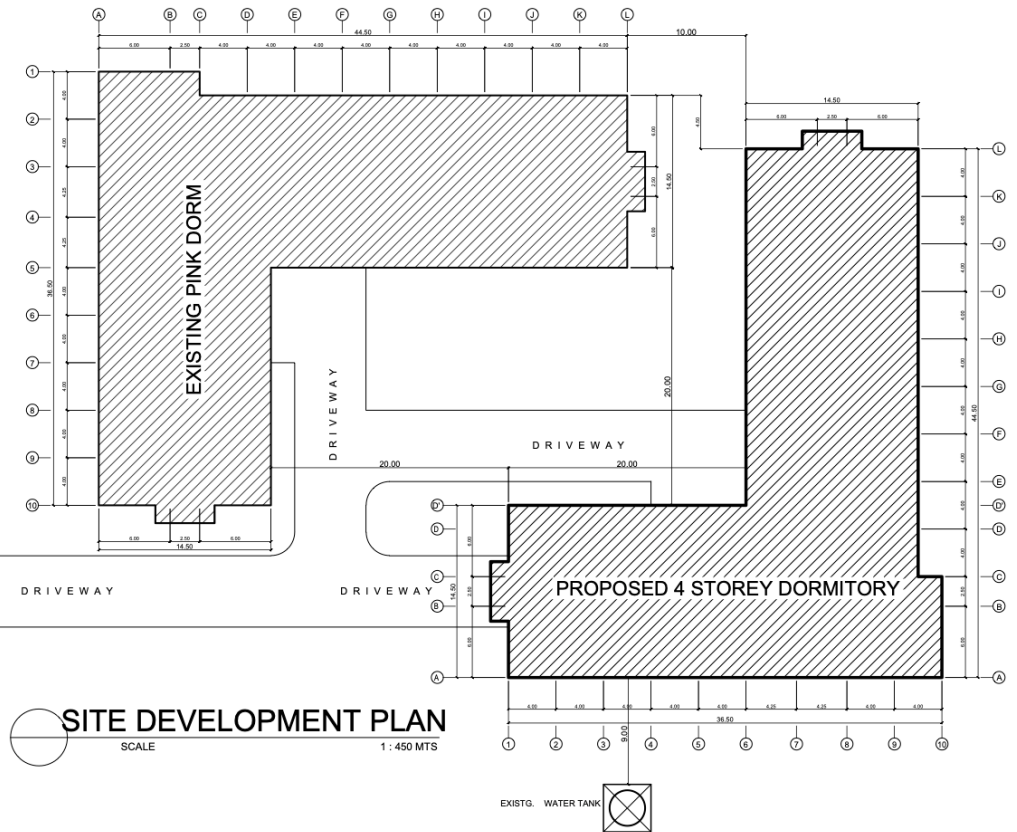




PERSPECTIVE



CADD BY :

 E. N. RODEROS JR.

END USER:

 L. ABOCADIE
 DIRECTOR OBA

ENDORSED BY:

 O. B. DELOS REYES
 DIRECTOR PLANNING OFFICE

L. L. CERO
 VPPD CVSU

REC. APPROVAL

 C. A. POLINGA
 VPASS CVSU

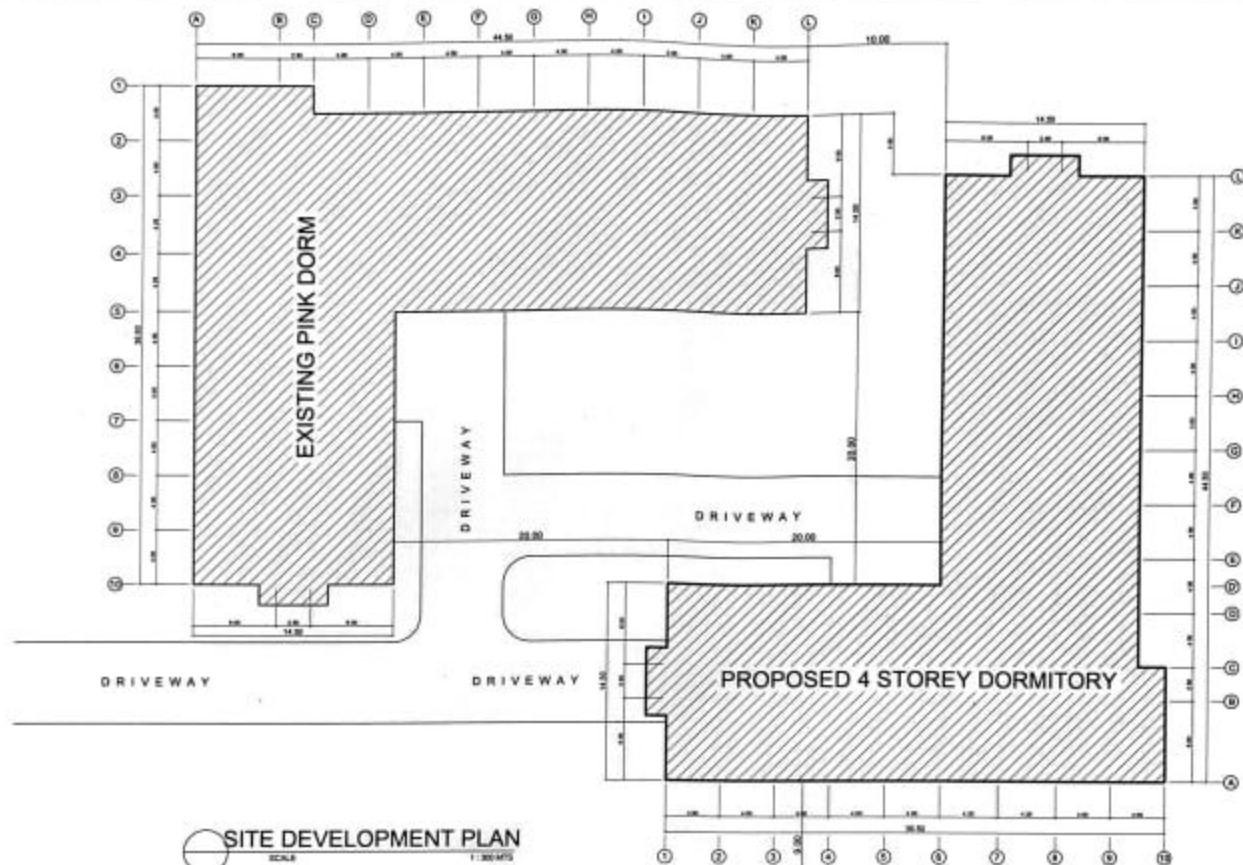
APPROVED BY

 H. P. ROBLES
 PRES CVSU

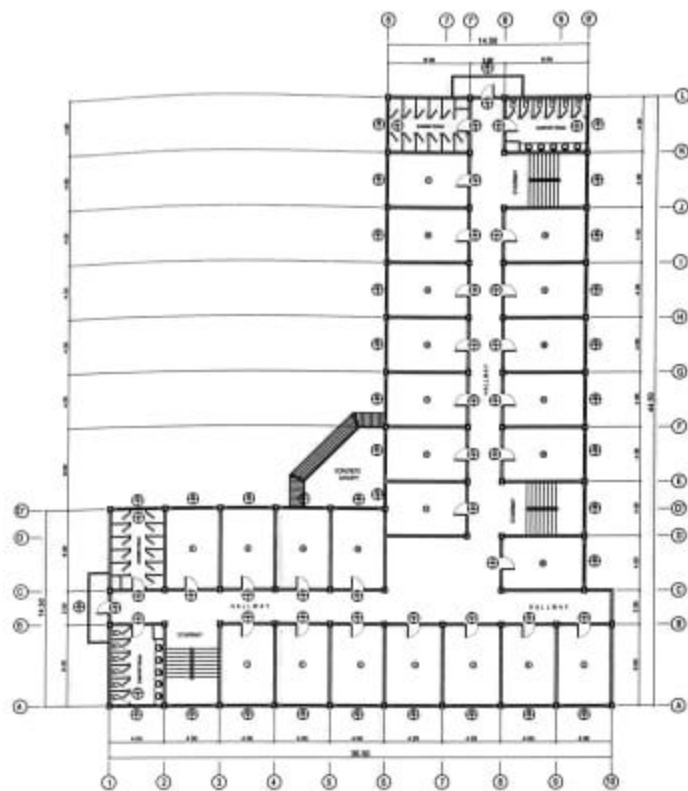
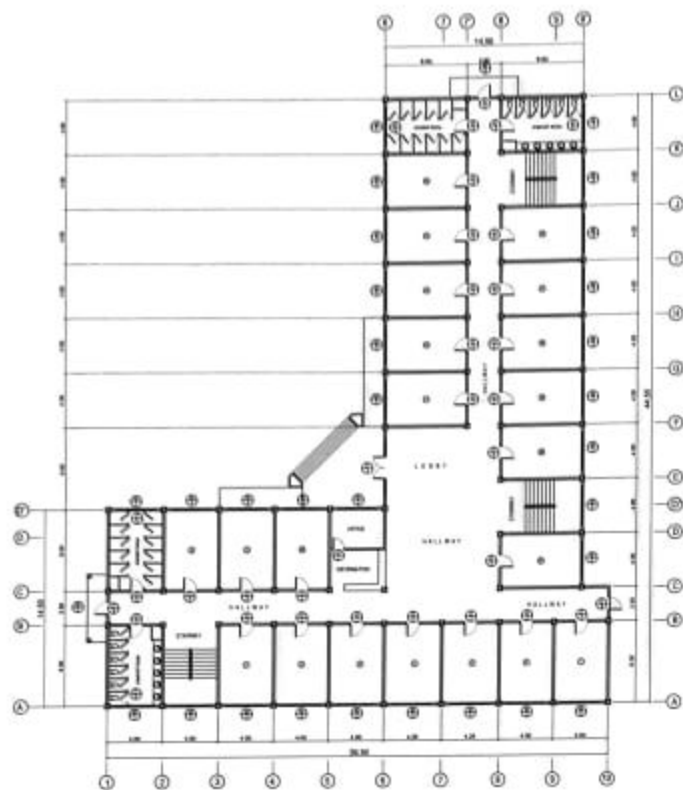
PROJECT TITLE/ LOCATION:
 CONSTRUCTION OF FOUR STOREY DORMITORY
 CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY
 CAVITE STATE UNIVERSITY

SHT NO:
 A - 1



CADD BY:  E. N. RODEROS, JR.		EXISTO. WATER TANK 	
END USER:  L. ABOGADOR DIRECTOR OBA	ENDORSED BY:  O. B. CELIS REYES DIRECTOR PLANNING OFFICE	REC. APPROVAL:  L. L. CERO VP-PD C/SU	APPROVED BY:  H. D. ROBLES PRES C/SU
PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY C/SU, MAIN CAMPUS		IMPLEMENTS AGENCY CAVITE STATE UNIVERSITY A-1	



CADI BV

E. N. RODEROS JR

END USER

L. ABOGADIE
DIRECTOR

ENDORSED BY:

U. B. DELOS REYES
DIRECTOR PLANNING OFFICE

LLCERO
VPPD CYSU

REC. APPROVAL: 
D. A. POLINGA
VPASS CVSU

APPROVED BY:

H. D. ROBLES
PRES. CVS

PROJECT TITLE/LOCATION:

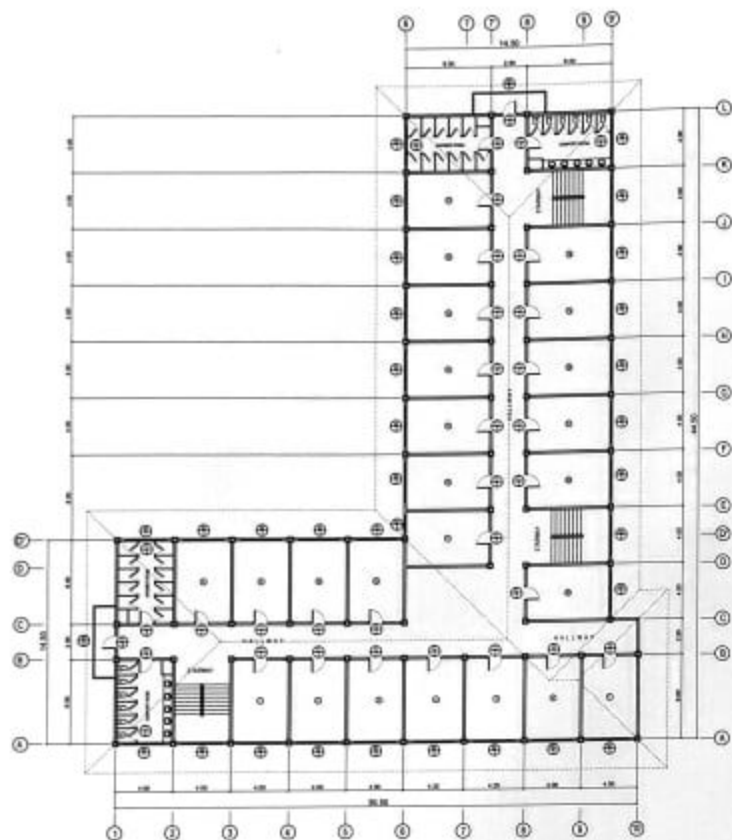
CONSTRUCTION OF FOUR STOREY DORMITORY
CYEL, MAIN CAMPUS

IMPLEMENTING AGENCY	
---------------------	--

CAVITE STATE UNIVERSITY

BHT NO:

A-2



TYP. 3RD - 4TH FLOOR PLAN

SCALE 1/300 MTS

CADD BY:
E. N. RODRIGUEZ JR.

END USER:
L. ABOGADIE
DIRECTOR

ENDORSED BY:
O. B. DELOS REYES
DIRECTOR PLANNING OFFICE

REC. APPROVED:
L. L. CERO
VPPD CVSU

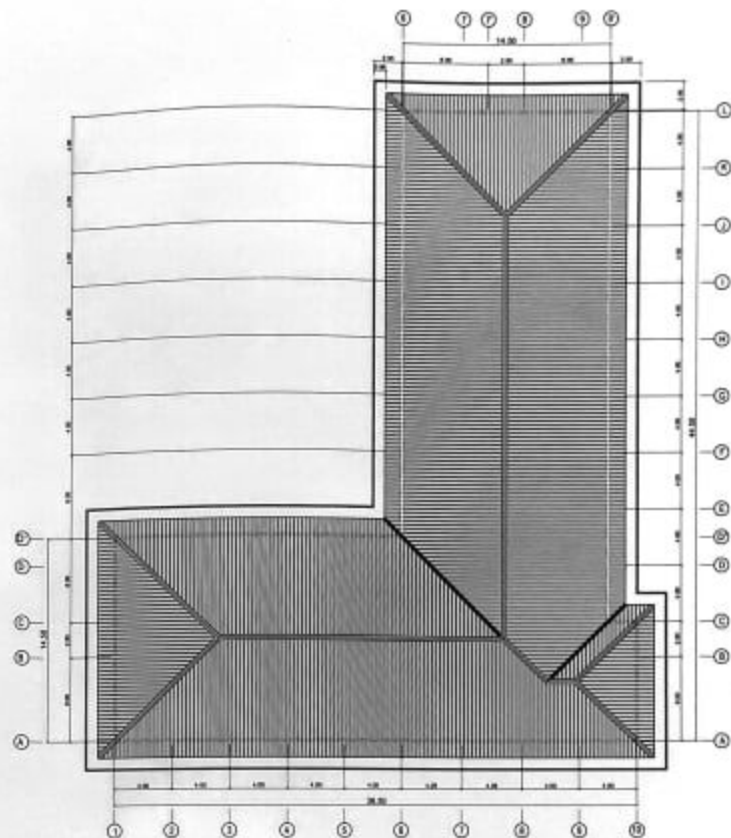
APPROVED BY:
G. A. POLINGA
VPASS CVSU

APPROVED BY:
H. D. ROBLES
PRES CVSU

PROJECT TITLE/LOCATION:
CONSTRUCTION OF FOUR STOREY DORMITORY
CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY:
CAVITE STATE UNIVERSITY

SHT NO:
A - 3

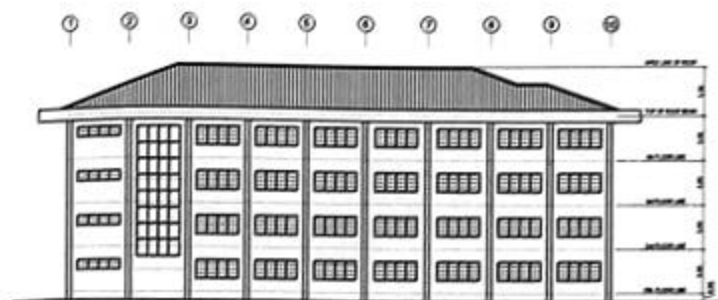


ROOF PLAN

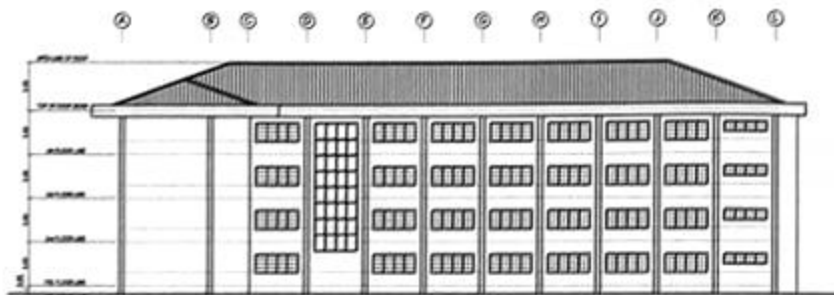
SCALE 1/300 MTS



FRONT ELEVATION
SCALE 1:200 MTS



RIGHT SIDE ELEVATION
SCALE 1:200 MTS



REAR ELEVATION
SCALE 1:200 MTS



LEFT SIDE ELEVATION
SCALE 1:200 MTS

DRAWN BY:
E. N. RODRIGUEZ JR.

DESIGNED BY:
L. ABOGADIE
DIRECTOR

ENDORSED BY:
O. B. DELOS REYES
DIRECTOR - PLANNING OFFICE

REC. APPROVAL:
L. L. CERO
VPPD CYSU

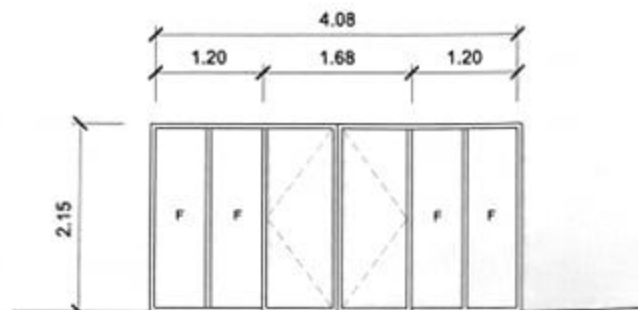
APPROVED:
O. A. POLINGA
VPASU CYSU

APPROVED:
H. D. ROBLES
PRES CYSU

PROJECT TITLE/LOCATION:
CONSTRUCTION OF FOUR STOREY DORMITORY
CYSU, MAIN CAMPUS

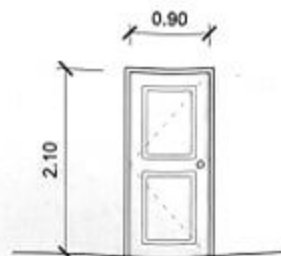
IMPLEMENTING AGENCY:
CAVITE STATE UNIVERSITY

SHT NO:
A - 4



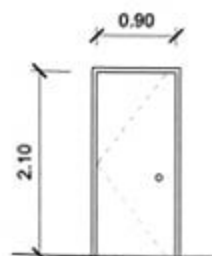
(D)
1

ALUMINUM SWING TYPE DOOR COMPLETE W /
ALL ACCESSORIES W / 1/4" THK TEMPERED
COLORED GLASS ON COLORED POWDER
COATED FINISH ALUMINUM FRAMING
1 SET



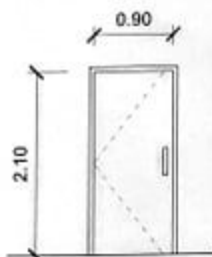
(D)
2

0.90 X 2.10 STEEL PANEL DOOR
W/ COMPLETE ACCESSORIES
94 SETS



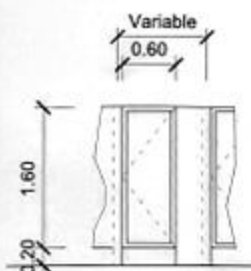
(D)
3

0.90 X 2.10 FLUSH DOOR W/
COMPLETE ACCESSORIES
16 SETS



(D)
4

0.90 X 2.10 M.
ALUMINUM SWING TYPE DOOR COMPLETE W /
ALL ACCESSORIES W / 1/4" THK TEMPERED
COLORED GLASS ON COLORED POWDER
COATED FINISH ALUMINUM FRAMING
9 SETS



(D)
5

0.60 X 1.60 FRAMELESS PVC DOOR PANEL
(VERIFY MANUFACTURER)
W/ COMPLETE ACCESSORIES
136 SETS



SCHEDULE OF DOORS

SCALE 1:50 MTS

CADD BY:
E. N. RODRIGOS JR.

END USER:
L. ABOGADIE

ENDORSED BY:
O. B. DELOS REYES
DIRECTOR PLANNING OFFICE

REG. APPROV:
L. L. CERO
VPPD CVSU

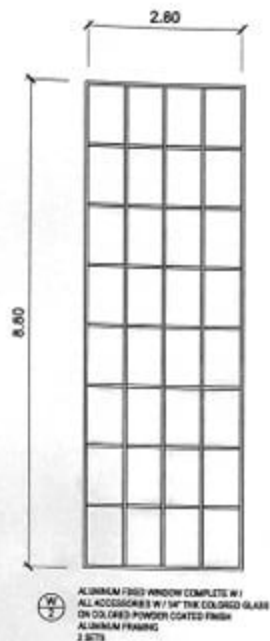
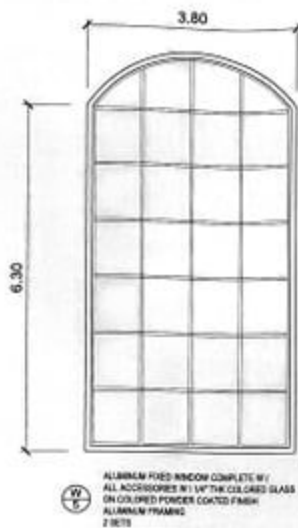
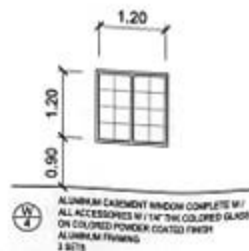
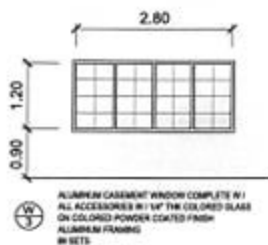
APPROVED BY:
C. A. POLINGA
VP/AS CVSU

APPROVED BY:
H. D. ROBLES
PRES CVSU

PROJECT TITLE/ LOCATION:
CONSTRUCTION OF FOUR STOREY DORMITORY
CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY:
CAVITE STATE UNIVERSITY

SHT NO:
A - 5



SCHEDULE OF WINDOWS

CADD BY:	<i>[Signature]</i>
E. N. RODRIGUEZ JR.	
END USER:	<i>[Signature]</i>
L. ABOGADO	

ENDORSED BY:	<i>[Signature]</i>
O. E. DELOS RIVEROS	
DIRECTOR PLANNING OFFICE	

REC. APPROVED:	<i>[Signature]</i>
L. L. CERO	
VPPD CVSU	

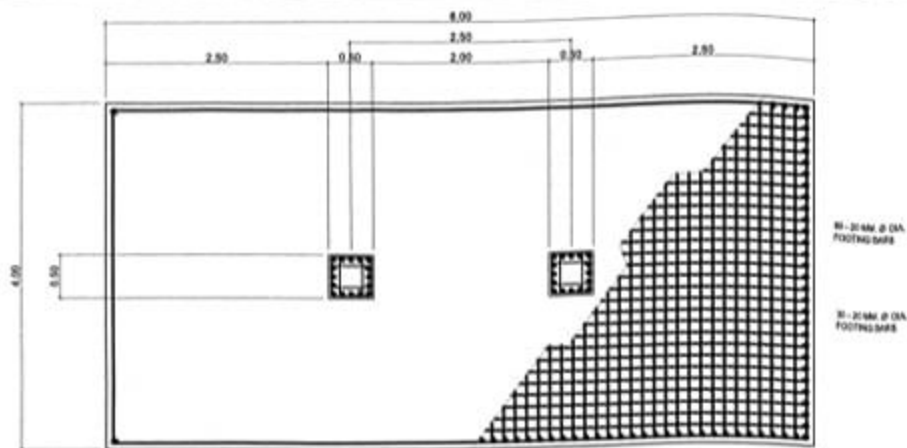
APPROVED BY:	<i>[Signature]</i>
C. A. POLINGA	
VPPD CVSU	

APPROVED BY:	<i>[Signature]</i>
H. D. ROBLES	
PRES CVSU	

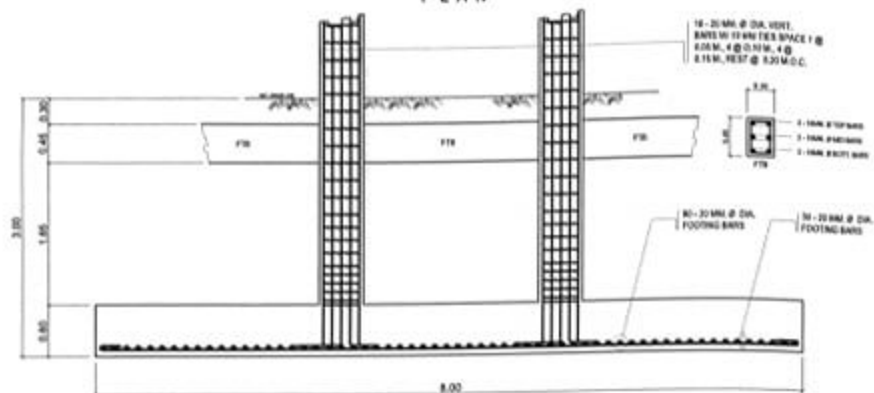
PROJECT TITLE/LOCATION:	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS
-------------------------	--

IMPLEMENTING AGENCY:	CAVITE STATE UNIVERSITY
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SHT NO:	A - 6
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PLAN

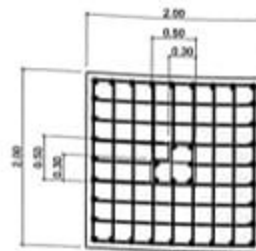


SECTION

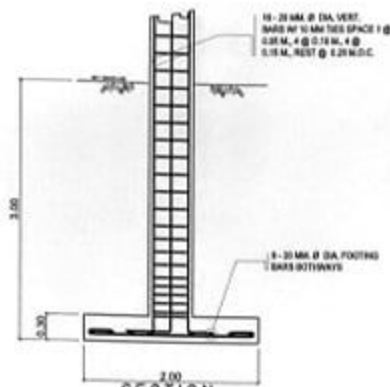
DETAIL OF C1 F2

SCALE

1 : 50 MTS.



PLAN



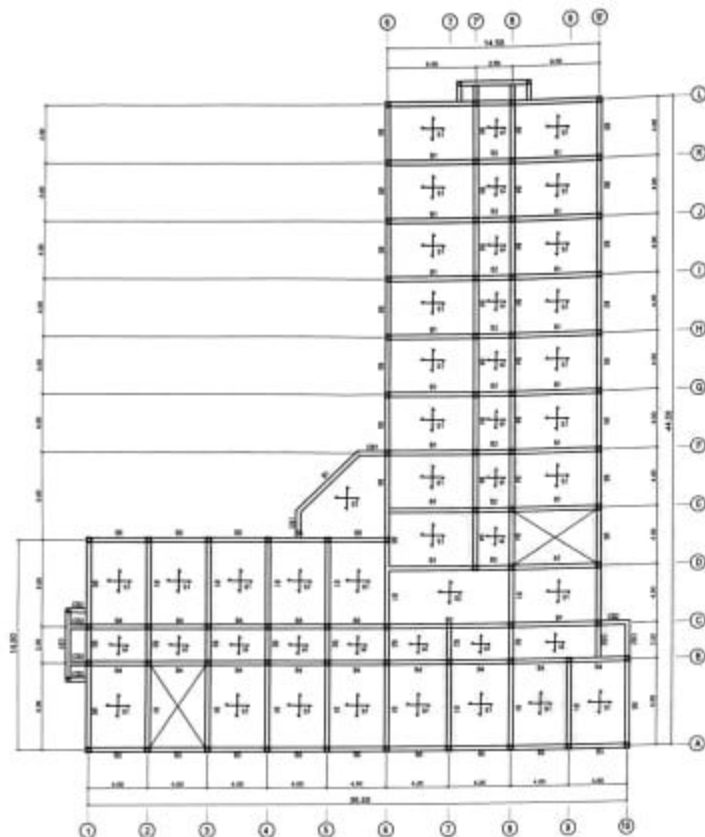
SECTION

DETAIL OF C2 F3

SCALE

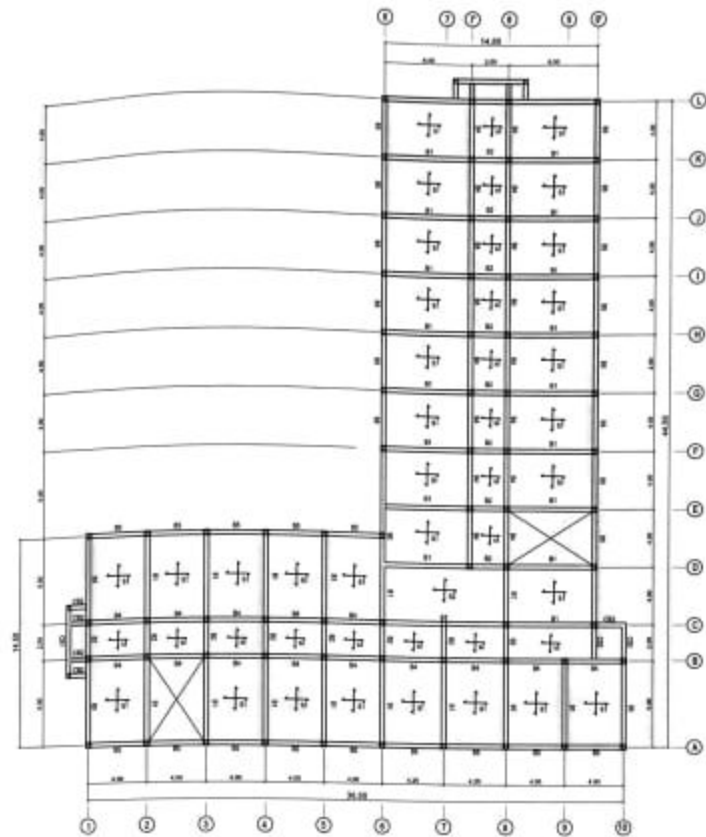
1 : 50 MTS.

CADD BY:	CIVIL ENGR:	REC. APPROV:	APPROVED BY:	PROJECT TITLE/LOCATION:	IMPLEMENTING AGENCY:	SHT NO:
E. N. RODRIGOS JR.	L. E. ROCELA			CONSTRUCTION OF FOUR STOREY DORMITORY	CAVITE STATE UNIVERSITY	S - 2
END USER:	ENDORSED BY:					
L. ABOGADIE DIRECTOR	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU		



SECOND FLOOR BEAM PLAN

SCALE 1"=300 MTS



TYP. 3RD - 4TH FLOOR BEAM PLAN

SCALE 1"=300 MTS

CADD BY: <i>[Signature]</i> E. N. RODEROS JR.	CIVIL ENGR. <i>[Signature]</i> L. E. ROCELA
---	---

END USER: <i>[Signature]</i> L. ABOGADIE DIRECTOR	ENDORSED BY: <i>[Signature]</i> O. B. DELOS REYES DIRECTOR - PLANNING OFFICE
--	---

REC. APPROVED: <i>[Signature]</i> L. L. CERO VPPD CVSU	APPROVED BY: <i>[Signature]</i> C. A. POLINGA VPPS CVSU
--	---

APPROVED BY: <i>[Signature]</i> H. D. ROBLES PRES CVSU
--

PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY

SHT NO: S - 3



CADD BY :  E. N. RODEROS JR.		CIVIL ENGR. :  L. E. ROCELA	
END USER:  L. ABOCADIE DIRECTOR OBA		ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING OFFICE	
 L. L. CERO VPDP CVSU		REC. APPROVAL:  C. A. PDLINGA VP/AS CVSU	
APPROVED BY:  H. D. ROBLES PRES CVSU		PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	
IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY		SHT NO: S - 4	

SCHEDULE OF BEAMS

BEAM	DIMENSION	EXT. SUPPORT		MID-SPAN		INT. SUPPORT		BAR ARRANGEMENT			STIRRUPS REMARKS	REMARKS
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	MID-SPAN	INT. SUPPORT		
B-1	300mm X 500mm	4-25 MM Ø	4-25 MM Ø	4-25 MM Ø	8-25 MM Ø	6-25 MM Ø	4-25 MM Ø	Ø	Ø	Ø	100mm Ø STIRRUPS @ 300mm C.C. 4 - 75mm Ø - 100mm Ø REST @ 100mm C.C.	USE 2 - LINES OF STIRRUPS BARS
B-2	300mm X 450mm	4-25 MM Ø	2-25 MM Ø	2-25 MM Ø	4-25 MM Ø	4-25 MM Ø	2-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
B-3	300mm X 600mm	6-25 MM Ø	4-25 MM Ø	4-25 MM Ø	8-25 MM Ø	6-25 MM Ø	4-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
B-4	300mm X 450mm	3-25 MM Ø	2-25 MM Ø	2-25 MM Ø	5-25 MM Ø	3-25 MM Ø	2-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
B-5	300mm X 450mm	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
CB-1	300mm X 450mm	2-25 MM Ø	2-25 MM Ø	6-25 MM Ø	2-25 MM Ø	5-25 MM Ø	2-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
CB-2	300mm X 450mm	3-25 MM Ø	2-25 MM Ø	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	3-25 MM Ø	Ø	Ø	Ø	- DO -	- DO -
RB-1	250mm X 400mm	3-16 MM Ø	2-16 MM Ø	3-16 MM Ø	4-16 MM Ø	4-16 MM Ø	2-16 MM Ø	Ø	Ø	Ø	- DO -	- DO -
RB-2	250mm X 400mm	3-16 MM Ø	2-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	2-16 MM Ø	Ø	Ø	Ø	- DO -	- DO -
RG-1	250mm X 600mm	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	5-16 MM Ø	5-16 MM Ø	3-16 MM Ø	Ø	Ø	Ø	- DO -	- DO -
RCS-1	250mm X 400mm	3-16 MM Ø	2-16 MM Ø	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	3-16 MM Ø	Ø	Ø	Ø	- DO -	- DO -

SCHEDULE OF SLAB REINFORCEMENT

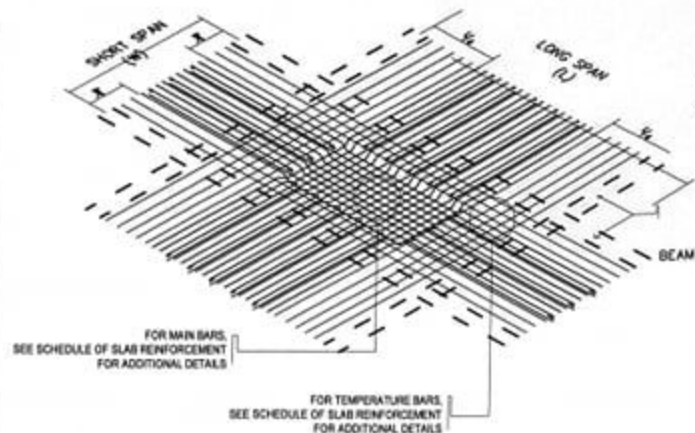
SLAB	DETAILS
S1	110 MM. THK CONCRETE SLAB W/ 12 MM Ø BARS @ 200MM, ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 TEMP. BARS 10 MM Ø @ 200MM, ON CENTER THROUGH-OUT COLUMN STRIP FOR TOP AND BOTTOM BARS W/ 12 MM Ø EXTRA TOP BARS SPACED @ 0.80 MTS. ON CENTER
S2	110 MM. THK CONCRETE SLAB W/ 12 MM Ø BARS @ 200MM, ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 TEMP. BARS 10 MM Ø @ 200MM, ON CENTER THROUGH-OUT COLUMN STRIP FOR TOP AND BOTTOM BARS W/ 12 MM Ø EXTRA TOP BARS SPACED @ 0.80 MTS. ON CENTER
S3	100 MM. THK CONCRETE SLAB W/ 12 MM Ø BARS @ 200MM, ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 TEMP. BARS 10 MM Ø @ 200MM, ON CENTER WITH 12 MM Ø EXTRA TOP BARS @ 0.80 MTS. ON CENTER
S4	100 MM. THK CONCRETE SLAB W/ 12 MM Ø BARS @ 300MM, ON CENTER TEMP. BARS 10 MM Ø @ 300MM, ON CENTER THROUGH-OUT COLUMN STRIP 10 MM Ø FOR TOP AND BOTTOM BAR WITH 12 MM Ø EXTRA TOP BARS @ 0.80 MTS. ON CENTER

SCHEDULE OF COLUMNS

MARK	DIMENSION	COLUMN	NO. OF BARS	NO. OF TIES & SPACING
FROM FOOTING TO SECOND FLOOR LINE	500 MM X 500 MM		16 - 20 MM Ø BARS	2 - 16 MM Ø @ 0.65 MTS. O.C. 4 - 16 MM Ø @ 0.10 MTS. O.C. 8 - 16 MM Ø @ 0.075 MTS. O.C. REST @ 0.10 MTS. O.C. 3 SETS LATERAL TIES
FROM SECOND FLOOR LINE TO THIRD FLOOR LINE	450 MM X 450 MM		12 - 20 MM Ø BARS	2 - 16 MM Ø @ 0.65 MTS. O.C. 4 - 16 MM Ø @ 0.10 MTS. O.C. 6 - 16 MM Ø @ 0.075 MTS. O.C. REST @ 0.10 MTS. O.C. 3 SETS LATERAL TIES
FROM THIRD FLOOR LINE TO ROOF BEAM LINE	300 MM X 300 MM		8 - 20 MM Ø BARS	2 - 16 MM Ø @ 0.65 MTS. O.C. 4 - 16 MM Ø @ 0.10 MTS. O.C. 6 - 16 MM Ø @ 0.075 MTS. O.C. REST @ 0.10 MTS. O.C. 3 SETS LATERAL TIES

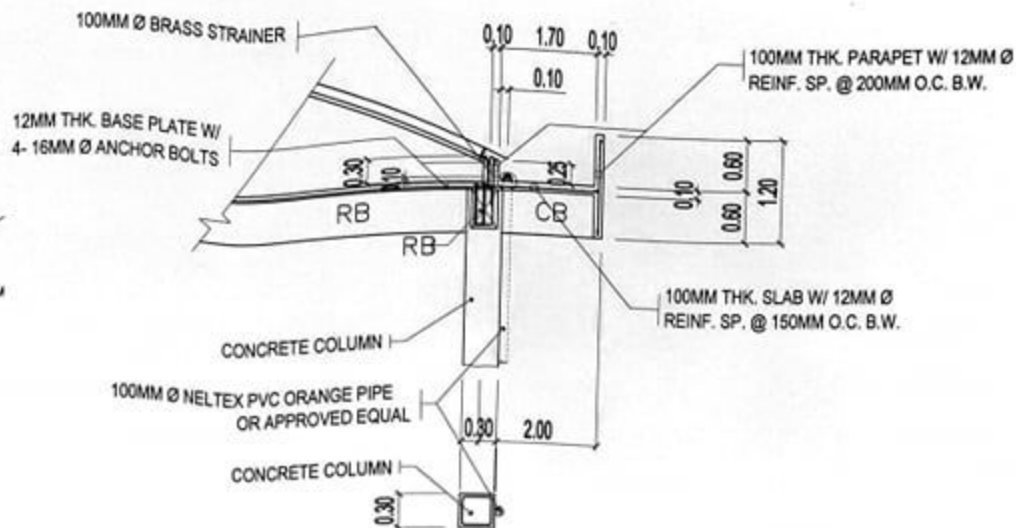
CADD BY: 	CIVIL ENGR.:
E. N. RODEROS JR.	L. E. RODELA

END USER: 	ENDORSED BY: 	REC. APPROVED: 	APPROVED BY: 	PROJECT TITLE/LOCATION	IMPLEMENTING AGENCY	SHT NO.
L. ABOCADIE DIRECTOR	O. B. BELOS REYES DIRECTOR - PLANNING OFFICE	L. L. CERO VPPO CYSU	H. DROBLES PRES CYSU	CONSTRUCTION OF FOUR STOREY DORMITORY CYSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 5



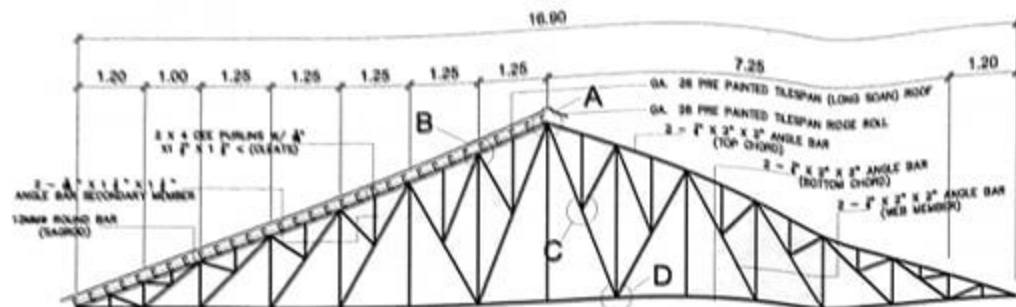
TWO-WAY SLAB

DETAIL OF SLAB REINFORCEMENT

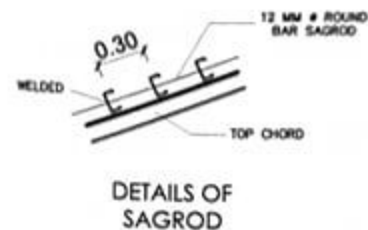


DETAIL OF CONCRETE GUTTER
SCALE NTS.

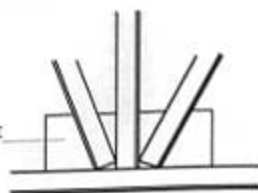
CADD BY: <i>[Signature]</i> E. N. RODEROS JR.		CIVIL ENGR.: <i>[Signature]</i> L. E. ROGELA	
END USER: <i>[Signature]</i> L. ABOGADIE DIRECTOR	OBA	ENDORSED BY: <i>[Signature]</i> O. B. DELOS REYES DIRECTOR PLANNING OFFICE	VPPD
REC. APPROV.: <i>[Signature]</i> L. L. CERO VPPO		APPROVED BY: <i>[Signature]</i> H. G. ROBLES PRES	
PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS		IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	
SHT NO.: S - 6			



TRUSS 1



SPOT DETAIL C



SPOT DETAIL D



SPOT DETAIL A



SPOT DETAIL B



DETAILS OF TRUSS - 1

SCALE

1:75 MTS

DESIGNED BY:	CIVIL ENGR.
E. N. RODRIGUEZ JR.	L. E. ROCELA

END USER:	ENDORSED BY:
L. ABOGADIE	O. B. DELOS REYES
DIRECTOR	DIRECTOR PLANNING OFFICE

REC. APPROV.
L. L. CERO
VPPD

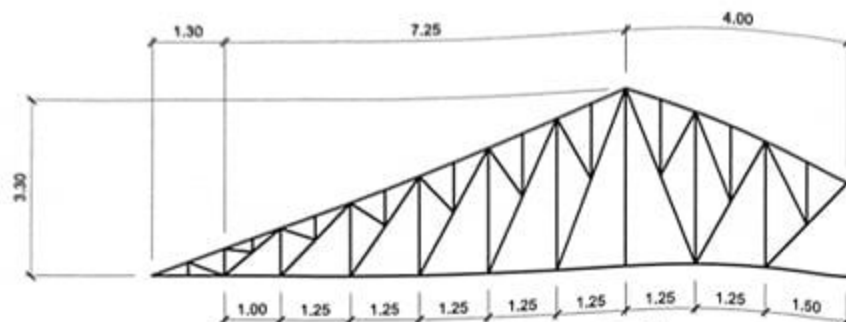
APPROVED BY:
A. POLINGA
VPPD

APPROVED BY:
H. C. ROBLES
PRES

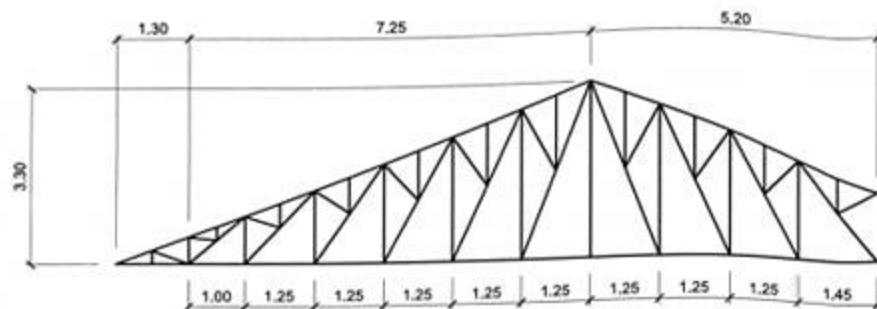
PROJECT TITLE/LOCATION:
CONSTRUCTION OF FOUR STOREY DORMITORY
CVSU, MAIN CAMPUS

IMPLEMENTING AGENCY:
CAVITE STATE UNIVERSITY

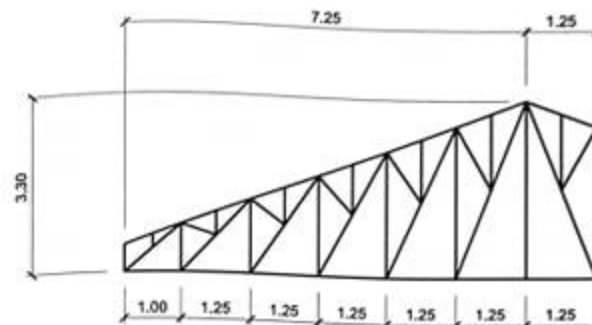
SHT NO:
S - 7



TRUSS 2



TRUSS 3



TRUSS 4

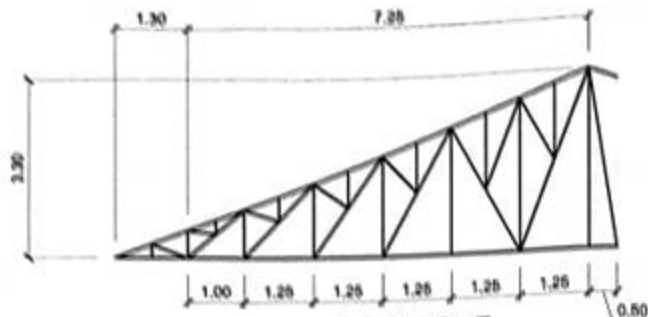


TRUSS DIAGRAM

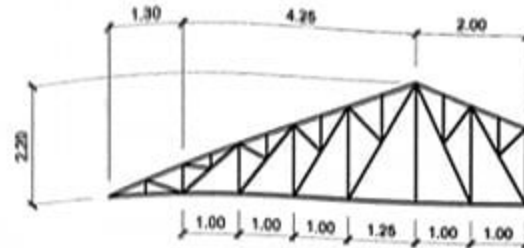
SCALE

1: 75 MTS

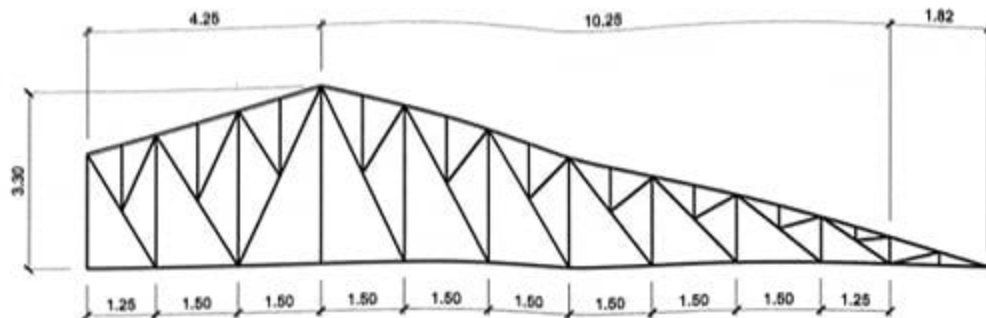
CADD BY: <i>[Signature]</i> E. N. RODEROS JR.	CIVIL ENGR. <i>[Signature]</i> L. E. ROCELA							
END USER: <i>[Signature]</i> L. ABOGADIE DIRECTOR	ENDORSED BY: <i>[Signature]</i> O. B. CELOS REYES DIRECTOR	<i>[Signature]</i> L. L. CERO VPPO	<i>[Signature]</i> C. A. POLINGA VPAS	<i>[Signature]</i> H. D. ROBLES PRES	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO. S - 8	



TRUSS 5



TRUSS 6



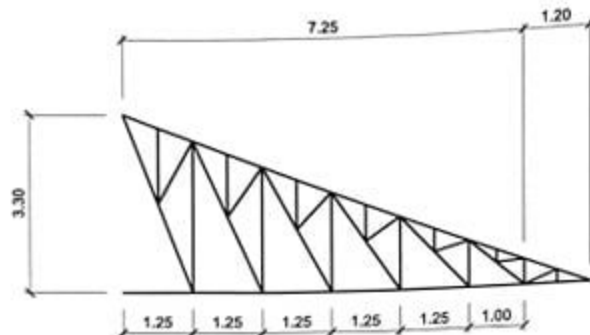
TRUSS 7



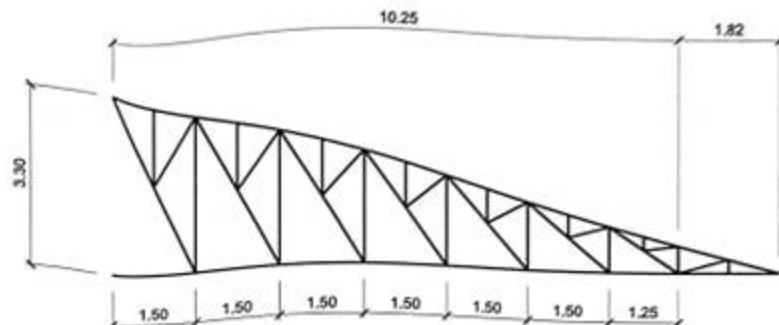
TRUSS DIAGRAM

SCALE 1 : 75 MTS

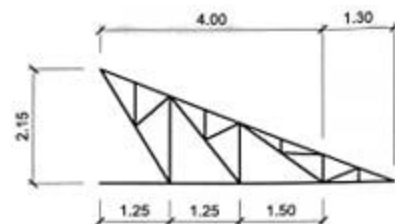
DESIGNED BY: <i>[Signature]</i> E. N. RODRIGOS JR.	CIVIL ENGINEER: <i>[Signature]</i> L. E. ROGELA	APPROVED BY: <i>[Signature]</i> H. D. ROBLES	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: S - 9
END USER: L. ABOGADIA DIRECTOR	ENDORSEMENT: O. B. DELOS REYES DIRECTOR PLANNING OFFICE	REC. APPROVAL: R. L. CERO VPAD CVSU	APPROVAL: G. A. POLINGA VPAD CVSU		



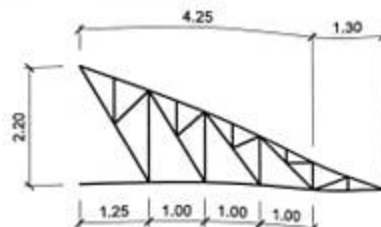
HT - 1



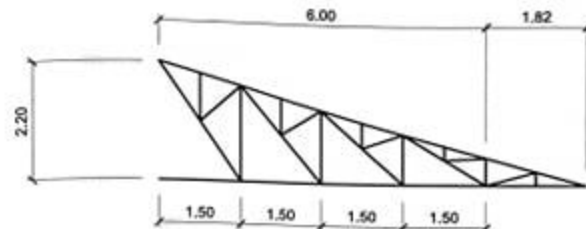
HT - 2



HT - 3



HT - 4



HT - 5

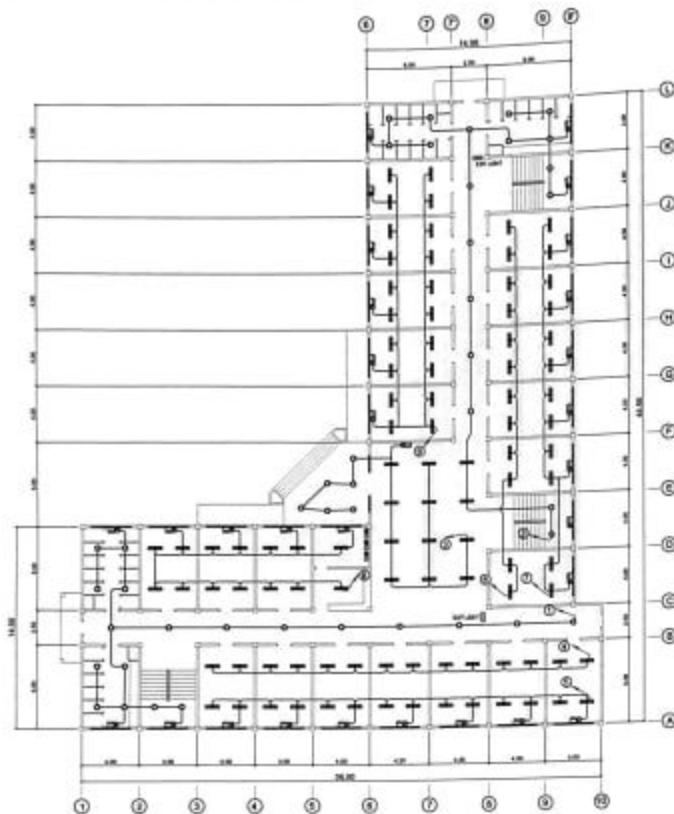


TRUSS DIAGRAM

SCALE

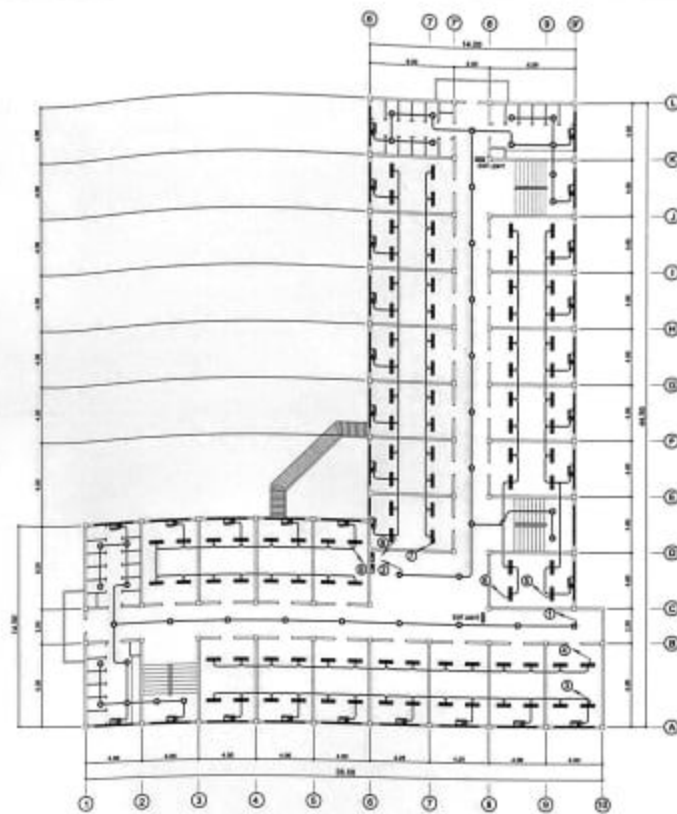
1/16" = 1'0"

DRAWN BY: <i>E. N. RODRIGUEZ JR.</i>	CIVIL ENGR. <i>L. E. ROCELA</i>	REC. APPROVED: <i>R. L. CERO</i>	APPROVED BY: <i>H. D. ROBLES</i>	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: S - 10
END USER: L. ABOGADO DIRECTOR	ENDORSED BY: O. B. DELOS REYES DIRECTOR - PLANNING OFFICE	VPPO CVSU	VPMS CVSU			



GRD. FLOOR LIGHTING LAYOUT

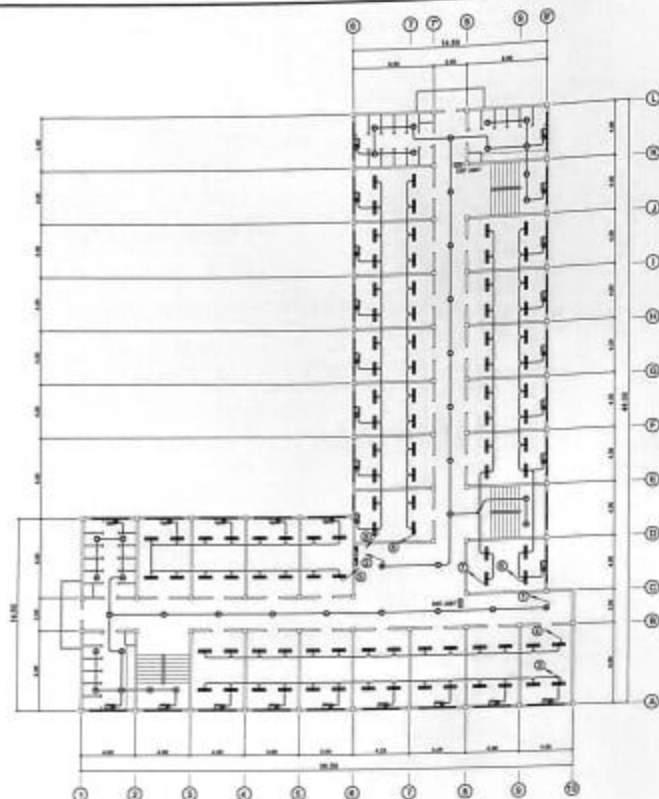
SCALE 1:300 MTS



2ND FLOOR LIGHTING LAYOUT

SCALE 1:300 MTS

CADD BY: <i>E. N. RODRIGUEZ JR.</i> E. N. RODRIGUEZ JR.	PROFESSIONAL ELECTRICAL ENGR. <i>R. P. PENA</i> R. P. PENA		REC. APPROVAL: <i>L. L. CERO</i> L. L. CERO VPPD CVSU	APPROVED BY: <i>H. D. ROBLES</i> H. D. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHEET NO.: E - 1
END USER: <i>L. ABOGADIE</i> L. ABOGADIE DIRECTOR OSA	ENDORSED BY: <i>O. B. DELOS REYES</i> O. B. DELOS REYES DIRECTOR PLANNING OFFICE						



TYP. 3RD - 4TH FLOOR LIGHTING LAYOUT

SCALE: 1" = 30' MIN.

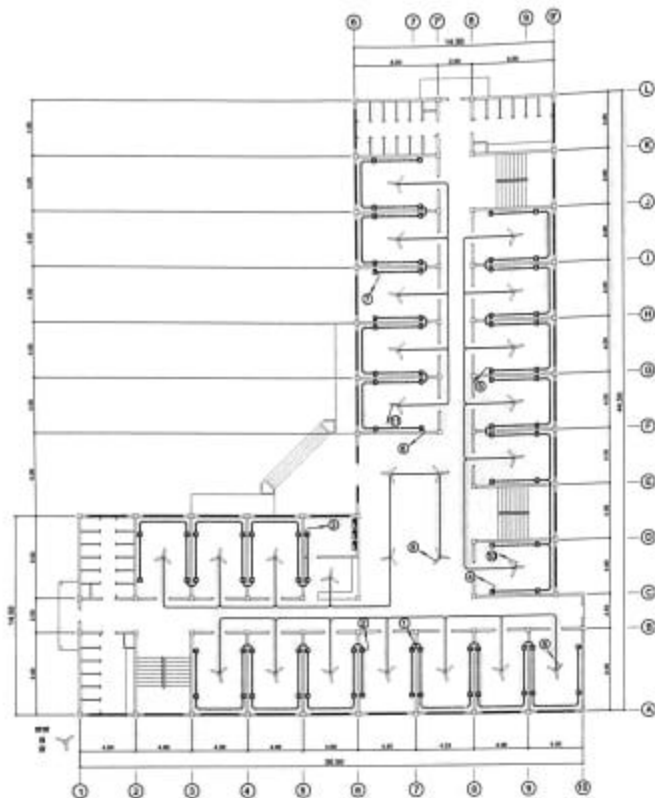
DESIGNED BY: E. N. RODRIGUEZ JR. DIRECTOR	PROFESSIONAL ELECTRICAL ENGR.: R. M. PENA
END USER: L. ABOGADIE DIRECTOR	APPROVED BY: O. B. CELOS REYES DIRECTOR PLANNING OFFICE

REC. APPROVED: L. L. CERO VPPD	APPROVED BY: C. A. POLINGA CVSU
--	---

APPROVED BY: H. D. ROBLES PRES. CVSU	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: E - 2
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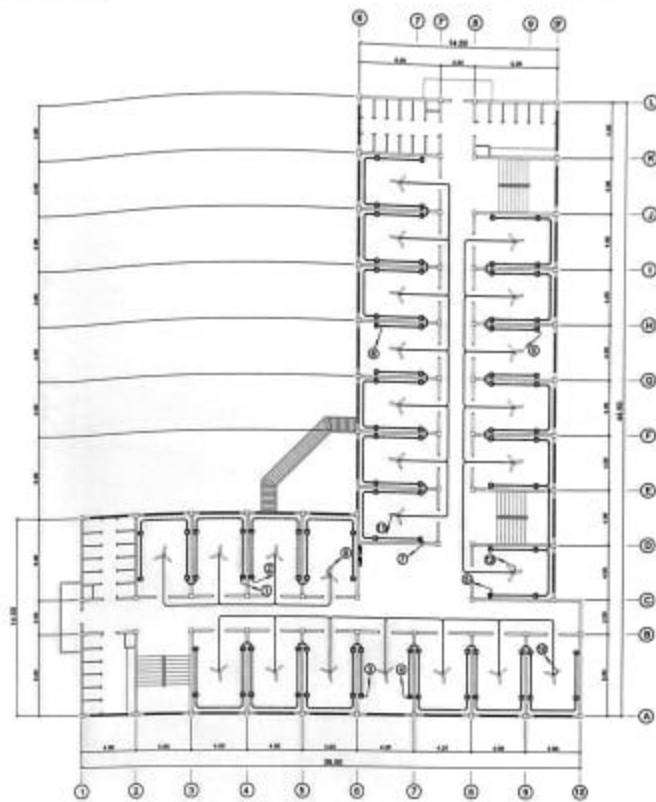
SCHEDULE OF LOADS

TABLE 3. 3-Ø 90 MM THHN + 0.6 SQ MM THHN										30 AT, 3ØAF, 3P, 220V, 1Ø 100/100V		
CONDUIT: RNC, 25 MM DIA										ENCLOSURE: NEMA 1		
LOCATION: GROUND FLOOR										INQUIRY: SURFACE		
CIRCUIT NO	CIRCUIT DESCRIPTION	VOLT. SYSTEM	AMPERE					CIRCUIT PROTECTION		Size of Conductor	Size of Conduit in mm φ	Color Code
			V1A	AB	BC	CA	ABC	CIRCUIT BREAKER TYPE	NO. MM THHN			
1	3ØAFS OUTLET	220V	230	8.37				2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
2	3ØAFS OUTLET	220V	230	10.43				2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
3	3ØAFS OUTLET	170V	230		7.36			2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 170V, 1Ø 100V
4	3ØAFS OUTLET	100V	230		6.26			2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
5	3ØAFS OUTLET	100V	230		8.13			2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
6	3ØAFS OUTLET	100V	230			7.40		2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
7	3ØAFS OUTLET	100V	230			6.86		2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
8	3ØAFS OUTLET	100V	230			6.86		2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
9	3ØAFS OUTLET	100V	230			10.43		2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
10	3ØAFS OUTLET	100V	230					2ØAF, 3P, 1Ø 100/100V	2	3-Ø	10	1Ø 100V, 1Ø 100V
TOTAL			1700V	230	27.83	18.13	27.83	0.00	2ØAF, 3P, 1Ø 100/100V	3-Ø-0 + 0.6-Ø	20	1Ø 100V, 1Ø 100V
PERIOD W/ CURRENT PROTECTION COMPUTATION												
NOTE: 1- In = $\frac{1700 \times 27.83 \times 27.83 \times 27.83}{1000} = 48.10$ Ampere												
2- $\frac{3-Ø 90MM THHN \times 27.83 \times 27.83 \times 27.83}{1000} + 1-Ø 90MM THHN \times 27.83 \times 27.83 \times 27.83 = 48.10$ Ampere												
3- In = $\frac{1700 \times 27.83 \times 27.83 \times 27.83}{1000} = 48.10$ Ampere												
4- 2ØAF, 3ØAF, 3P, 220V, 1Ø 100/100V, 2Ø												
This Electrical Design is good only for the above presented loads. Any additional electrical load connected in the future is prohibited. Excess reduction of electrical load appears will be done.												



GRD. FLOOR CONV. OUTLET LAYOUT

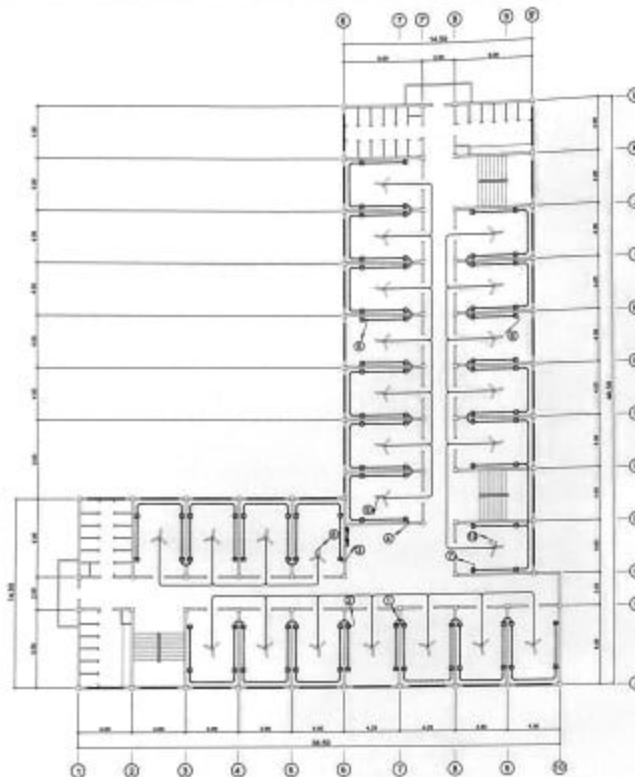
SCALE 1:300 MTS



2ND FLR. CONV. OUTLET LAYOUT

SCALE 1:300 MTS

DRAWN BY: <i>[Signature]</i> E. N. RODEROS JR.	PROFESSIONAL ELECTRICAL ENGR.: <i>[Signature]</i> R. P. PENA	REC. APPROVED: <i>[Signature]</i> L. L. CERO VP/VPD CVSU	APPROVED BY: <i>[Signature]</i> H. A. ROBLES PRES CVSU	PROJECT TITLE/ LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: E - 3
END USER: <i>[Signature]</i> L. A. ABONADO DIRECTOR CBA	ENDORSED BY: <i>[Signature]</i> G. B. DELOS REYES DIRECTOR - PLANNING OFFICE					



TYP. 3RD - 4TH FLR. CONV. OUTLET LAYOUT

SCALE 1:300/475

CADD BY: E. N. RODEROS JR. DIRECTOR	PROFESSIONAL ELECTRICAL ENGR.: R. P. PEÑA DIRECTOR PLANNING OFFICE
DESIGNED BY: L. ABOGADIE DIRECTOR	ENDORSED BY: O. S. DELOS REYES DIRECTOR PLANNING OFFICE

REC. APPROVED: L. L. CERO VPPD CVSU	REC. APPROVED: C. A. POLINGA VPASU CVSU
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APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHEET NO.: E - 4
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SCHEDULE OF LOADS

PANEL: TYPICAL - 3RD FLOOR			CABLE: 3 - 4/0 ALU MM THHN + G 6.6 MM MM THHN							WIRING: EGC, RSC, 3P, 230V, 15 MCM L&N			
CONDUIT: RSC, 25 MM DIA			CONDUIT: RSC, 25 MM DIA							ENCLOSURE: RSC 1			
LOCATION: THIRD FLOOR			LOCATION: THIRD FLOOR							MOUNTING: SURFACE			
CIRCUIT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOADS					CIRCUIT PROTECTION (Amps)	Size of Conductor		Size of Conductor (mm²)	Color Code	
			VOLTS	AP	BC	CA	ABC		10 MCM	15 MCM			
1	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
2	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
3	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
4	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
5	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
6	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
7	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
8	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
9	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
10	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
11	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
12	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
13	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
14	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
15	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
16	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
17	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
18	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
19	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
20	20	APRINTING OUTLET	120	230	1.30			20A	10 MCM	15 MCM	10	10, 10A, 10	
TOTAL			1200	230	20.25	17.28	17.28	0.00	20A	10 MCM	15 MCM	20	10, 10A, 10
FEEDER AND CURRENT PROTECTION COMPUTATION:													
NOTE:			1. 120V, 230V, 200										



GRD. FLOOR AC OUTLET LAYOUT

SCALE: 1:300 MTS



2ND FLR. AC OUTLET LAYOUT

SCALE: 1:300 MTS

CADD BY: <i>E. N. RODRIGOS JR.</i>	PROFESSIONAL ELECTRICAL ENGR.: <i>R. P. DELA</i>				PROJECT TITLE/LOCATION:	IMPLEMENTING AGENCY	SHEET NO.
END USER: <i>L. ABOGADIE</i> DIRECTOR	ENDORSED BY: <i>O. B. DELOS REYES</i> DIRECTOR, PLANNING OFFICE	REC. APPROVAL: <i>L. L. CERO</i> VPPD	APPROVED BY: <i>C. A. POLINGA</i> CVSU	PRES <i>H. O. ROBLES</i> CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 5

TYP. 3RD - 4TH FLR. AC OUTLET LAYOUT

SCALE 1-100 MTS

CADD BY:  E. N. RODEROS JR.	PROFESSIONAL ELECTRICAL ENGR.:  R. W. PESSA
END USER:  L. ABOGAYDE DIRECTOR OSA	ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING OFFICE

✓ LL CERO VPFO CVSU	REC. APPROVED C. A. POLINGA VPASS CVSU
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APPROVED: 	PROJECT TITLE/LOCATION:	IMPLEMENTING AGENCY	SHT NO.
H. J. ROBLES PRES. CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 6

SCHEDULE OF LOADS

[illegible]

PANEL TYPE (TYPICAL - FPFB)			TABLE 3: 140 SQ. MM THHN + G-0.0 SQ. MM THHN										MAIN: 10 FT, 1004P, 3P, 230V, 18.0AFC, MCCB		
PHASE: 3			CONDUIT: RSC, 30 MM DIA										ENCLOSURE: NEMA 1		
WIRING: 3/8"			LOCATION: BROWNS FLOOR										MOUNTING: SURFACE		
CIR	NO OF CIRCUITS	CIRCUIT DESCRIPTION	CIRCUIT TYPE										WIRE SIZE (mm ²)	WIRE TYPE	Cable Size
			1PH	2PH	3PH	4W	5W	6W	7W	8W	9W	10W			
1	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
2	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
3	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
4	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
5	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
6	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
7	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
8	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
9	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
10	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
11	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
12	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
13	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
14	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
15	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
16	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
17	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
18	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
19	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
20	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
21	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
22	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
23	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3.0 + 0.0 - 0.0	15
24	10	CONDUIT INLET	2000	230	10.00								200T, 3P, 18 BAW	2 - 3	

SCHEDULE OF LOADS

PANEL: GFCP		CABLE: 3-NE 82 SQ MM THHN + G 143 SQ MM THHN		MAIN: 200 AT, 250AF, 3P, 20KV, 22 KNC-MCCB	
PHASE: 3		CONDUIT: 80 MM DIA		ENCLOSURE: NEMA1	
VOLT: 230		LOCATION: GROUND FLOOR		MOUNTING: SURFACE	
		CIRCUIT		Size of Conductor	
CRIT	NO. OF CIRCUITS	CIRCUIT DESCRIPTION	VOLT- AMPERE	AMPERE	Size of Conductor
					Color Code
1	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
2	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
3	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
4	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
5	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
6	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
7	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
8	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
9	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
10	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
11	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
12	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
13	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
14	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
15	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
16	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
17	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
18	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
19	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
20	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
21	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
22	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
23	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
24	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
25	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
26	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
27	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
28	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
29	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
30	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
31	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
32	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
33	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
34	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
35	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
36	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
37	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
38	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
39	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
40	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
41	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
42	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
43	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
44	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
45	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
46	3	AIR COND. UNIT OUTLET, 2HP	2000 2.20	12.00	14, 18K, 15
47					

CABLE: 3-0E 50 MM THIN + 0.18 SQ MM THIN										MAIN: 200 AF, 225AF, 3P, 23KV, 22 MVA, ACB			
CONDUIT: RSC, 90 MM DIA										ENCLOSURE: NEMA 1			
LOCATION: SECOND FLOOR										MOUNTING: SURFACE			
PANEL: 8FC		CIRCUIT PROTECTION										Circuit Breaker	
PANEL: 8FC		CIRCUIT PROTECTION											
PANEL: 8FC		CIRCUIT PROTECTION											
PANEL: 8FC		CIRCUIT PROTECTION											
PANEL: 8FC		CIRCUIT PROTECTION											
PANEL: 8FC		CIRCUIT PROTECTION											
PANEL: 8FC		CIRCUIT PROTECTION											
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PANEL: 8FC		CIRCUIT PROTECTION											
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PANEL: 8FC													

CADD BY:  E. N. RODEROS JR.	PROFESSIONAL ELECTRICAL ENGR.  R. P. BERNIA						
END USER:  L. ABOGADIE DIRECTOR OBA	ENDORSED BY:  G. B. DELLOS REYES DIRECTOR PLANNING OFFICE	VFPD  L. CERO CVSU	REC. APPROV.  C. A. POLINGA VPASS CVSU	APPROVED  H. D. ROBLES PRES CVSU	PROJECT TITLE / LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHT NO: E - 7

SCHEDULE OF LOADS

PANEL TYPE (FFPC - TYPICAL)	CABLE: 3 - NO. 50, 100 THHN + 3 14.0 SQ MM THHN	MAN: 200 AF, 225AF, 3P, 200N, 22 MNC, 100CC
PHASE: 3	CONDUIT: RSC, 80 MM DIA	ENCLOSURE: NEMA 1
VOLTS: 200	LOCATION: THIRD FLOOR	MOUNTING: SURFACE

UNIT	NO. OF RECEPTS	CIRCUIT DESCRIPTION	LOAD IN				X-MINUS		CIRCUIT BREAKER RATING		Equiv. of 100% Demand		B-50 of 100% Demand	Notes	
			100% AMPERS	100% VA	40 VA	100% VA	40 VA	100% VA	100% VA	100% VA	100% VA	100% VA			
1	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00				STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12	
2	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
3	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
4	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
5	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
6	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
7	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
8	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
9	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
10	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
11	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
12	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
13	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
14	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
15	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
16	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
17	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
18	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
19	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
20	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
21	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
22	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
23	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
24	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
25	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00			STAT. 2P 10 A MCCB	2.35	+ 0.28	18	18.00	12		
26	1	AIR COND. UNIT OUTLET, 2HP	2000	2300	12.00										

FEEDER and CURRENT PROTECTION COMPUTATION

NOISE	$f_{A-} = \frac{1.732 \times 98 \times 200 \times 10^{-6} \times 100}{100} = 100.27 \text{ Ampere}$ $I_{DC} = 7.919 \text{ SQMM THHN}(18.27A/17A) + 1.83 \text{ SQMM THHN IN NM MM CBL RSC}$
G- Master Ground Wire 14- Color RED 10M- Color BLACK 10- Color GREEN	$f_{B-} = \frac{1.732 \times 68 \times 200 \times 10^{-6} \times 100}{100} = 100.27 \text{ Ampere}$ $I_{DC} = 300A7, 370A7, 3P, 200V, 230A4C, CB$

This Electrical Design is good only for the above connected loads. Any additional electrical load connection in the future is prohibited. Exact redesign of electrical load system will be done.

DADO BY:  E. N. RODEROS JR. PROFESSIONAL ELECTRICAL ENGR. R. P. PERA												
ENDORSED BY:  L. ABOGAME DIRECTOR OSA		RECOMMENDED BY:  O. B. DELOS REYES DIRECTOR PLANNING OFFICE		REC. APPROVED BY:  R. P. PERA VPPD CUSU		APPROVED BY:  H. D. ROBLES PRES. CUSU		PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CIVIL MAIN CAMPUS		IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY		BHT NO: E-8

MAIN DISTRIBUTION PANEL

PANEL: DPT1		CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ. MM THHN				MAINLINE: 275AT, 480VAF, 3P, 230V, 30 KVA, MCCB							
PANEL: 3		CONDUIT: RSC, 80 MM DIA				ENCLOSURE: NEMA 1							
VOLTS: 230		LOCATION: GROUND FLOOR				MOUNTING: SURFACE							
CIRCUIT NO.	PANEL DATA	PANEL DESCRIPTION	LOADS					CIRCUIT PROTECTION		Size of Conductor		Color Code	
			VOLTS LAMPERS	VOLTS	W	VA	CA	ABC	CIRCUIT BREAKER AMPERS	* 60 MM THHN	* 60 MM THHN		
1	GFTH	GROUND-FLOOR PANEL A	17000	230	37.83	19.13	37.80	60AT, 3P, 18 MAC	3 - 8.0	+ 6.5.5	3P	18, 18, 18, 17, 0	
2	GFTH	GROUND-FLOOR PANEL B	22200	230	38.35	36.57	18.88	60AT, 3P, 18 MAC	3 - 14.0	+ 6.2.5	3P	18, 18, 18, 17, 0	
3	GFTH	GROUND-FLOOR PANEL C	48800	230	66.00	62.00	66.00	275AT, 3P, 230VAC	3 - 8.0	+ 6.34.0	3P	18, 18, 18, 17, 0	
4													
TOTAL			83400	230	142.17	140.70	141.68	0.00	275AT, 3P, 230VAC	3 - 13X.8	+ 6.37.0	3P	18, 18, 18, 17, 0

FEEDER AND CURRENT PROTECTION COMPUTATION

NOTE:	$I_{sc} = \frac{[1.732 \times 185.17 \times 200\% \times 1m]}{Z_{sc}}$ $\therefore 276.15$ Amperes
G - Means Ground Wire	
18 - Color RED	
18K - Color GREEN	
1G - Color BLACK	
	$I_{sc} = \frac{[1.732 \times 185.17 \times 200\% \times 1m]}{Z_{sc}}$ $\therefore 276.15$ Amperes
	USE: 275AT, 480VAF, 3P, 230V, 30KVA, CB

This Electrical Design is good only for the above connected loads.
 Any additional electrical load connected in the future is prohibited.
 Proper installation of electrical load system will be done.

PANEL DATA		CABLE: 3-90/3 RG, 90W THHN + G 14/3 RG 90W THHN							MAIN: 275AT, 4064P, 3P, 230V, 30 LAC, MCCB			
PANEL 3		CONDUIT: RSC, 90 MM DIA							ENCLOSURE: NEMA 1			
VOLTS: 330		LOCATION: FOURTH FLOOR							MOUNTING: SURFACE			
CIR NO.	NAME CODE	PANEL DESCRIPTION	LOAD IN		LAMPED		CIRCUIT PROTECTION		SIZES OF CABLES		Size of Conduit in mm x	Color Code
			VOLTS AMPERE	WATT	PH	RC	CA	ABC	CIRCUIT BREAKER RATING	90 MM ² mm ²		
1	TERA	TERMINAL PANEL A	2000	100	0.00	17.28	17.28	0	250AT, 3P, 18.0AAC	3 - 8.0 + 0.3.5	25	18.0AC, 17.0
2	TIFB	TERMINAL PANEL B	2000	100	0.00	17.28	17.28	0	250AT, 3P, 18.0AAC	3 - 8.0 + 0.3.5	25	18.0AC, 17.0
3	TIFC	TERMINAL PANEL C	2000	100	0.00	17.28	17.28	0	250AT, 3P, 230VAC	3 - 8.0 + 0.4.8	30	18.0AC, 17.0
TOTAL			6000	300	0.00	51.84	51.84	0.00	275AT, 3P, 230AAC	3 - 12.0 + 0.3.5	100	18.0AC, 17.0

FEEDER AND CIRCUIT PROTECTION COMPUTATION

NOTE

1-0 - $\frac{1.732 \times 150.00 \times 2000 \times 0.991}{1000} = 200.43$ Ampere

0 - Means Grounded Wire

1R - Color RED

1B - Color BLACK

1G - Color GREEN

1-0 - $3 - 12.0$ SQMM THW90 (2754T + 1) + 1 - 22.0 SQMM THW90 IN 100 MM DIA, RSC

1-0 - $\frac{1.732 \times 150.00 \times 2000 \times 0.991}{1000} = 200.43$ Ampere

1-0 - 275AT, 4064P, 3P, 230V, 30AAC, CB

This Electrical Design is good only for the above connected loads

It is additional electrical load connection in the future is prohibited.

Exempt removal of electrical load system with its done

PANEL: DP2										CABLE 3 - 60.0 SQ. MM THHN + 0.143 SQ MM THHN										EQUIP. 275 AT, 800M, 3P, 200K, 30 ANCHORS									
PHASE: 230										CONDUIT: RSC, 80 MM DIA										WIRING: NEW 1									
LOCATION: SECOND FLOOR										WIRING: SURFACE																			
CMT	PANEL	PANEL DESCRIPTION	LOADS				CIRCUIT PROTECTION				Size of Conductor				Size of Conduit				Color Code										
			VOLTS	AMPS	VOLTS	AMPS	AMPS	CIRCUIT BREAKER	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS													
1	3PFA	SECOND FLR PANEL A	115-208	230	70.0	20.0	20.0	0	200AT, 3P, 18 VAC	2	3-0.0	0	0.0	0	0.0	20	1.50	1.5	0										
2	3PFB	SECOND FLR PANEL B	115-208	230	34.0	34.0	34.0	0	200AT, 3P, 18 VAC	2	3-0.0	0	0.0	0	0.0	20	1.50	1.5	0										
3	3PFC	SECOND FLR PANEL C	115-208	230	66.0	66.0	66.0	0	200AT, 3P, 220VAC	2	3-0.0	0	0.0	0	0.0	20	1.50	1.5	0										
4	3PFA	SECOND FLR PANEL A	115-208	230	130.0	130.0	130.0	0.00	275AT, 3P, 220VAC	2	3-1.0	0	0.0	0	0.0	20	1.50	1.5	0										
FEEDER AND CURRENT PROTECTION COMPUTATION																													
NOTE: $I_{FE} = \frac{1,730 \times 146.84 \times 275 \times 10^{-3}}{1,730 \times 146.84 \times 275 \times 10^{-3}} = 200.00$ Amps																													
0 - Means Ground Wire																													
18K - Color RED																													
18K - Color BLACK																													
10 - Color GREEN																													
EQUIP. 275AT, 800AT, 3P, 200V, 30AN, CB																													
THIS ELECTRICAL DESIGN IS GOOD ONLY FOR THE ABOVE CONNECTED LOADS																													
ANY ADDITIONAL ELECTRICAL LOAD CONNECTIONS IN THE FUTURE ARE PROHIBITED																													
REMOVAL RESULTING IN ELECTRICAL LOADS MUST BE DONE																													

PANEL MAP			CABLE: 3- 800 SQ MM THHN + 0.143 SQ MM THHN						RANK: 275A2 420V, 3P, 230V, 3E, 30A/100A			ENCLOSURE: NEMA1		
PHASE: 3			CONDUIT: RSC, 80 MM DIA						MOUNTING: SURFACE					
VOLT: 230			LOCATION: FOURTH FLOOR											
CIR NO	PANEL CODE	PANEL DESCRIPTION	LOAD IN					CIRCUIT PROTECTION			Size (mm ²)		Breaker Rating (Amps)	Color Code
			VOLT AMPERE	VOLT	AMP	BC	CA	ANC	CIRCUIT BREAKER Rating	40 MM ²	70 MM ²	100 MM ²		
1	SP1	DISTRIBUTION PANEL 1	3040	230	981.37	148.10	181.91	0	275AT, 3P, 230VAC	3-178.6	0	0	225	1A,18A,17.0
2	SP2	DISTRIBUTION PANEL 2	3080	230	100.88	150.65	182.82	0	275AT, 3P, 230VAC	3-128.6	0	0	225	1A,18A,17.0
3	SP3	DISTRIBUTION PANEL 3	3070	230	101.87	150.65	182.82	0	275AT, 3P, 230VAC	3-128.6	0	0	225	1A,18A,17.0
4	SP4	DISTRIBUTION PANEL 4	3070	230	100.88	150.65	182.82	0	275AT, 3P, 230VAC	3-128.6	0	0	225	1A,18A,17.0
5	MP	JUNCTION PANEL, 1-WP	1800	230	1800	230	14.00	0	30AT, 3P, 230VAC	2-1.5	0	0	25	1A,18A,17.0
6	MP	FEED PUMP PANEL, 2-WP	1800	230	1800	230	14.00	0	30AT, 3P, 230VAC	3-32.0	0	0	40	1A,18A,17.0
7	MP	WATER PUMP PANEL, 2-WP	1800	230	1800	230	12.00	0	30AT, 3P, 230VAC	3-1.5	0	0	25	1A,18A,17.0
8	SPARE													
9	TOTAL		29440	230	297.53	209.12	247.37	68.00	275AT, 3P, 230VAC	3-2112.8	0	0	225	1A,18A,17.0

FEEDER AND CURRENT PROTECTION COMPUTATION

NOTE:

- G - Means Ground/ Wire
- W- Color RED
- BN- Color BLACK
- LN- Color GREEN

$I_{in} = \frac{1,732 \times 586.87 \times 299 \times \tan^{-1} \phi}{\sqrt{3} \times 230} = 172.96 \text{ Amperes}$
 Line: 3- 3-520 SQ MM THHN/ALUMINUM + 1- 23.0 SQMM THHN IN 80 MM DIA. RSC

$I_{in} = \frac{1,732 \times 586.87 \times 250.75 \times \tan^{-1} \phi}{\sqrt{3} \times 230} = 146.16 \text{ Amperes}$
 Line: 180AAT, 4200AAT, 3P, 230V, 30A/AC, CB

$$kVA = \frac{VA}{1000} = \frac{17296}{1000} = 17.296$$

$$\text{amp} = \frac{1000}{230}$$

$$VA = 3 \times 100 \text{ kVA, Pole Mounted Transformer, 1000/230/230V 230V, 30A}$$

This Electrical Design is valid only for the above mentioned loads
 Any additional electrical load connection to the fabric is prohibited.
 (Except rearrange of electrical load system will be allow)

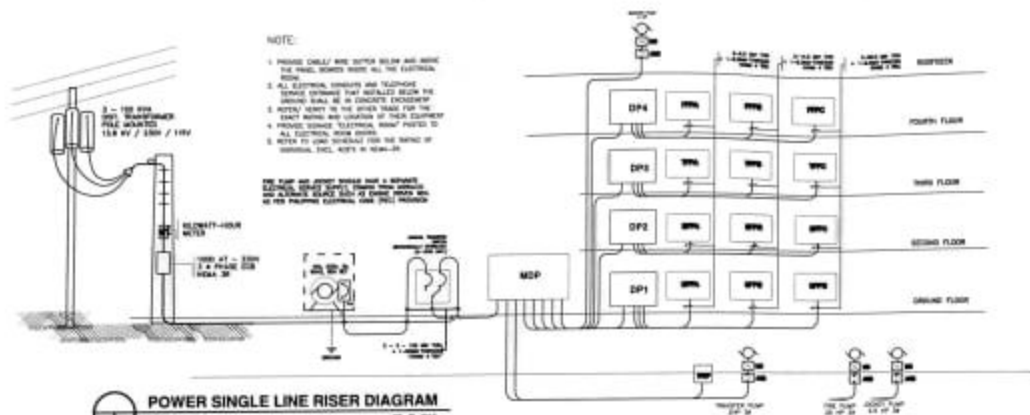
CADD BY:  E. N. RODEROS JR.	PROFESSIONAL ELECTRICAL ENGR.:  R. P. PENA
FIND USER:  L. A. BOGGS DIRECTOR	ENDORSED BY:  C. B. DELOS REYES DIRECTOR PLANNING OFFICE

 L. L. CERO VPVPD CVSU	 G. A. POLINGA VPVPD CVSU	 H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHIT NO: E - 9
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GENERAL NOTES & SPECIFICATIONS

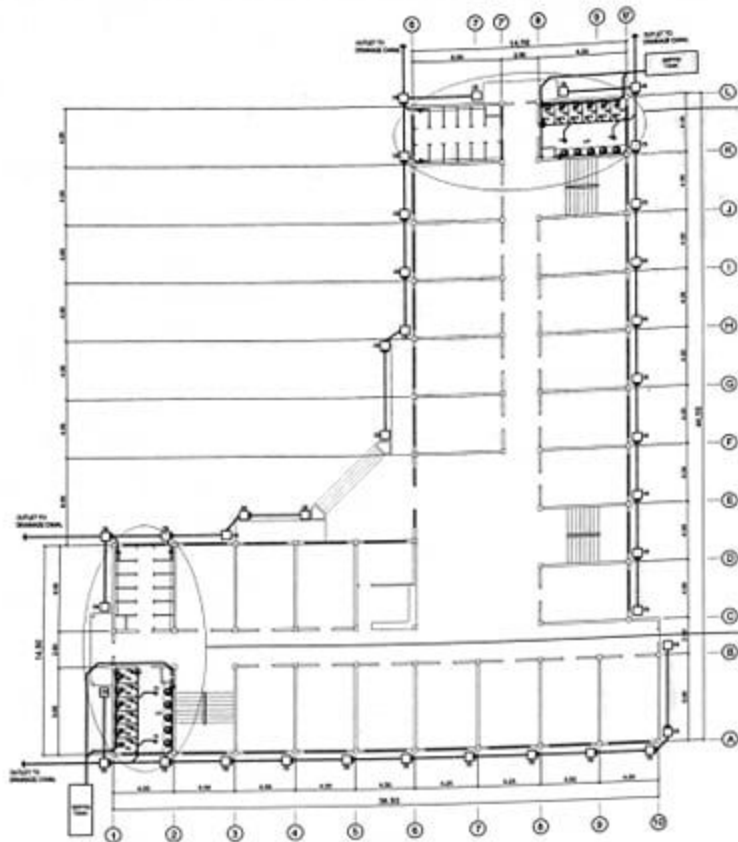
1. ALL ELECTRICAL WORKS SHALL COMPLY W/ THE PROVISIONS OF THE PHILIPPINE ELECTRICAL CODE RULES & REGULATIONS CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS & OF THE LOCAL POWER COMPANY & EXISTING LOCAL AUTHORITIES ORDINANCES.
2. SERVICE VOLTAGE TO THE BUILDING FROM THE POWERSOURCE SHALL BE 230 VOLTS 2-PHASE, 60 Hz, 3 WIRES.
3. ELECTRICAL WORKS SHALL BE IN PVC AND RSC CONDUIT
4. ALL WIRE TO BE USED SHALL BE COPPER W/ THERMOPLASTIC INSULATION TYPE "THHD" UNLESS OTHERWISE INDICATED.
5. ALL PANEL BOARD SHALL BE 1.5 M HIGH ON CENTER
6. WORKMANSHIP SHALL BE FIRST CLASS & IN ACCORDANCE W/ MODERN ENGINEERING PURPOSES.
7. ADEQUATE SERVICE EQUIPMENT GROUNDING SHALL BE PROVIDED.

LEGENDS & SYMBOLS:

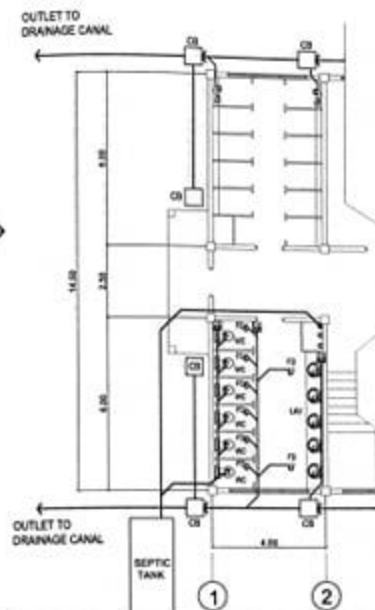
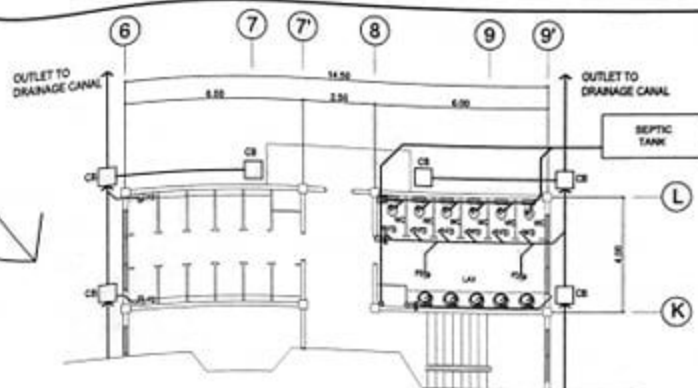


POWER SINGLE LINE RISER DIAGRAM

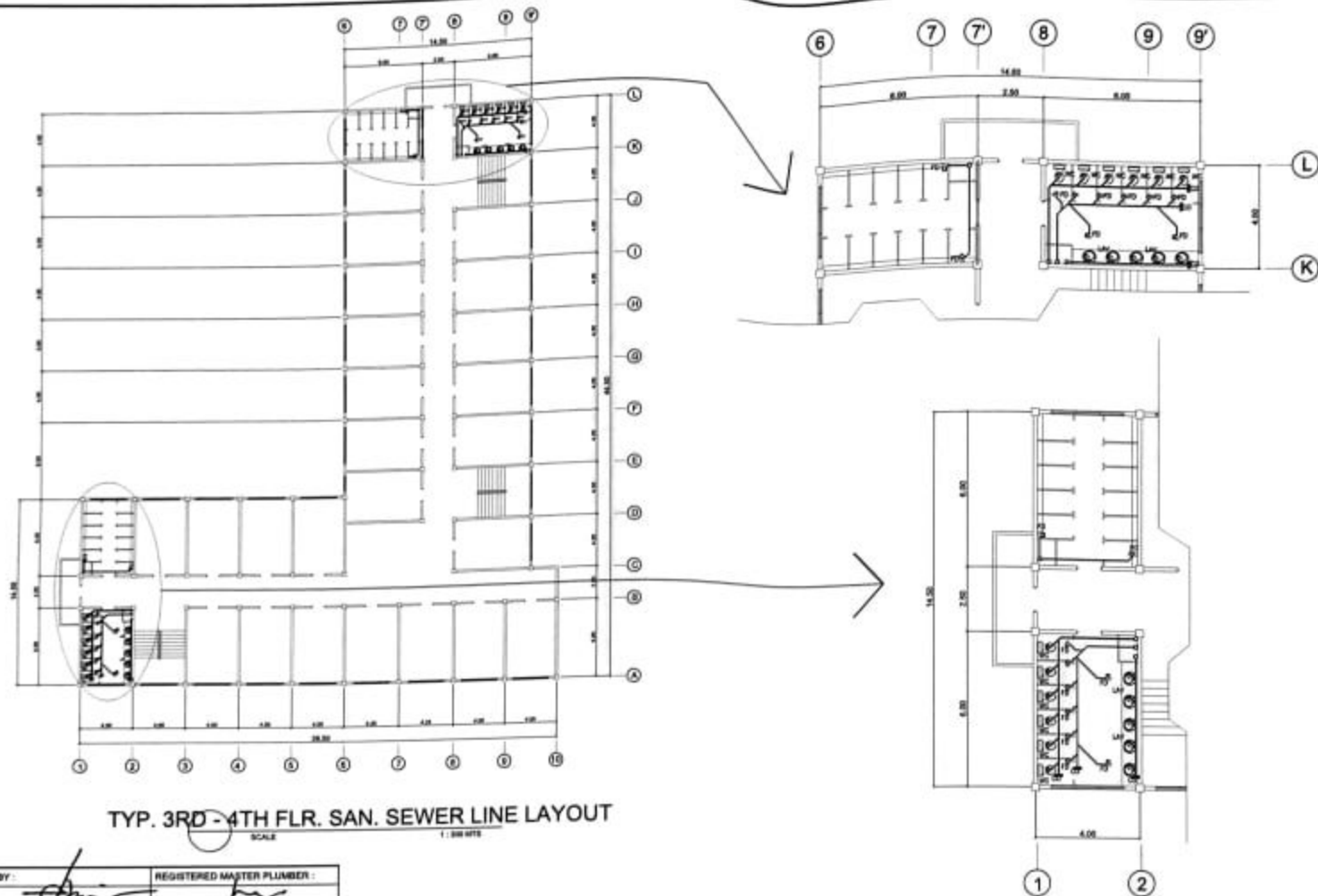
DADD BY:  E. N. ROBEROS JR.		PROFESSIONAL/ELECTRICAL ENGR.:  R. P. PENA	
ENDORSED BY:  L. ABOGADIE DIRECTOR OSA		ENDORSED BY:  O. B. DELOS REYES DIRECTOR PLANNING OFFICE	
REC. APPROVAL:  L. L. CERO VPPO CVSU		REC. APPROVAL:  O. A. POLINGA VPAS CVSU	
APPROVED:  H. D. ROBLES PRES CVSU		PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	
IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY		SHT NO: E - 10	



GRD. FLR. SAN. SEWER LINE LAYOUT
SCALE 1" = 30' NTS



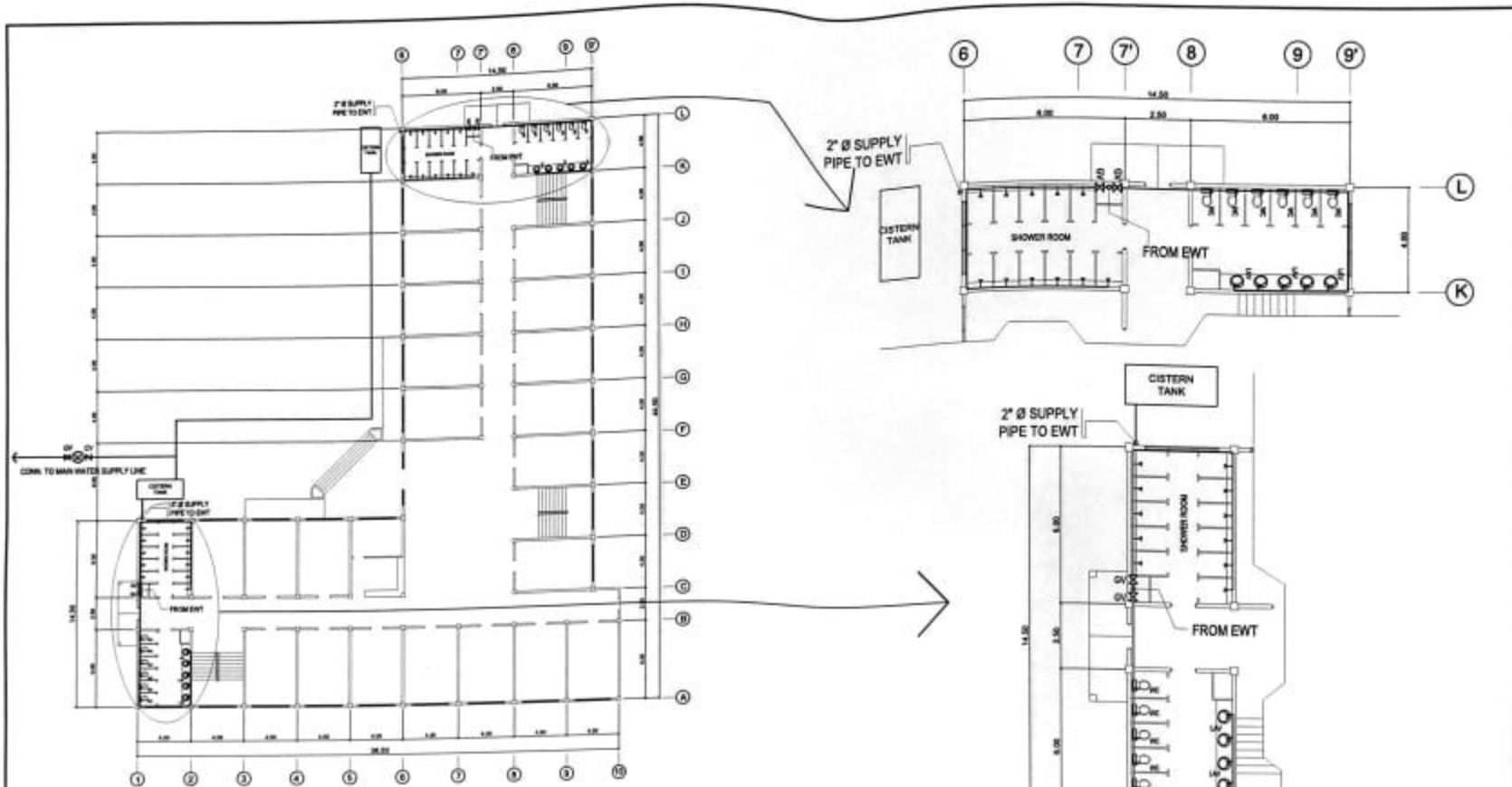
DADO BY: E. N. RODEROS JR.	REGISTERED MASTER PLUMBER: S. B. BAYOT JR.	REC. APPROVAL: L. L. CERO VPPD CVSU		APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHEET NO. P - 1
END USER: L. ABOGADIE DIRECTOR OBA	ENDORSED BY: O. B. DE LOS REYES DIRECTOR PLANNING OFFICE	REC. APPROVAL: G. A. POLINGA VP/AS CVSU		APPROVED BY: H. D. ROBLES PRES CVSU	PROJECT TITLE/LOCATION CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY CAVITE STATE UNIVERSITY	SHEET NO. P - 1



TYP. 3RD - 4TH FLR. SAN. SEWER LINE LAYOUT

SCALE 1:500 HTS

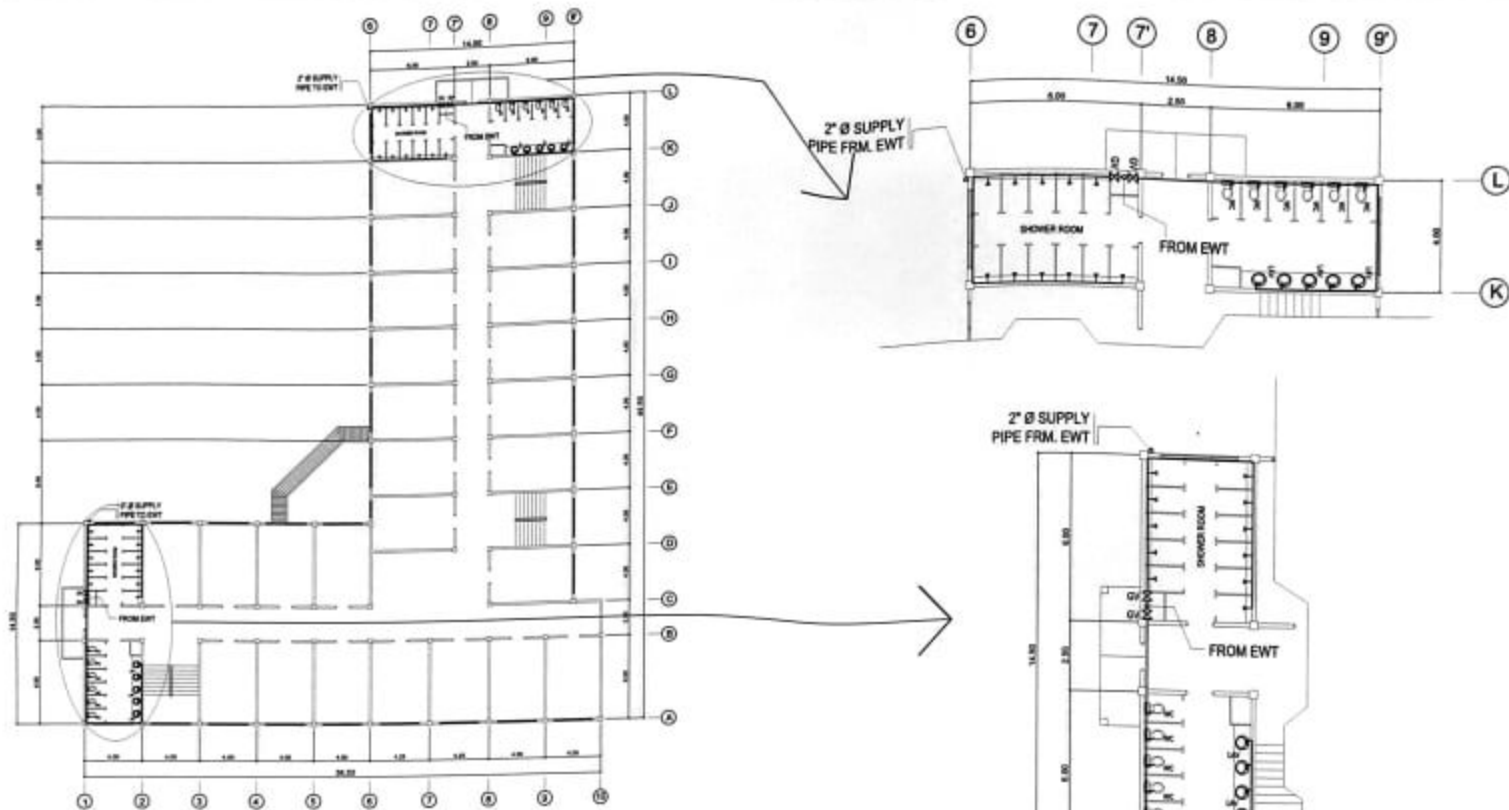
DRAWN BY:		REGISTERED MASTER PLUMBER:	
E. N. RODERO JR.		S. B. BAYOT JR.	
END USER:	ENDORSED BY:	REC. APPROVAL:	APPROVED BY:
L. ABOGADIE	O. B. DELOS REYES	L. L. CERO	H. D. ROBLES
DIRECTOR	DIRECTOR - PLANNING OFFICE	VPPD	PRES
PROJECT TITLE/ LOCATION:		IMPLEMENTING AGENCY:	
CONSTRUCTION OF FOUR STOREY DORMITORY		CAVITE STATE UNIVERSITY	
CVSU, MAIN CAMPUS		SHT NO.:	
		P - 3	



GRD. FLOOR WATER LINE LAYOUT

SCALE 1:300 MTS

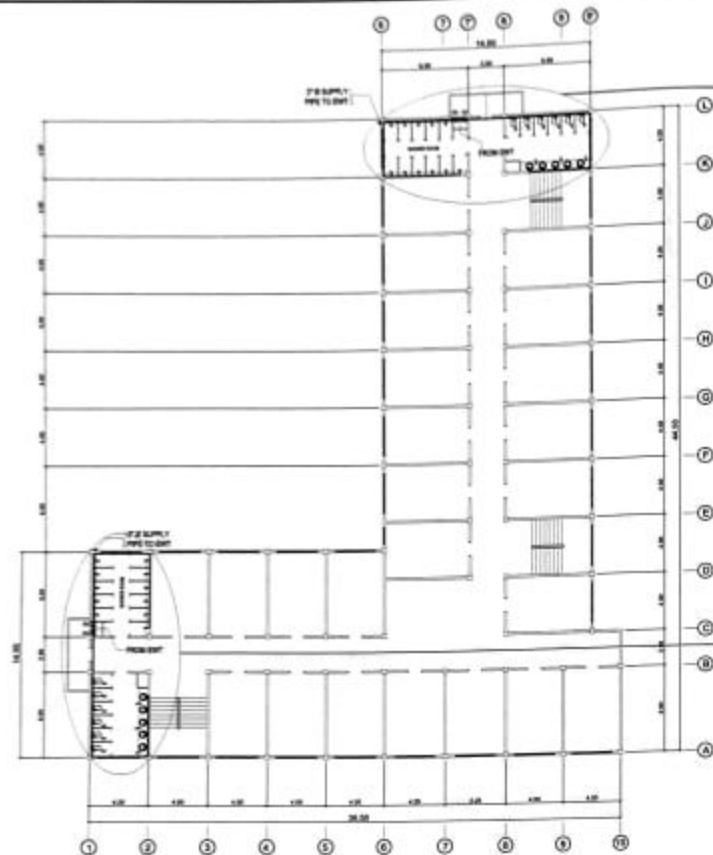
CADD BY: <i>[Signature]</i> E. N. RODEROS JR.		REGISTERED MASTER PLUMBER: <i>[Signature]</i> S. B. BAYOT JR.		REC. APPROVED: <i>[Signature]</i> C. A. POLINGA VPASS CVSU		APPROVED BY: <i>[Signature]</i> H. D. ROBLES PRES CVSU		PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 4
END USER: <i>[Signature]</i> L. ABOGADIE DIRECTOR OSA	ENDORSED BY: <i>[Signature]</i> O. B. DELOS REYES DIRECTOR PLANNING OFFICE	<i>[Signature]</i> L. L. CERO VPPD CVSU								



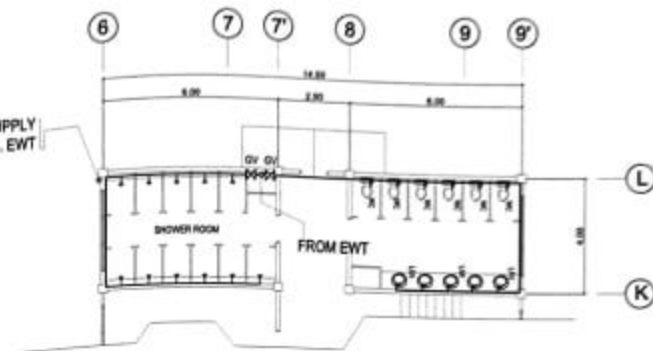
2ND FLOOR WATER LINE LAYOUT

SCALE 1:300 MTS

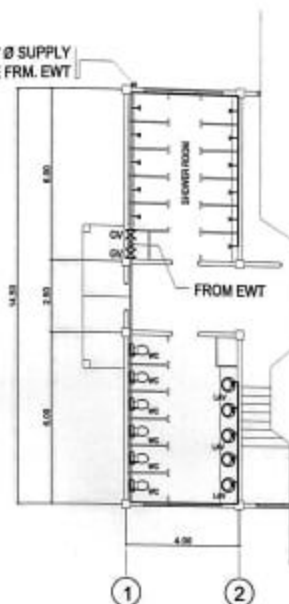
CADD BY: E. N. RODRIGUEZ JR.	REGISTERED MASTER PLUMBER: S. B. BAYOT JR.						
END USER: L. ABOGADIE DIRECTOR OBA	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE	REC. APPROV: L. L. CERO VPPD CVSU	REC. APPROV: C. A. POLINGA VPASU CVSU	APPROVED BY: H. G. ROBLES PRES CVSU	PROJECT TITLE/LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	SHT NO.: P - 5



2" Ø SUPPLY
PIPE FRM. EWT



2" Ø SUPPLY
PIPE FRM. EWT

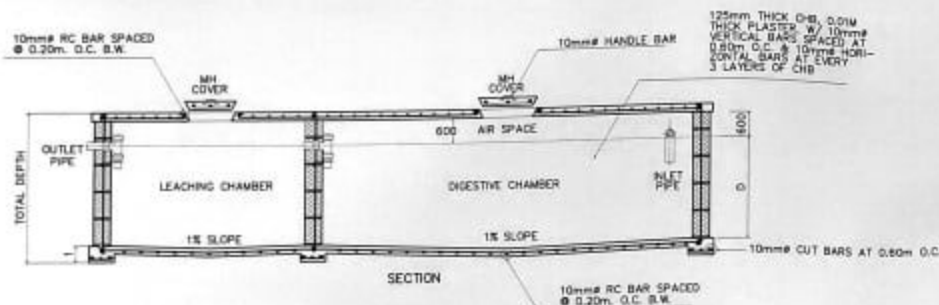
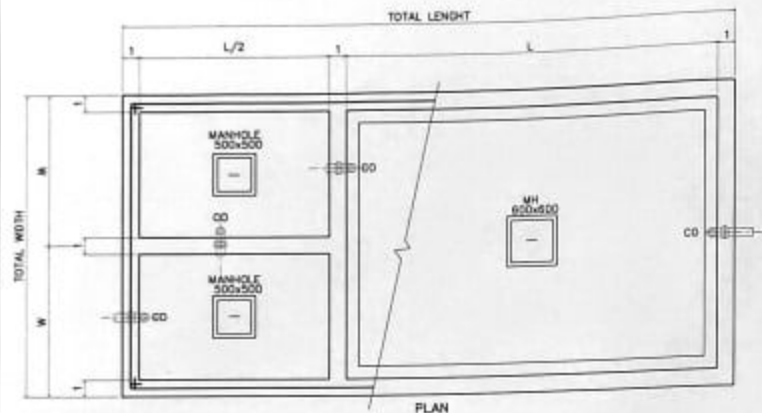


TYP. 3RD-4TH FLR. SAN SEWER LINE LAYOUT

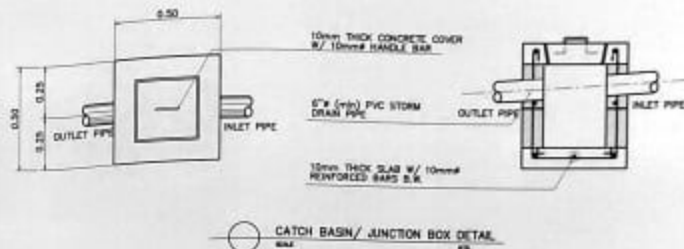
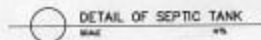
SCALE

1:100 MTS

CADD BY:	REGISTERED MASTER PLUMBER:		REC. APPROV:		APPROVED BY:	PROJECT TITLE/LOCATION:	IMPLEMENTING AGENCY	SHT NO:
E. N. RODRIGOS JR.	S. B. BAYOT JR.		C. A. POLINGA		H. D. ROBLES	CONSTRUCTION OF FOUR STOREY DORMITORY	CAVITE STATE UNIVERSITY	P-6
END USER:	ENDORSED BY:							
L. ABOGADIE	O. B. DELOS REYES	L. L. CERO	VPASSU	CVSU	PRES	CVSU, MAIN CAMPUS		
DIRECTOR	OSB	VPPO						
	DIRECTOR - PLANNING OFFICE							



SEPTIC TANK DIMENSION					
LENGTH (L)	L/2	TOTAL LENGTH	WIDTH (W)	TOTAL WIDTH	DEPTH (D)
3600 MM	1800 MM	5400	1000 MM	2000 MM	1500 MM



GENERAL NOTES

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHIL. PLUMBING CODE, THE NATIONAL PLUMBING CODE & THE RULES & REGULATIONS OF INDANG, CAVITE.
- COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES APPROVED EQUAL.
- ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% UNLESS OTHERWISE SPECIFIED.
- SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT UNLESS OTHERWISE SPECIFIED.
- ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

CADD BY: E. N. ROBEROS JR.		REGISTERED MASTER PLUMBER: S. B. BAYOT JR.	
END USER: L. ABOGADIE DIRECTOR OBA	ENDORSED BY: O. B. DELOS REYES DIRECTOR PLANNING OFFICE	REC. APPROV. L. L. CERO VPFD CVSU	APPROVED BY: H. D. ROBLES PRES CVSU
PROJECT TITLE/ LOCATION: CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS		IMPLEMENTING AGENCY: CAVITE STATE UNIVERSITY	
SHT NO: P - 7			