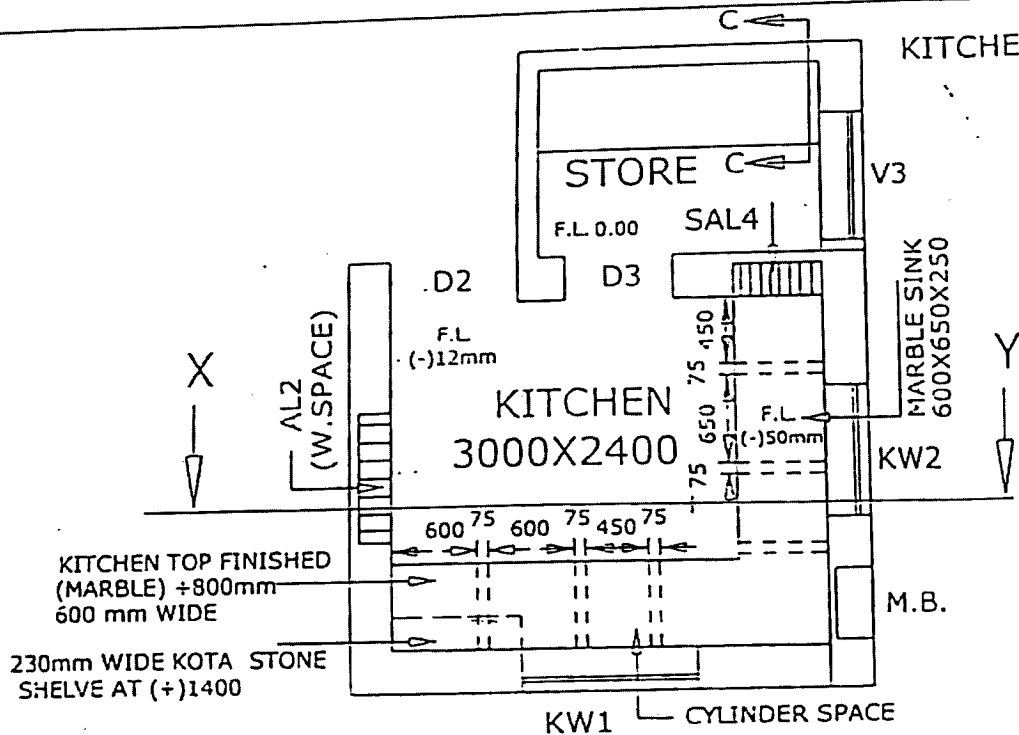
**Chief Engineer (Civil)**  
**C.M.P.N.L., JAIPUR**

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 R.R.V.P.N.LTD.,JAIPUR

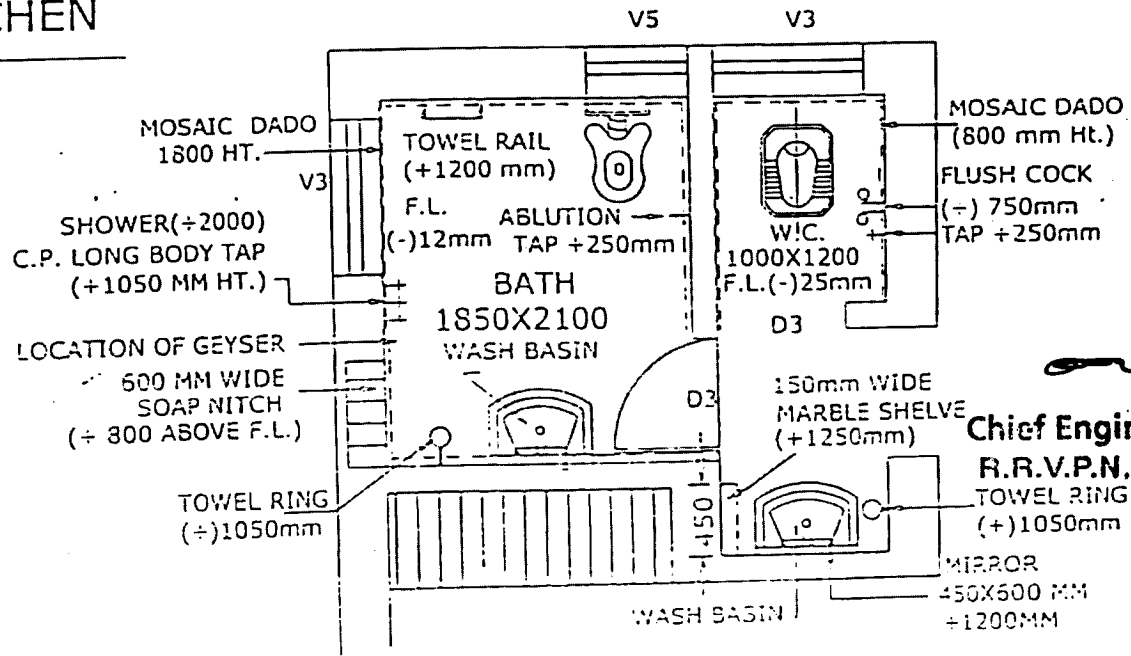
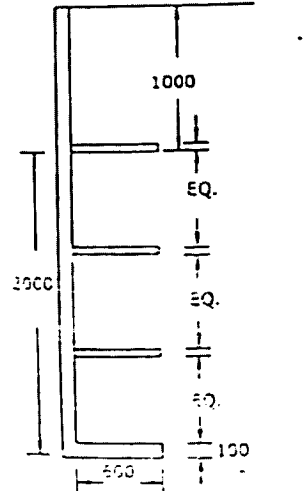
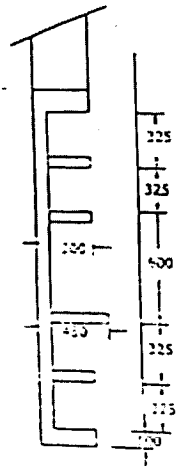
ROOF DRAINAGE SYSTEM FOR R-3 TYPE QTR.

DRAWN BY:- <i>[Signature]</i> (O.P.PAREEK) D/MAN-II	CHECKED BY:- <i>[Signature]</i> AEN(C-DESIGN)	DRG.NO. 297/25 SCALE:- N.T.S. DATE:- 11-5-25
SUBMITTED BY <i>[Signature]</i>	RECOMMENDED BY	APPROVED BY

KITCHEN & TOILET DETAILS FOR R-3 TYPE QTR.(2001)



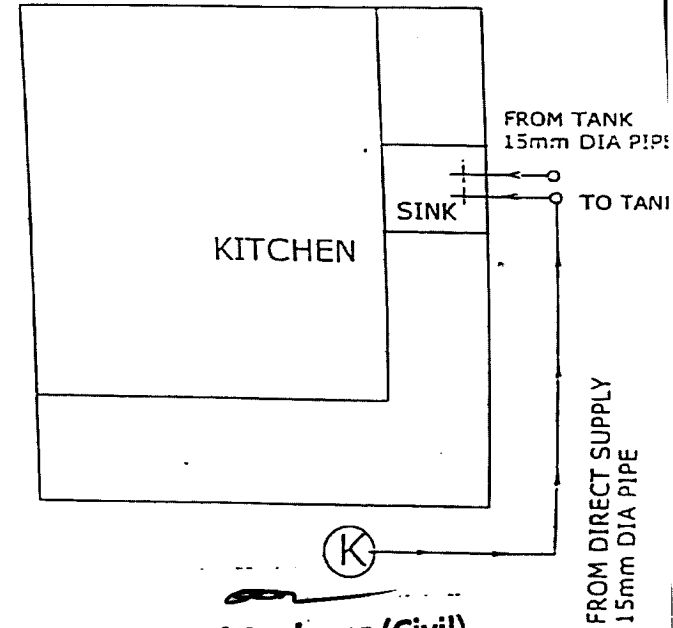
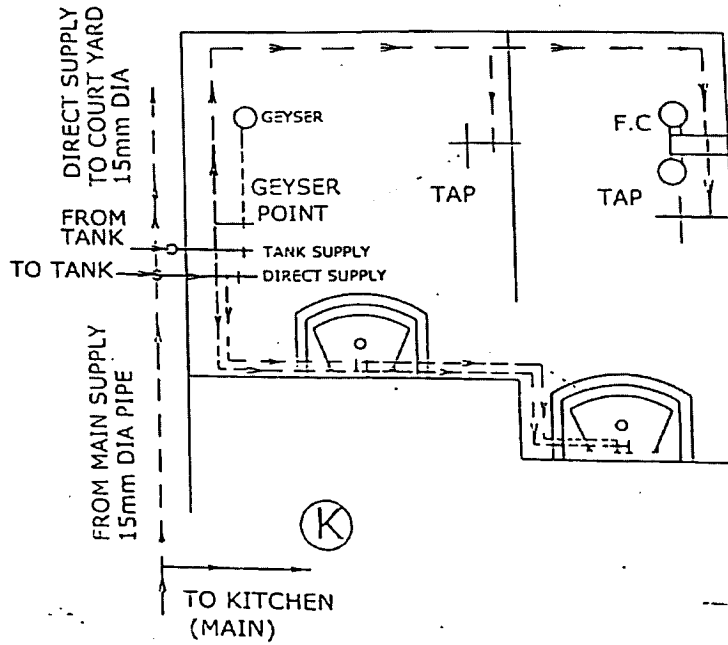
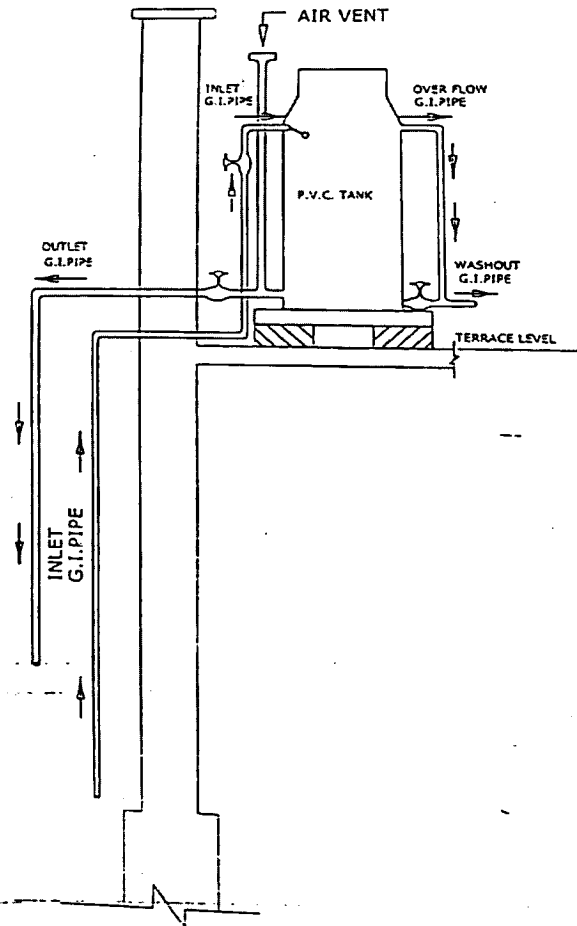
DETAILS OF KITCHEN



Chief Engineer (Civil)  
R.R.V.P.N.L., JAIPUR

Scanned by CamScanner

# DETAILS OF WATER SUPPLY SYSTEM FOR R-3 TYPE QTR.(2001)



**Chief Engineer (Civil)**  
R.R.V.P.N.L., JAIPUR

OFFICE OF THE ADDL. CHIEF ENGINEER (CIVIL)  
R.R.V.P.N.LTD., JAIPUR

WATER SUPPLY SYSTEM FOR R-3 TYPE QTR.(2001)

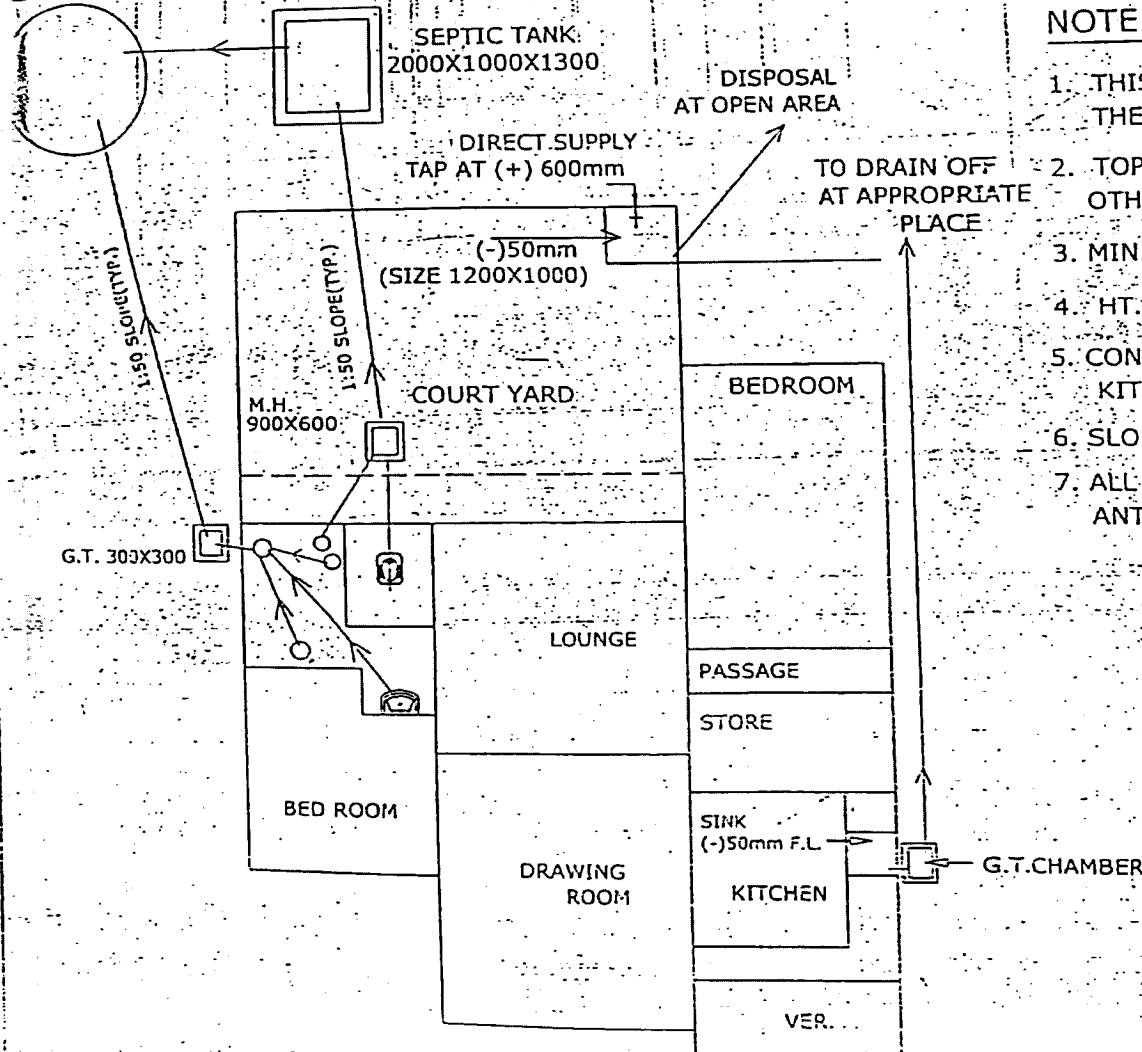
DRAWN BY:-  (J.P. PAREEK) D/MAN-II	CHECKED BY:-  A.E.N.C. (DESIGN)	DRG. NO. 405 / 2-1 SCALE:- N.T.S DATE:- 11-6-2001
SUBMITTED BY: 	RECOMMENDED BY: 	APPROVED BY:- 

**PLACEMENT DETAIL**  
**OF P.V.C. TANK (TYP.)**

# DETAILS OF EXTERNAL SANITARY SYSTEM OF R-3 TYPE QTR.(2001)

SHEET-2/2

SOAKAGE WELL  
300mm DIA &  
900 mm DEEP



## NOTE:-

1. THIS IS AN INDICATIVE DRAWING, IF ANY CHANGE IS REQUIRED THE SAME SHALL BE REFERRED TO THIS OFFICE.
2. TOP LEVEL OF MANHOLE, SEPTIC TANK, SOAKAGE WELL AND OTHER CHAMBERS SHALL BE 100mm ABOVE THE FINISHED G.L.
3. MIN. SLOPE FOR S.W. & A.C. PIPE LINE SHALL BE 1:50
4. HT. OF COWEL SHALL BE 1750mm ABOVE THE TERRACE LEVEL
5. CONCEALED G.I. PIPE SHALL BE PROVIDED ON INNER SIDE OF KITCHEN AND TOILET ALONG THE WALLS AS FAR AS POSSIBLE.
6. SLOPE IN TOILET FLOOR SHALL BE 1:60 TOWARDS FLOOR TRAP.
7. ALL MANHOLE COVERS AND FRAMES SHALL BE PAINTED WITH ANTIACIDIC PAINT.

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R.R.V.P.N.LTD. JAIPUR

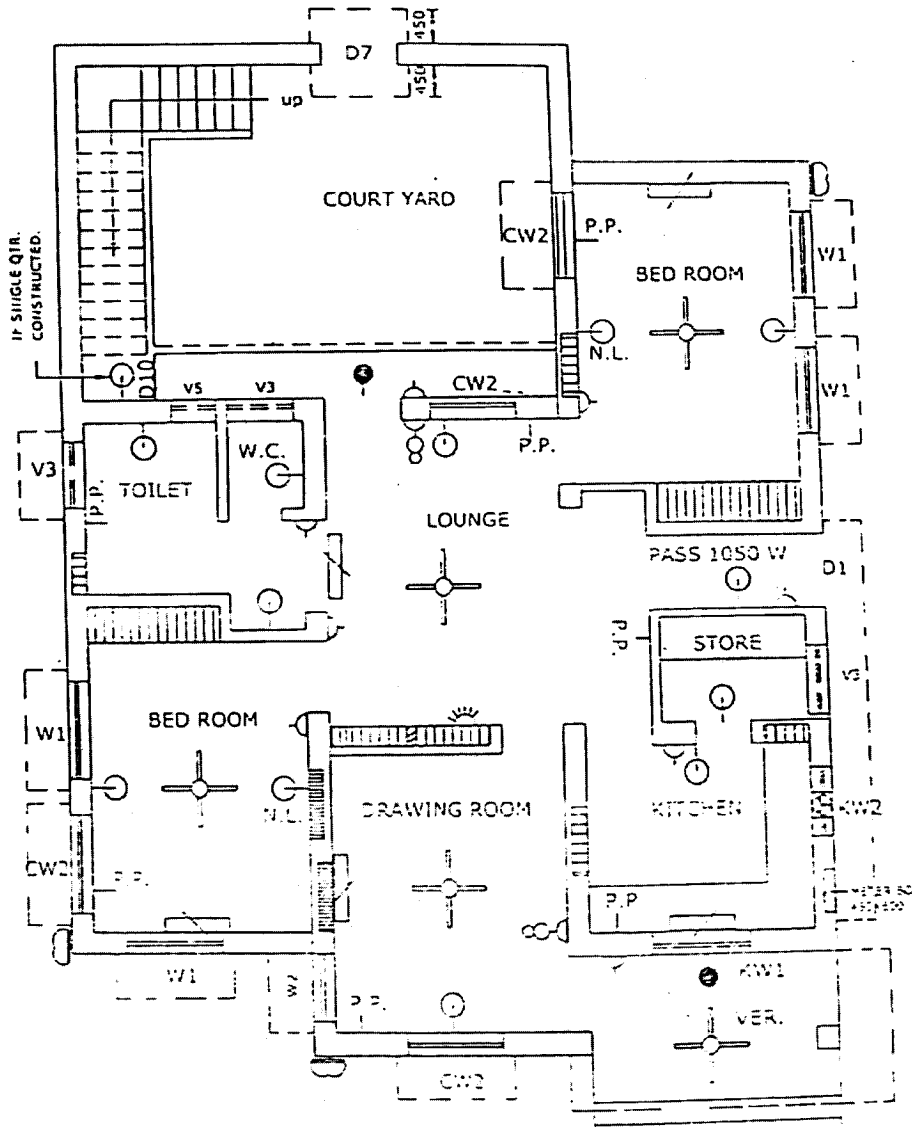
OFFICE OF THE ADDL. CHIEF ENGINEER (CIVIL)  
R.R.V.P.N.LTD. JAIPUR.

KIT. & SANITARY DETAILS OF R-3 TYPE QTR. (TYPE DESIGN 2001)

DRAWN BY:- <i>(Signature)</i> (O.P. PAREEK) D/MAN-12	CHECKED BY:- <i>(Signature)</i> AEN(C-DESIGN)	DRG. NO. 393, 2/F/1 SCALE:- N.T.S. DATE:- 11-6-2011
SUBMITTED BY:- <i>(Signature)</i>	RECOMMENDED BY:- <i>(Signature)</i>	APPROVED BY:- <i>(Signature)</i>

# ELECTRIFICATION OF R-3 TYPE QTR. (DRG.2001)

65



1. LIGHT POINT	⊙
2. TWO WAY LIGHT POINT	⊙
3. FAN POINT	⊕
4. TUBE LIGHT POINT	⊖
5. BULK HEAD FITTING	D
6. SWITCH BOARD	D
7. TWO WAY POINT ON BOARD	∞
8. POWER POINT	P.P.
9. CEILING FITTING	○
10. EXHAUST FAN	⊗
11. BELL POINT	⊗

BOTTOM LEVEL OF SWITCH BOARD	1200mm
BOTTOM LEVEL OF POWER POINT IN ROOMS	1200mm
LEVEL OF POWER POINT IN TOILET	1300mm
LEVEL OF POWER POINT IN KITCHEN ABOVE PLATE FORM	450mm

NOTE:- (I) ACCESSORIES SHALL BE PROVIDED AS PER APPROVED MAKE/GUIDE LINES.

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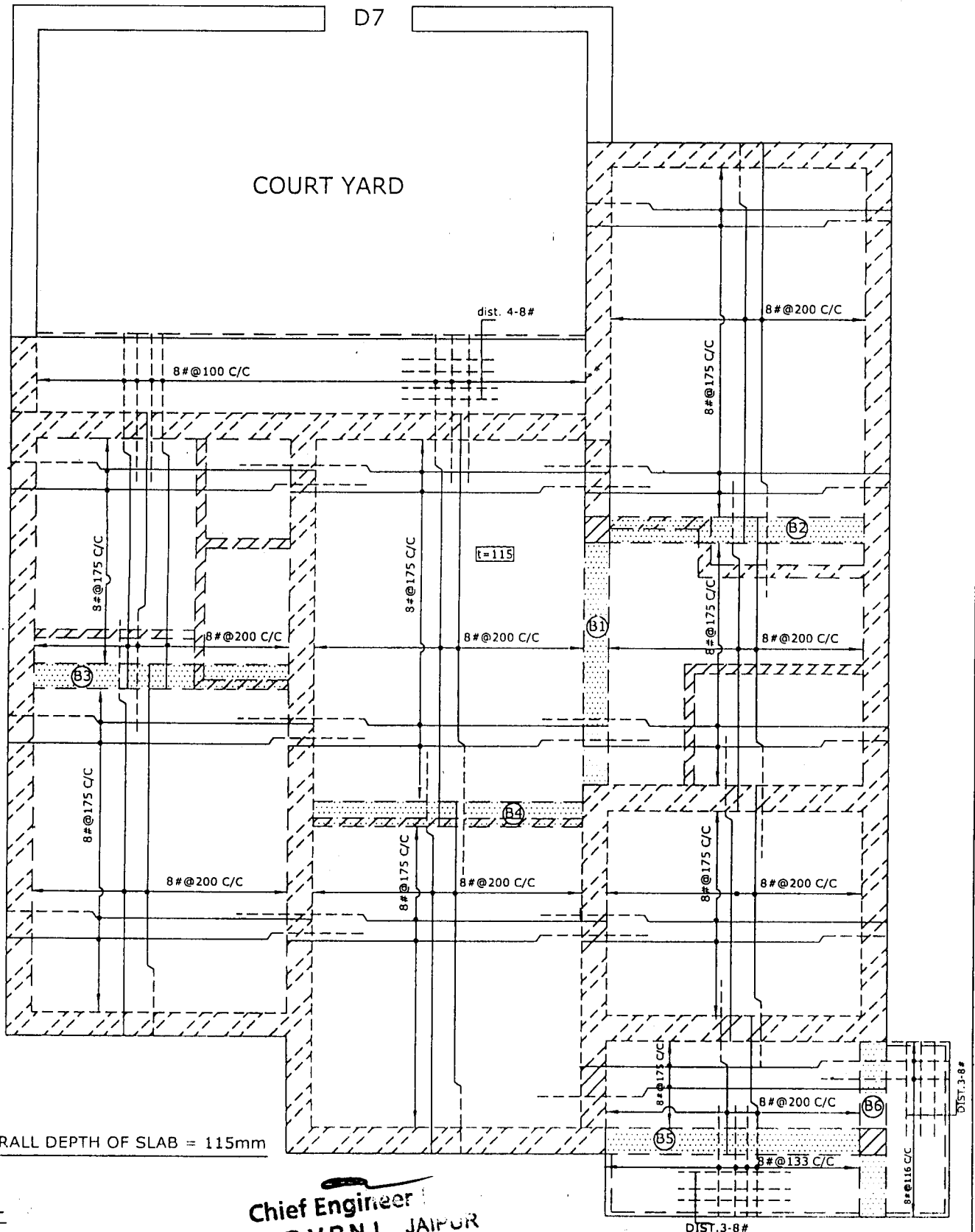
OFFICE OF THE ADDL. CHIEF ENGINEER (CIVIL)  
R.R.V.P.N.L.TD. JAIPUR.

ELECTRIFICATION OF R-3 TYPE QTR. (TYPE DESIGN 0001)

DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	DRG NO. 421/KS
FOR PARENT DESIGN	FOR DESIGN	SCALE: 1:25
SUBMITTED BY: <i>[Signature]</i>	RECOMMENDED BY: <i>[Signature]</i>	DATE: 1/5/2001
		APPROVED BY: <i>[Signature]</i>

# SLAB REINFORCEMENT DETAIL FOR R-3 TYPE QTR.

SHEET OF 1/4



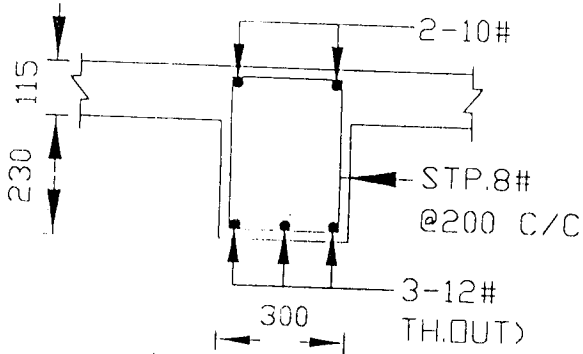
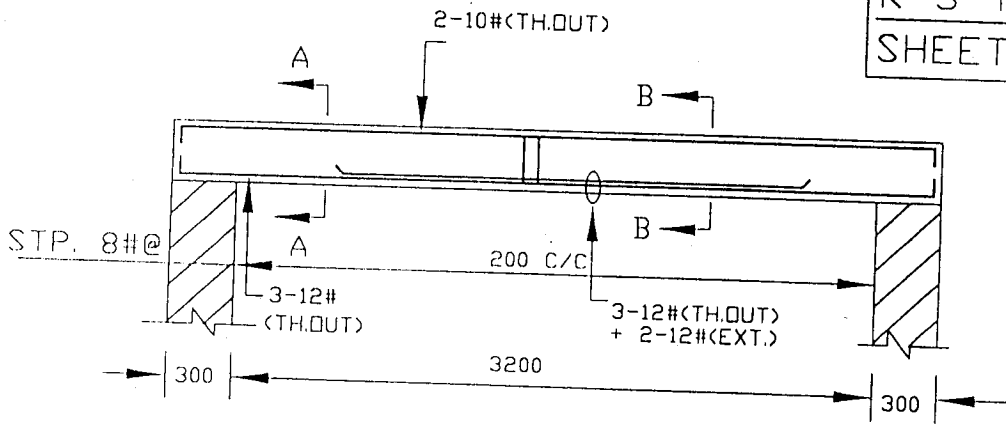
NOTE:-

PARDI WALL TO BE KEPT BELOW THE ROOF DURING CASTING OF R.C.C. SLAB, ONLY AFTER REMOVING OF SHUTTERING IT SHOULD BE ERECTED UP TO ROOF.

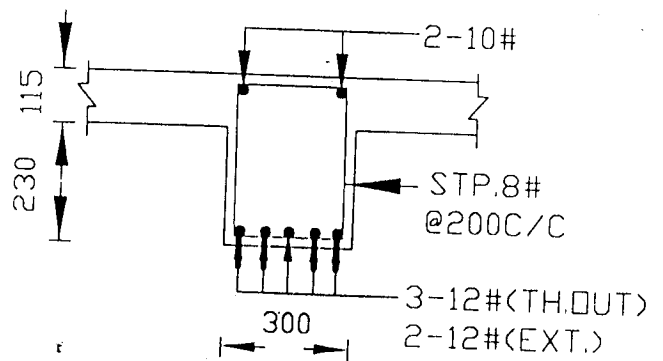
Chief Engineer  
B.B.V.P.N.L. JAIPUR

BEAM-B4

R-3 TYPE QTR.  
SHEET 3 OF 4

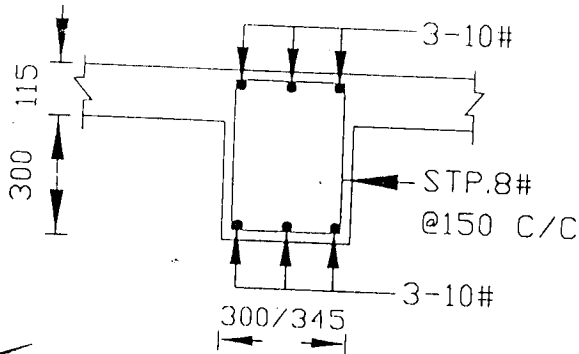
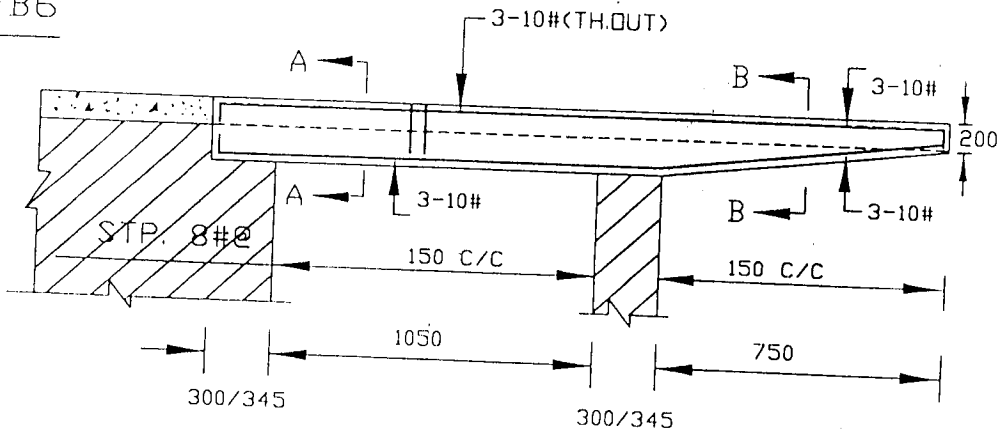


SECTION AT A-A

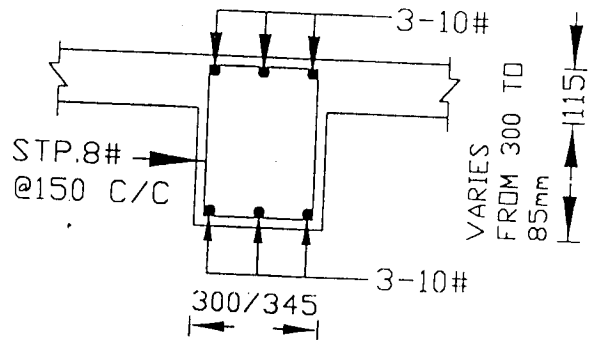


SECTION AT B-B

BEAM-B6



SECTION AT A-A



SECTION AT B-B

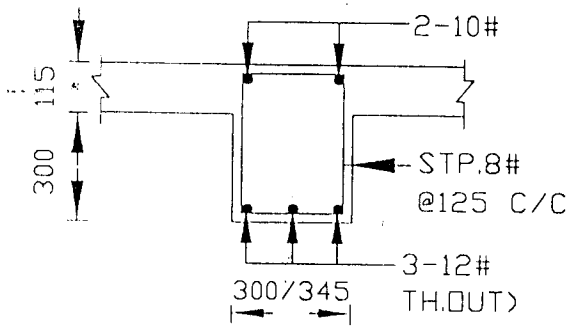
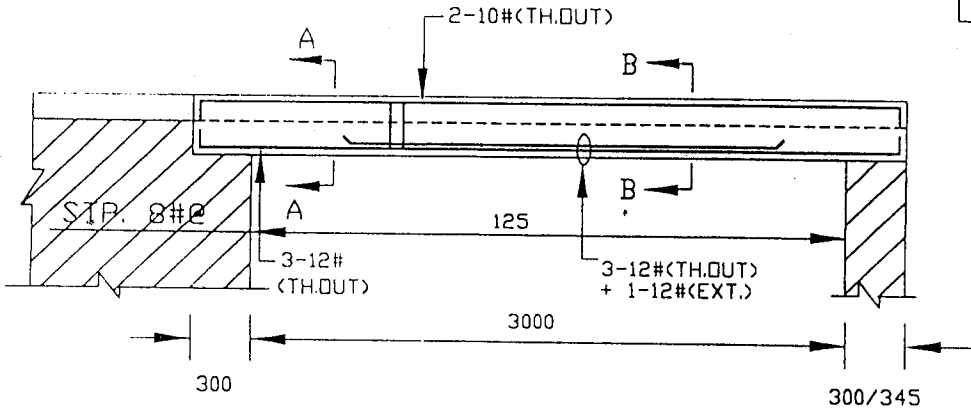
Chief Engineer (Civil)  
R.R.V.P.N.L., JAIPUR



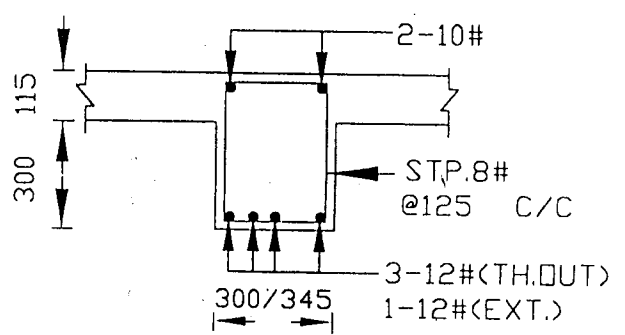
BEAM-B5

R-3 TYPE QTR.

SHEET 2 OF 4

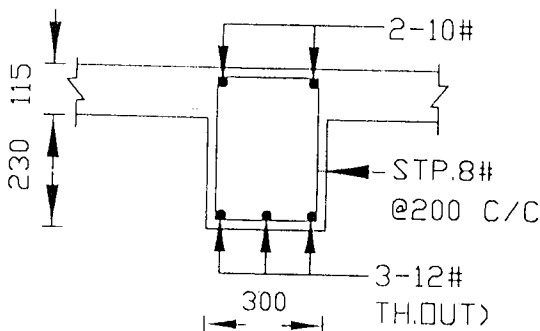
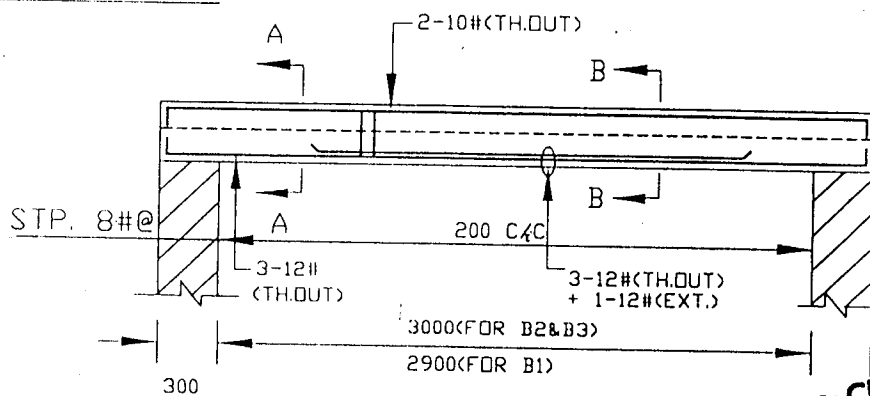


SECTION AT A-A

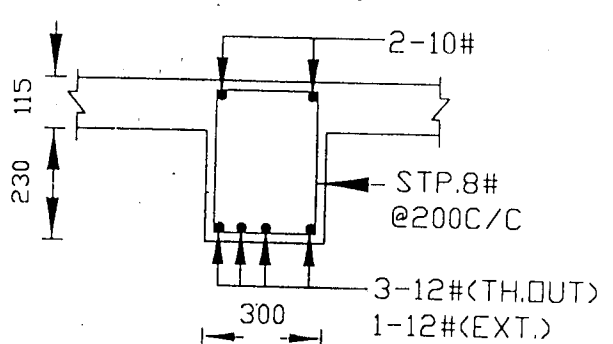


SECTION AT B-B

BEAM-B1, B2, B3



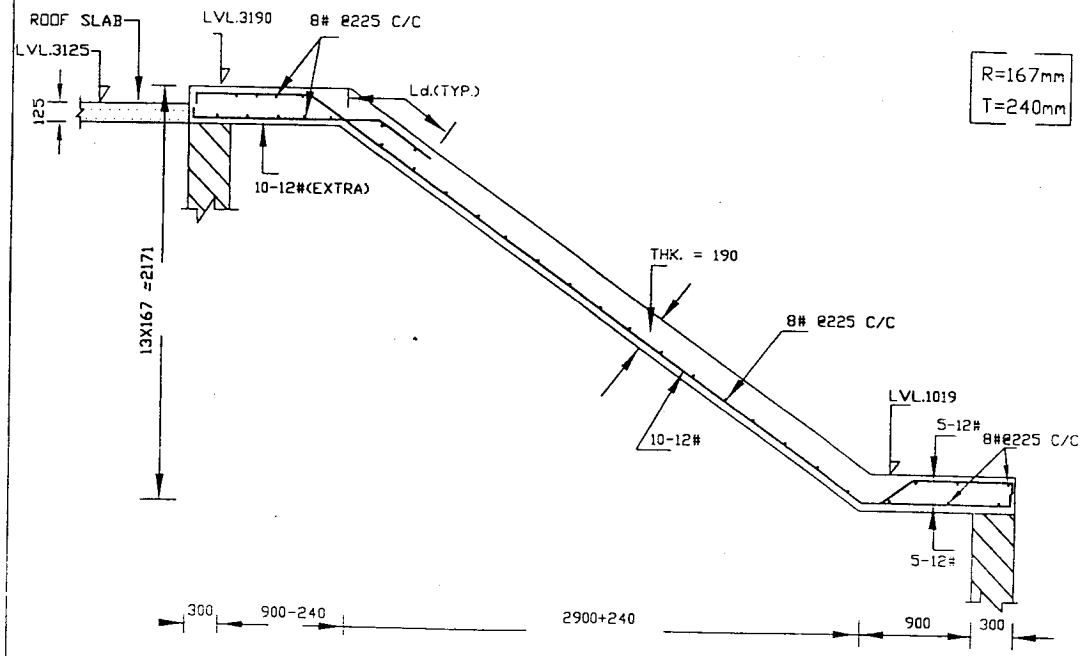
SECTION AT A-A



SECTION AT B-B

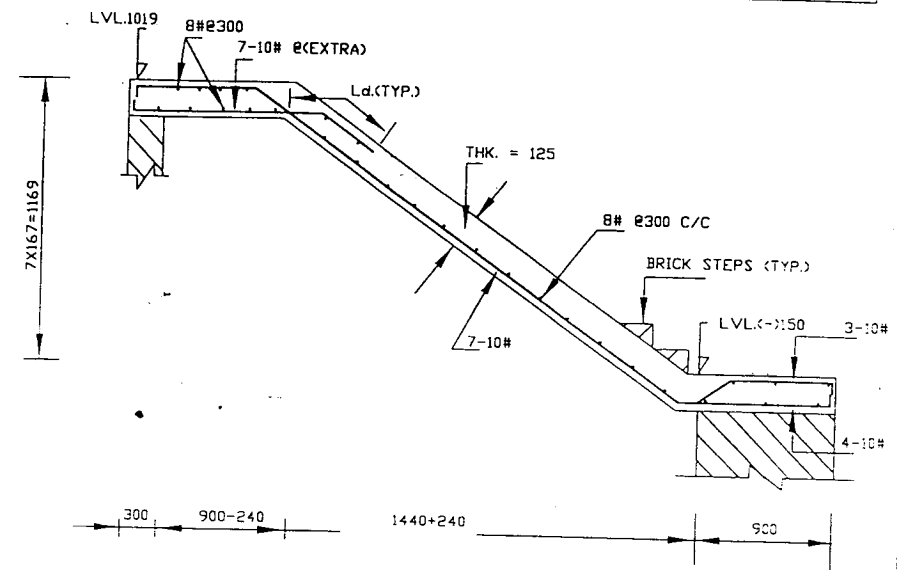
Chief Engineer (Civil)  
R.R.V.P.N.L., JAIPUR.

R-3 QTR.  
SHEET 4 OF 4



R=167mm  
T=240mm

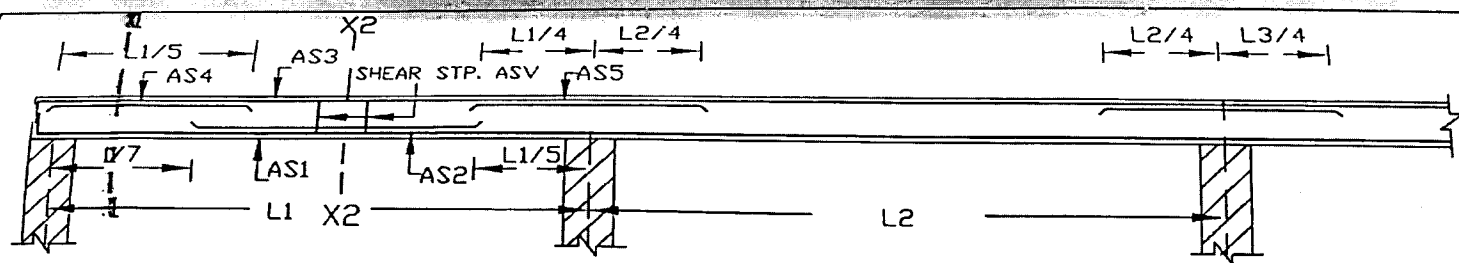
2nd FLIGHT  
R=13  
T=12



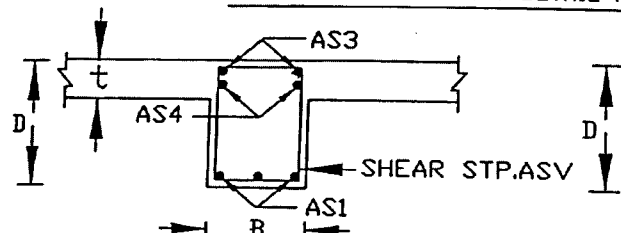
R=7  
T=6

1st FLIGHT

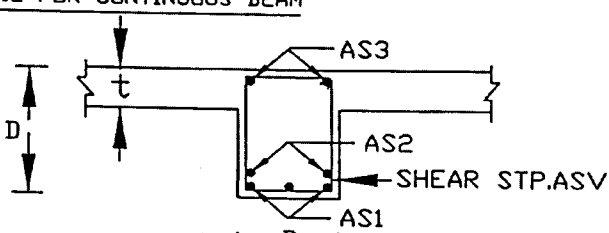
Chief Engineer (Civil)  
B.R.V.P.N.L., JAIPUR



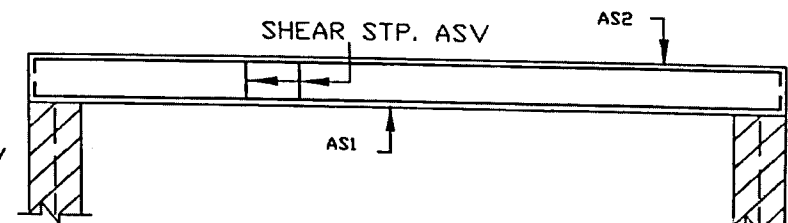
TYPICAL REINFORCEMENT DETAIL FOR CONTINUOUS BEAM



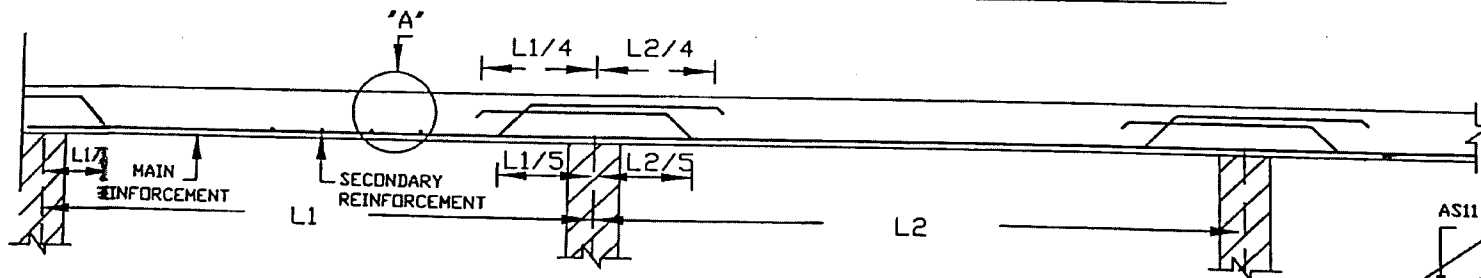
SECTIONAL DETAIL OF BEAM AT X1-X1



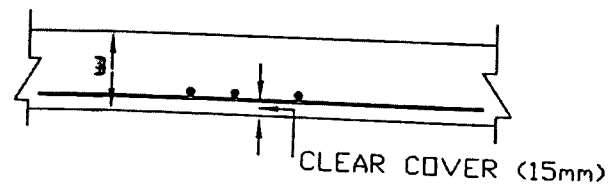
SECTIONAL DETAIL OF BEAM AT X2-X2



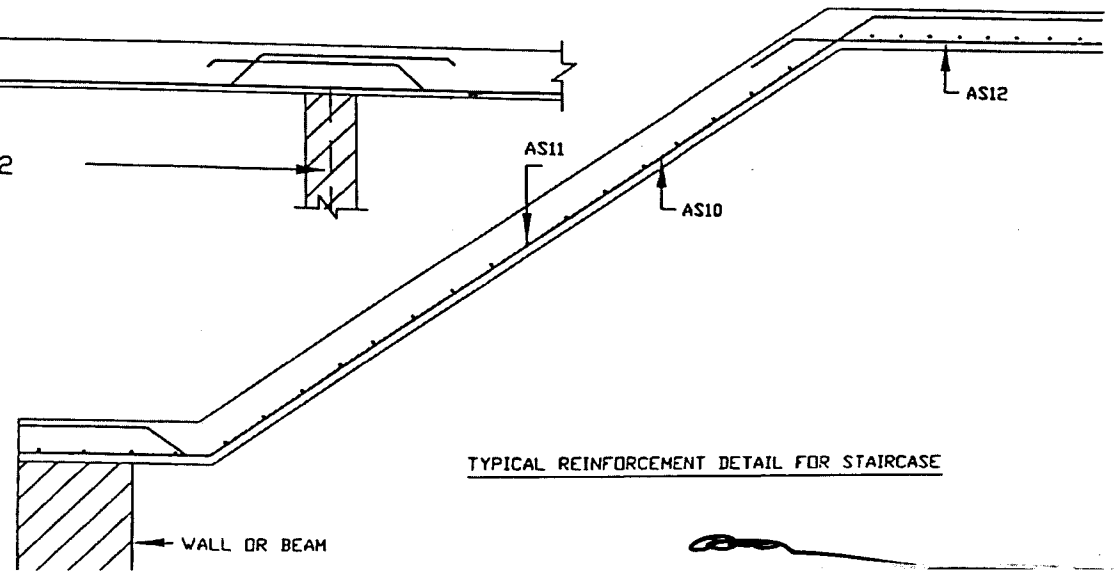
TYPICAL REINFORCEMENT DETAIL FOR SINGLE SPAN BEAM



TYPICAL REINFORCEMENT DETAIL FOR SLAB

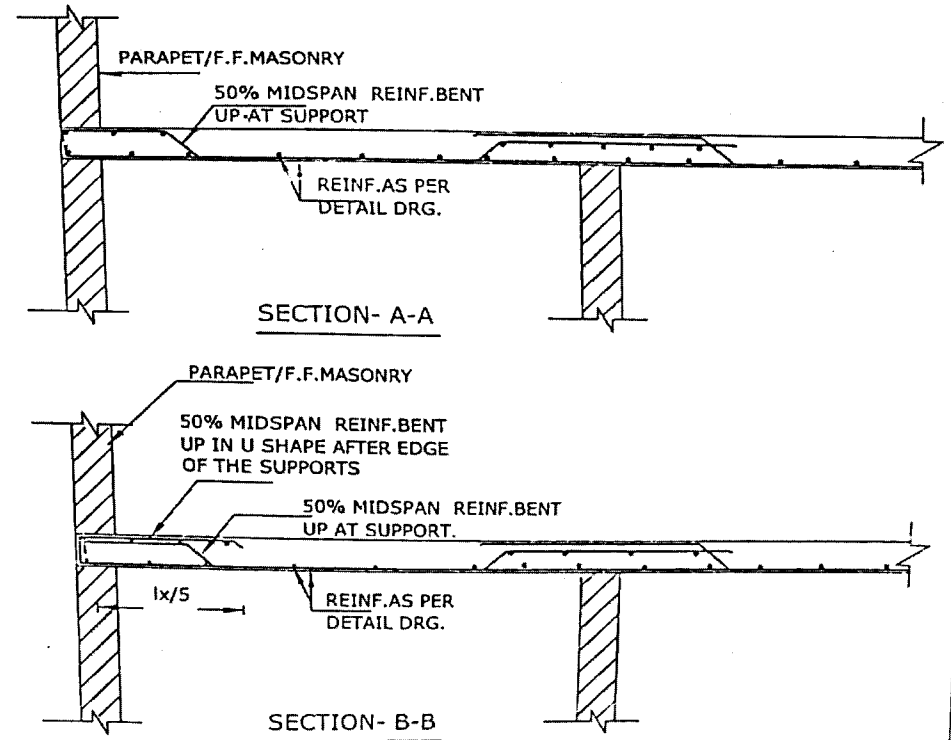
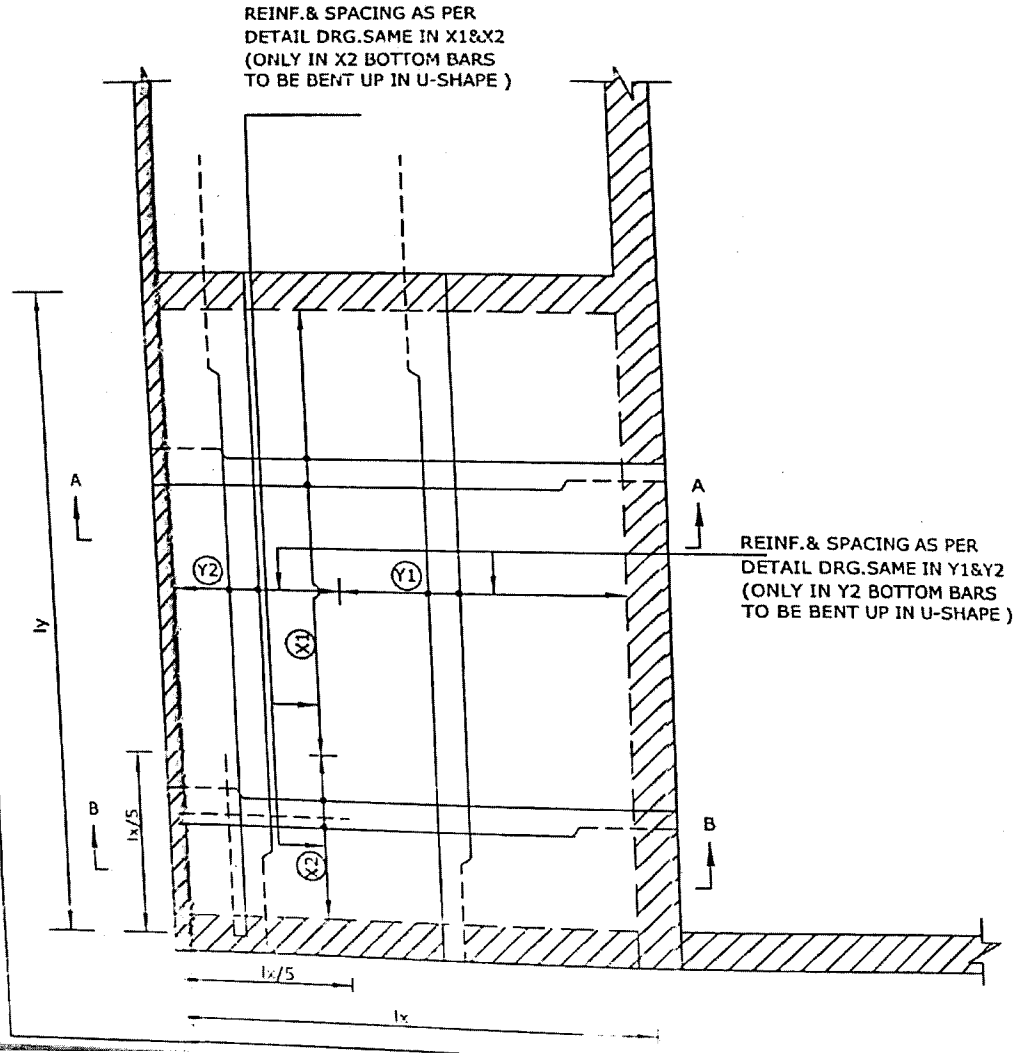


TYP. VIEW 'A' OF SLAB



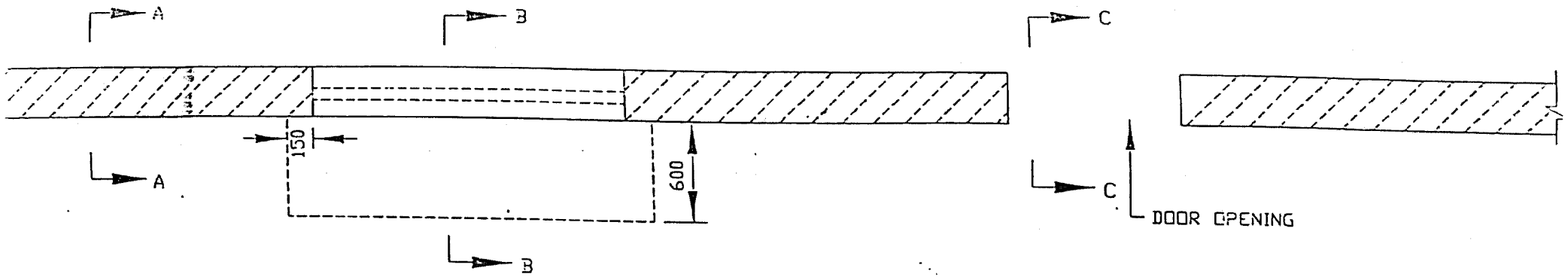
TYPICAL REINFORCEMENT DETAIL FOR STAIRCASE

**TYPICAL CORNER REINF. FOR SLAB (R2 TO R-5 TYPE QTR.)**  
 (ASSUMING CORNERS ARE HELD DOWN/PREVENTED FROM LIFTING UP)

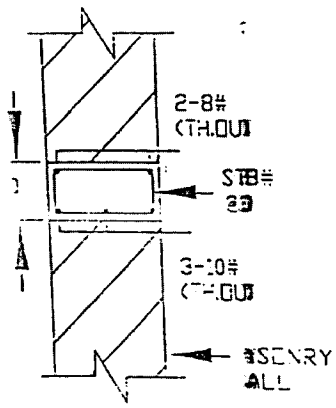


**Chief Engineer (Civil)**  
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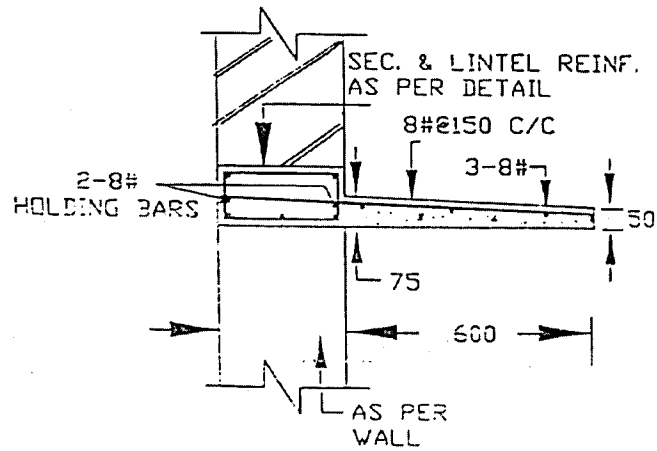
# TYPICAL LINTEL DETAILS



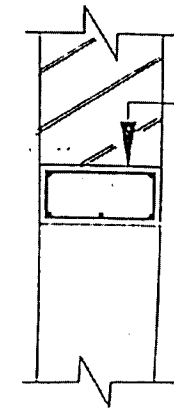
## TYP. MASONRY PLAN



SEC.-A-A



SEC.-B-B



SEC.-C-C

*R.R.V.P.N.L.*  
**Chief Engineer (Civil)**  
**R.R.V.P.N.L., JAIPUR**

**DESIGN STATEMENT OF LINTELS**  
**(1) RESIDENTIAL BUILDINGS**

LOCATION WITH EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	REINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
For Chajja b=300 (A) (Lintel provided with chajja.)	1.	1.80 M	2.10 M	20 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	8 mm # @ 300 mm. C/C (2 L)	Arch.action not possible for all span upto 1.05 M.
	2.	1.50 M	1.80 M	15 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	-do-	
	3.	1.20 M	1.50 M	15 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	
	4.	1.05 M	1.35 M	15 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	
	5.	0.90 M	1.20 M	15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	Min.as per ring beam
	6.	0.60 M	0.90 M	15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	Min.as per ring beam
	7.	RING BEAM		15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	For all locations.

LOCATION WITH EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	REINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
For Chajja b=300 (B) (Lintel provided with chajja.)	1.	1.80 M	2.10 M	20 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	8 mm # @ 300 mm. C/C (2L)	Arch.action not possible for all span upto 1.05 M.
	2.	1.50 M	1.80 M	15 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	-do-	
	3.	1.20 M	1.50 M	15 Cm.	10 mm.# 4 Nos.	8 mm # 2 Nos.	-do-	
	4.	1.05 M	1.35 M	15 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	
	5.	0.90 M	1.20 M	15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	Min.as per ring beam
	6.	0.60 M	0.90 M	15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	-do-	Min.as per ring beam
	7.	RING BEAM		15 cm.	10 mm.# 3 Nos.	8 mm # 2 Nos.	8 mm # @ 300 mm. C/C (2 L)	For all locations.

R.C.D Details of Chajja:- Width = 600 mm. . thickness at support = 75 mm  
thickness at free end = 50 mm.

Main reinforcement 8 mm # @ 150mm C/C(Top)  
with development length embedded in lintel.  
Temp and shrinkage reinforcement 8mm # (3 Nos.)

**Chief Engineer (Civil)**  
**R.P.V.P.N.L., JAIPUR**

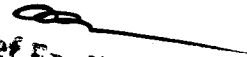
**DESIGN STATEMENT OF LINTELS**  
**(2) CONTROL ROOM BUILDING(FRAMED)**

LOCATION WITH EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	RAEINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
A) Hall portion b=300mm(Details for both condition with chajja & without chajja.)	1.	2.40 M	2.70 M	25 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	8mm # @ 300mm C/C (2L)	Framed structure(details same for lintels with Chajja or without chajja)
	2.	1.80 M	2.10 M	20 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	3.	1.20 M	1.50 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	4.	RING BEAM		15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
B) Administrative block. b=300 mm (Details for both condition with chajja and without chajja)	1.	2.40 M	2.70 M	25 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	8mm # @ 300mm C/C (2L)	Framed structure(details same for lintels with Chajja or without chajja)
	2.	1.80 M	2.10 M	20 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	3.	1.50 M	1.80 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	4.	1.20 M	1.50 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	5.	RING BEAM		15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-

R.C.C. Details of Chajja:- Width = 600 mm. . thickness at support = 75 mm  
thickness at free end = 50 mm.

Main reinforcement 8 mm # @ 150mm C/C(Top)  
with development length embedded in lintel.

Temp and shrinkage reinforcement 8mm# (3Nos.)

  
 Chief Engineer (Civil)  
 B.A.V.P.R.L.