

**GROUND FLOOR PLAN**

Radial Distance Up To 50 Km From Coast line

Seismic Zone III, Grade of Concrete : M30, Steel Grade : F&500

**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  
 Vijayawada.  
 // TRUE COPY //  
 Dr. Srinivas Reddy  
 Dy. Executive Engineer, PR (Designs)  
 05/05/20

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

Dwg. Title : GROUND FLOOR PLAN

Dwg. No : PR/RBK/AR/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 50/75/100/150/200/250 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 & Columns	Pedestal	Beams	Slabs
Mix	M30	M30	M30	M30

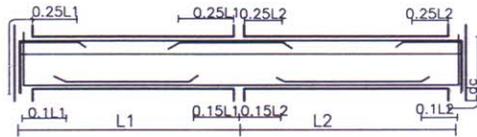
- GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.  
\* IT SHOULD BE ENSURED THAT THE ABOVE STEEL IS PRODUCED BY THERMOMECHANICAL TREATMENT PROCESS, HAVING ELONGATION MORE THAN 14.5% AND CONFIRMING TO IS 1786-85 & ITS AMENDMENTS
- CONCRETE LAID IN THE FORM WORK SHALL INVARIABLY VIBRATED TO OBTAIN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

Mix	M30
Ld	46 Dia Tension / 37 Dia Compression

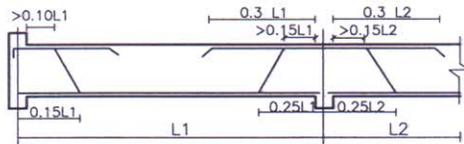
- NOT MORE THAN 50% OF COLUMN REINFORCEMENT SHALL BE LAPPED AT A PARTICULAR LOCATION.
- CLEAR COVERS ARE AS FOLLOWS

FOOTING TO MAIN BAR	PEDESTAL TO MAIN BAR	COLUMN TO MAIN BAR	BEAMS	SLABS & STAIR CASE TO MAIN BAR
50 mm	50 mm	50 mm	35 mm	30 mm

- 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.

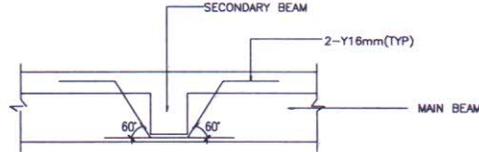


TYPICAL DETAILS OF A BEAM



TYPICAL DETAILS OF A SLAB

- 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  $\phi$  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 G.F+1 STOREYS AND FOR BASIC WIND SPEED 50 m/s AND FOR SEISMIC ZONE -III
- FLOOR TO FLOOR HEIGHT IS CONSIDERED AS 3.80m
- CURING SHOULD BE DONE AT LEAST FOR 21 DAYS
- STRIPPING TIME OF FORMWORK SHALL CONFORM TO CLAUSE 11.3 OF IS 456-2000

**LEGEND:**

- FFL : Finished Floor Level.
- FGL : Finished Ground Level
- TOB : Top of beam
- SFL : Structural finished Level

//APPROVED//

Sd/-

Chief Engineer, PR - II  
Vijayawada.

// TRUE COPY //

*B. Srinivasulu*  
Dy. Executive Engineer, PR (Designs)  
02/08/20

**IMPORTANT NOTE:**

- THE RESPONSIBILITY FOR FIXING OF F.G.L AND .F.L ARE LIES WITH THE SE/E.E 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.

Radial Distance Upto 50 Km From Coast line

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

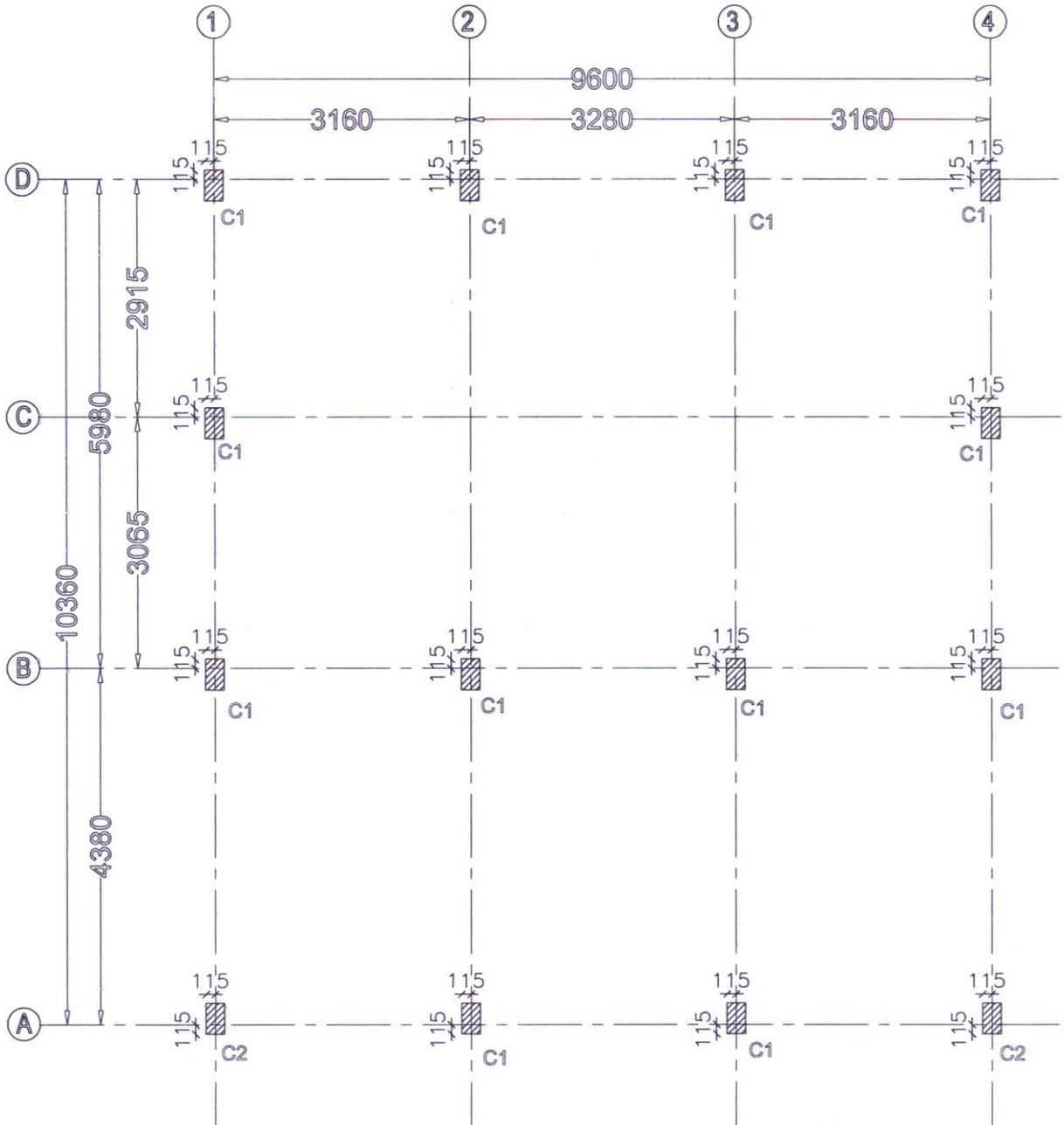
NAME OF WORK :

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

Drg. Title : GENERAL NOTES

Drg.No: PR/RBK/ZIII/M30 / GEN /01

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**COLUMN CENTER LINE PLAN**

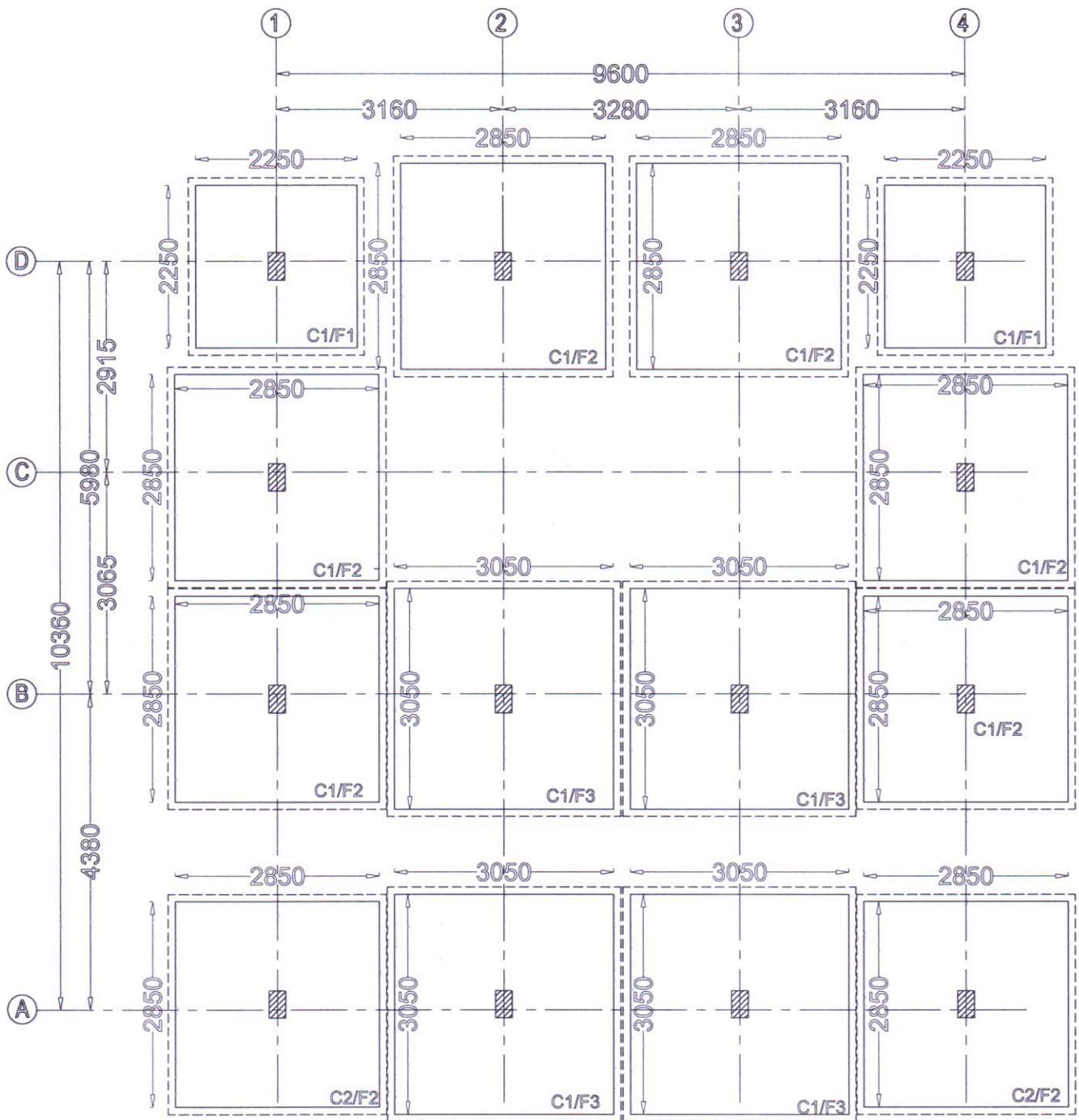
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**Sd/-**  
**Chief Engineer,PR - II**  
**Vijayawada.**

**// TRUE COPY //**  
*P. Srinivasa Rao*  
**Dy. Executive Engineer,PR (Designs)**  
*02/08/20*

Radial Distance Up To 50 Km From Coast line

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

Name of work :	PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)
Drg. Title :	COLUMN CENTER LINE
Drg. No :	PR/RBK/Z III /M30/SD/1
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



**COLUMN & FOOTING LAYOUT**

//APPROVED//

Sd/-

Chief Engineer, PR - II

Vijayawada.

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

05/10/20

SBC -50 KN/m<sup>2</sup>

Radial Distance Up To 50 Km From Coast line

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

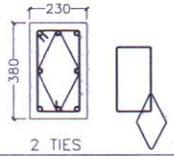
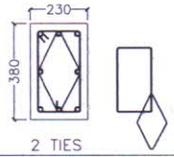
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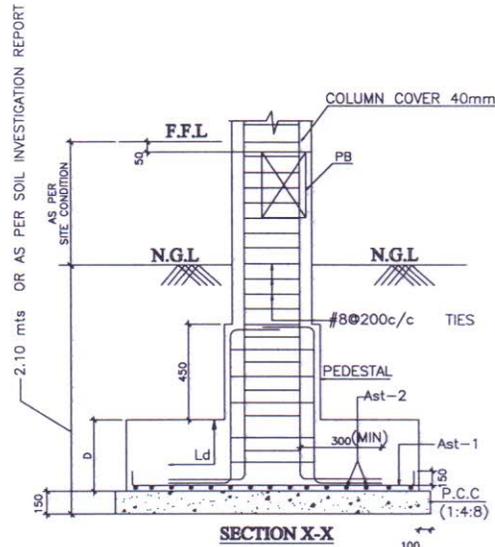
Drg. Title : COLUMN & FOOTING LAYOUT

Drg.No : PR/RBK/Z II/M30/SD/2A

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.

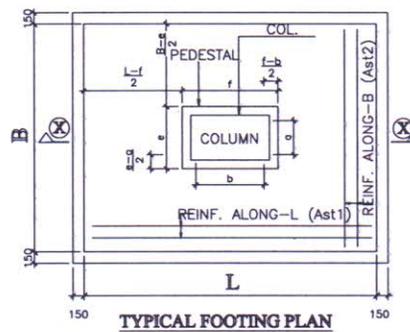
**SCHEDULE OF COLUMNS**

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



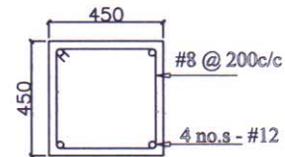
**SCHEDULE OF FOOTINGS FOR SBC -50 KN/m²**

Footng Group	Mix	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	2250 x 2250	300	Y 10- 16 Nos	Y 10- 16 Nos
F2	M30	2850 x 2850	375	Y 12- 18 Nos	Y 12- 18 Nos
F3	M30	3050 x 3050	400	Y 12- 20 Nos	Y 12- 20 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE		AT OTHER THAN 1,2,&3	
			if column is tied from			
1	230 x 380	10mm @ 75c/c	less than 4 sides	all the 4 sides	8mm @ 115c/c	
			1	2		3
			10mm @ 75c/c	10mm @ 75c/c		10mm @ 125c/c



**NOTES :**

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOORS
- FOOTINGS DESIGNED FOR SBC OF 50 KN/m²

// APPROVED //

Sd/-

Chief Engineer, PR - II

Vijayawada.

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*D. Srinivasan*  
Dy. Executive Engineer, PR (Designs)

Radial Distance Up To 50 Km From Coast line

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

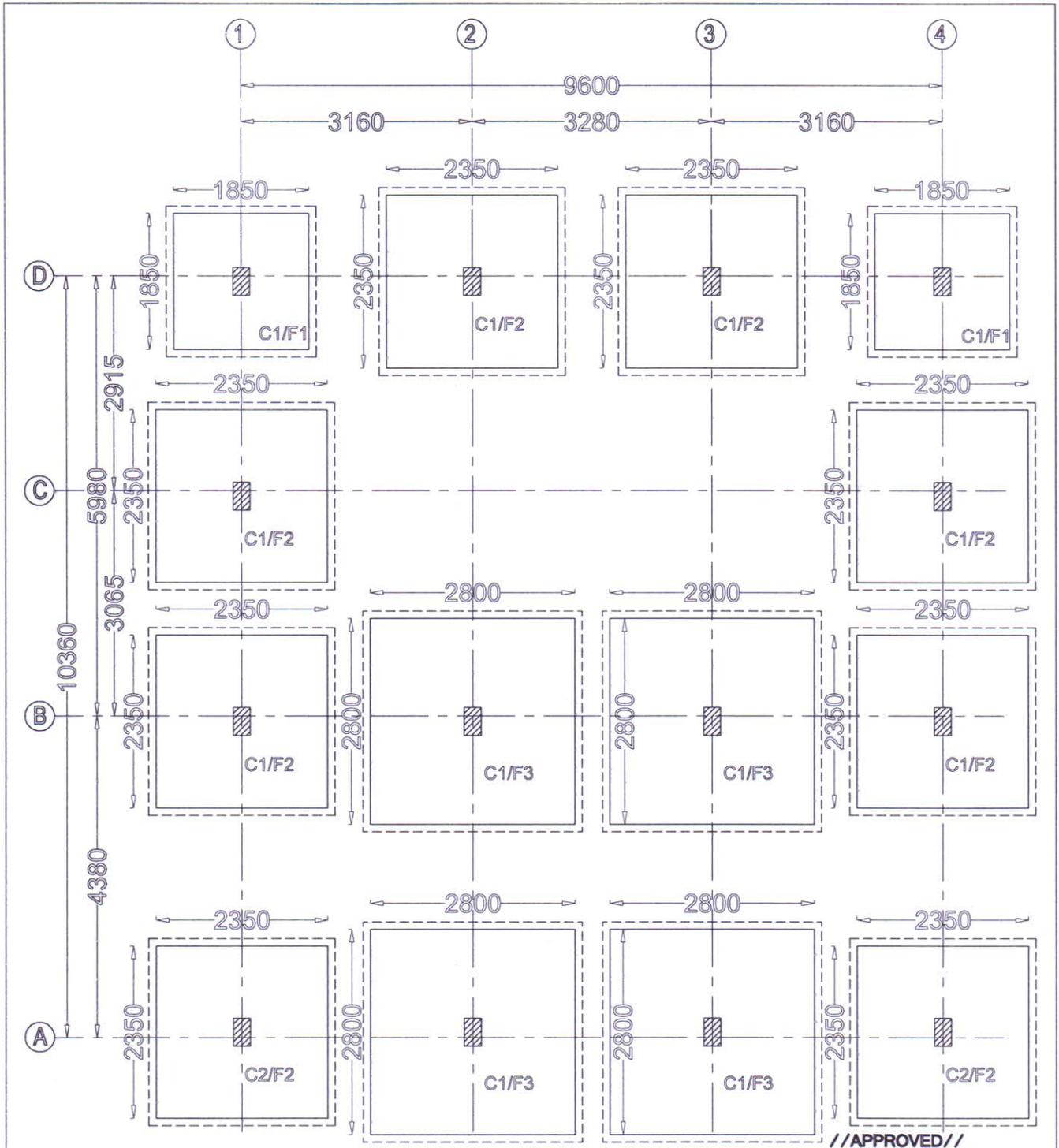
**NAME OF WORK :**

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Drg. Title : COLUMN & FOOTING SCHEDULE

Drg.No: PR/RBK/Z III/M30/SD/3A

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



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Sd/-

Chief Engineer, PR - II

Vijayawada.

SBC - 75 KN/M<sup>2</sup>

**COLUMN & FOOTING LAYOUT**

// TRUE COPY //

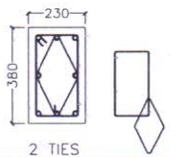
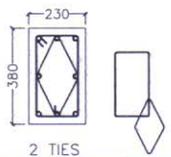
*R. Sriwani*  
 Dy. Executive Engineer, PR (Designs)  
 05/05/20

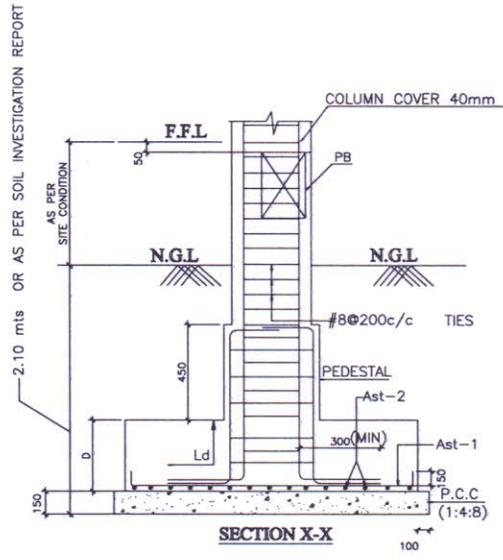
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Seismic Zone III , Grade of Concrete : M30, Steel Grade : Fe500

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Drg.No : PR/RBK/Z III/M30/SD/2G	
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	

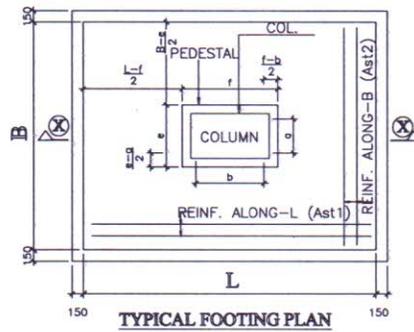
**SCHEDULE OF COLUMNS**

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



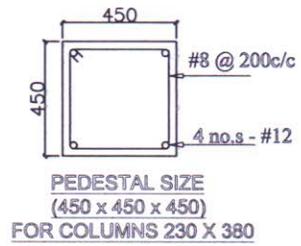
**SCHEDULE OF FOOTINGS FOR SBC -75 KN/M<sup>2</sup>**

Footng Group	Mix	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	1850 x 1850	300	Y 10- 11 Nos	Y 10- 11 Nos
F2	M30	2350 x 2350	375	Y 12- 14 Nos	Y 12- 14 Nos
F3	M30	2800 x 2800	425	Y 12- 19 Nos	Y 12- 19 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE		AT OTHER THAN 1,2,&3	
			if column is tied from			
			less than 4 sides	all the 4 sides		
			1	2	3	4
1	230 x 380	10mm @ 75c/c	10mm @ 75c/c	10mm @ 125c/c	8mm @ 115c/c	



**NOTES:**

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOORS
- FOOTINGS DESIGNED FOR SBC OF 75 KN/M<sup>2</sup>

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Sd/-

**Chief Engineer, PR - II  
Vijayawada.**

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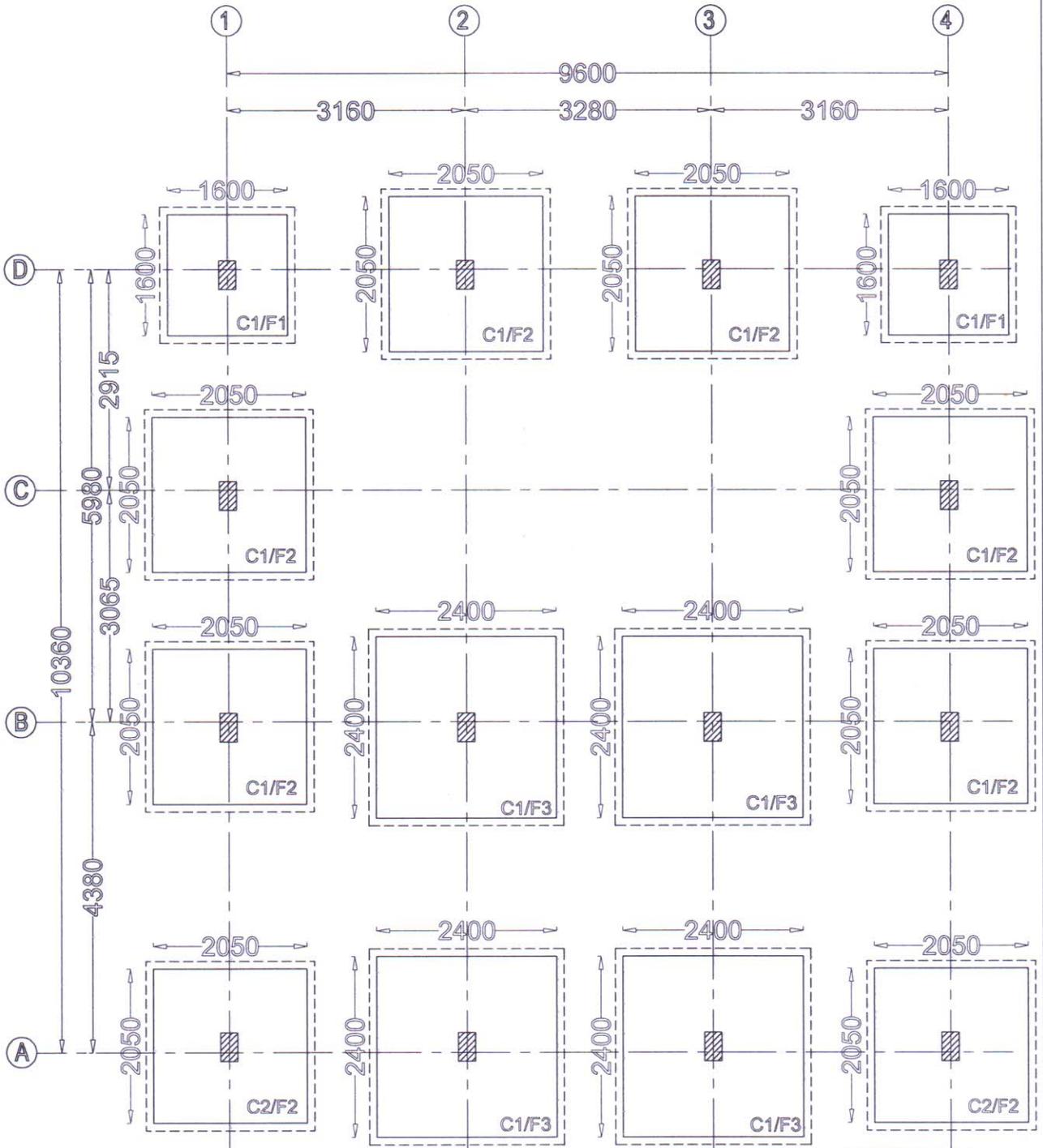
*R. Subhvaraj*  
**Dy. Executive Engineer, PR (Designs)**

05/05/20

Radial Distance Up To 50 Km From Coast line

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

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Drg. Title :	COLUMN & FOOTING SCHEDULE
Drg.No :	PR / RBK / Z III / M30 / SD / 3G
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



**COLUMN & FOOTING LAYOUT**

// APPROVED //

Sd/-

Chief Engineer, PR - II

Vijayawada.

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

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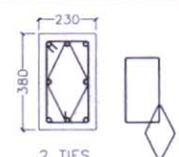
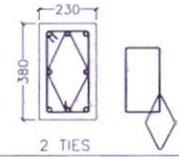
*B. Srinivasan*  
 Dy. Executive Engineer, PR (Designs)  
*05/05/20*

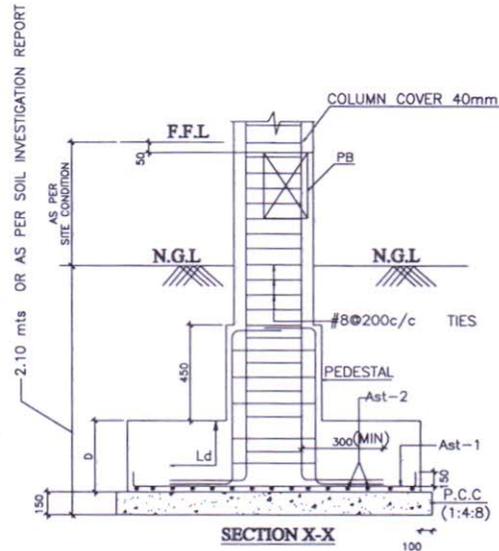
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Drg.No :	PR/RBK/Z III/M30/SD/2B
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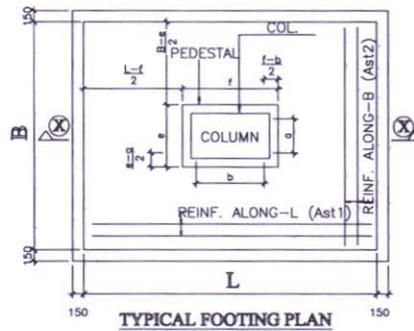
**SCHEDULE OF COLUMNS**

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



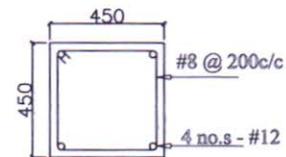
**SCHEDULE OF FOOTINGS FOR SBC -100 KN/M<sup>2</sup>**

Footings Group	Mix	Footings Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	1600 x 1600	300	Y 10- 9 Nos	Y 10- 9 Nos
F2	M30	2050 x 2050	350	Y 12- 11 Nos	Y 12- 11 Nos
F3	M30	2400 x 2400	425	Y 12- 16 Nos	Y 12- 16 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE		AT OTHER THAN 1,2,&3
			if column is tied from		
			less than 4 sides	all the 4 sides	
1	230 x 380	1	2	3	4
		10mm @ 75c/c	10mm @ 75c/c	10mm @ 125c/c	8mm @ 115c/c



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

**NOTES :**

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

// APPROVED //

Sd/-

Chief Engineer, PR - II

Vijayawada.

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*B. Shivarama*  
Dy. Executive Engineer, PR (Designs)

*05/01/20*

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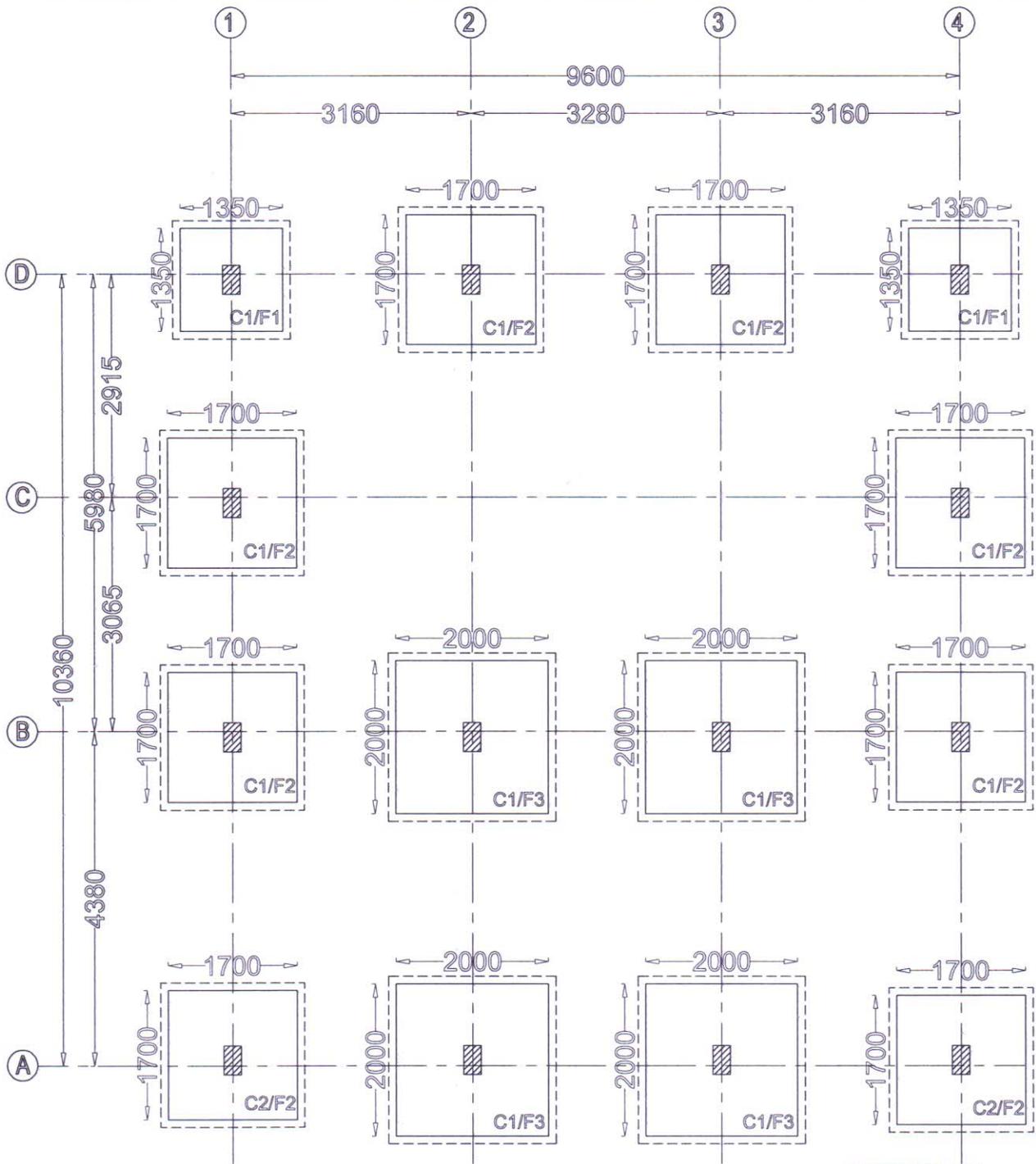
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Drq. Title : COLUMN & FOOTING SCHEDULE

Drq.No : PR / RBK / Z III / M30 / SD / 3B

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**COLUMN & FOOTING LAYOUT**

// APPROVED //

Sd/-

Chief Engineer, PR - II

Vijayawada.

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

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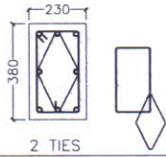
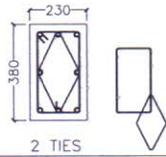
*R. Shivuasa*  
 Dy. Executive Engineer, PR (Designs)  
 05/05/20

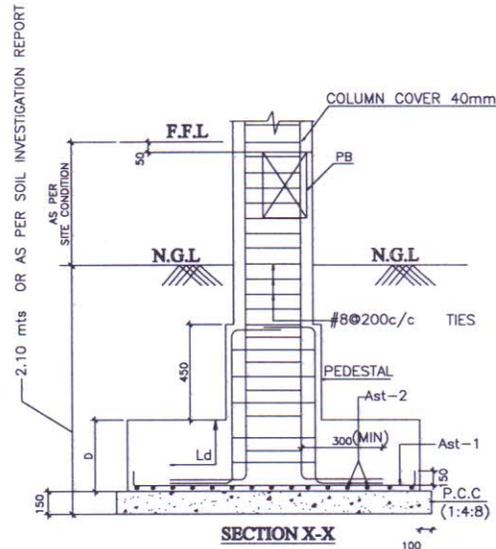
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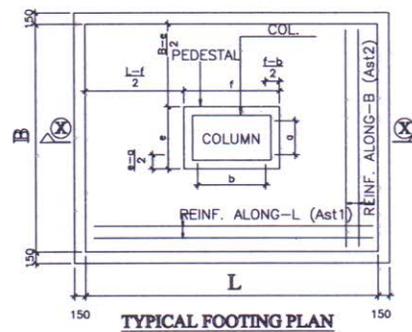
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COLUMN GROUP	COLUMN SIZE	Reinforcement up to 1st Floor	SECTION
C1	230 x 380	○8-#12mm	
C2	230 x 380	○4-#16mm ○4-#12mm	



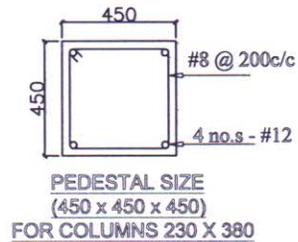
**SCHEDULE OF FOOTINGS FOR SBC -KN/M<sup>2</sup>**

Footng Group	Mix	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	1350 x 1350	300	Y 10- 8 Nos	Y 10- 8 Nos
F2	M30	1700 x 1700	350	Y 12- 9 Nos	Y 12- 9 Nos
F3	M30	2000 x 2000	400	Y 12- 13 Nos	Y 12- 13 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE			AT OTHER THAN 1,2,&3
			if column is tied from			
			less than 4 sides	all the 4 sides		
1	230 x 380	1	2	3	4	
		10mm @ 75c/c	10mm @ 75c/c	10mm @ 125c/c	8mm @ 115c/c	



**NOTES :**

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

//APPROVED//  
Sd/-

Chief Engineer, PR - II  
Vijayawada.

// TRUE COPY //

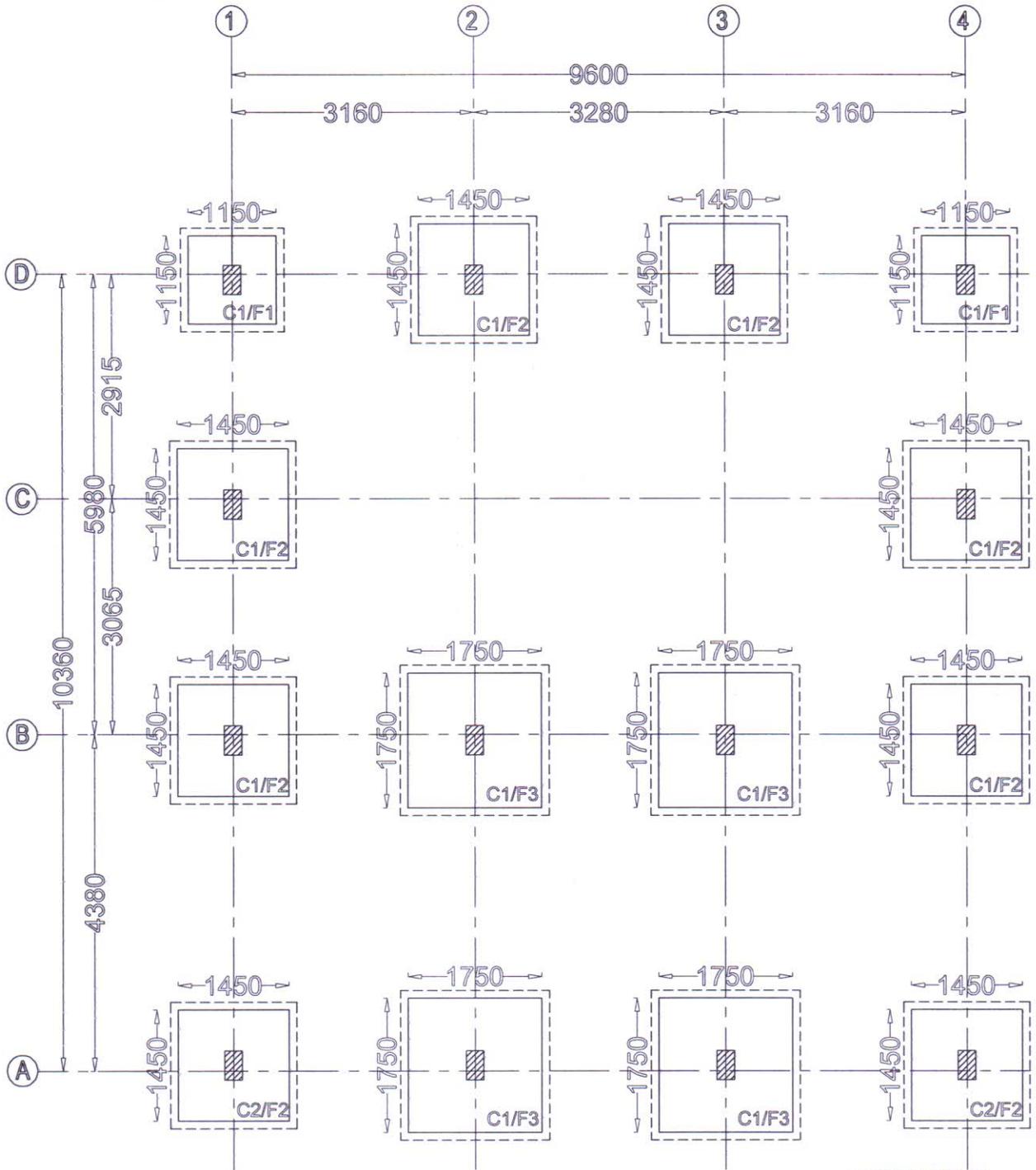
*B. Srinivasan*  
Dy. Executive Engineer, PR (Designs)

Radial Distance Up To 50 Km From Coast line

05/05/20

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

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 III / M30 / SD / 3C
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



// APPROVED //  
Sd/-

Chief Engineer, PR - II  
Vijayawada.

**COLUMN & FOOTING LAYOUT**

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

// TRUE COPY //

*R. Srinivasan*  
Dy. Executive Engineer, PR (Designs)  
05/05/20

Radial Distance Up To 50 Km From Coast line

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

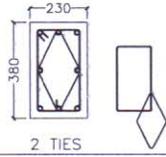
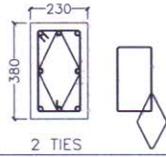
Name of work :  
PROVIDING ADDITIONAL ACCOMODATION FOR  
AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS  
(VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)

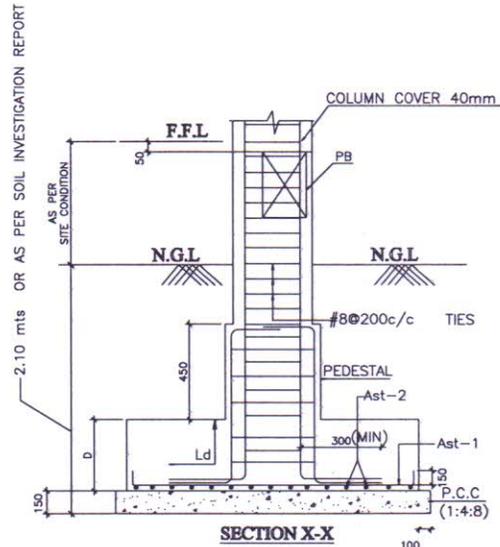
Drg. Title : COLUMN & FOOTING LAYOUT

Drg.No : PR / RBK / Z III / M30 / SD / 2D

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.

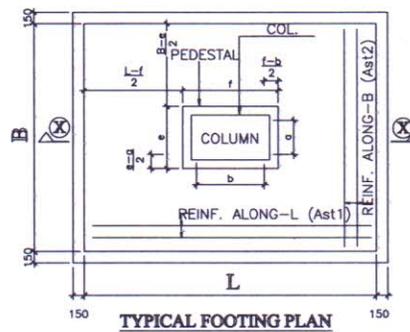
**SCHEDULE OF COLUMNS**

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



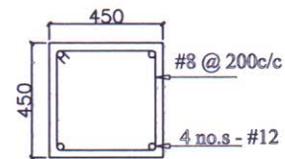
**SCHEDULE OF FOOTINGS FOR SBC -200 KN/M<sup>2</sup>**

Footng Group	Mix	Footng Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	1150 x 1150	275	Y 10- 7 Nos	Y 10- 7 Nos
F2	M30	1450 x 1450	325	Y 12- 8 Nos	Y 12- 8 Nos
F3	M30	1750 x 1750	400	Y 12- 11 Nos	Y 12- 11 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE		AT OTHER THAN 1,2,&3		
			if column is tied from				
1	230 x 380	10mm @ 75c/c	less than 4 sides	all the 4 sides	8mm @ 115c/c		
			1	2		3	4
			10mm @ 75c/c	10mm @ 75c/c		10mm @ 125c/c	8mm @ 115c/c



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

**NOTES:**

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

//APPROVED//

Sd/-

Chief Engineer, PR - II

Vijayawada.

// TRUE COPY //

*B. B. Srinivasulu*  
Dy. Executive Engineer, PR (Designs)

05/05/20

Radial Distance Up To 50 Km From Coast line

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

NAME OF WORK :

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

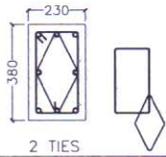
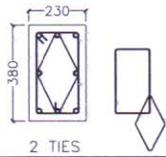
Drg. Title : COLUMN & FOOTING SCHEDULE

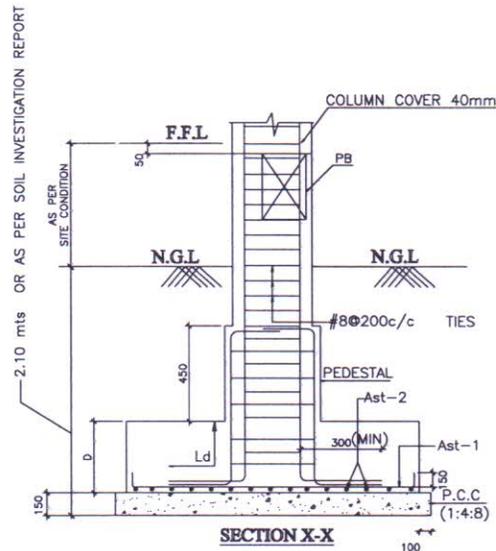
Drg.No : PR / RBK / Z III / M30 / SD / 3D

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



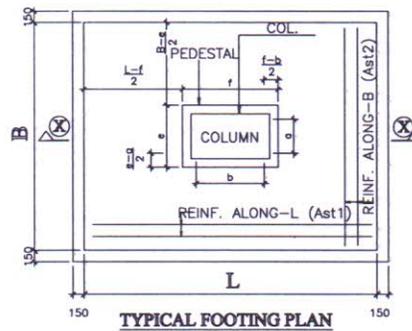
**SCHEDULE OF COLUMNS**

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



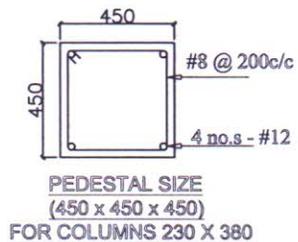
**SCHEDULE OF FOOTINGS FOR SBC -250 KN/M<sup>2</sup>**

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M30	1050 x 1050	275	Y 10- 6 Nos	Y 10- 6 Nos
F2	M30	1300 x 1300	300	Y 12- 7 Nos	Y 12- 7 Nos
F3	M30	1550 x 1550	375	Y 12- 9 Nos	Y 12- 9 Nos



**SPACING OF COLUMN TIES & LINKS IN JOINT & JOINT FACE ZONE**

SNO:	COLUMN SIZE	JOINT FACE ZONE	JOINT ZONE		AT OTHER THAN 1,2,&3	
			if column is tied from			
			less than 4 sides	all the 4 sides		
			1	2	3	4
1	230 x 380	10mm @ 75c/c	10mm @ 75c/c	10mm @ 125c/c	8mm @ 115c/c	



**NOTES :**

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

// APPROVED //

Sd/-

Chief Engineer, PR - II

Vijayawada.

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)

05/05/20

Radial Distance Up To 50 Km From Coast line

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

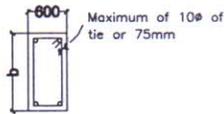
**NAME OF WORK :**

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

Drg. Title : COLUMN & FOOTING SCHEDULE

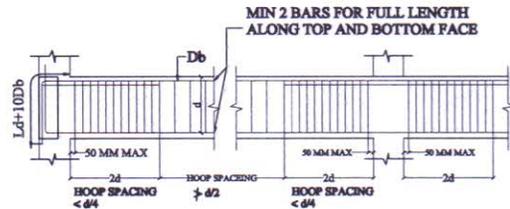
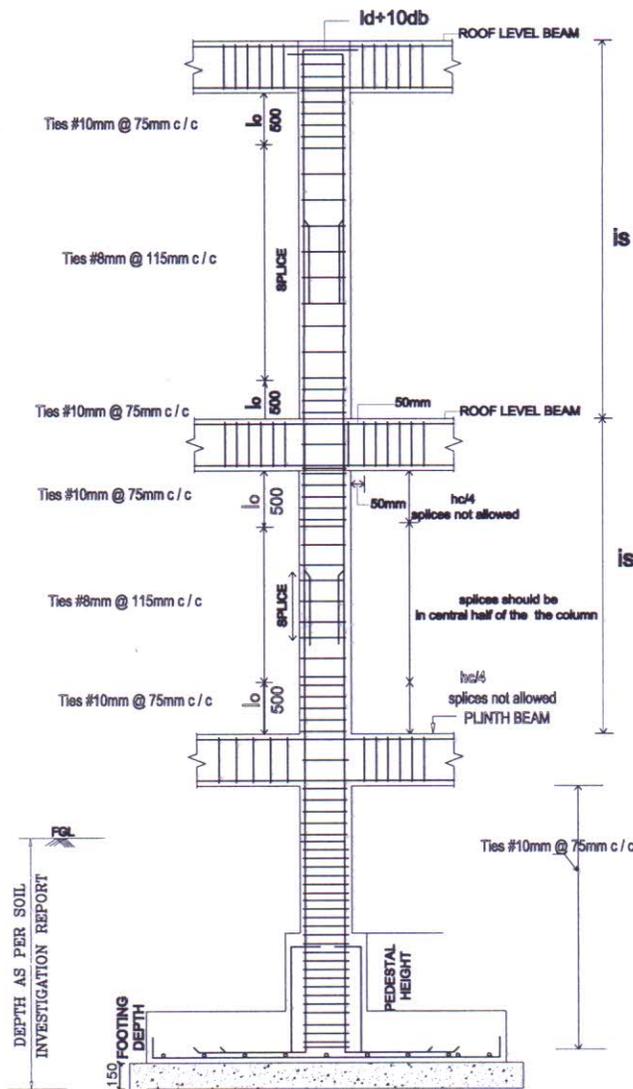
Drg.No : PR / RBK / Z III / M30 / SD 3E

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**SECTION 1-1**  
**(NOTE NO.16)** db = dia of bar

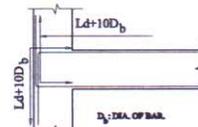
REQUIREMENT OF SPECIAL CONFINING REINF. IN BEAMS	
BEAM SIZE	2d
230X380	690
230X425	780
230X505	940



**TYPICAL L/S OF BEAM REINFORCEMENT**

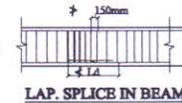
**3600**  
is floor to floor height

- Db - DIA OF BAR
- d - EFFECTIVE DEPTH OF BEAM
- Leff - Center to Center distance of Columns



**ANCHORAGE OF BEAM BARS IN EXTERNAL JOINT**

**3600**  
is floor to floor height



**LAP SPLICE IN BEAM**



**TYP TIE EXTENSION**

**SPACING OF TIES AND LINKS- DUCTILE REQUIREMENTS**

- ⇒ **JOINT FACE ZONE:**
- 1.  $L_e = 450\text{MM}$  (OR)  $l/6$  (OR)  $l/4$  (LARGER LATERAL DIMENSION OF COLUMNS) WHICH EVER IS GREATER
- 2. **JOINT ZONE IS THE JUNCTION OF BEAM PORTION WITH COLUMN.**  
GRADE OF CONCRETE - M25  
GRADE OF STEEL - Fe 500

//APPROVED//

Sd/-  
Chief Engineer, PR - II  
Vijayawada.

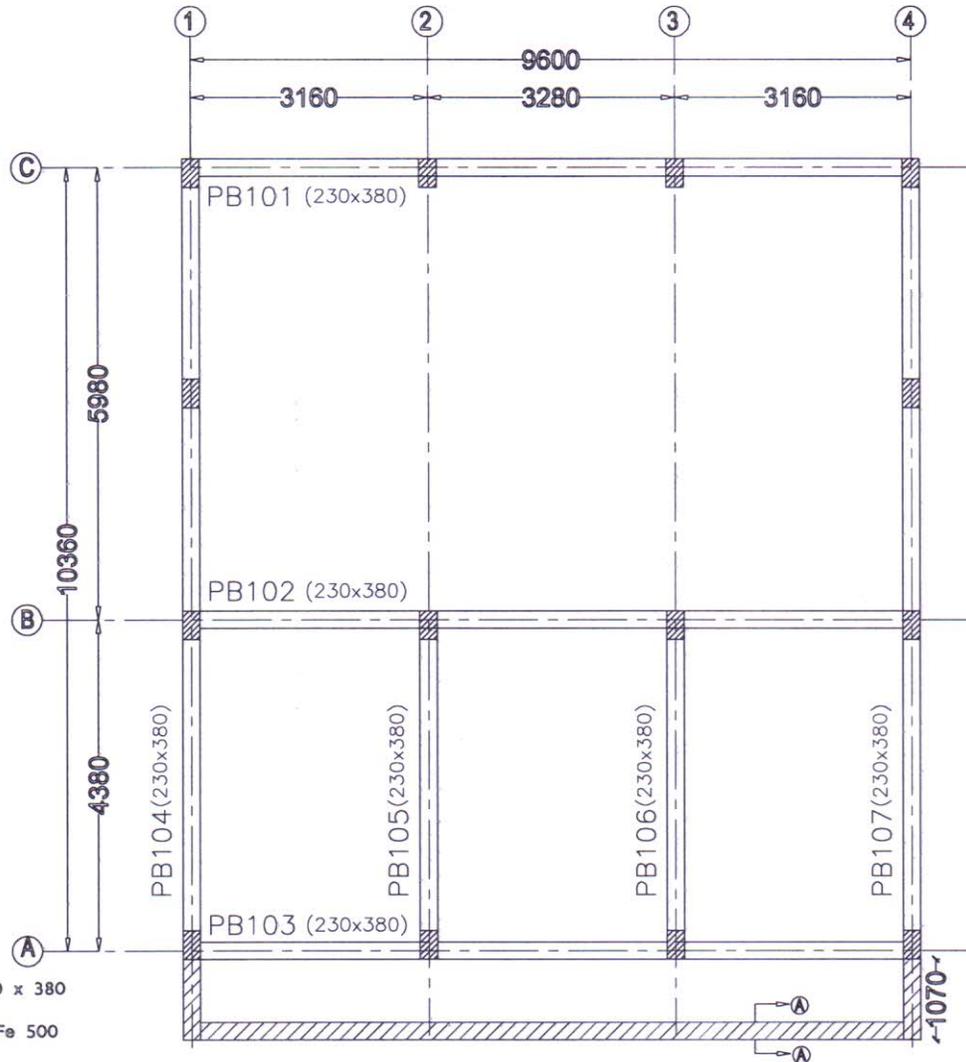
// TRUE COPY //  
Dy. Executive Engineer, PR (Designs)  
08/05/20

**PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTINGS & COLUMN AND JOINT DETAILING**  
**( COLUMN TIED FROM LESS THAN FOUR SIDES )**  
**( COLUMNS 230 x 380 )**

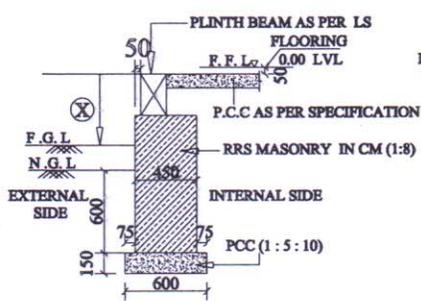
Seismic Zone III , Grade of Concrete : M30, Steel Grade : Fe500

**DUCTILE REINFORCEMENT DETAILING**

NAME OF WORK :	PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP& VILLAGE KNOWLEDGE CENTER)
Dwg. Title :	TYPE DESIGN ZONE III & M30 DUCTILE DETAILING
Dwg.No :	PR/RBK/Z/III/M30 / SD / 3F
PANCHAYATI RAJ ENGINEERING DEPARTMENT VJAYAWADA.	



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

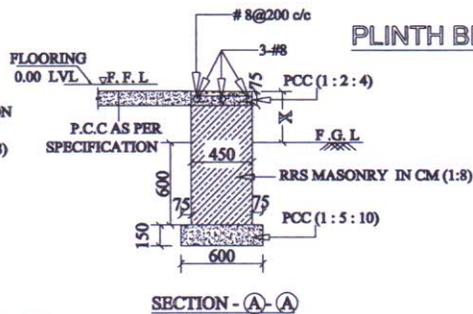


TYPICAL EXTERNAL PLINTH BEAM (EPB) DETAILS

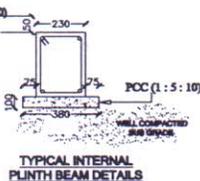
⊗ VARIABLE AS PER SITE CONDITIONS  
 TO A MAXIMUM OF 600 mm

Radial Distance Up To 50 Km From Coast line

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



PLINTH BEAM LAYOUT



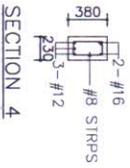
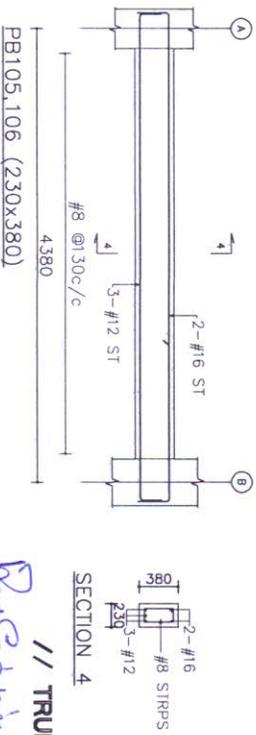
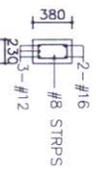
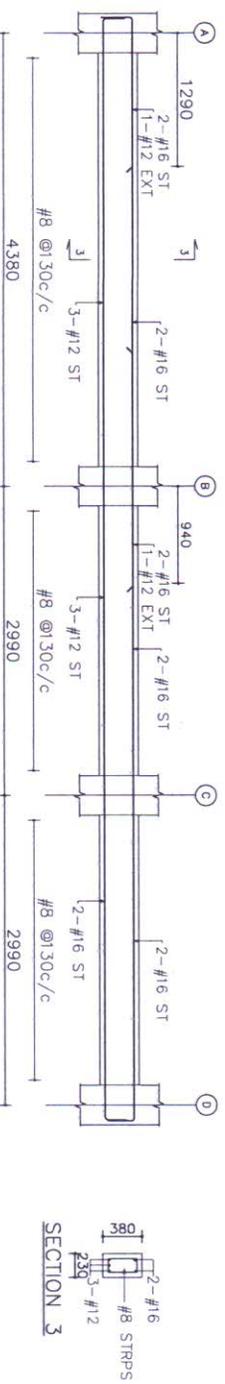
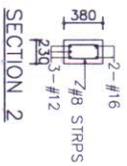
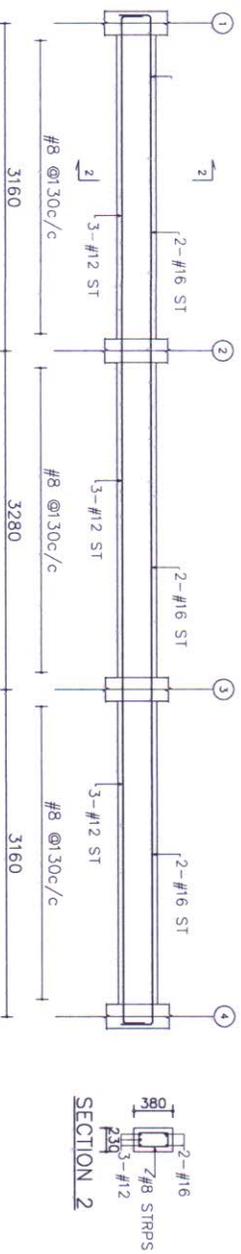
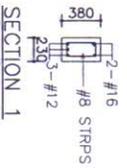
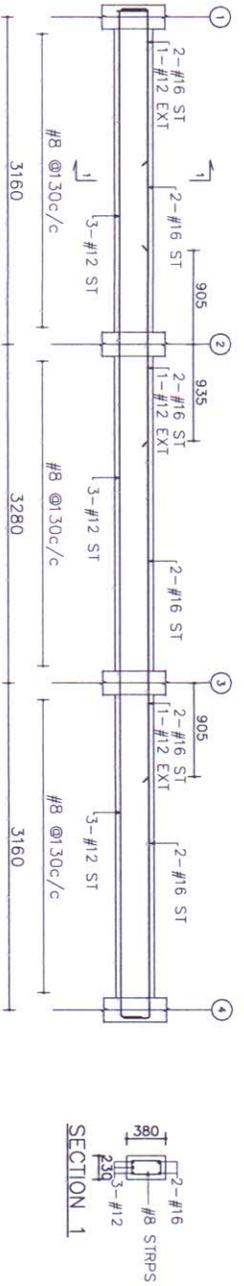
TYPICAL INTERNAL PLINTH BEAM DETAILS

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

// TRUE COPY //  
 Dy. Executive Engineer, PR (Designs)

05/05/20

Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)	
Drg. Title :	PLINTH BEAM LATOUT
Drg. No :	PR/RBK/Z III/M30/SD/4
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



// TRUE COPY //

Dy. Executive Engineer, PR (Designs)

05/05/20

Radial Distance Up To 50 Km From Coast line

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

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

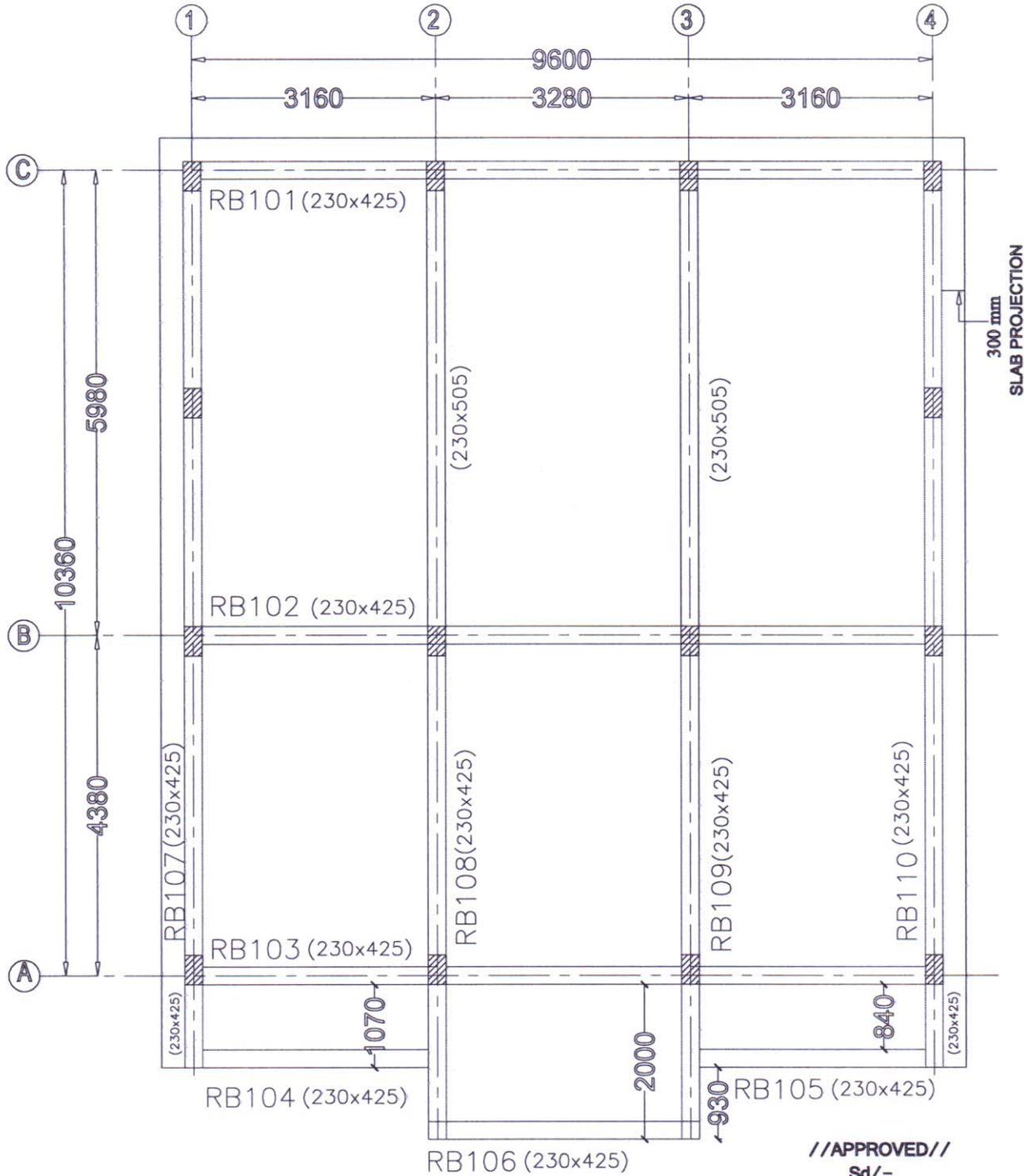
Name of work :

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

Dwg. Title : PLINTH BEAM DETAILS

Dwg. No : PR/RBK/Z/III/M30/SD/5

PANCHAYATI RAJ ENGINEERING DEPARTMENT  
VIJAYAWADA.



**ROOF BEAM LAYOUT**

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

**NOTES :**

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

**// TRUE COPY //**

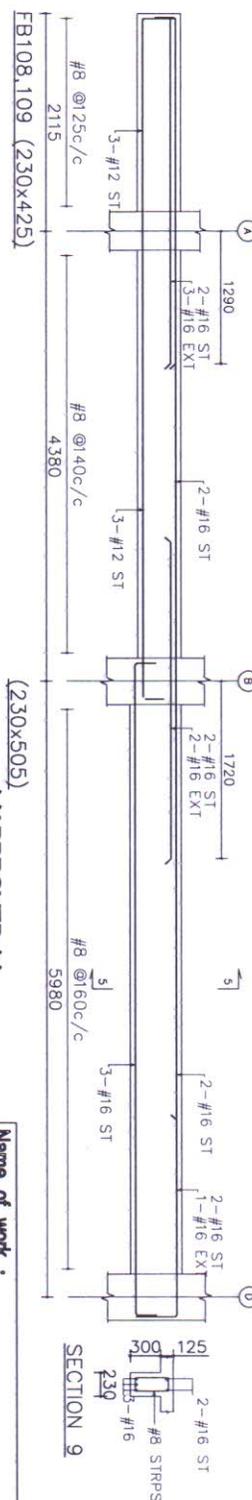
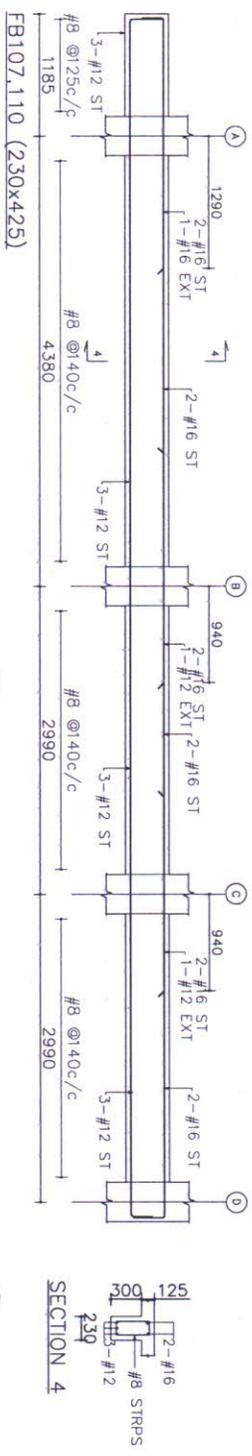
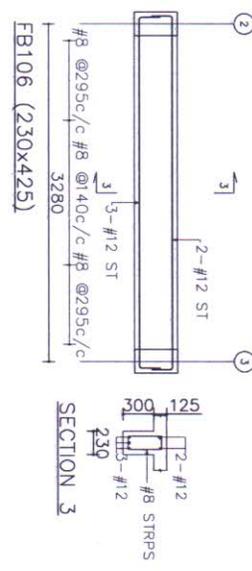
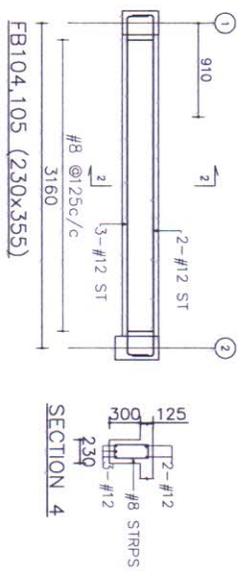
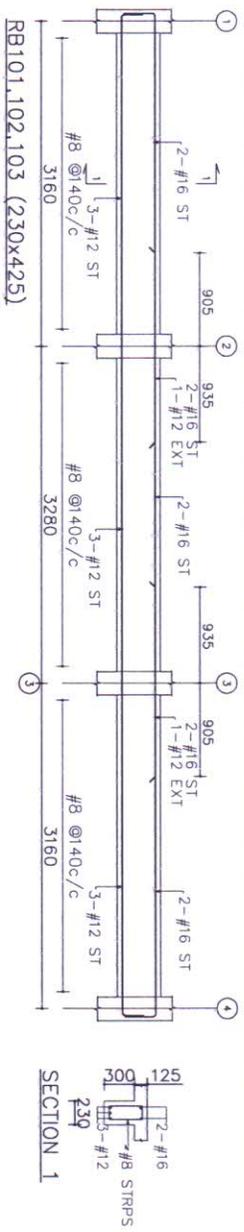
*R. Srinivas*  
**Dy. Executive Engineer, PR (Designs)**

*05/05/20*

Radial Distance Up To 50 Km From Coast line

Seismic Zone III , Grade of Concrete : M30, 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 III/M30/SD/6
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



**// APPROVED //**  
 Sd/-  
 Chief Engineer, P.R - II  
 Vijaywada.

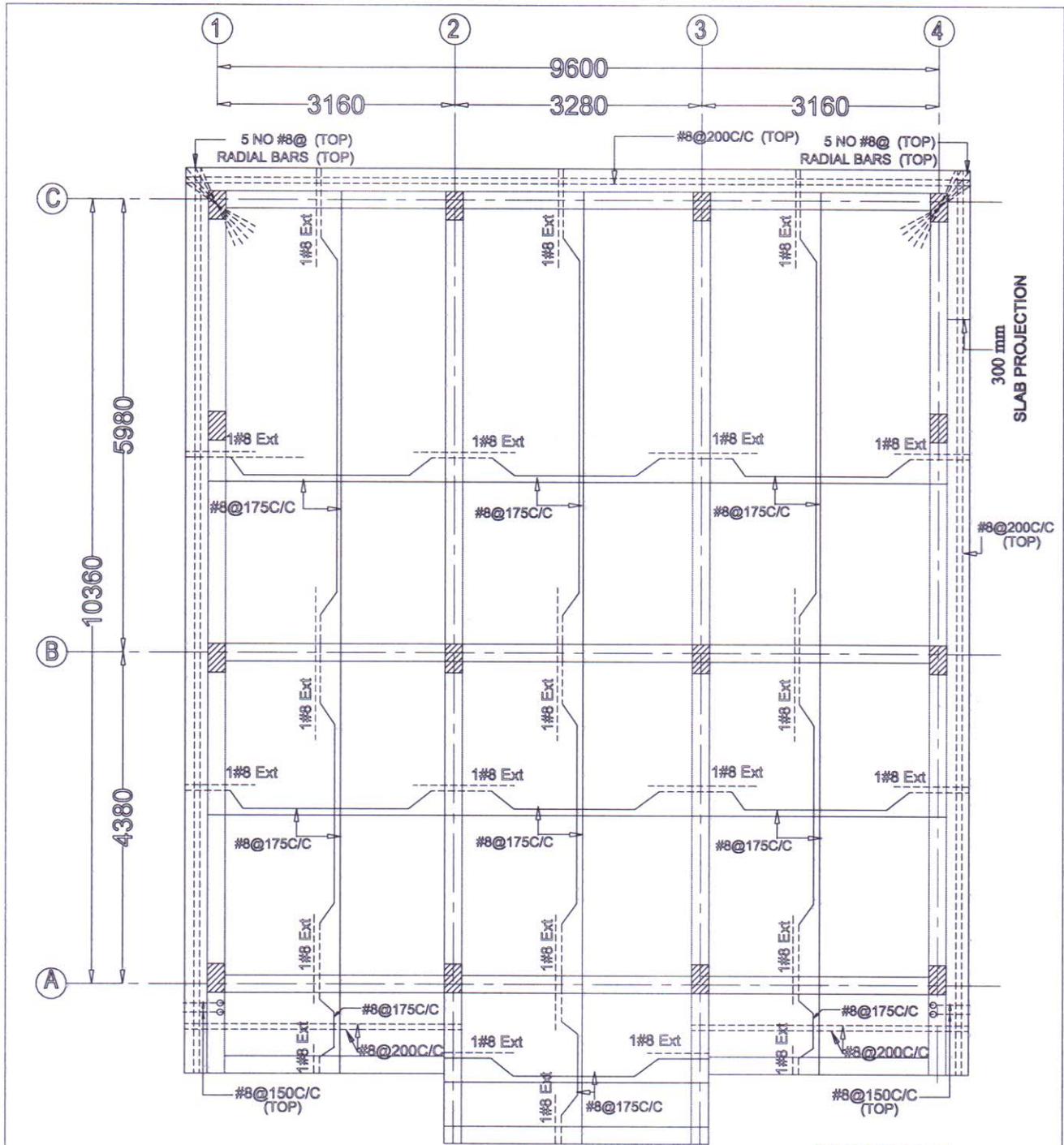
**// TRUE COPY //**

Dy. Executive Engineer, P.R (Designs)

Radial Distance Up To 50 Km From Coast line

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

Name of work :	
PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)	
Dtg. Title :	ROOF BEAM DETAILS
Dtg. No. :	PR/RBK/Z III/M30/SD/7
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



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

**ROOF SLAB DETAILS**

NOTE: All Slabs are 125 mm thickness uniform

// TRUE COPY //  
*R. Srinivas*  
 Dy. Executive Engineer, PR (Designs)  
 05/05/20  
 Radial Distance Up To 50 Km From Coast line  
 Seismic Zone III, Grade of Concrete : M30, Steel Grade : Fe500

Name of work :	PROVIDING ADDITIONAL ACCOMODATION FOR AGRICULTURE STAFF IN GRAMA SACHIVALAYAMS (VILLAGE INPUT SHOP & VILLAGE KNOWLEDGE CENTER)
Drg. Title :	ROOF SLAB DETAILS
Drg. No :	PR/RBK/Z III/M30/SD/8
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	