

**Government of Andhra Pradesh
Panchayatiraj Engineering Department
Office of the Chief Engineer, Vijayawada**

Memo.No. AEE/ DEE / Village Clinic/M- 30 & 25 /Z- II & III / 2020, Dt: 26 .06.2020

Sub: PR Dept- Designs- " Providing additional accommodation for Health Staff in Grama Sachivalayam –Wellness centre / Construction of Sub centre (Dr. Y.S. R .Village clinic)" - Copies of approved Structural -(M-25,M-30 for Z-II & Z-III), Safe Bearing Capacities of 50/75/100/150/200/250 kN/m² - communicated – Reg.

Ref:1 Lr No: AR-50/APMSIDC/ HO/SA / 2020 -21 Dt:18/06/2020 of the Managing Director , APMSIDC ,Mangalagiri , Guntur Dist..
2.T/o Memo.No :AEE/DEE/Wellness/M-25 /Z- II & III / 2020, Dt: 29 .04.2020, 05/05/2020
3.T/o Circular. memo no:AEE/DEE (D)/bridges /soil test report/ 2016 Dt 13.06.2016

The copies of list of the approved Structural drawings for the work ""Providing additional accommodation for Health Staff in Grama Sachivalayam –Wellness centre / Construction of Sub centre (Dr. Y.S. R .Village clinic)" - for Coastal & Non coastal regions with Grade of concrete M-30& M-25 respectively, Seismic Zone-II & Zone-III, foundations with Safe Bearing Capacity of 50 / 75 /100 /150 /200/250 kN/m²are here with communicated to all the Superintending Engineers, PR ,Andhra Pradesh for guidance during execution . The Structural Drawings communicated vide reference 2nd cited., is superseded and are valid for the works already grounded only. For all new grounded works structural drawings communicated herewith shall be followed.

The building is designed for G+1 floors only. Floor to Floor height is considered as 3.3m . The structural drawings covers the details of Individual Footings, Columns, Pedestals, Plinth beams , Ground Floor Roof beams & Roof slab, as per the Architectural plan.

The Superintending Engineers are directed to identify the seismic zone in which the building comes and radial distance from the sea coast and communicate the respective structural drawings to the Executive Engineers. The footing drawings are to be adopted as per the recommendations in the soil investigation report, which is to be carried out by a reputed institute as mentioned in reference 3rd cited.

Further if any discrepancy observed in structural drawings same shall be informed to this office for redesign.

Encl:

List :1 (Z-II,M25 , Fe-500) - 22 Drgs(Radial Distance morethan 50km)
List :2 (Z-III,M25 , Fe-500) – 23 Drgs(Radial Distance morethan 50km)
List :3 (Z-II,M30 , Fe-500))- 22 Drgs(Radial Distance upto 50km)
List :4 (Z-III,M30 , Fe-500) – 23 Drgs(Radial Distance upto 50km)
with SBC 50,75,100,150,200,250Kn/m²)

Sd/-
Chief Engineer,PR-II
Vijayawada

To
All the Superintending Engineers , P.R, in the State.
Copy to the Executive Engineer,, O/o of The Chief Engineer ,PR- II,Vijayawada

// t.c.f.b.o //

 26/06/2020
Dy.Executive Engineer, PR-Designs

26/6/20'

List-1

**Seismic Zone-II, Grade of Concrete –M25, Grade of steel – Fe500,
Safe Bearing Capacity of soil for 50/75/ 100 / 150 / 200/250 kn/m2.**

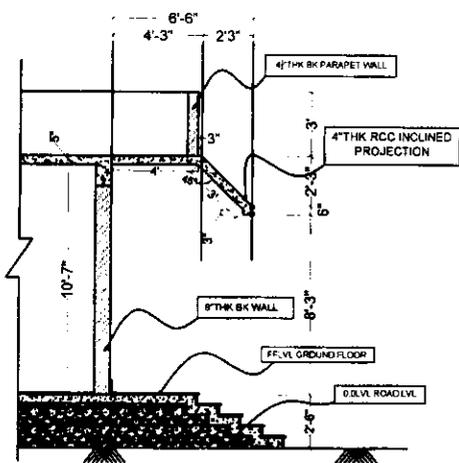
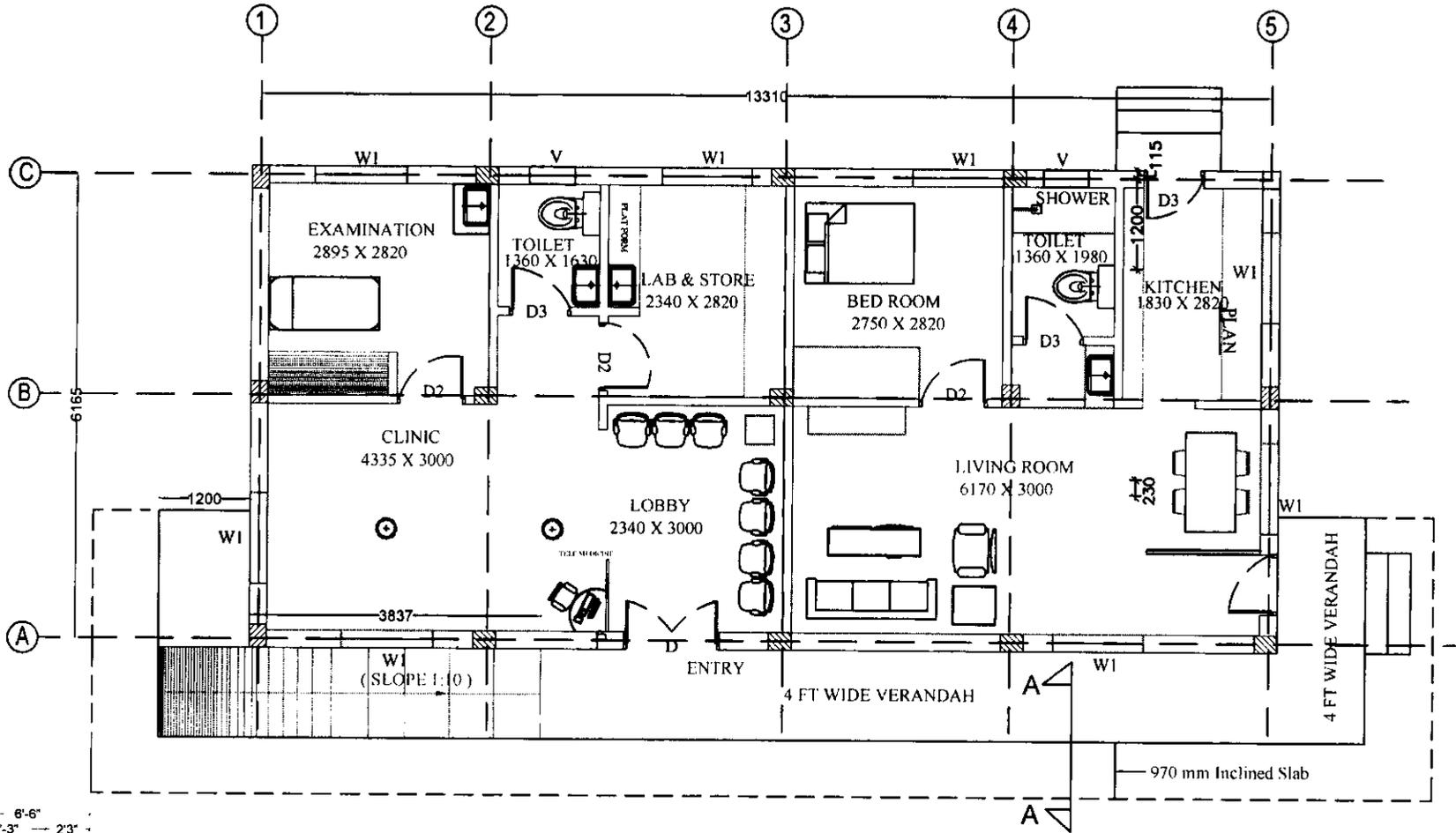
no	Drawing no	Description
1	PR/ Village Clinic /AR/01,	Architectural plan for Ground Floor.
2	PR/ Village Clinic /ZII/ M25/ Gen/01	General Notes
3	PR/ Village Clinic /ZII/M25/SD/01	Column Centerline Layout
4	PR/ Village Clinic / ZII/M25/ SD/2A	Column&Footing Layout forSBC 50Kn/m2
5	PR/ Village Clinic /ZII/M25/ SD/3A	Column & Footing Schedule for SBC 50 Kn/m2
6	PR/ Village Clinic / ZII/M25/ SD/2B	Column & Footing Layout for SBC 75Kn/m2
7	PR/ Village Clinic /ZII/M25/ SD/3B	Column & Footing Schedule for SBC 75 Kn/m2
8	PR/ Village Clinic / ZII/M25/ SD/2C	Column & Footing Layout for SBC 100Kn/m2
9	PR/ Village Clinic /ZII/M25/ SD/3C	Column & Footing Schedule for SBC 100 Kn/m2
10	PR/ Village Clinic /ZII/M25/ SD/2D	Column & Footing Layout for SBC 150Kn/m2
11	PR/ Village Clinic /ZII/M25/ SD/3D	Column & Footing Schedule for SBC 150 Kn/m2
12	PR/ Village Clinic /ZII/M25/ SD/2E	Column & Footing Layout for SBC 200Kn/m2
13	PR/ Village Clinic /ZII/M25/ SD/3E	Column & Footing Schedule for SBC 200 Kn/m2
14	PR/ Village Clinic /ZII/M25/ SD/2F	Column & Footing Schedule for SBC 250 Kn/m2
15	PR/ Village Clinic /ZII//M25/ SD/3F	Column & Footing Schedule for SBC 250 Kn/m2
16	PR/ Village Clinic /ZII/M25/ SD/04	Plinth beam layout .
17	PR/ Village Clinic /ZII/M25/ SD/05	Plinth beam Details.
18	PR/ Village Clinic /ZII/M25SD/06	Ground Floor Roof beam Layout
19	PR/ Village Clinic /ZII/M25/ SD/07	Ground Floor Roof beam details.
20	PR/ Village Clinic /ZII/M25/ SD/08	Ground Floor Roof slab details.

GENERAL NOTES

- 1 ALL DIMENSIONS ARE IN METERS THE DIMENSIONS ARE TO BE READ AND NOT SCALED OR MEASURED FROM THE DRAWINGS
- 2 ALL STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHALL BE READ JOINTLY WITH THE ARCHITECTURAL DRAWINGS IN ORDER TO ESTABLISH A COMPLETE LIST OF WORKS
- 3 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS, SPECIFICATIONS & SITE CONDITIONS & SHALL REPORT ANY ERROR, OMISSION AND/OR ANOMALY TO THE ARCHITECT BEFORE COMMENCEMENT OF WORK
- 4 FOR CONSTRUCTION PURPOSES THE DIMENSIONS SHALL NOT BE MEASURED DIRECTLY ON THE DRAWINGS. THE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL THEY ARE ISSUED AS GOOD FOR CONSTRUCTION
- 5 ALL DOOR AND WINDOW OPENINGS SHALL BE VERIFIED AS PER SCHEDULE. FURNITURE AND FIXTURES SHOWN ARE INDICATIVE ONLY. MATERIALS TO BE GIVEN AS PER SPECIFICATIONS PLEASE REFER RESPECTIVE DETAIL DRAWINGS AND SCHEDULES
- 6 ALL FLOORING TO BE AS PER SPECIFICATIONS
- 7 IN TOILET'S FLOOR SHALL BE KEPT 25MM LOWER THAN MAIN PORTION
- 8 CONTRACTOR TO ENSURE COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND CONTINUOUS PROTECTION OF ALL PERSONNEL ON SITE

SPECIFICATIONS

- DOORS -** medium teak wood doors with 30mm flush shutters
- D - 1200x2100mm
 - D1 - 1000x2100mm
 - D2 - 900x2100mm
 - D3 - 800x2100mm
- WINDOWS -** PREPAINTED STEEL 2 track sliding windows
- W1 - 1200x1200mm
 - W2 - 1200x900mm
- VENTILATORS -** pre-painted steel fixed louvered ventilators
- V - 800x500mm



SECTION A-A

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

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)
 26/06/2020
 26/6/20.

Name of work :	" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" Wellness Center / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	PLAN
Drg.No :	PR / Village Clinic / 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/M². ENSURE SAFE BEARING CAPACITY & DEPTH OF FOUNDATION SHOULD BE CONSIDERED AS PER THE SOIL INVESTIGATION REPORT AT THE PROPOSED SITE.
- USE VIBRATED REINFORCED CONCRETE CONFIRMING TO IS : 456-2000. THE GRADES FOR DIFFERENT COMPONENTS ARE AS FOLLOWS

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

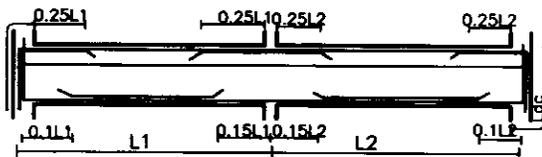
- GRADE OF STEEL SHALL BE Fe500. EXCEPT WHEREVER INDICATED.
* IT SHOULD BE ENSURED THAT THE ABOVE STEEL IS PRODUCED BY THERMOMECHANICAL TREATMENT PROCESS, HAVING ELONGATION MORE THAN 14.5% AND CONFIRMING TO IS 1786-85 & ITS AMENDMENTS
- CONCRETE LAID IN THE FORM WORK SHALL INVARIABLY VIBRATED TO OBTAIN MAX. DENSITY AND COMPACTION.
- PROVISIONS MADE IN IS 456-2000, ANDSP 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	49 Dia Tension / 39 Dia Compression

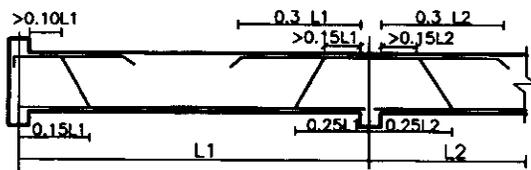
- NOT MORE THAN 50% OF COLUMN REINFORCEMENT SHALL BE LAPPED AT A PARTICULAR LOCATION.
- CLEAR COVERS ARE AS FOLLOWS

FOOTING TO MAIN BAR	PEDESTAL TO STRIRUPS	COLUMN TO STRIRUPS	BEAMS TO STRIRUPS	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.
- STIRUPS 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

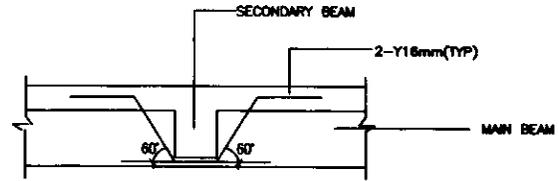


TYPICAL DETAILS OF A SLAB

IMPORTANT NOTE:

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

- 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 G.F+1 STOREYS AND FOR BASIC WIND SPEED 50 m/s AND FOR SEISMIC ZONE -II
- FLOOR TO FLOOR HEIGHT IS CONSIDERED AS 3.30m
- 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##

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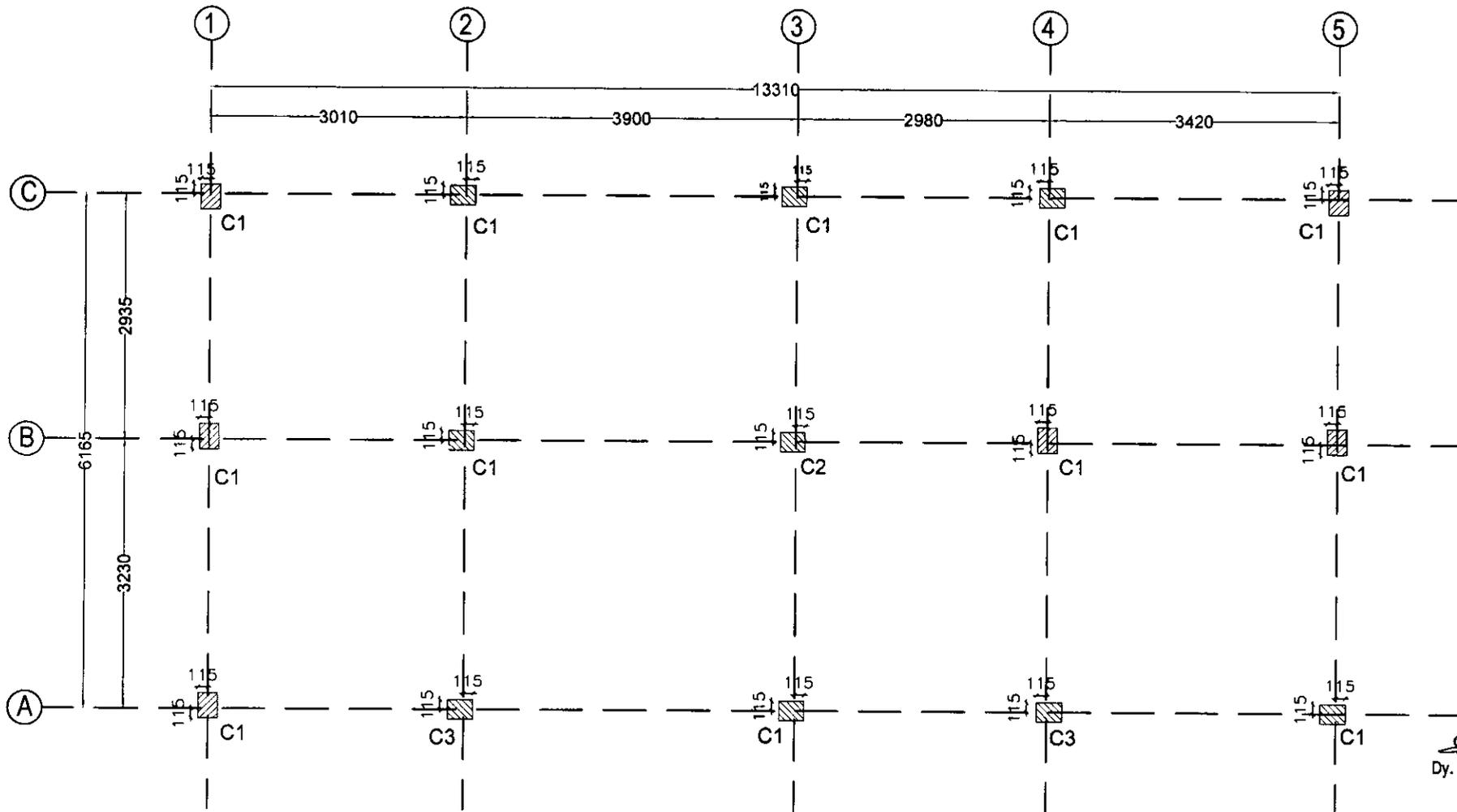
Chief Engineer, PR - II
Vijayawada.

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Dy. Executive Engineer, PR (Designs)
26/06/20

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

NAME OF WORK :	" Providing Additional Accommodation For Health Staff in Grama Sechivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	GENERAL NOTES
Drg.No:	PR/Village Clinic/Z.II/M25 / GEN / 01
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



COLUMN CENTER LINE

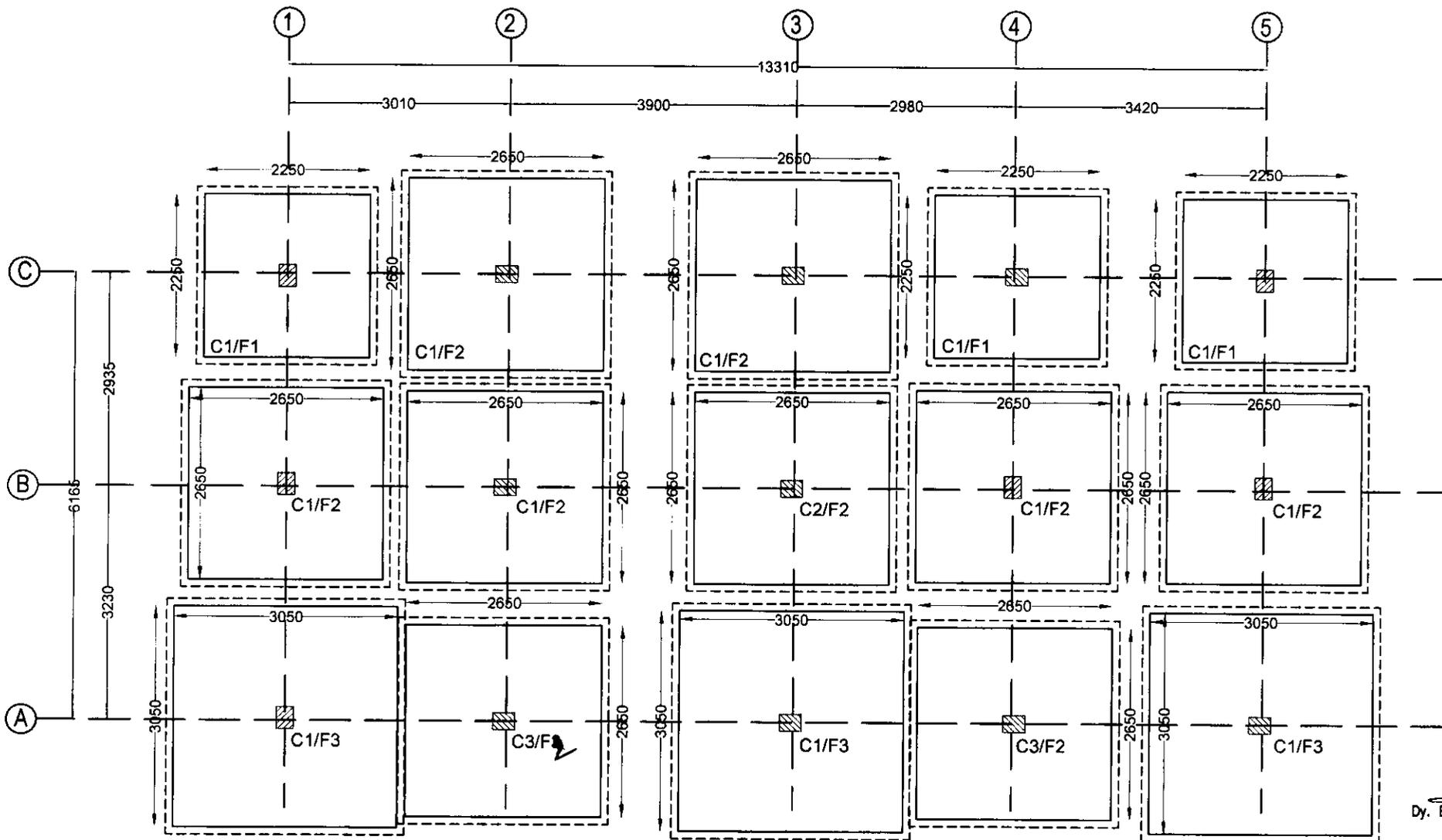
Radial Distance More Than 50 Km From Coast line

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

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 Sd/-
 Chief Engineer,PR - II
 Vijayawada.

// TRUE COPY //
[Signature] 28/06/2020
 Dy. Executive Engineer,PR (Designs)
[Signature] 26/6/20

Name of work :	
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)	
Drq. Title :	COLUMN CENTER LINE
Drq.No :	PR / Village clinic / Z II / M25 / SD / 01
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	



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Chief Engineer, PR - II
Vijayawada.

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Dy. Executive Engineer, PR (Designs)
[Signature]

SBC - 50 KN/M²

COLUMN & FOOTING LAYOUT

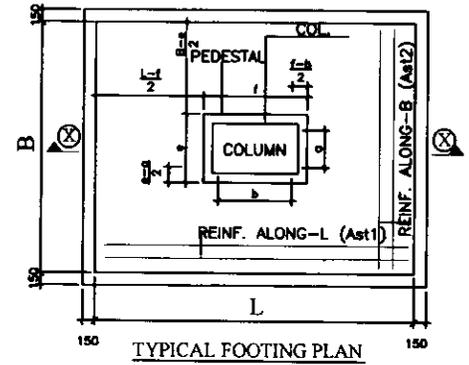
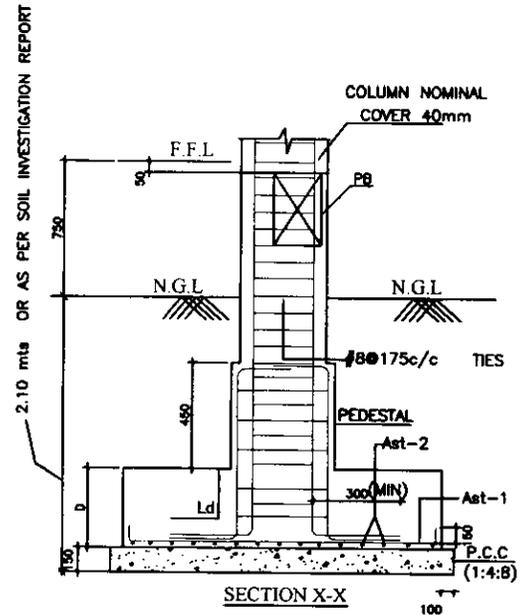
Radial Distance More Than 50 Km From Coast line

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

Name of work :	" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	COLUMN & FOOTING LAYOUT
Drg.No :	PR / Village clinic / Z II / M25 / 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	
C3	230 x 380	•8-#16mm	



SCHEDULE OF FOOTINGS FOR SBC - 50KN/M²

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	2250 x 2250	300	Y 10- 14 Nos	Y 10- 14 Nos
F2	M25	2650 x 2650	350	Y 12- 15 Nos	Y 12- 15 Nos
F3	M25	3050 x 3050	400	Y 12- 19 Nos	Y 12- 19 Nos

NOTES :

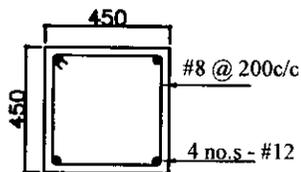
- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 50 KN/M²

//APPROVED//

Sd/-
Chief Engineer,PR - II
Vijayawada.

// TRUE COPY //

Dy. Executive Engineer,PR (Designs)
26/6/20



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 : M25, Steel Grade : Fe500

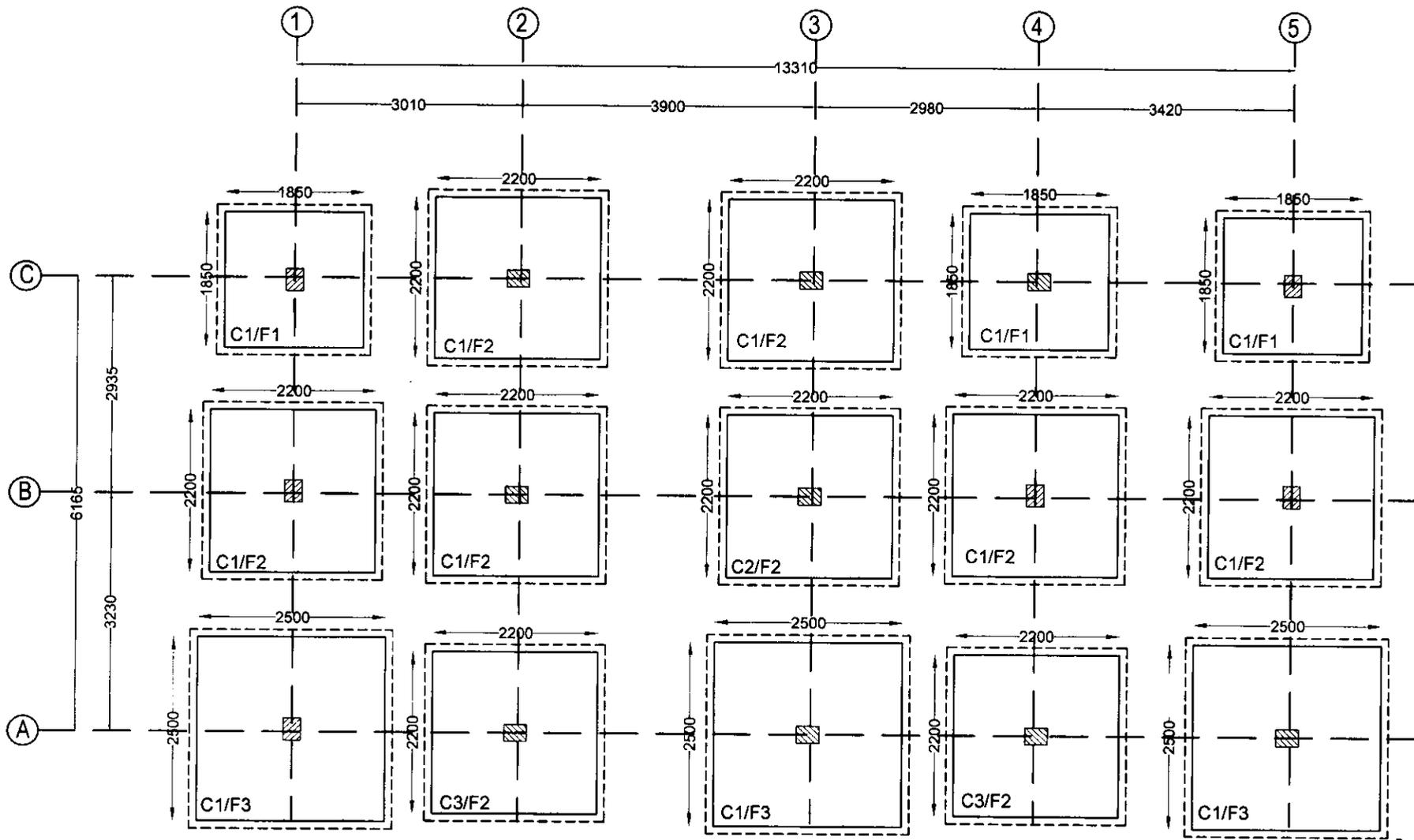
NAME OF WORK :

" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

Drg. Title : COLUMN & FOOTING SCHEDULE

Drg.No: PR / Village CLINIC / Z II / M25 / SD / 3A

PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA.



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Sd/-
Chief Engineer, PR - II
Vijayawada.

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Dy. Executive Engineer, PR (Designs)

SBC - 75 KN/M² 26/6/20

COLUMN & FOOTING LAYOUT

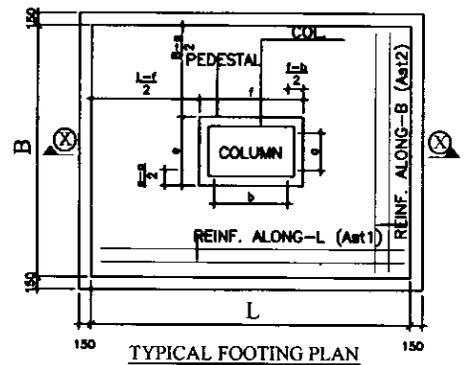
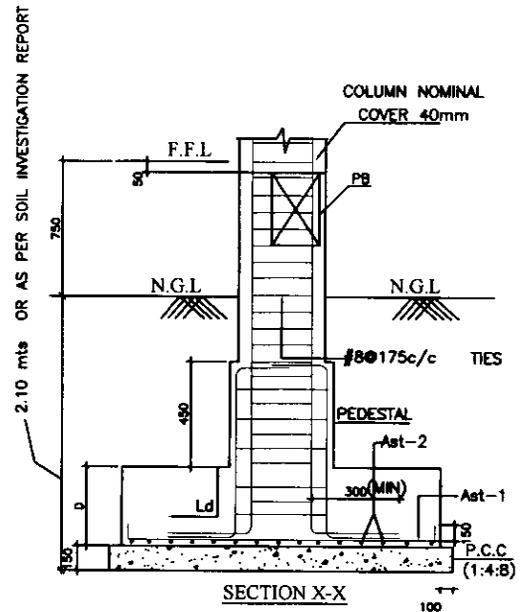
Radial Distance More Than 50 Km From Coast line

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

Name of work :	" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	COLUMN & FOOTING LAYOUT
Drg.No :	PR / Village clinic / 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	
C3	230 x 380	•8-#16mm	

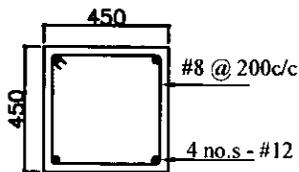


SCHEDULE OF FOOTINGS FOR SBC - 75KN/M²

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1850 x 1850	300	Y 10- 11 Nos	Y 10- 11 Nos
F2	M25	2200 x 2200	350	Y 12- 12 Nos	Y 12- 12 Nos
F3	M25	2500 x 2500	375	Y 12- 14 Nos	Y 12- 14 Nos

NOTES :

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 75 KN/M²



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 : M25, Steel Grade : Fe500

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Sd/-
Chief Engineer, PR - II
Vijayawada.

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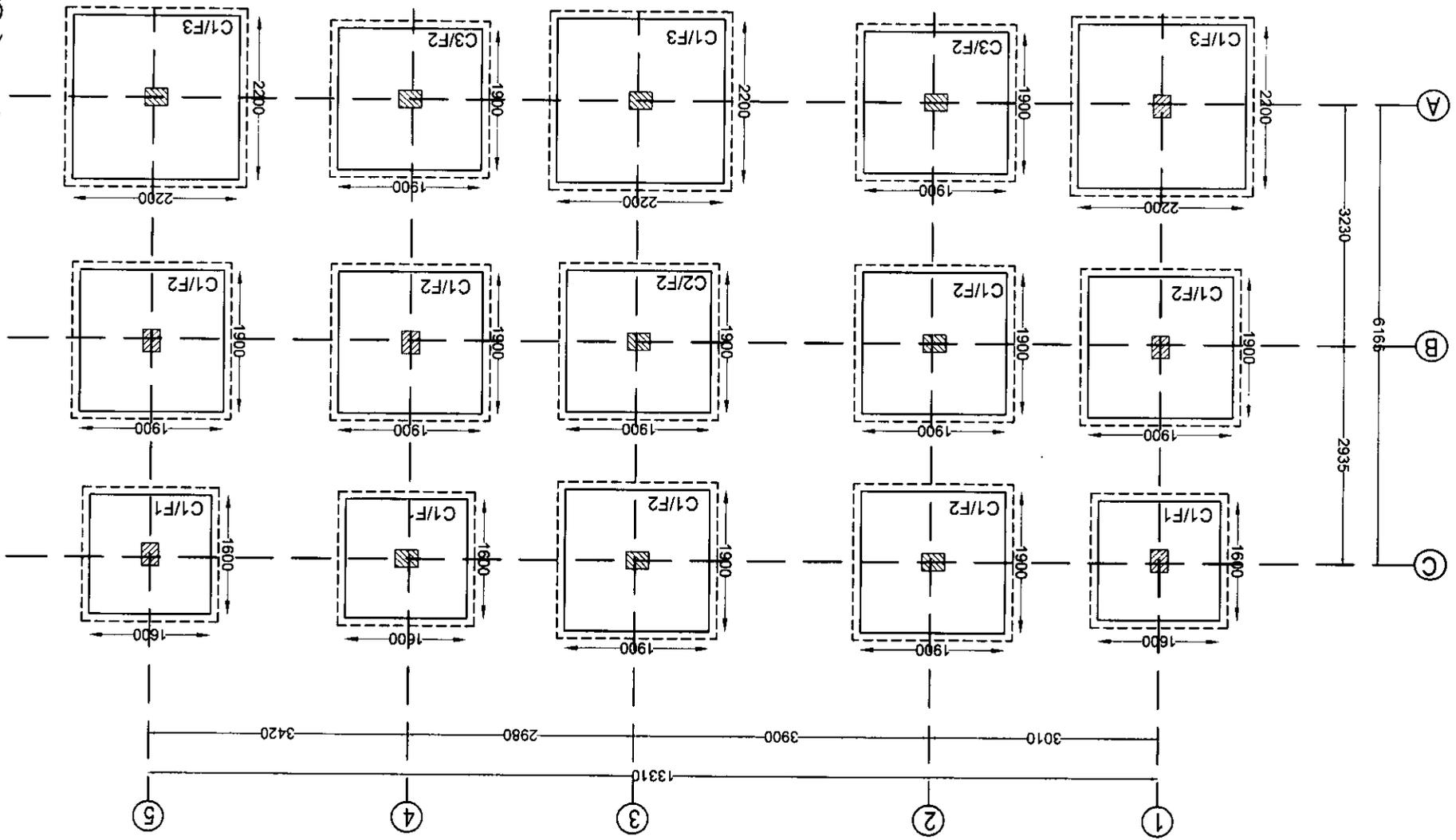
Dy. Executive Engineer, PR (Designs)
26/06/2020
26/6/20.

NAME OF WORK :
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title : COLUMN & FOOTING SCHEDULE
Drg.No : PR / Village CLINIC / Z II / M25 / SD / 3B
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.

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

Radial Distance More Than 50 Km From Coast line

COLUMN & FOOTING LAYOUT



Name of work : " Providing Additional Accommodation For Health Staff in Grama Sachivalayam " (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

Drg. Title : COLUMN & FOOTING LAYOUT

Drg.No : PR/Village clinic/Z II/M25 /SD/ZC

PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA

SBC-100 KN/M² 28/6/12

Dy. Executive Engineer, PR (Designs) 28/6/12

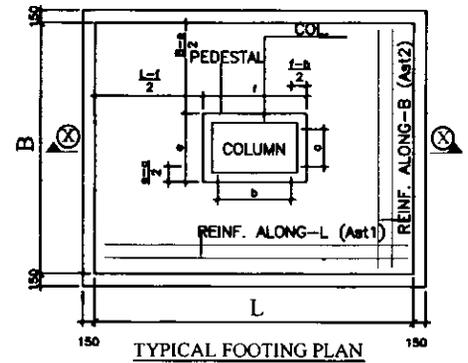
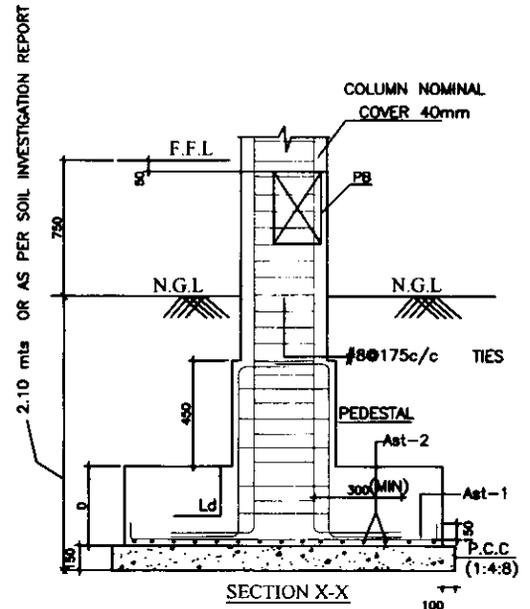
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Chief Engineer, PR - II
Sd/-
Vijayawada.

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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	
C3	230 x 380	•8-#16mm	

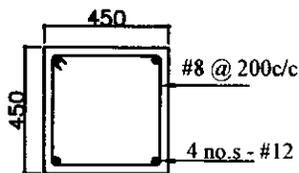


SCHEDULE OF FOOTINGS FOR SBC - 100KN/M²

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1600 x 1600	300	Y 10- 9 Nos	Y 10- 9 Nos
F2	M25	1900 x 1900	325	Y 12- 11 Nos	Y 12- 11 Nos
F3	M25	2200 x 2200	375	Y 12- 13 Nos	Y 12- 13 Nos

NOTES :

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 100 KN/M²



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 : M25, Steel Grade : Fe500

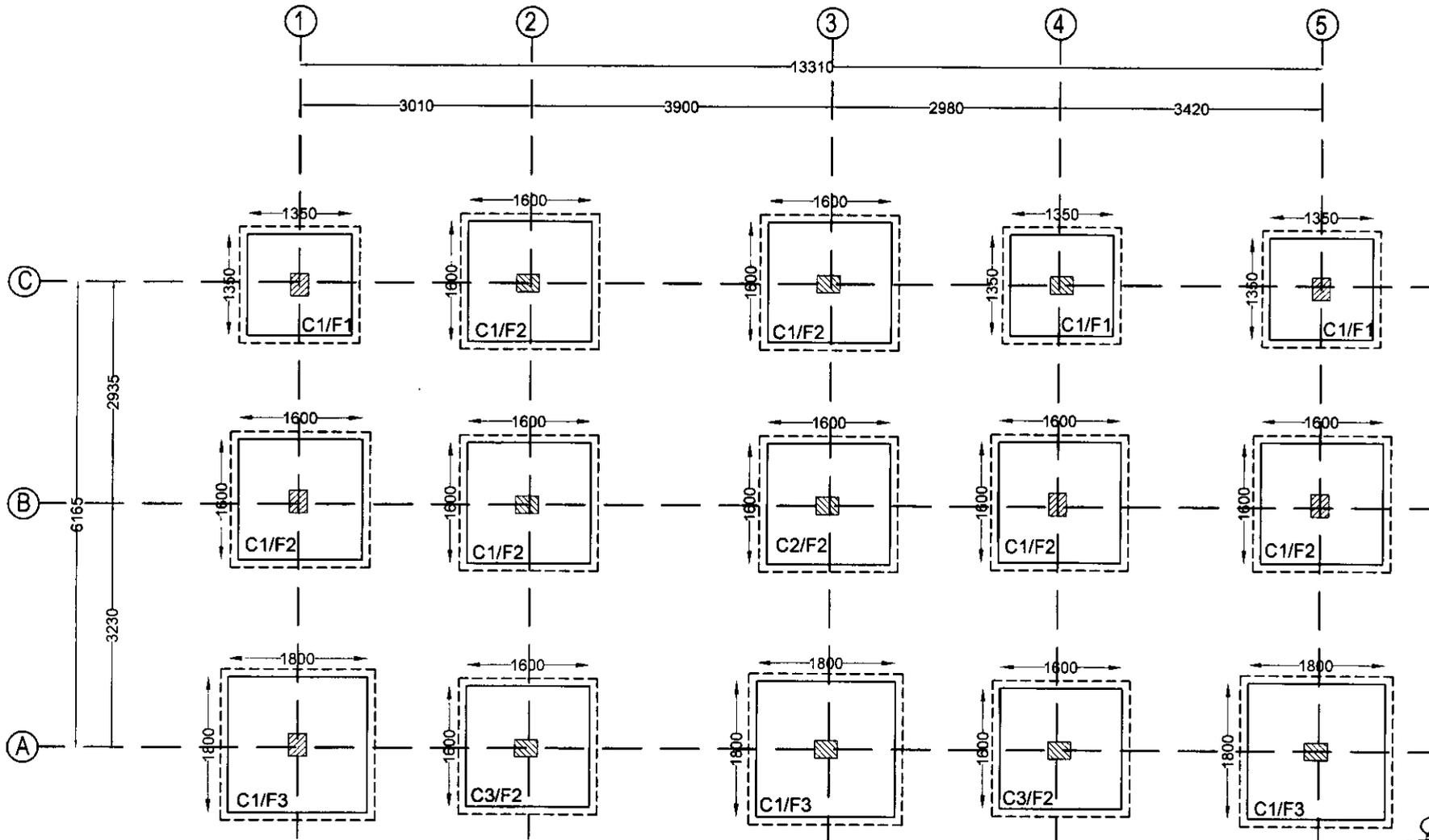
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Chief Engineer, PR - II
Vijayawada.

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Dy. Executive Engineer, PR (Designs)
26/6/20.

NAME OF WORK :
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title : COLUMN & FOOTING SCHEDULE
Drg.No: PR / Village CLINIC / Z II / M25 / SD / 3C
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.



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Sd/-
Chief Engineer, PR - II
Vijayawada.

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[Signature] 22/06/2020
Dy. Executive Engineer, PR (Designs)

SBC -150 KN/M²

COLUMN & FOOTING LAYOUT

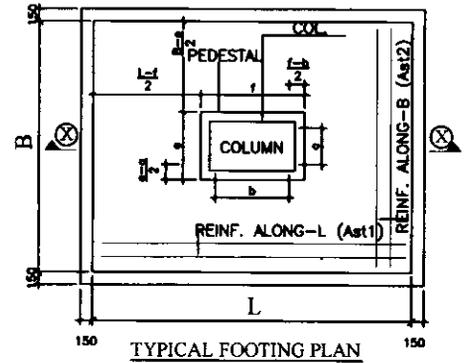
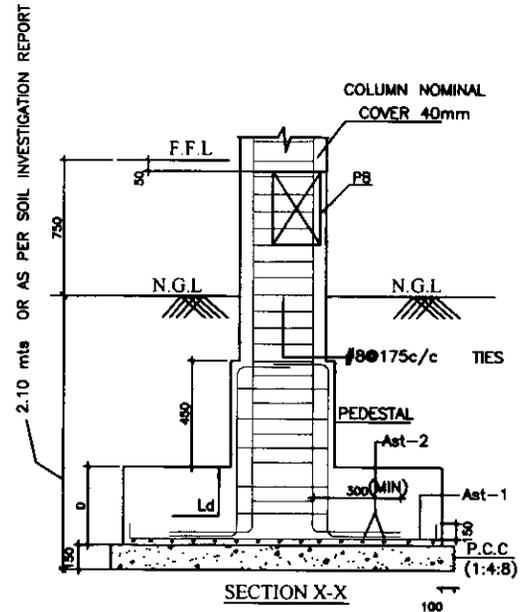
Radial Distance More Than 50 Km From Coast line

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

Name of work :	
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)	
Drg. Title : COLUMN & FOOTING LAYOUT	
Drg.No :	PR / Village clinic / Z II / M25 / 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	
C3	230 x 380	•8-#16mm	

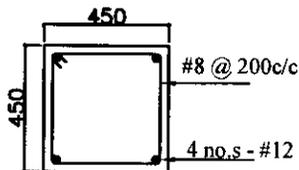


SCHEDULE OF FOOTINGS FOR SBC - 150KN/M²

Footing Group	Mix	Footing 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	1600 x 1600	325	Y 12- 10 Nos	Y 12- 10 Nos
F3	M25	1800 x 1800	375	Y 12- 11 Nos	Y 12- 11 Nos

NOTES :

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 150 KN/M²



**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 : M25, Steel Grade : Fe500

//APPROVED//

Sd/-

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

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)
26/06/2020
26/6/20

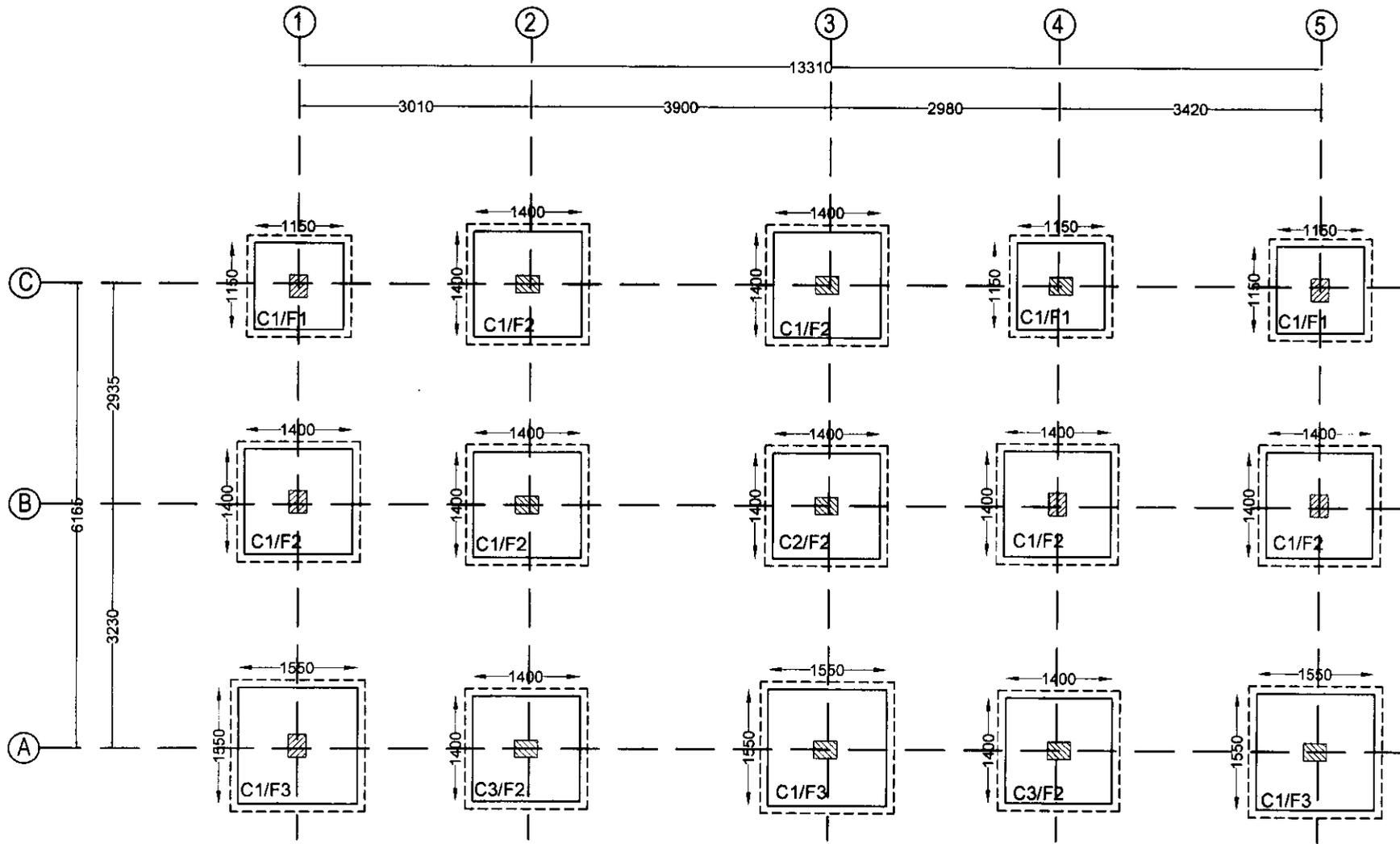
NAME OF WORK :

" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

Drg. Title : COLUMN & FOOTING SCHEDULE

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

PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA.



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

// TRUE COPY //

[Signature]
Dy. Executive Engineer, PR (Designs)
26/6/20
SBC - 200 KN/M²

COLUMN & FOOTING LAYOUT

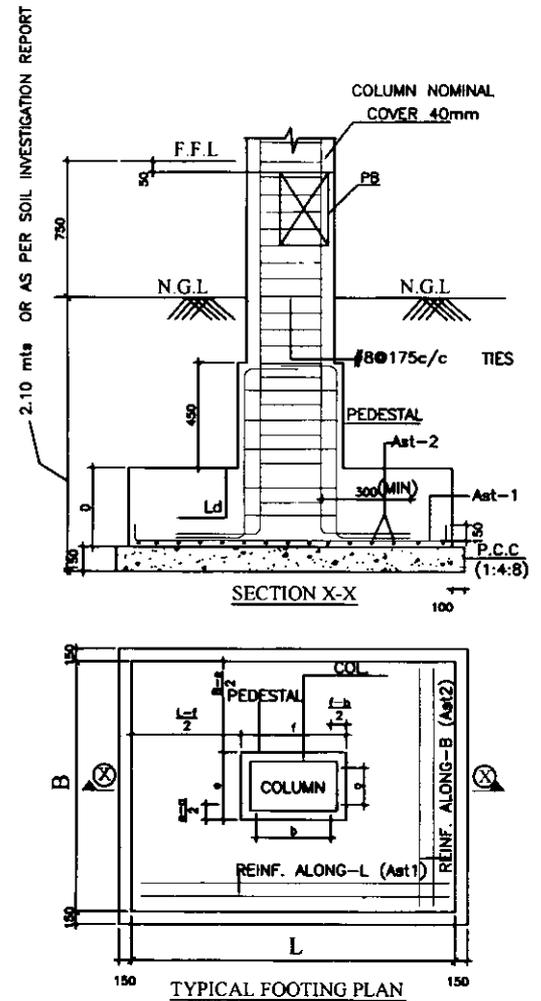
Radial Distance More Than 50 Km From Coast line

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

Name of work :	" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	COLUMN & FOOTING LAYOUT
Drg.No:	PR /Village clinic / Z II / M25 / SD / 2E
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	
C3	230 x 380	•8-#16mm	

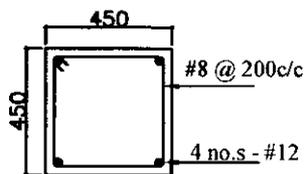


SCHEDULE OF FOOTINGS FOR SBC - 200KN/M²

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1150 x 1150	300	Y 10- 7 Nos	Y 10- 7 Nos
F2	M25	1400 x 1400	325	Y 12- 8 Nos	Y 12- 8 Nos
F3	M25	1550 x 1550	350	Y 12- 9 Nos	Y 12- 9 Nos

NOTES :

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 200 KN/M²



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 : M25, Steel Grade : Fe500

//APPROVED//

Sd/-
Chief Engineer, PR - II
Vijayawada.

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)
26/6/2020
26/6/20

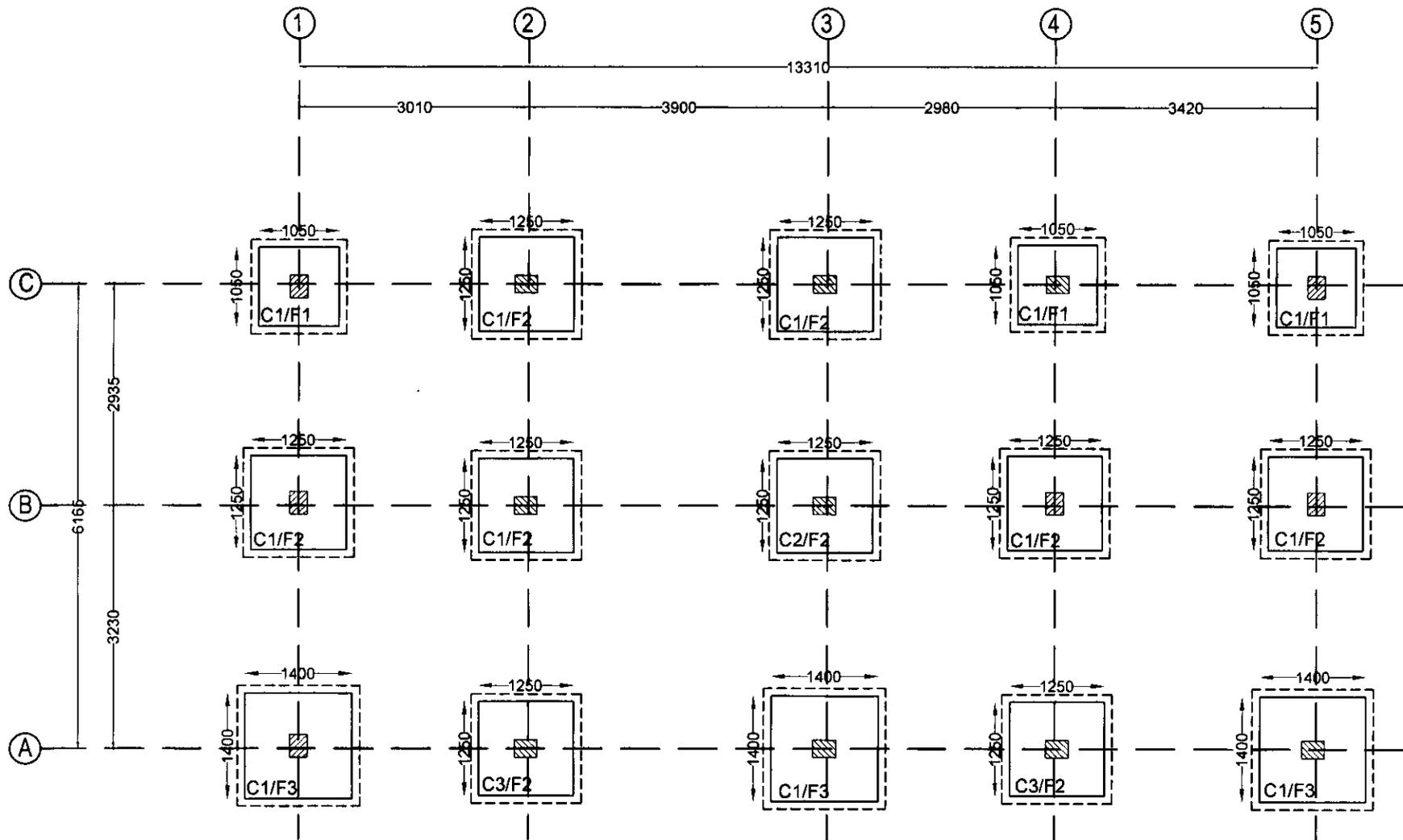
NAME OF WORK :

" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

Drg. Title : COLUMN & FOOTING SCHEDULE

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

PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA.



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Sd/-
Chief Engineer, PR - II
Vijayawada.

// TRUE COPY //

[Signature]
Dy. Executive Engineer, PR (Designs)

SBC -250 KN/M²

COLUMN & FOOTING LAYOUT

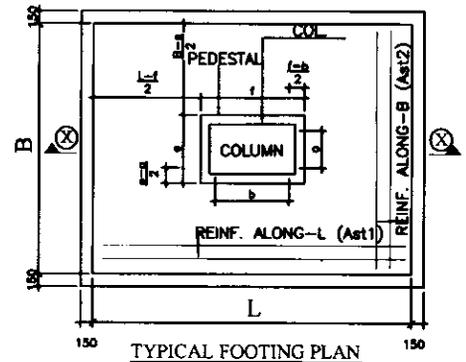
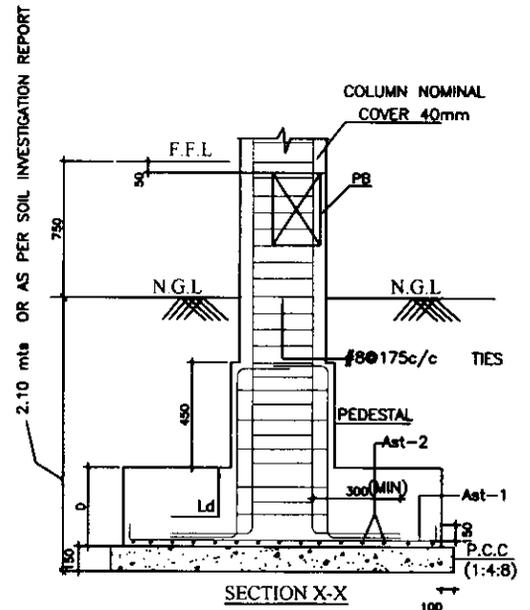
Radial Distance More Than 50 Km From Coast line

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

Name of work :	" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title :	COLUMN & FOOTING LAYOUT
Drg.No :	PR/WC/Z II/M25 /SD/2F
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	
C3	230 x 380	•8-#16mm	

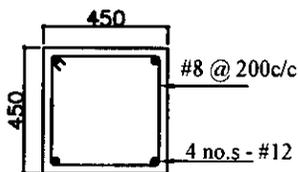


SCHEDULE OF FOOTINGS FOR SBC - 250KN/M²

Footing Group	Mix	Footing Size mm L x B	Depth mm	Bottom Reinforcement	
				REINFORCEMENT ALONG-L (Ast1)	REINFORCEMENT ALONG-B (Ast2)
F1	M25	1050 x 1050	300	Y 10- 7 Nos	Y 10- 7 Nos
F2	M25	1250 x 1250	300	Y 12- 8 Nos	Y 12- 8 Nos
F3	M25	1400 x 1400	350	Y 12- 9 Nos	Y 12- 9 Nos

NOTES :

- STRUCTURE IS DESIGNED FOR GROUND + 1 FLOOR
- FOOTINGS DESIGNED FOR SBC OF 250 KN/M²



**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 : M25, Steel Grade : Fe500

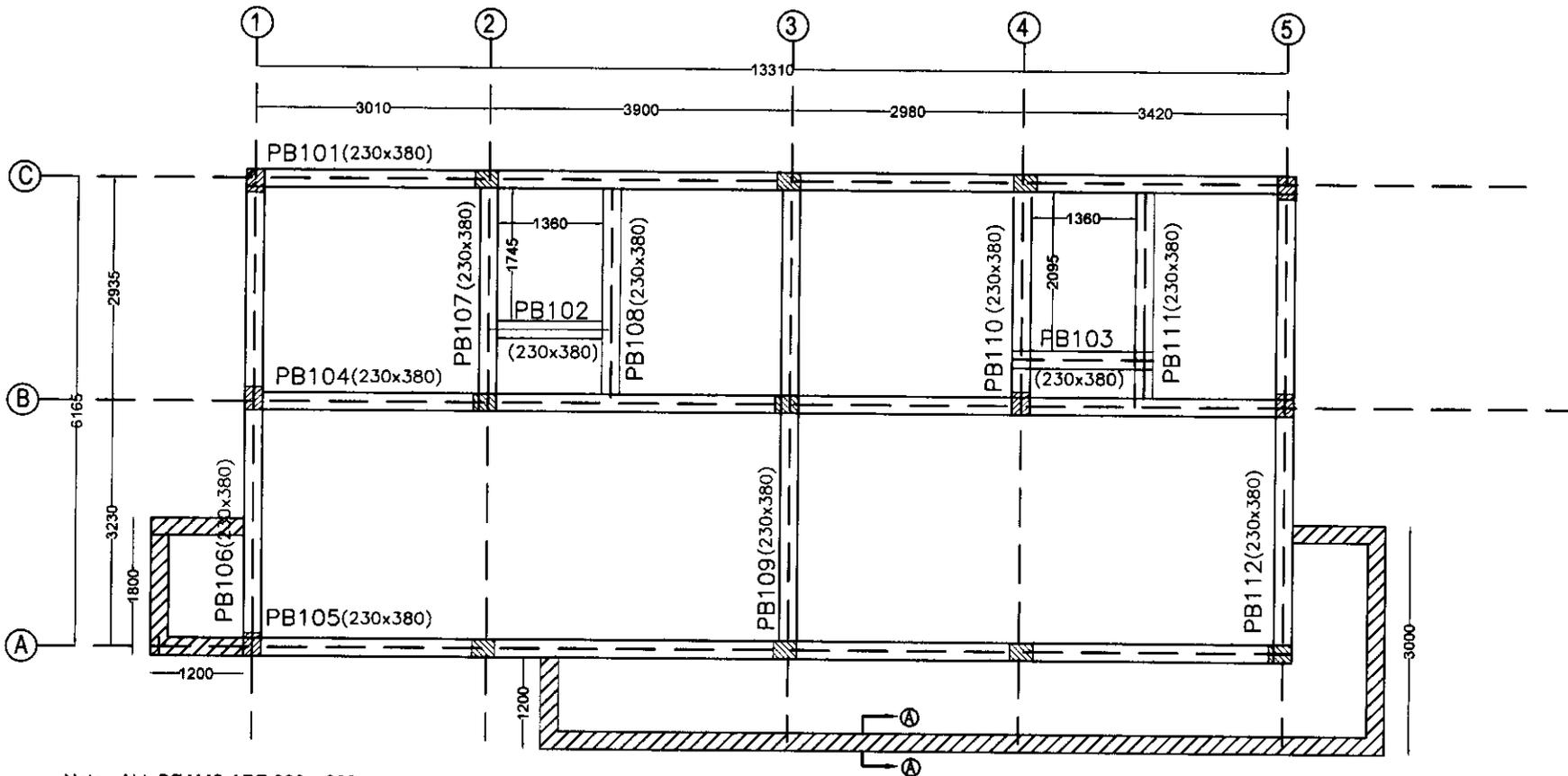
//APPROVED//

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

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)
28/06/2020
26/6/20.

NAME OF WORK :
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)
Drg. Title : COLUMN & FOOTING SCHEDULE
Drg.No : PR / Village CLINIC / Z II / M25 / SD / 3F
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.



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

PLINTH BEAM LAYOUT

//APPROVED//

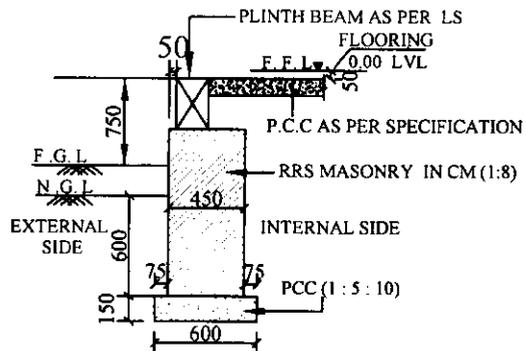
Sd/-
Chief Engineer, PR - II
Vijayawada.

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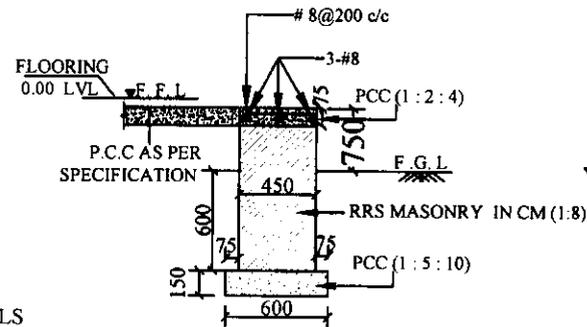
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Dy. Executive Engineer, PR (Designs)
26/6/20

Radial Distance More Than 50 Km From Coast line

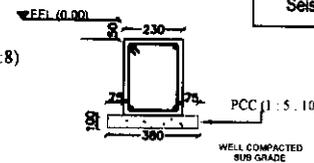
Seismic Zone II , Grade of Concrete : M25, Steel Grade : Fe500



TYPICAL EXTERNAL PLINTH BEAM (EPB) DETAILS



SECTION - (A-A)



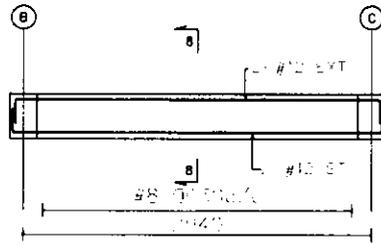
TYPICAL INTERNAL PLINTH BEAM DETAILS

Name of work :
" Providing Additional Accommodation For Health Staff In Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

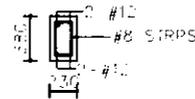
Dr. Title : PLINTH BEAM LAYOUT

Dr.No: PR / Village clinic / Z II / M25 / SD / 04

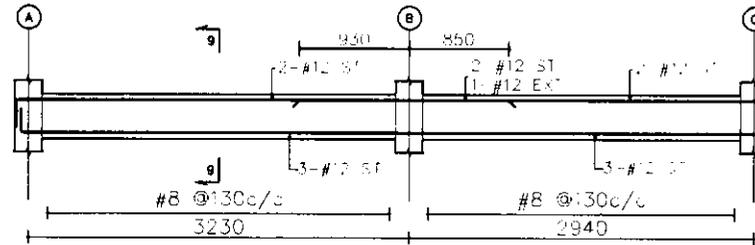
PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA.



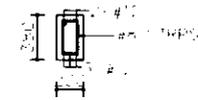
PB108 (230x380)



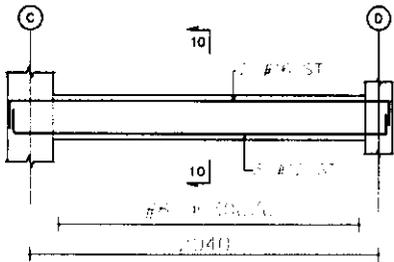
SECTION 8



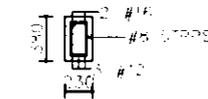
PB109 (230x380)



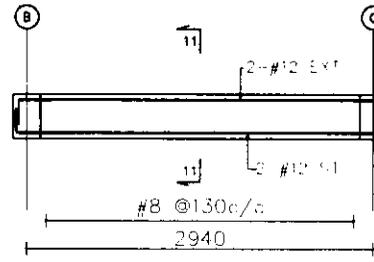
SECTION 10



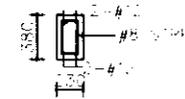
PB110 (230x380)



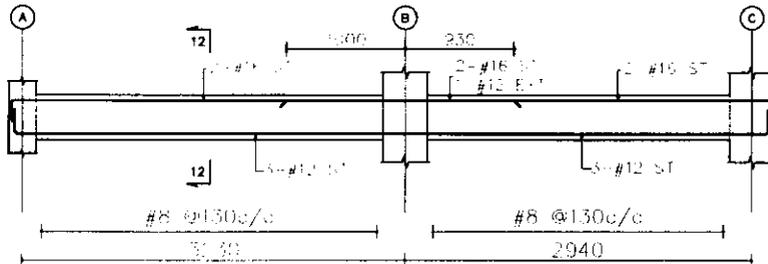
SECTION 10



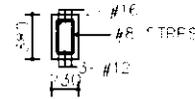
PB111 (230x380)



SECTION 11



PB112 (230x380)



SECTION 13

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Sd/-
Chief Engineer, PR - II
Vijayawada.

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)
26/6/20.

Name of work :
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

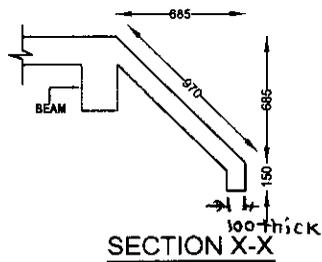
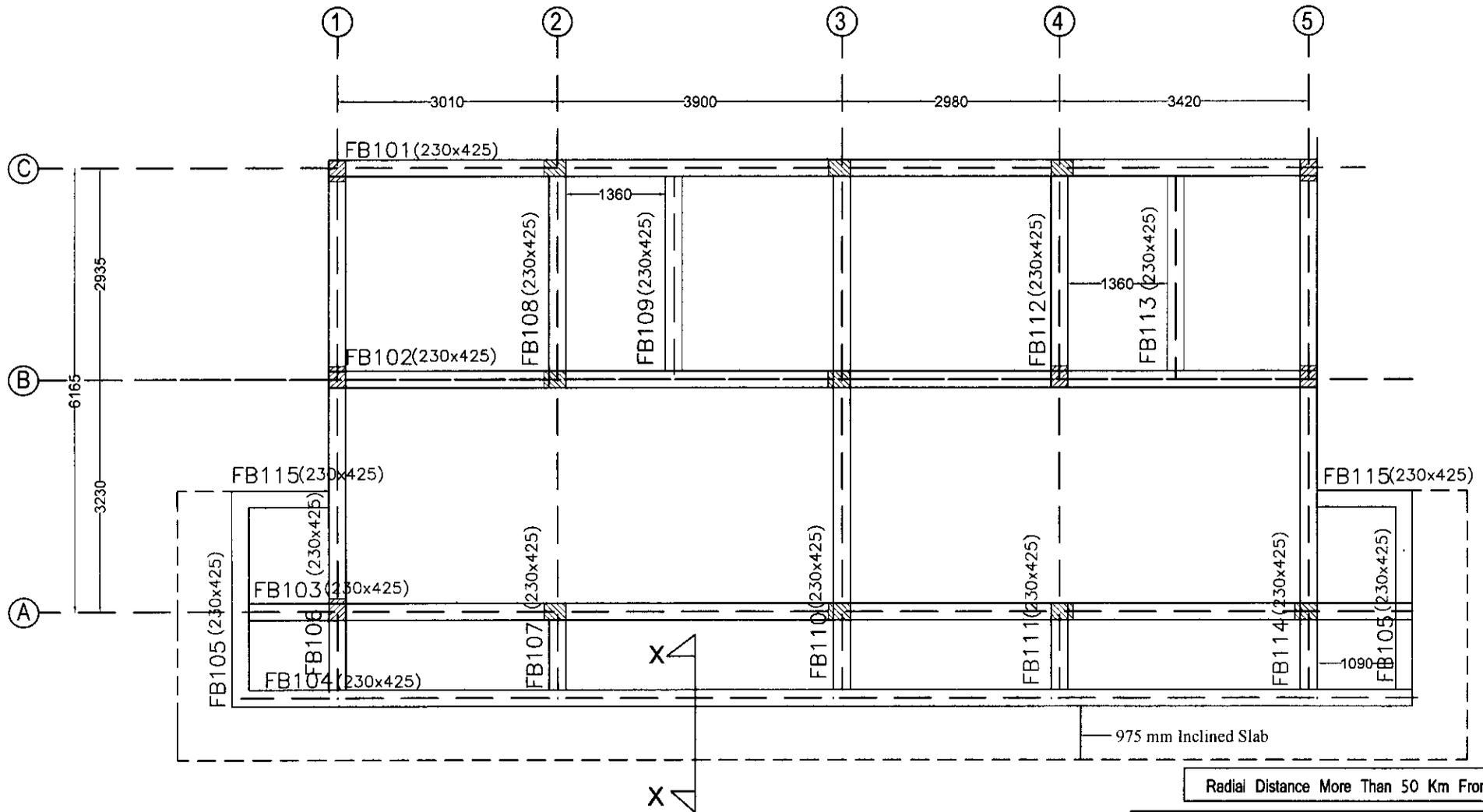
Drg. Title : PLINTH BEAM DETAILS(2 OF 2)

Drg.No : PR / Village Clinic / 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 : Fe500



ROOF BEAM LAYOUT

Radial Distance More Than 50 Km From Coast line

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

//APPROVED//

Sd/-
Chief Engineer, PR - II
Vijayawada.

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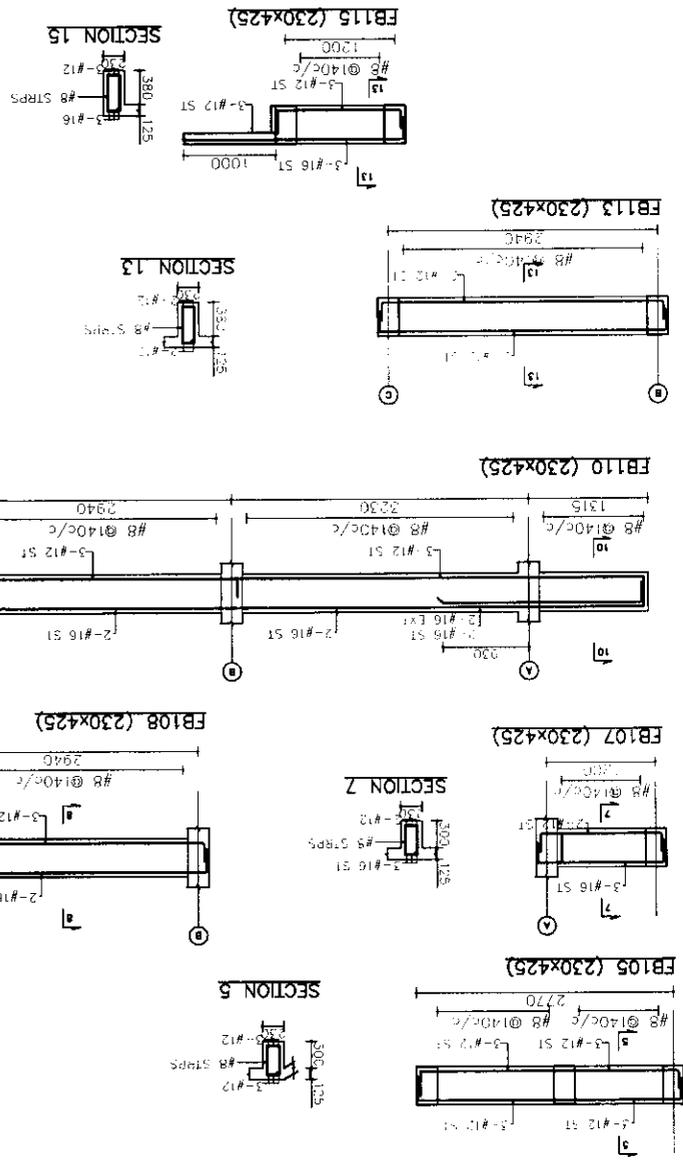
[Signature] 26/06/2020
Dy. Executive Engineer, PR (Designs)

26/6/20

Name of work : " Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)	
Drg. Title :	ROOF BEAM LAYOUT
Drg.No :	PR / Village clinic / Z II / M25 / SD / 06
PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA.	

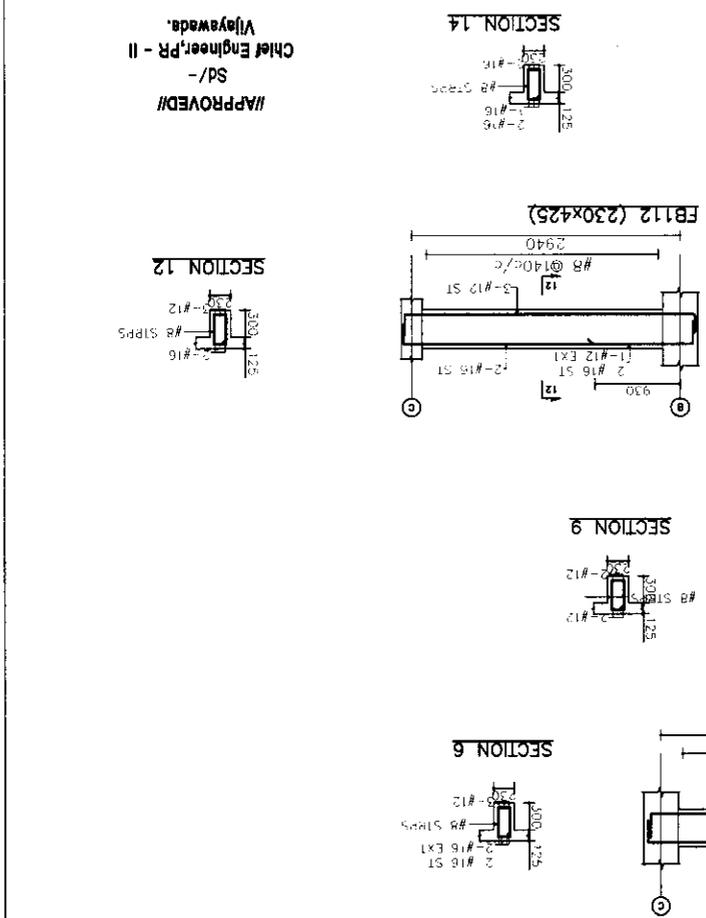
Seismic Zone II, Grade of Concrete : M25, Steel Grade : Fe500

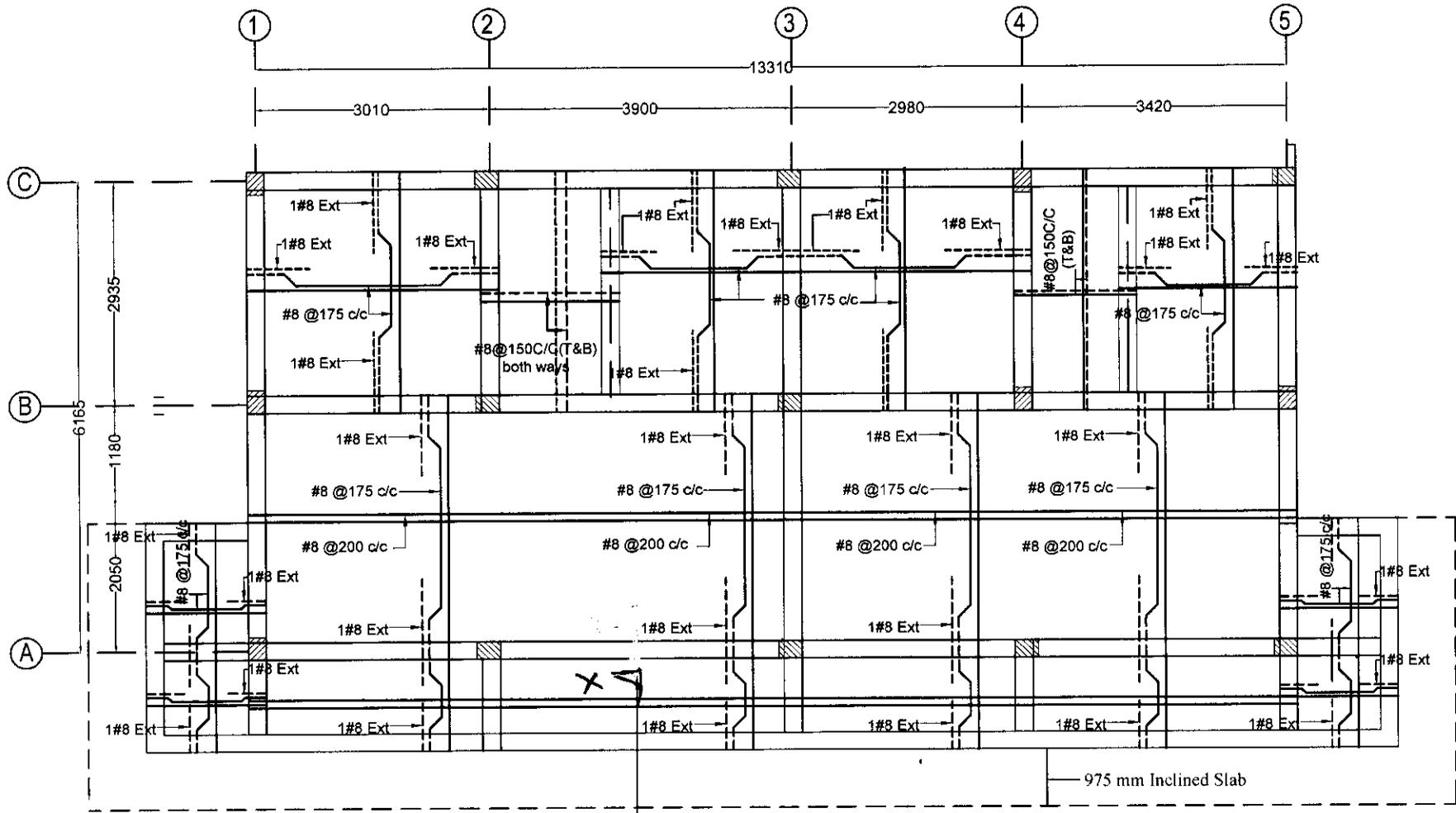
Radial Distance More Than 50 Km From Coast line



PANCHAYATI RAJ ENGINEERING DEPARTMENT VIJAYAWADA
Drg No : PR/Village clinic/Z/II/M25 /SD/7
Drg. Title : ROOF BEAM DETAILS (2 OF 2)
Subcentre (Dr.Y.S.R Village Clinic) "Sachivalayam" (Wellness Center) / Construction Of " Providing Additional Accommodation For Health Staff in Grama Name of work :

9/26/20
 Dy. Executive Engineer, PR (Designs)
 // APPROVED //
 Sd/-
 Chief Engineer, PR - II
 Vijayawada.
 // TRUE COPY //



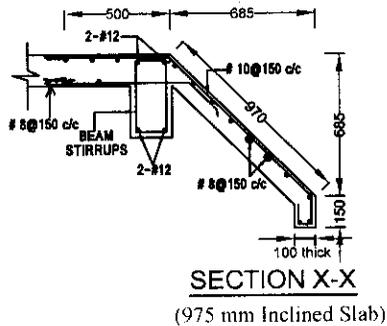


NOTE: All Slabs are 125 mm thickness uniform

ROOF SLAB LAYOUT

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.

// TRUE COPY //

Dy. Executive Engineer, PR (Designs)

Name of work :
" Providing Additional Accommodation For Health Staff in Grama Sachivalayam" (Wellness Center) / Construction Of Subcentre (Dr.Y.S.R Village Clinic)

Drg. Title : ROOF SLAB LAYOUT

Drg.No : PR / Village clinic / Z II / M25 / SD / 08

PANCHAYATI RAJ ENGINEERING DEPARTMENT
VIJAYAWADA.