

**GROUND FLOOR PLAN**

Radial Distance More Than 50 Km From Coast line

Seismic Zone II, Grade of Concrete : M25, Steel Grade : Fe500

**SCHEDULE OF OPENINGS :**

MAIN DOOR (D)	= 1.20 X 2.10
DOOR (D1)	= 1.05 X 2.10
WINDOW (W)	= 1.20 X 1.20
VENTILATOR (V)	= 0.45 X 0.30

//APPROVED//  
Sd/-

Chief Engineer, PR - II  
Vijaywada.

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Dr. R. Srinivasulu Reddy  
Executive Engineer, PR (Designs)  
29/04/20

Name of work :  
PROVIDING ADDITIONAL ACCOMMODATION FOR  
AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS  
(VILLAGE INPUT SHOPS, VILLAGE KNOWLEDGE CENTER)

Dwg. Title : GROUND FLOOR PLAN

Dwg. No : PR/RBK/Z/II/M25/SD/JAR/01

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.

**NOTES:**

- DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS ARE IN MM ONLY AND LEVELS ARE IN METERS UNLESS SPECIFIED.
- S.B.C OF SOIL IS CONSIDERED AS 100/100/200000 KN/M<sup>2</sup> AT A DEPTH OF        M. AS RECOMMENDED AND SHOULD ENSURE THE SBC AT ALL FOOTINGS BEFORE EXECUTION.
- USE VIBRATED REINFORCED CONCRETE CONFIRMING TO IS : 456-2000. THE GRADES FOR DIFFERENT COMPONENTS ARE AS FOLLOWS

Component	Footing	Pedestal & Column	Beams	Slabs
Mix	M25	M25	M25	M25

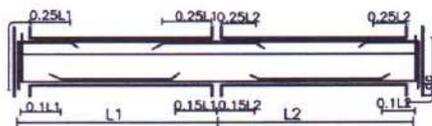
- GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.  
\* IT SHOULD BE ENSURED THAT THE ABOVE STEEL IS PRODUCED BY THERMOMECHANICAL TREATMENT PROCESS, HAVING ELONGATION MORE THAN 14.5% AND CONFIRMING TO IS 1786-85 & ITS AMENDMENTS
- CONCRETE LAID IN THE FORM WORK SHALL INVARIABLY VIBRATED TO OBTAIN MAX. DENSITY AND COMPACTION.
- PROVISIONS MADE IN IS 456-2000, AND SP 34 AND OTHER RELEVANT CODES SHOULD BE STRICTLY ADHERED TO, DURING EXECUTION.
- LAPS SHALL BE STAGGERED AND LAP LENGTHS ARE AS FOLLOWS.

Mix	M25
Ld	48 Dia/Tension/ 38 Dia/Compression

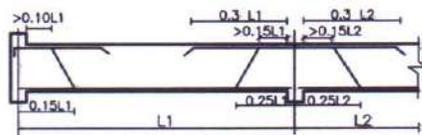
- NOT MORE THAN 50% OF COLUMN REINFORCEMENT SHALL BE LAPPED AT A PARTICULAR LOCATION.
- CLEAR COVERS ARE AS FOLLOWS

FOOTING TO MAIN BAR	PEDESTAL TO STIRRUPS	COLUMN TO STIRRUPS	BEAMS TO STIRRUPS	SLABS & STAIR CASE TO MAIN BAR
50mm	40mm	40mm	25mm	20mm

- ANY LOOSE OR PROTRUDING BOULDERS SHALL BE REMOVED BEFORE LAYING FOUNDATION CONCRETE AND SHALL BE FILLED WITH PCC (1:4:8).
- WHEREVER NECESSARY DRILLING SHALL BE RESORTED TO, IN HARD SHEET ROCK ONLY.
- STIRRUPS SHOULD HAVE STANDARD HOOK AS PER SP-34
- EXTRA BARS AT TOP FOR BEAM SHALL BE EXTENDED UPTO 0.25L ON EITHER SIDE FROM THE FACE OF EDGE MEASURED FROM CENTER OF SUPPORT. WHERE 'L' IS c/c OF SUPPORTS. THE CURTAILMENT OF BOTTOM BARS AT 0.1 L FROM DISCONTINUOUS EDGE AND 0.15 L FROM CONTINUOUS EDGE.



TYPICAL DETAILS OF A BEAM

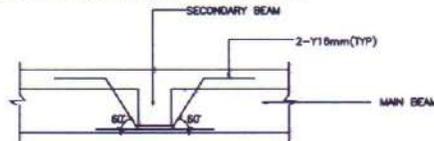


TYPICAL DETAILS OF A SLAB

**IMPORTANT NOTE:**

- THE RESPONSIBILITY FOR FIXING OF F.G.L AND .F.L ARE LIES WITH THE SE/E.S CONCERNED.
- PRIOR PERMISSION FOR ANY DEVIATION AND FINANCIAL IMPLICATIONS HAVE TO BE OBTAINED BEFORE EXECUTION OF WORK.
- BEFORE COMMENCEMENT OF WORK STRUCTURAL DRAWINGS SHALL HAVE TO BE VARIFIED WITH RESPECT TO THE APPROVED ARCHITECTURAL DRAWING.
- ANY ITEM OF WORK FOR WHICH STRUCTURAL DRAWINGS ARE COMMUNICATED BUT ARE NOT INCLUDED IN AGREEMENT PRIOR APPROVAL SHALL BE TAKEN FROM COMPETENT AUTHORITY BEFORE GROUNDING OF SUCH WORK.
- IF ANY VARIATION IS FOUND IN THE FOUNDATION SOIL WITH REFERENCE TO THE SBC AND SPECIFICATIONS OF SOIL IN THE DESIGNS OF FOUNDATIONS, THE SUPERINTENDING ENGINEER IS REQUESTED TO REPORT THE SAME TO THIS OFFICE FOR REVISION OF FOOTING DESIGNS.

- SLAB BARS ARE TO BE CRANKED AT 0.25 L FROM CENTRE OF SUPPORT NEAR CONTINUOUS EDGES AND 0.15 L FROM CENTRE OF SUPPORT NEAR DISCONTINUOUS EDGES.
- IN SLABS EXTRA BARS OVER CONTINUOUS SUPPORT SHOULD BE TAKEN UPTO 0.3L FROM THE FACE OF BEAM. CRANK BARS AT CONTINUOUS SUPPORT SHOULD NOT BE TERMINATED ON BEAM AND SHOULD BE EXTENDED UPTO 0.3L FROM FACE OF SUPPORT INTO THE ADJACENT SPAN.
- DISTRIBUTION STEEL IN SLAB FOR CRANKED BARS AND TOP EXTRA BARS SHALL BE 8 TOR @ 200 C/C
- THE REINFORCEMENT SHALL BE CHECKED BEFORE LAYING CONCRETE.
- WHEREVER, THE SECONDARY BEAM RESTS ON MAIN BEAM THE ARRANGEMENT OF BENT UP HANGER BARS SHALL BE PROVIDED AS GIVEN BELOW:



- IN BEAMS & SLABS, OVERLAPPING SHALL NOT BE PROVIDED OVER SUPPORTS FOR TOP BARS AND AT MID SPAN FOR BOTTOM BARS.
- WHEREVER REINFORCEMENT IS PROVIDED IN TWO LAYERS IN BEAMS SPACER BAR SHALL BE PROVIDED TO MAINTAIN 25MM GAP OR MAXIMUM DIA OF MAIN BAR, WHICH EVER IS MORE, BETWEEN TWO LAYERS.
- WHEN SPAN IS MORE THAN 6.0M PROVIDE A CAMBER OF SPAN/250 FOR BEAMS & SLABS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
- THIS BUILDING IS DESIGNED FOR 0.F+1 STOREYS AND FOR BASIC WIND SPEED 50 m/s AND FOR SEISMIC ZONE -II
- FLOOR TO FLOOR HEIGHT IS CONSIDERED AS 3.00 m
- CURING SHOULD BE DONE AT LEAST FOR 21 DAYS
- STRIPPING TIME OF FORMWORK SHALL CONFORM TO CLAUSE 11.3 OF IS 456-2000

**LEGEND:**

- F.F.L : Finished Floor Level.
- F.G.L : Finished Ground Level
- TOB : Top of beam
- S.F.L : Structural finished Level

APPROVED/

Sd/-

Chief Engineer, PR - II  
Vijayawada.

// TRUE COPY //

*B. Srinivasulu*  
By: Executive Engineer, PR (Design)  
29/04/20

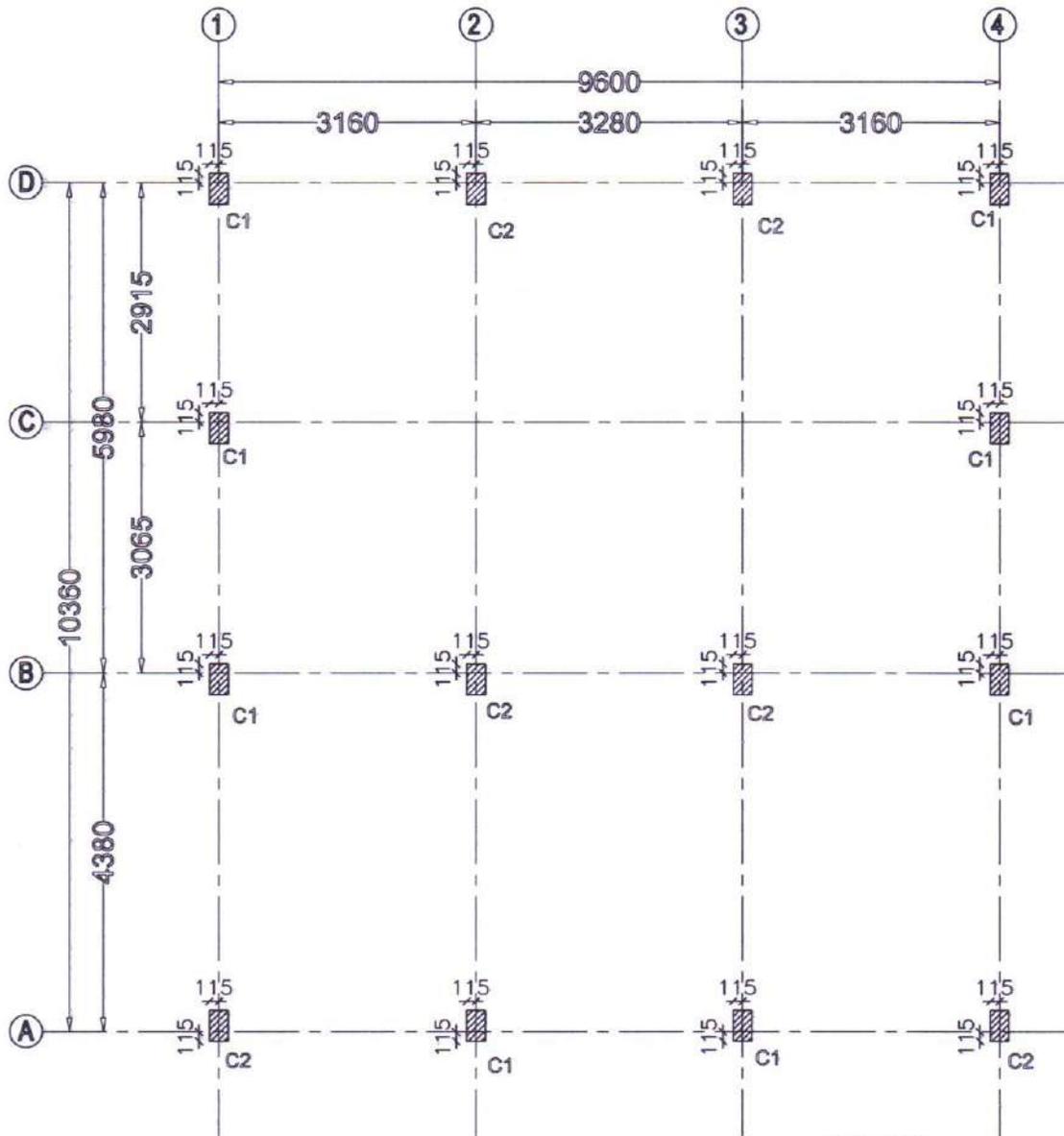
Seismic Zone II, Grade of Concrete : M25, Steel Grade : Fe500

NAME OF WORK :  
PROVIDING ADDITIONAL ACCOMODATION FOR  
AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS  
(VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)

Dep. Title : GENERAL NOTES

Org.No : PR/RSK/Z II/M25 / GEN / 01

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**COLUMN CENTER LINE PLAN**

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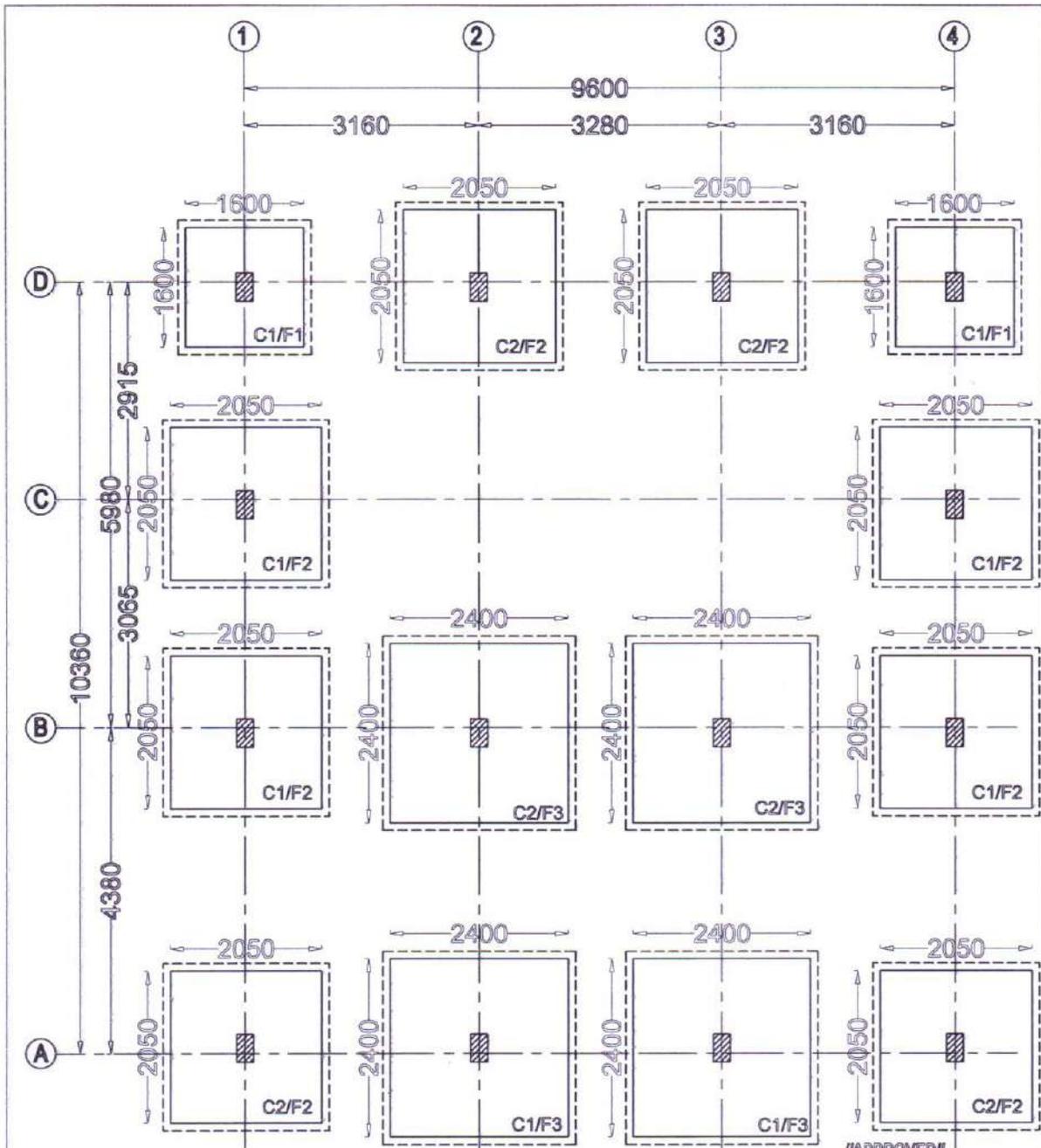
Chief Engineer, PR - II  
Vijayawada.

// TRUE COPY //  
*D. Srinivasulu*  
Dy. Executive Engineer, PR (Designs)  
29/04/20

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

Name of work :	PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)
Org. Title :	COLUMN CENTER LINE
Org. No :	PR/RBK/Z II/M25/SD/1
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



**COLUMN & FOOTING LAYOUT**

//APPROVED//

Sd/-

Chief Engineer, PR - II  
Vijayawada.

SBC -100 KN/M<sup>2</sup>

// TRUE COPY //

*R. Srinivas*  
Dy. Executive Engineer, PR (Designs)

29/04/20

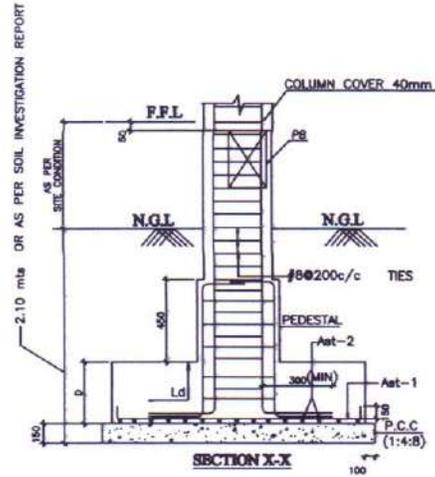
Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

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PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)	
Drg. Title : COLUMN & FOOTING LAYOUT	
Drg.No : PR/RBK/Z II/M25/SD/2B	
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	

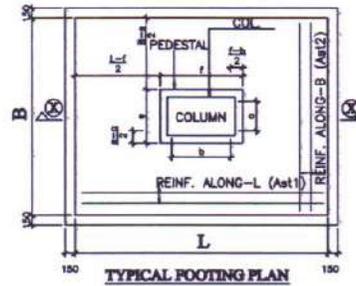
**SCHEDULE OF COLUMNS**

COLUMN GROUP	COLUMN SIZE	Reinforcement up to 1st Floor	SECTION
C1	230 x 380	8-#12mm	
C2	230 x 380	4-#16mm 4-#12mm	



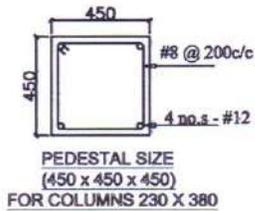
**SCHEDULE OF FOOTINGS FOR SBC -100 KN/M<sup>2</sup>**

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Aest1)	REINFORCEMENT ALONG-B (Aest2)
F1	M25	1800 x 1800	300	Y 10- 9 Nos	Y 10- 9 Nos
F2	M25	2050 x 2050	360	Y 12- 11 Nos	Y 12- 11 Nos
F3	M25	2400 x 2400	425	Y 12- 16 Nos	Y 12- 16 Nos



**NOTES :**

1. STRUCTURE IS DESIGNED FOR GROUND + 1 FLOORS
2. FOOTINGS DESIGNED FOR SBC OF 100 KN/m<sup>2</sup>



Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

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Sd/-  
Chief Engineer, PR - II  
Vijaywada.

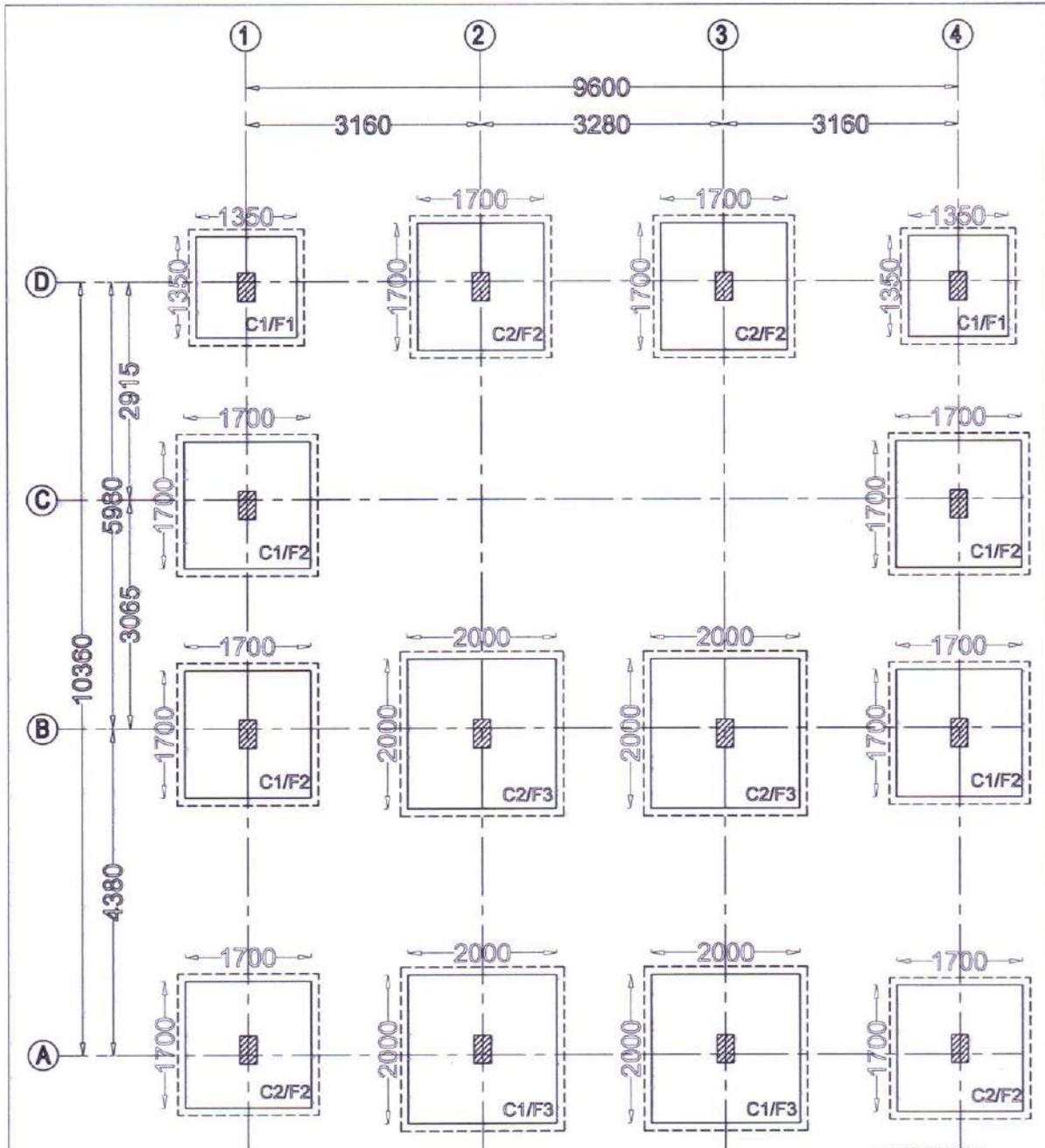
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*B. Srinivasaiah*  
Dy. Executive Engineer, PR (Designs)  
29/04/20

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PROVIDING ADDITIONAL ACCOMODATION FOR  
AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS  
(VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)

Drg. Title : COLUMN & FOOTING SCHEDULE  
Drg.No: PR / RBK / Z II / M25 / SD / 38

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



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Chief Engineer, PR - II  
Vijayawada.

SBC - 150 KN/M<sup>2</sup>

**COLUMN & FOOTING LAYOUT**

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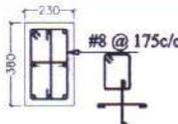
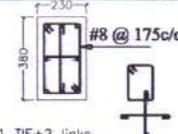
*R. Srinivasulu*  
By. Executive Engineer, PR (Designs)  
29/04/20

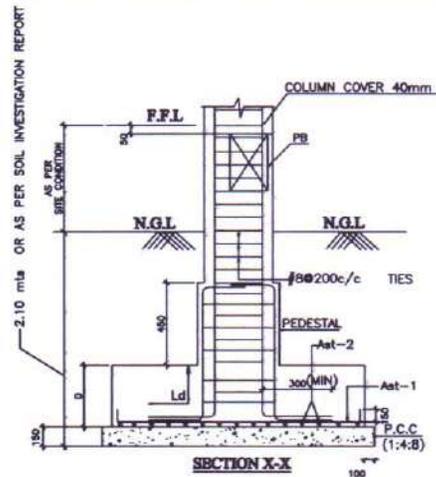
Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

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Dwg.No :	PR / RBK / Z II / M25 / SD / 2C
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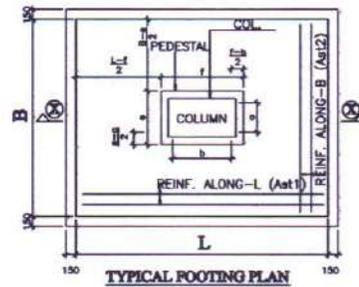
**SCHEDULE OF COLUMNS**

COLUMN GROUP	COLUMN SIZE	Reinforcement up to 1st Floor	SECTION
C1	230 x 380	8-#12mm	
C2	230 x 380	4-#16mm 4-#12mm	



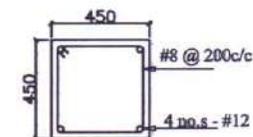
**SCHEDULE OF FOOTINGS FOR SBC -150 KN/M<sup>2</sup>**

Footng Group	Mix	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1350 x 1350	300	Y 10- 8 Nos	Y 10- 8 Nos
F2	M25	1700 x 1700	350	Y 12- 9 Nos	Y 12- 9 Nos
F3	M25	2000 x 2000	400	Y 12- 13 Nos	Y 12- 13 Nos



**NOTES :**

1. STRUCTURE IS DESIGNED FOR GROUND +1 FLOORS
2. FOOTINGS DESIGNED FOR SBC OF 150 KN/m<sup>2</sup>



**PEDESTAL SIZE**  
(450 x 450 x 450)  
FOR COLUMNS 230 X 380

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M30, Steel Grade : Fe500

//APPROVED//

Sd/-  
Chief Engineer, PR - II  
Vijaywada.

// TRUE COPY //

*R. Srinivas*  
Dy. Executive Engineer, PR (Designs)  
29/04/20

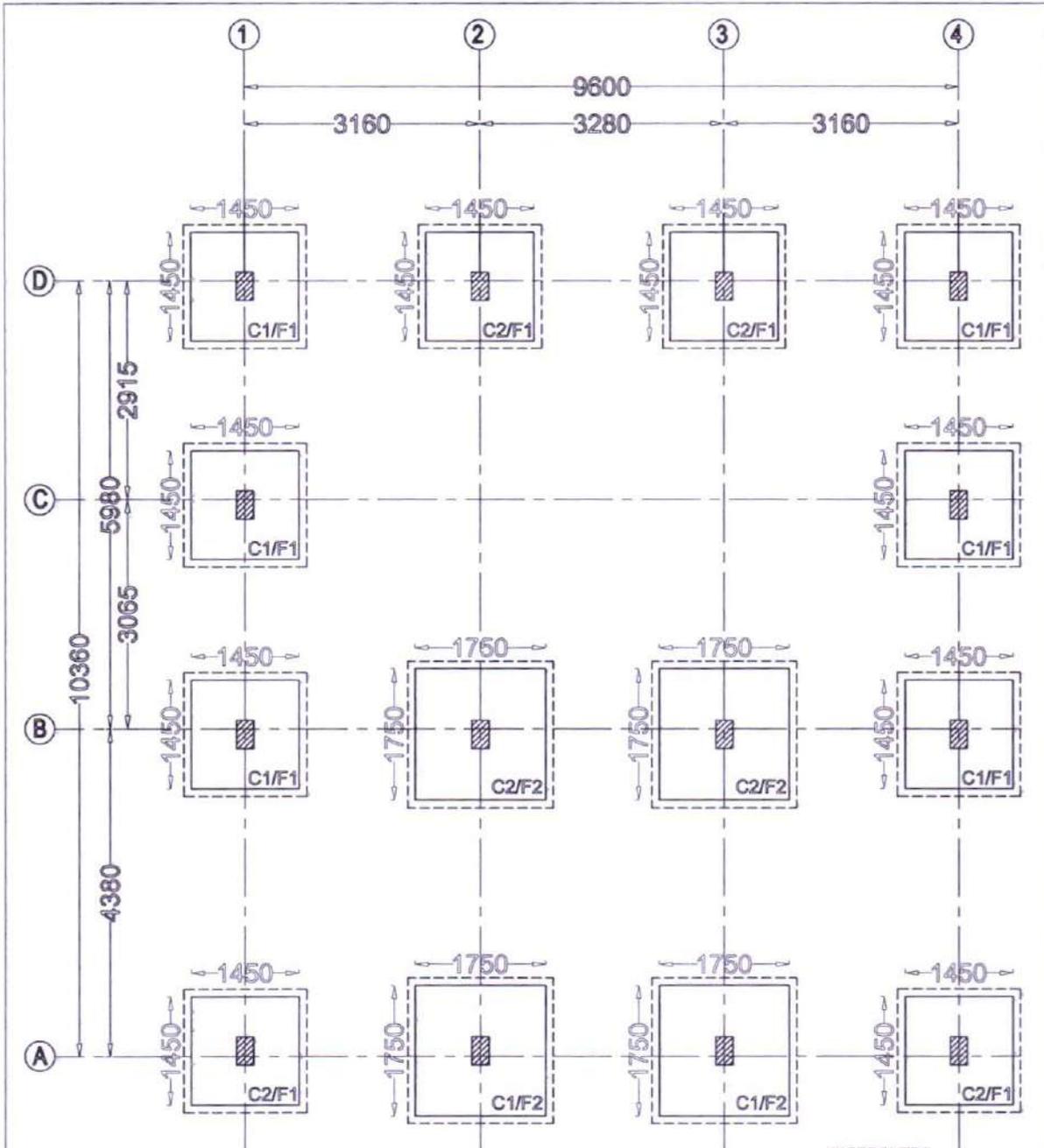
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Drg. Title : COLUMN & FOOTING SCHEDULE

Drg.No: PR/RBK/Z II/M25/SD/3C

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**COLUMN & FOOTING LAYOUT**

//APPROVED//

Sd/-

Chief Engineer, PR - II  
Vijayawada.

SBC -200 KN/M<sup>2</sup>

// TRUE COPY //

*h. Rosiniwarada*  
Dy. Executive Engineer, PR (Designs)

29/04/20

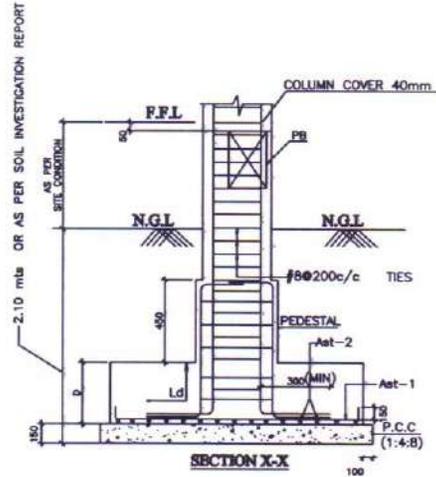
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Drg.No :	PR/RBK/Z II/M25/SD/2D
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	

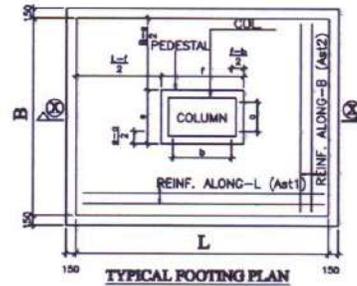
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C1	230 x 380	8-#12mm	
C2	230 x 380	4-#16mm 4-#12mm	



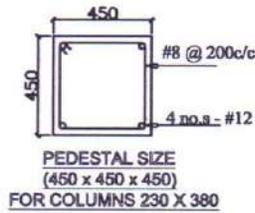
**SCHEDULE OF FOOTINGS FOR SBC -200 KN/M<sup>2</sup>**

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Aest1)	REINFORCEMENT ALONG-B (Aest2)
F1	M25	1450 x 1450	325	Y 12- 8 Nos	Y 12- 8 Nos
F2	M25	1750 x 1750	400	Y 12- 11 Nos	Y 12- 11 Nos



**NOTES :**

1. STRUCTURE IS DESIGNED FOR GROUND + 1 FLOORS
2. FOOTINGS DESIGNED FOR SBC OF 200 KN/m<sup>2</sup>



//APPROVED//

Sd/-  
Chief Engineer, PR - II  
Vijayawada.

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*R. Srinivasulu*  
Dy. Executive Engineer, PR (Designs) 29/04/20

NAME OF WORK :  
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)

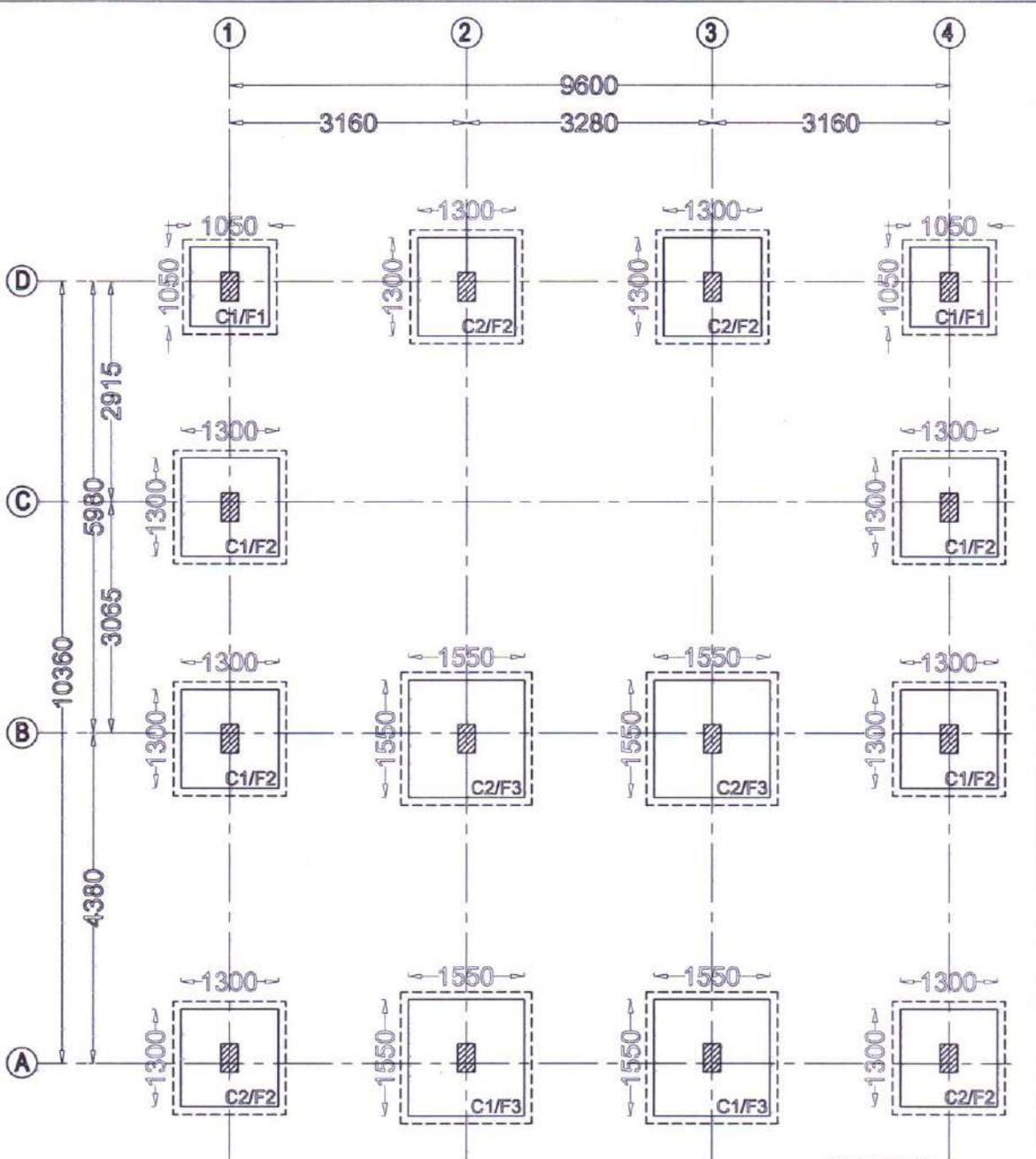
Drg. Title : COLUMN & FOOTING SCHEDULE

Drg.No: PR /RBK / Z II / M25 / SD / 3D

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500



**COLUMN & FOOTING LAYOUT**

||APPROVED||

Sd/-  
Chief Engineer, PR - II  
Vijayawada.  
SBC -250 KN/M<sup>2</sup>

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*B. Binivasaiah*  
Dy. Executive Engineer, PR (Designs)  
29/04/20

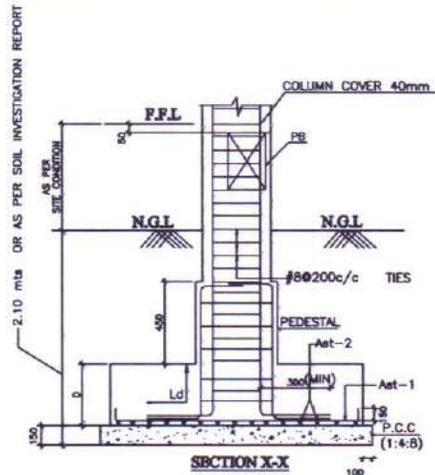
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Drg. Title :	COLUMN & FOOTING LAYOUT
Drg.No :	PR/RBK/Z II/M25/SD/2E
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	

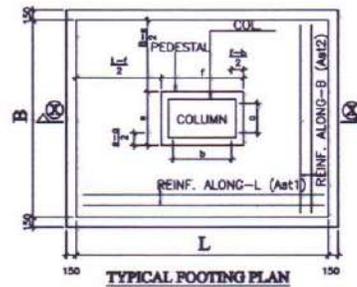
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COLUMN GROUP	COLUMN SIZE	Reinforcement up to 1st Floor	SECTION
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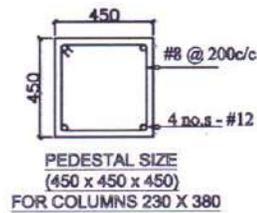
**SCHEDULE OF FOOTINGS FOR SBC -250 KN/m<sup>2</sup>**

Footng Group	Mlx	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1050 x 1050	275	Y 10- 6 Nos	Y 10- 6 Nos
F2	M25	1300 x 1300	300	Y 12- 7 Nos	Y 12- 7 Nos
F3	M25	1550 x 1550	375	Y 12- 9 Nos	Y 12- 9 Nos



**NOTES :**

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOORS
- FOOTINGS DESIGNED FOR SBC OF 250 KN/m<sup>2</sup>



Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

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Sd/-  
Chief Engineer, PR - II  
Vijayawada.

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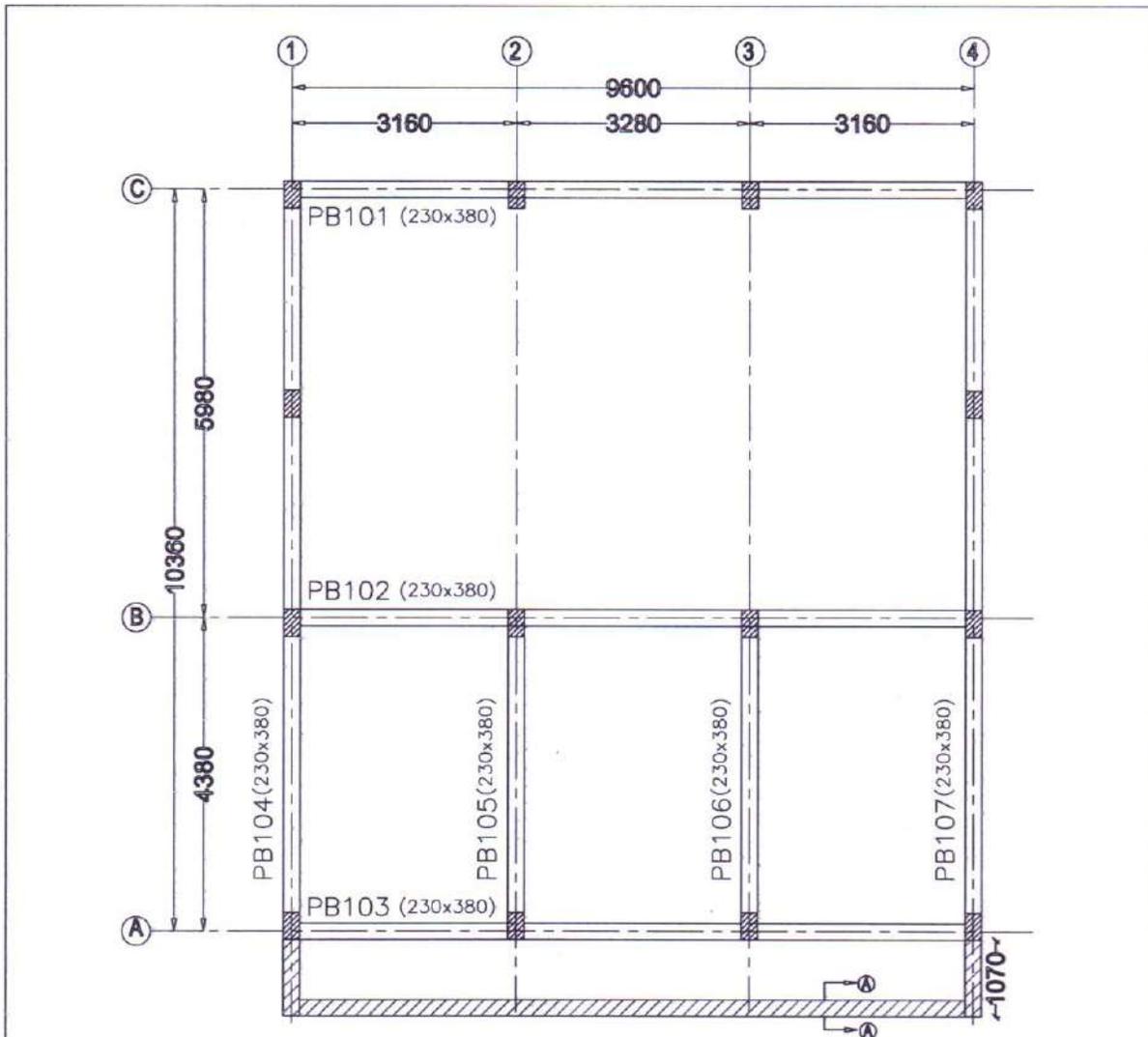
*B. Srinivasulu*  
Dy. Executive Engineer, PR (Design) 29/04/20

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PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)

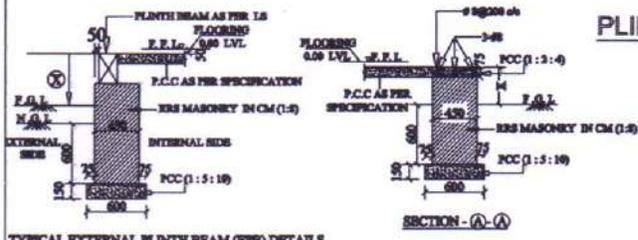
Drg. Title : COLUMN & FOOTING SCHEDULE

Drg.No: PR / RBK / Z II / M25 / SD 3E

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**PLINTH BEAM LAYOUT**

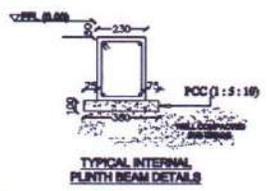


**TYPICAL EXTERNAL PLINTH BEAM (EPB) DETAILS**  
 ⊗ VARIABLE AS PER SITE CONDITIONS TO A MAXIMUM OF 600 mm.

Note : ALL BEAMS ARE 230 x 380  
 CONCRETE M25, STEEL Fe 500

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500



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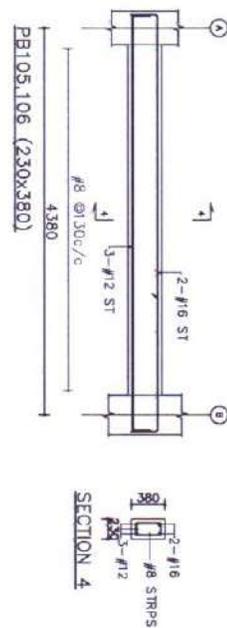
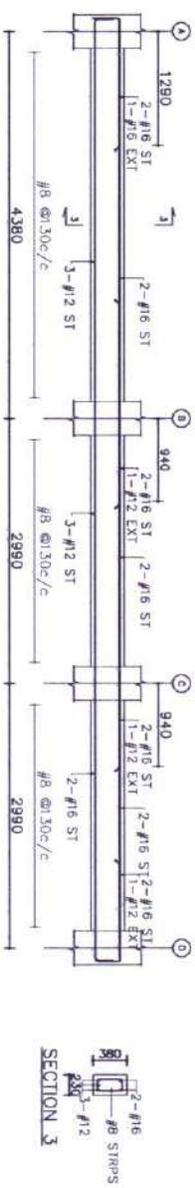
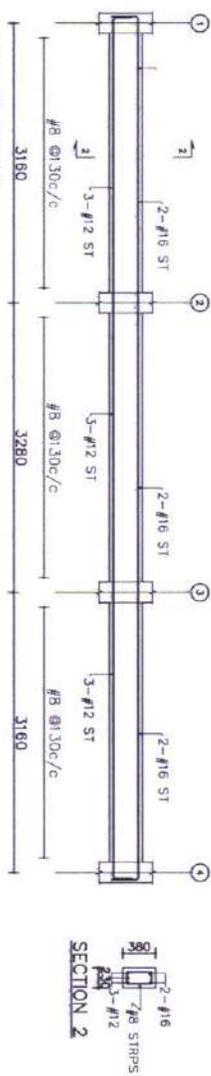
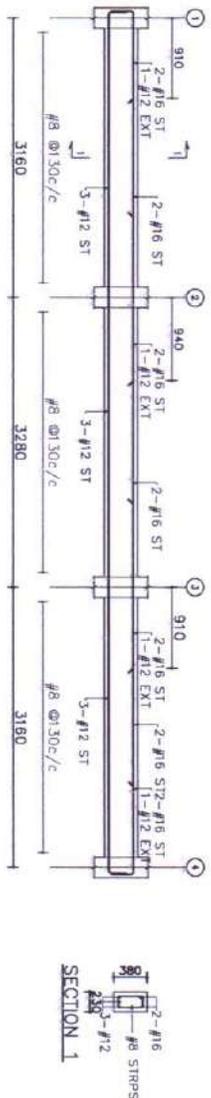
3d-

Chief Engineer, PR - II  
 Vijayawada.

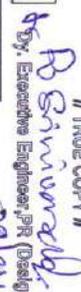
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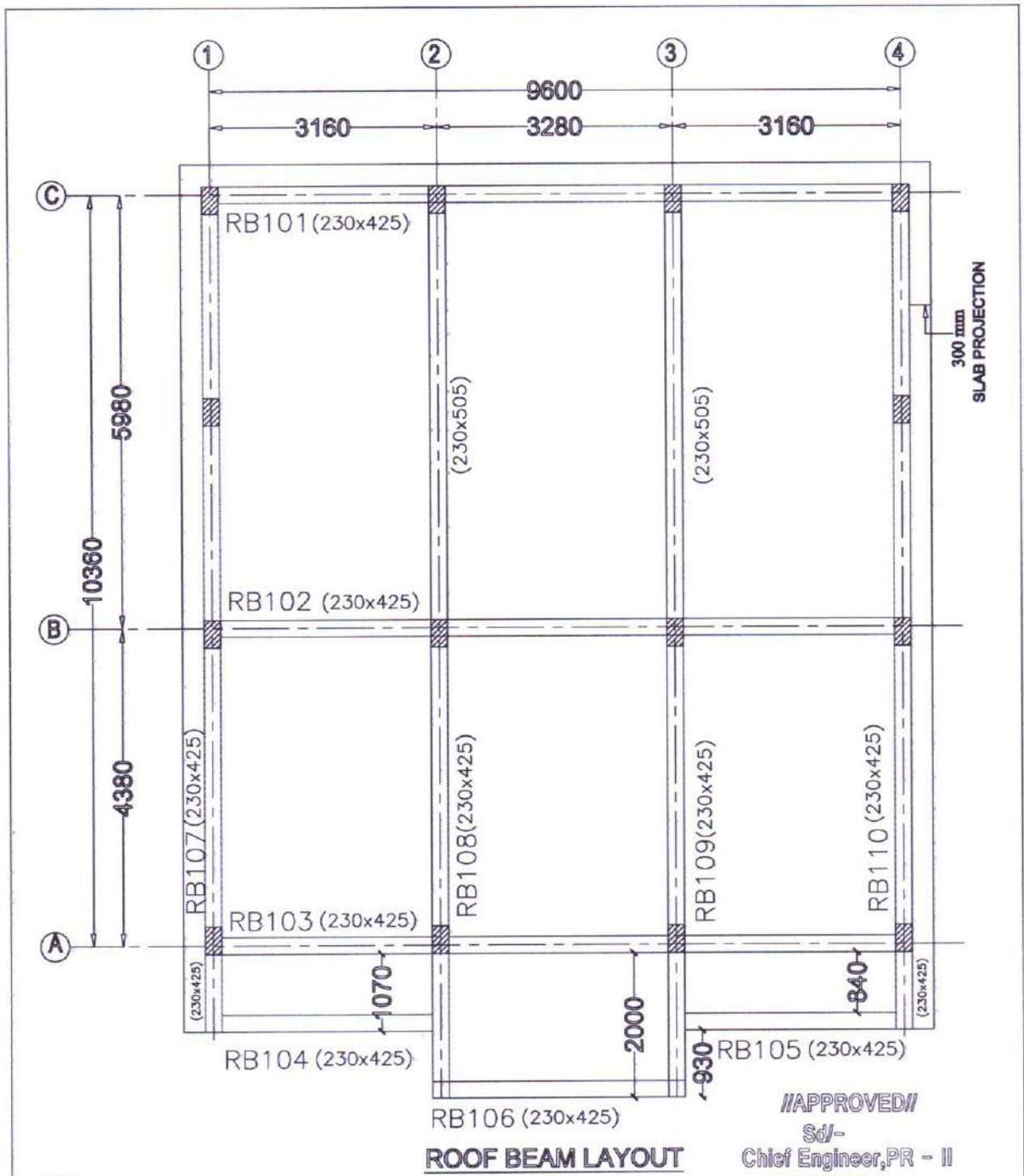
*P. R. Vinayak*  
 Dy. Executive Engineer, PR (Designs)  
 29/04/20

Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)	
Dwg. Title :	PLINTH BEAM LATOUT
Dwg. No :	PR / RBK / Z II / M25 / SD / 4
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



APPROVED/  
Sd/-  
Chief Engineer, PR - II  
Vijayawada.

// TRUE COPY //	
 B. Srinivasa Reddy Sr. Executive Engineer, PR (Designs) 29/04/20	
Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)	
Drg. Title :	
PLINTH BEAM DETAILS	
Drg. No. :	
PR/RBK/Z/II/M25/SD/5	
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	
Radial Distance More Than 50 Km From Coast line Seismic Zone II , Grade of Concrete : M25, Steel Grade : F4500	



//APPROVED//  
 Sd/-  
 Chief Engineer, PR - II  
 Vijayawada.

**NOTES :**

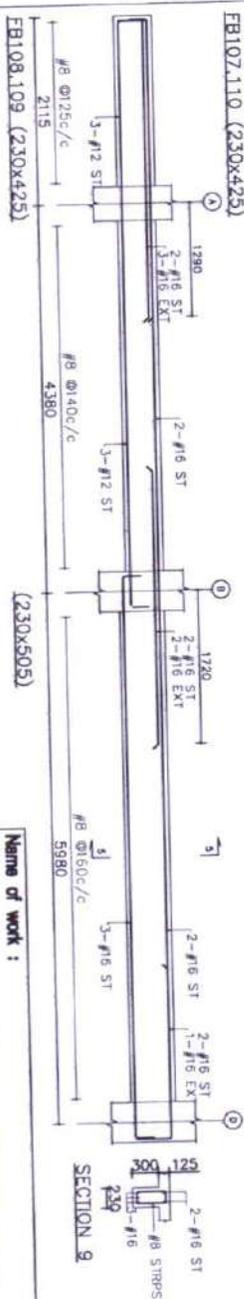
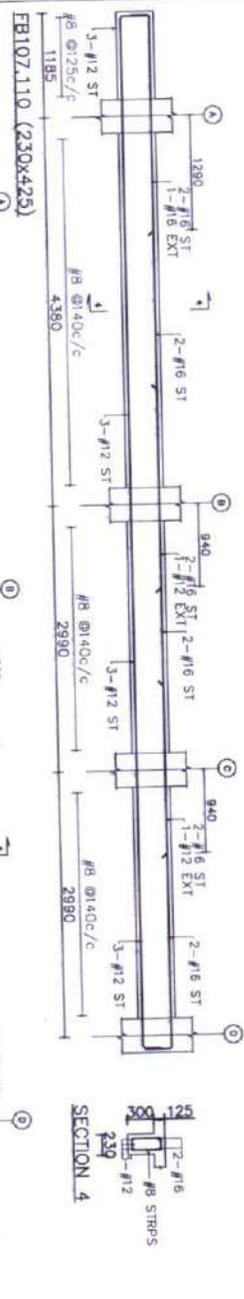
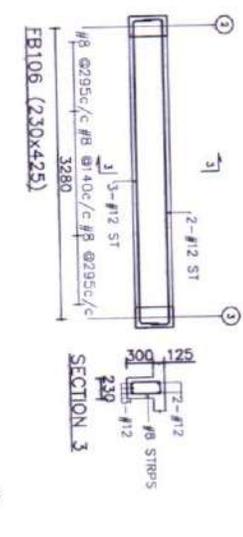
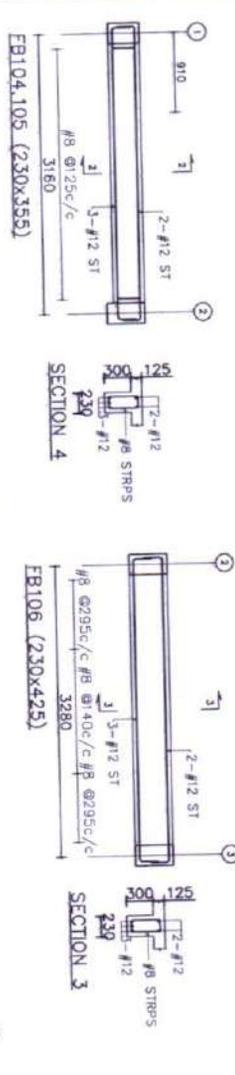
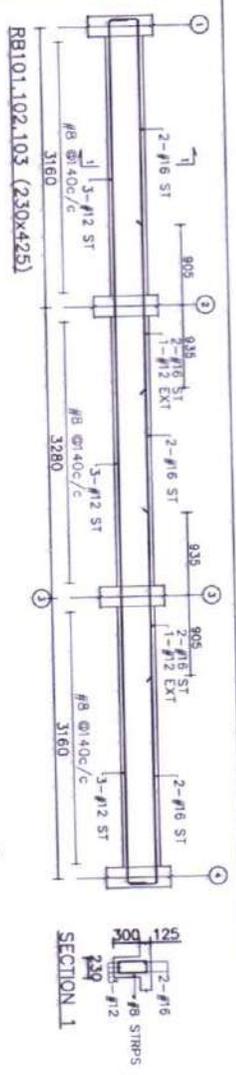
1. SLAB THICKNESS = 125 mm
2. BEAM DEPTH IS INCLUDING THE SLAB THICKNESS

// TRUE COPY //  
*R. Riniwada*  
 Dy. Executive Engineer, PR (Designs)  
 29/04/20

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)	
Drg. Title :	ROOF BEAM LAYOUT
Drg. No :	PR/RBK/Z II /M25/SD/ 6
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



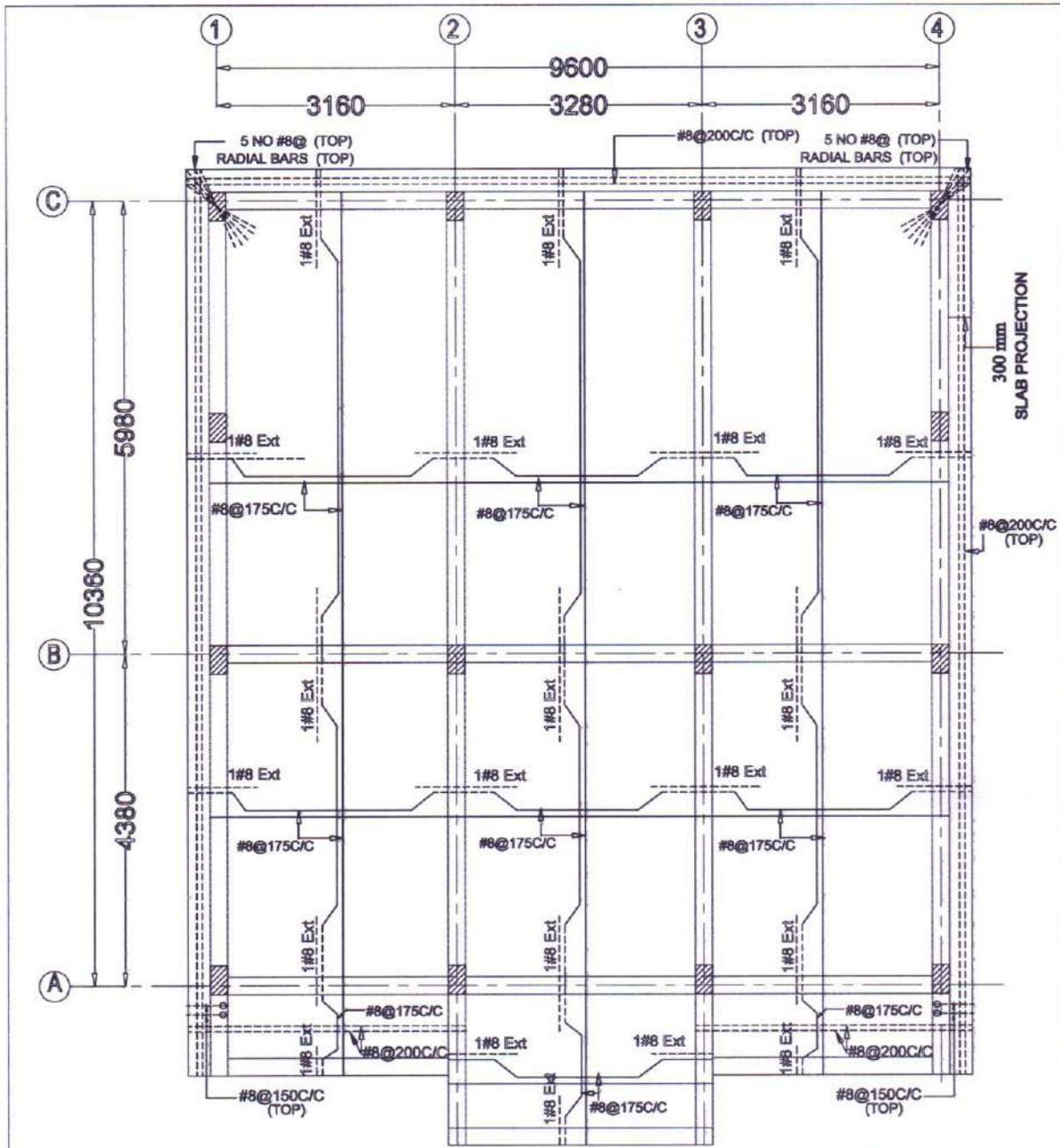
Radial Distances More Than 50 Km From Coast line

Sismic Zone II, Grade of Concrete : M25, Steel Grade : Fe500

Dr. B. Srinivasulu  
 Dy. Executive Engineer, P.R. (Doddanna)  
 29/10/12

Chief Engineer, P.R. - II  
 Vijayawada.

Name of work :	PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)
Drg. Title :	ROOF BEAM DETAILS
Drg. No. :	PR/RBK/2/II/M25/80/17
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



**ROOF SLAB DETAILS**

[[APPROVED]]

Sd/-

Chief Engineer, PR - II  
Vijayawada.

NOTE: All Slabs are 125 mm thickness uniform

// TRUE COPY //

*R. Srinivasulu*  
to Dy. Executive Engineer, PR (Designs)  
29/04/20

Radial Distance More Than 50 Km From Coast line

Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500

Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)	
Dwg. Title :	ROOF SLAB DETAILS
Dwg. No :	PR/RBK/Z II/M25/SD/8
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	