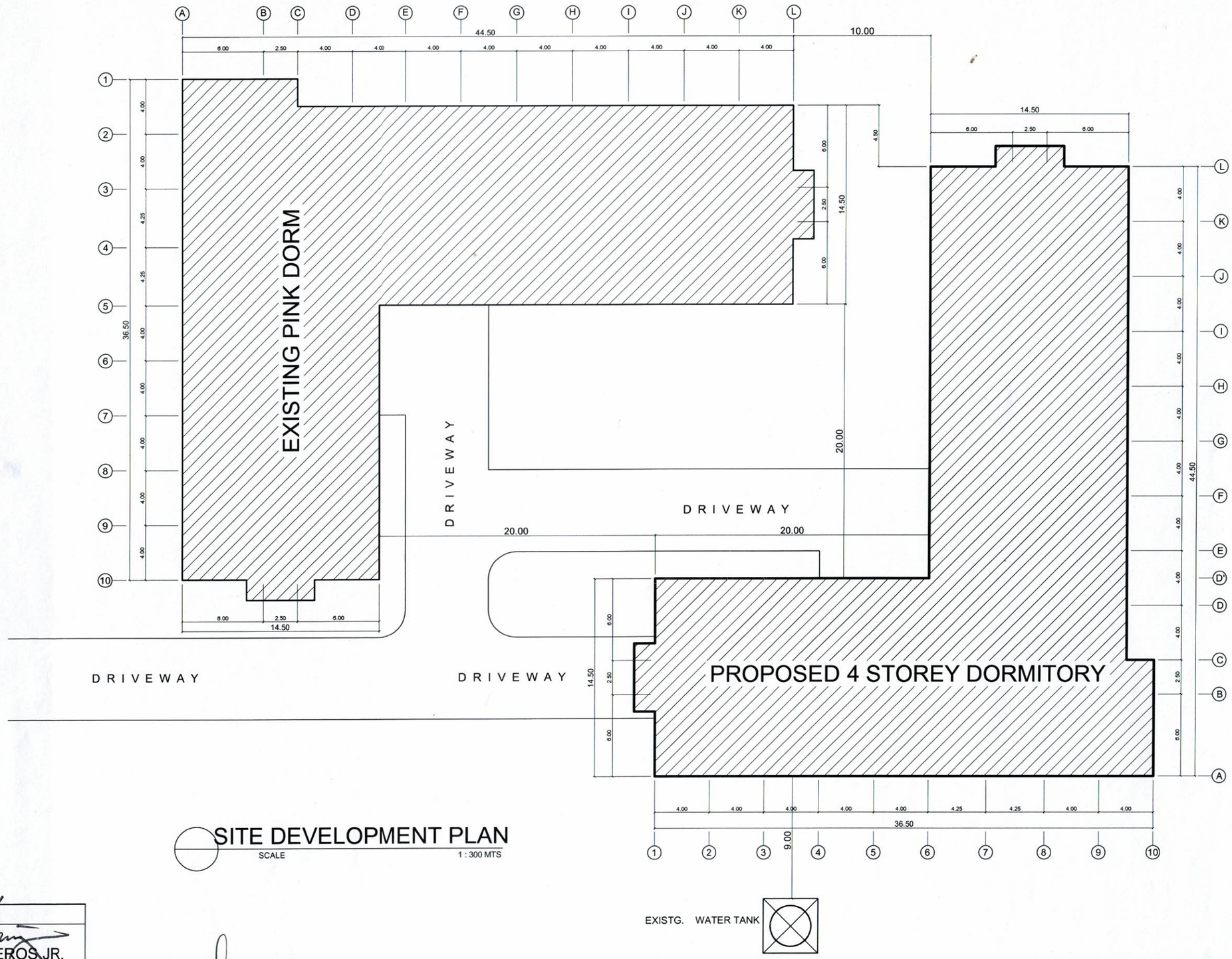
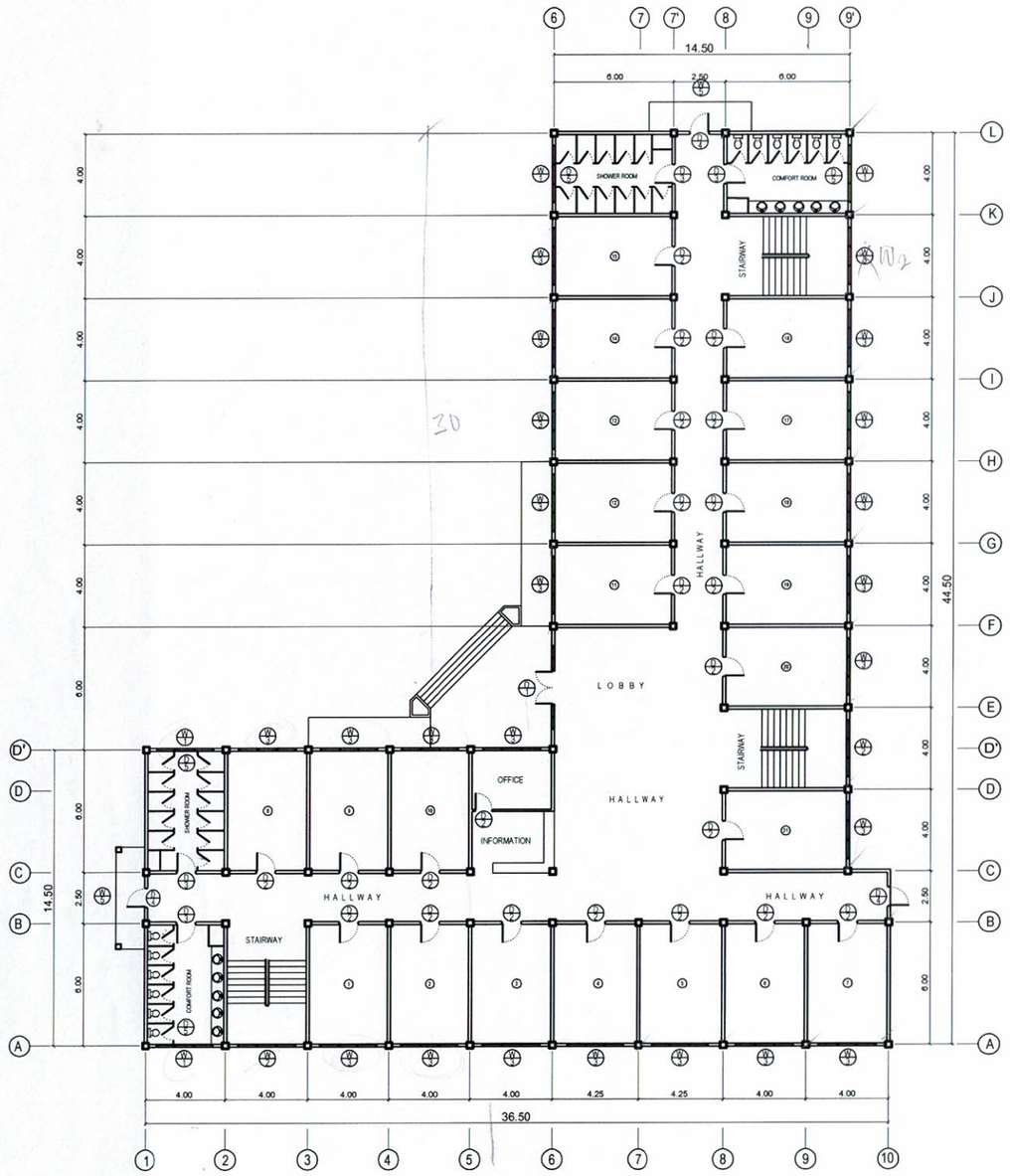


SITE DEVELOPMENT PLAN

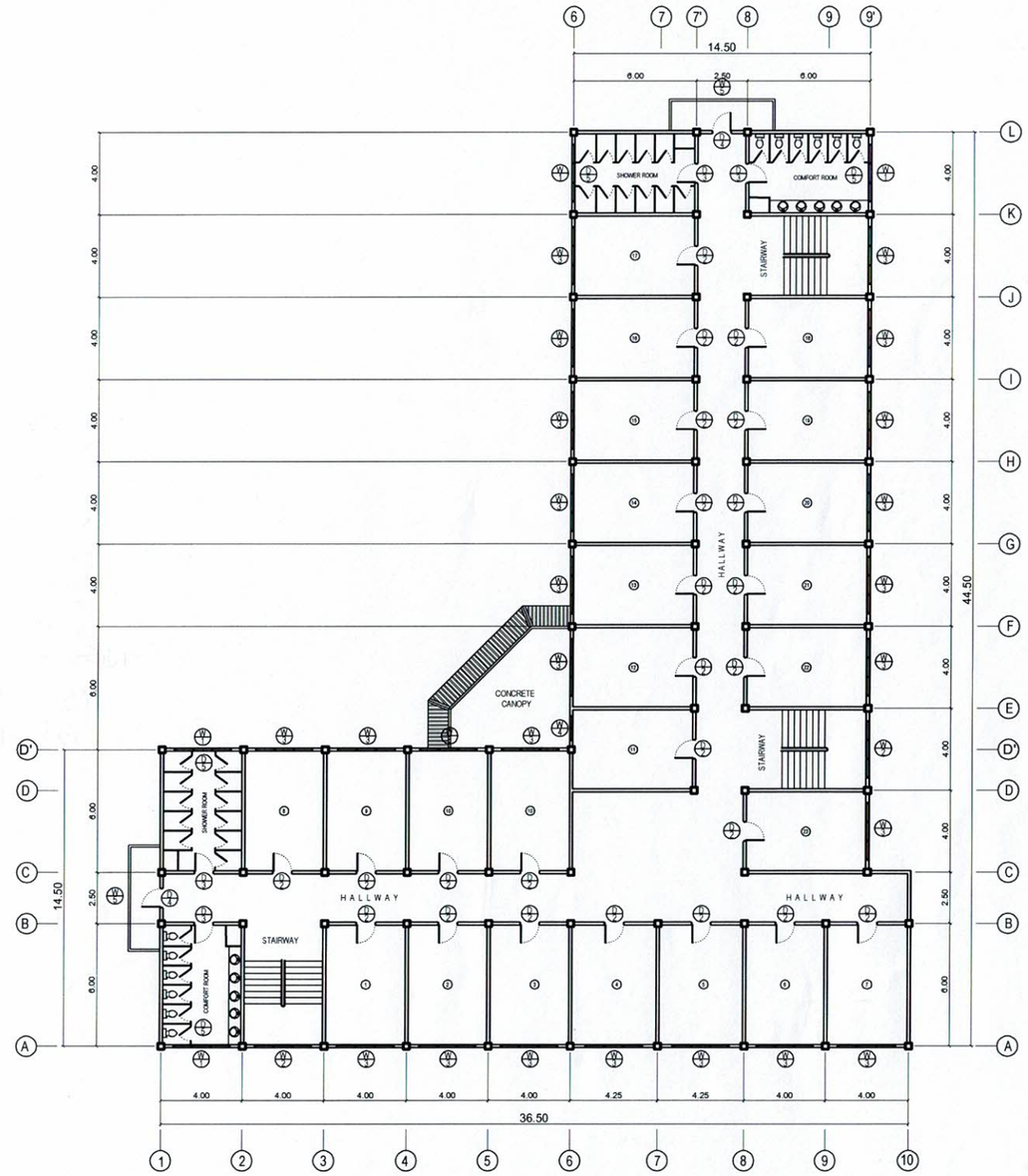
SCALE 1 : 300 MTS

CADD BY :						
E. N. RODEROS JR.						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 1



GROUND FLOOR PLAN

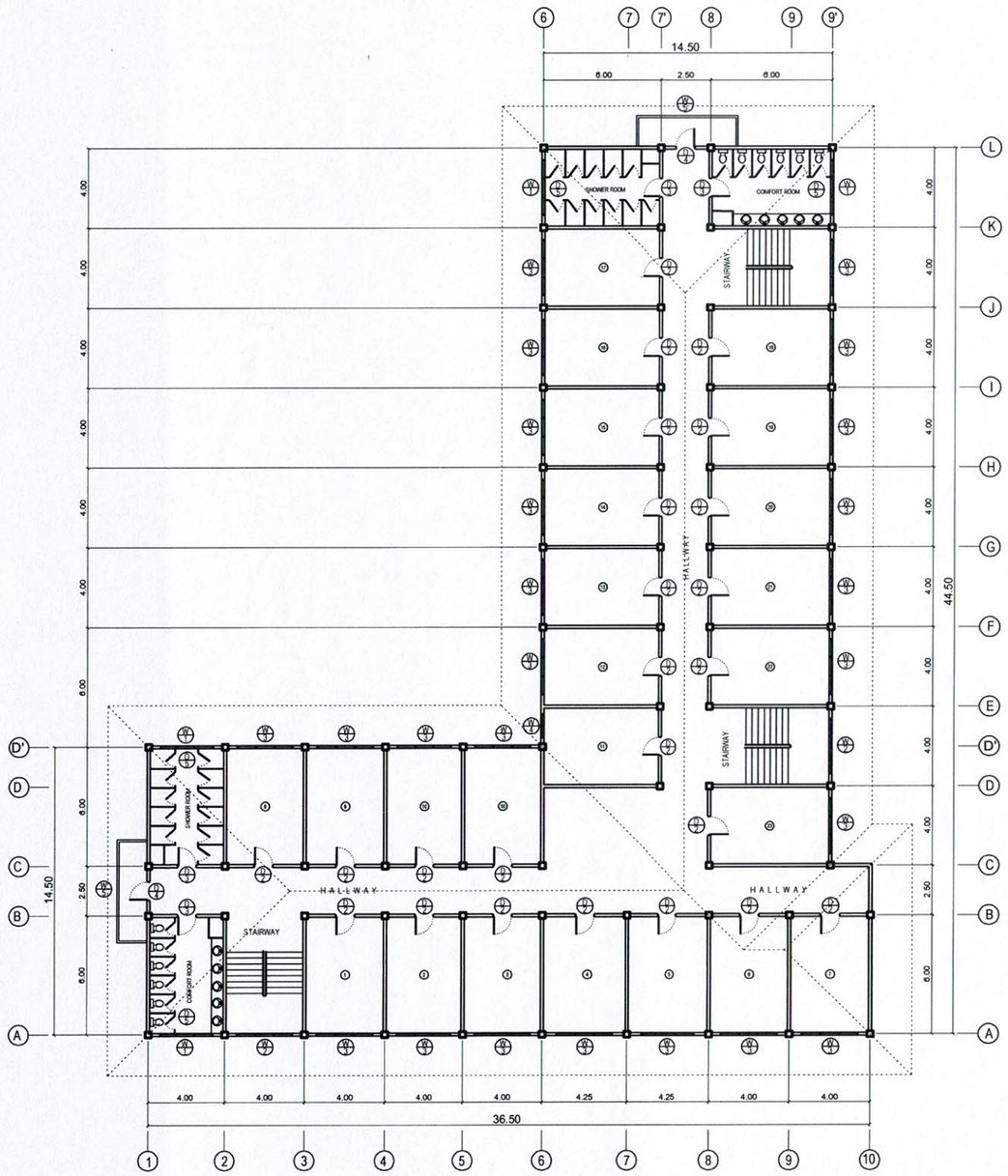
SCALE 1 : 300 MTS



SECOND FLOOR PLAN

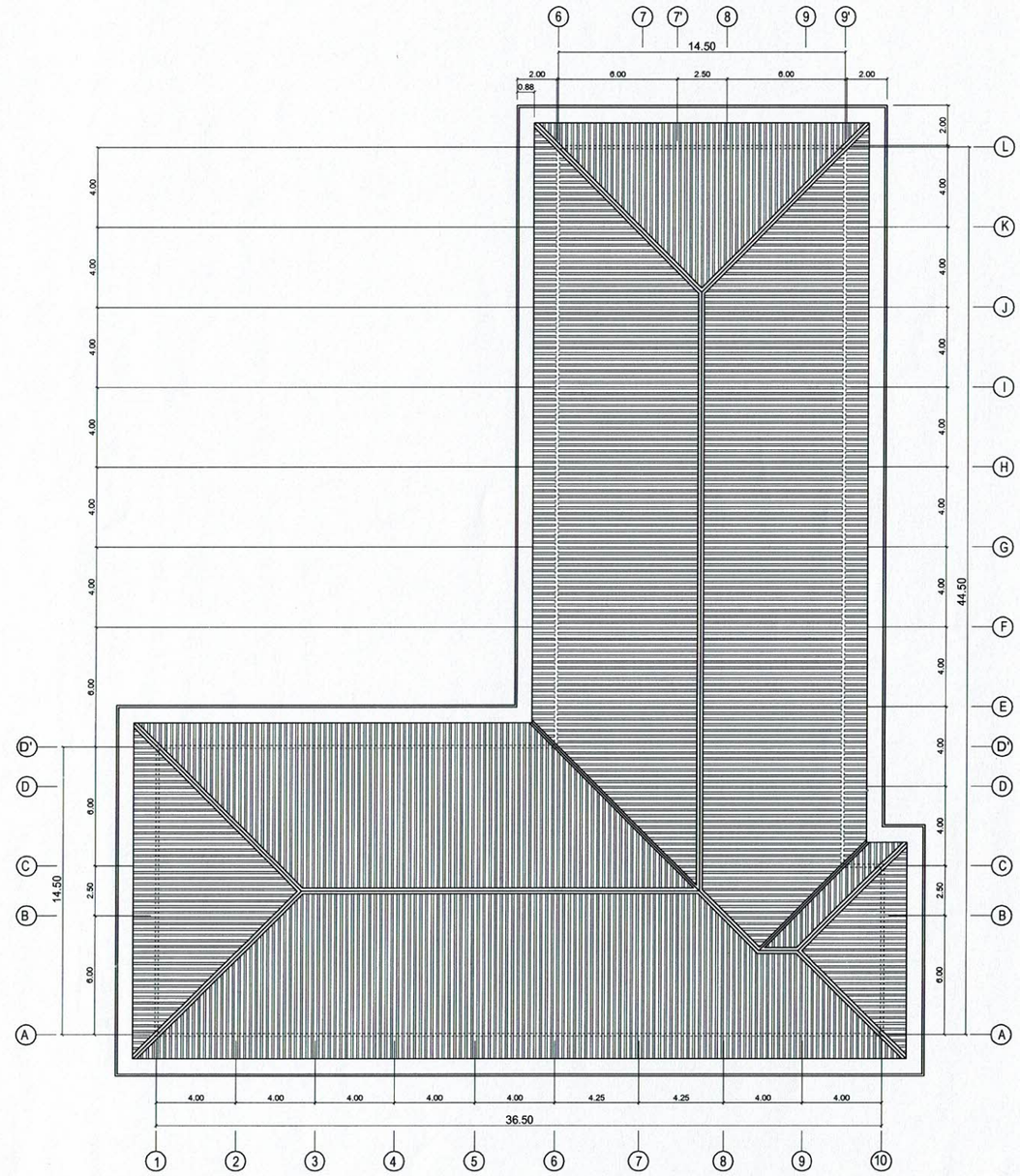
SCALE 1 : 300 MTS

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



TYP. 3RD - 4TH FLOOR PLAN

SCALE 1 : 300 MTS



ROOF PLAN

SCALE 1 : 300 MTS

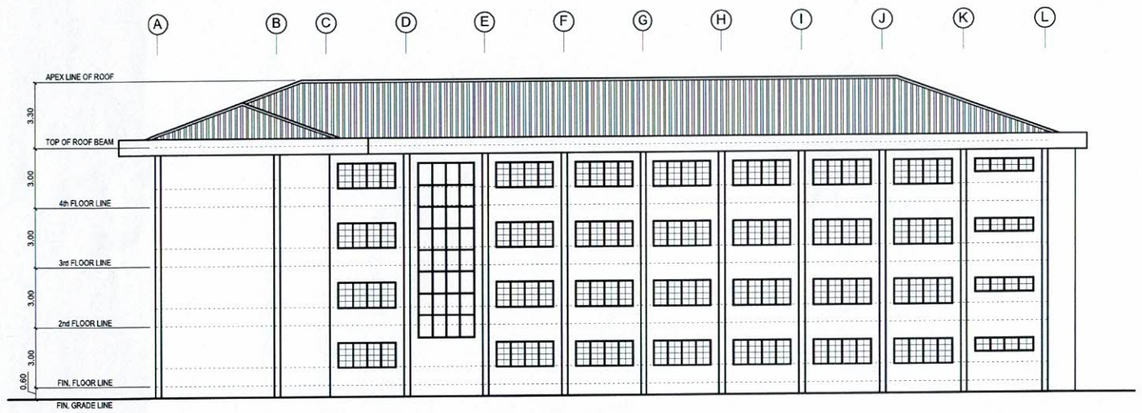
CADD BY :						
E. N. RODEROS JR.						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR 0BA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 3

FRONT ELEVATION

SCALE 1 : 300 MTS

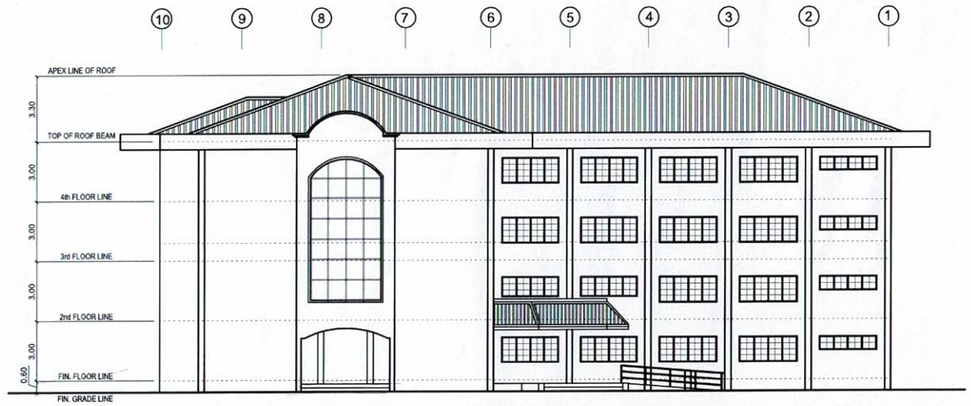
RIGHT SIDE ELEVATION

SCALE 1 : 300 MTS



REAR ELEVATION

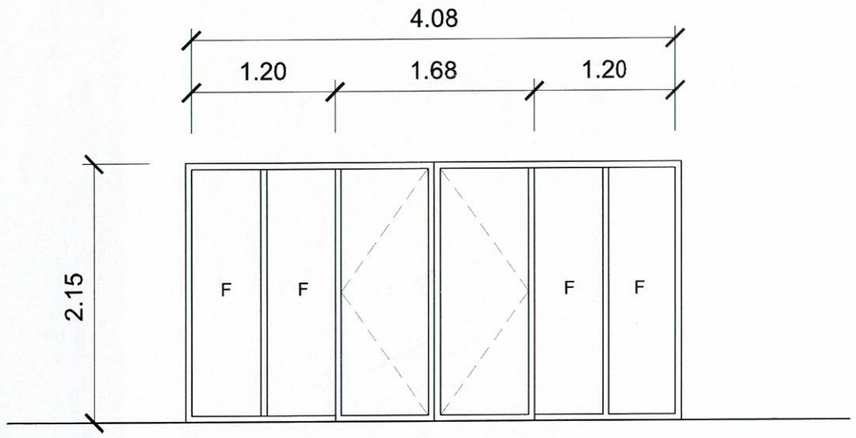
SCALE 1 : 300 MTS



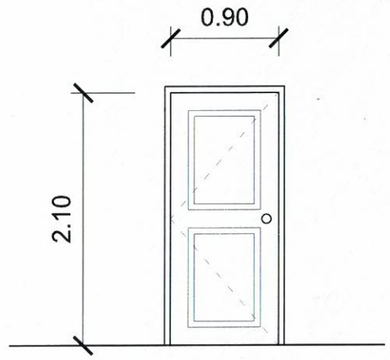
LEFT SIDE ELEVATION

SCALE 1 : 300 MTS

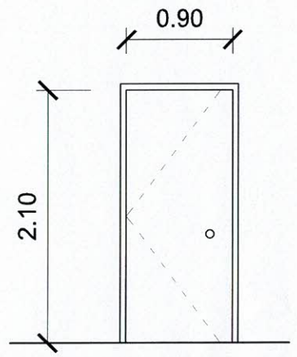
CADD BY :						
E. N. RODEROS JR.						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR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



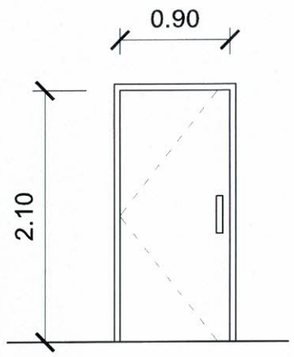
D/1 ALUMINUM SWING TYPE DOOR COMPLETE W / ALL ACCESSORIES W / 1/4" THK TEMPERED COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
1 SET



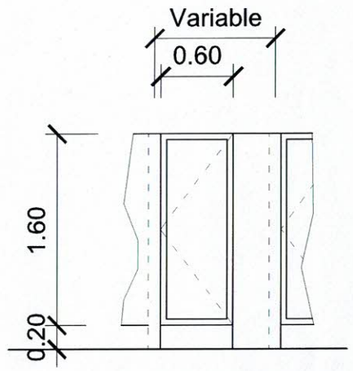
D/2 0.90 X 2.10 STEEL PANEL DOOR W/ COMPLETE ACCESSORIES
94 SETS



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

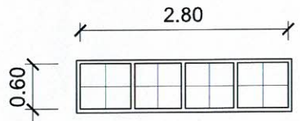


D/5 0.60 X 1.60 FRAMELESS PVC DOOR PANEL (VERIFY MANUFACTURER) W/ COMPLETE ACCESSORIES
136 SETS

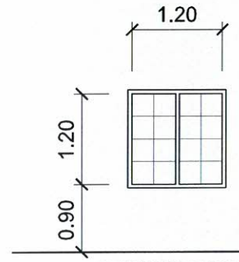
SCHEDULE OF DOORS

SCALE 1 : 50 MTS

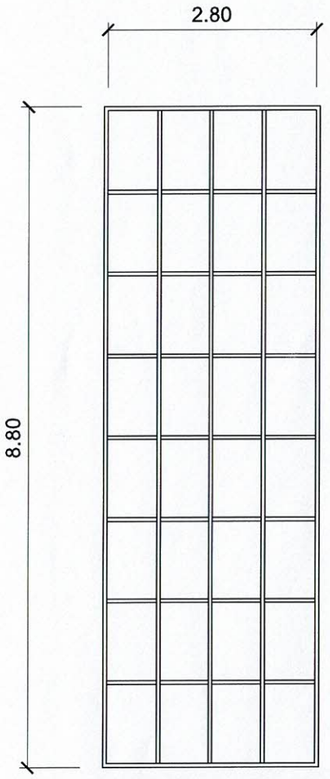
CADD BY :						
E. N. RODEROS JR.						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 5



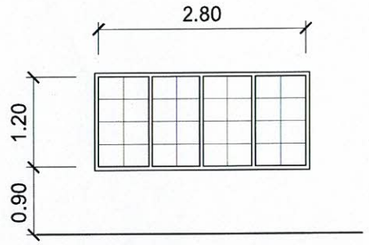
W/1 ALUMINUM AWNING WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
12 SETS



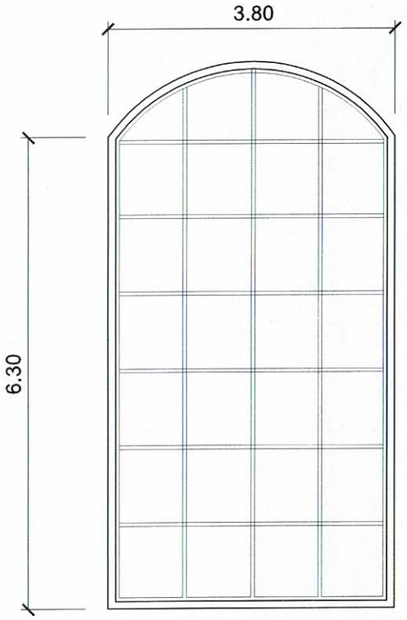
W/4 ALUMINUM CASEMENT WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
3 SETS



W/2 ALUMINUM FIXED WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
2 SETS



W/3 ALUMINUM CASEMENT WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
99 SETS

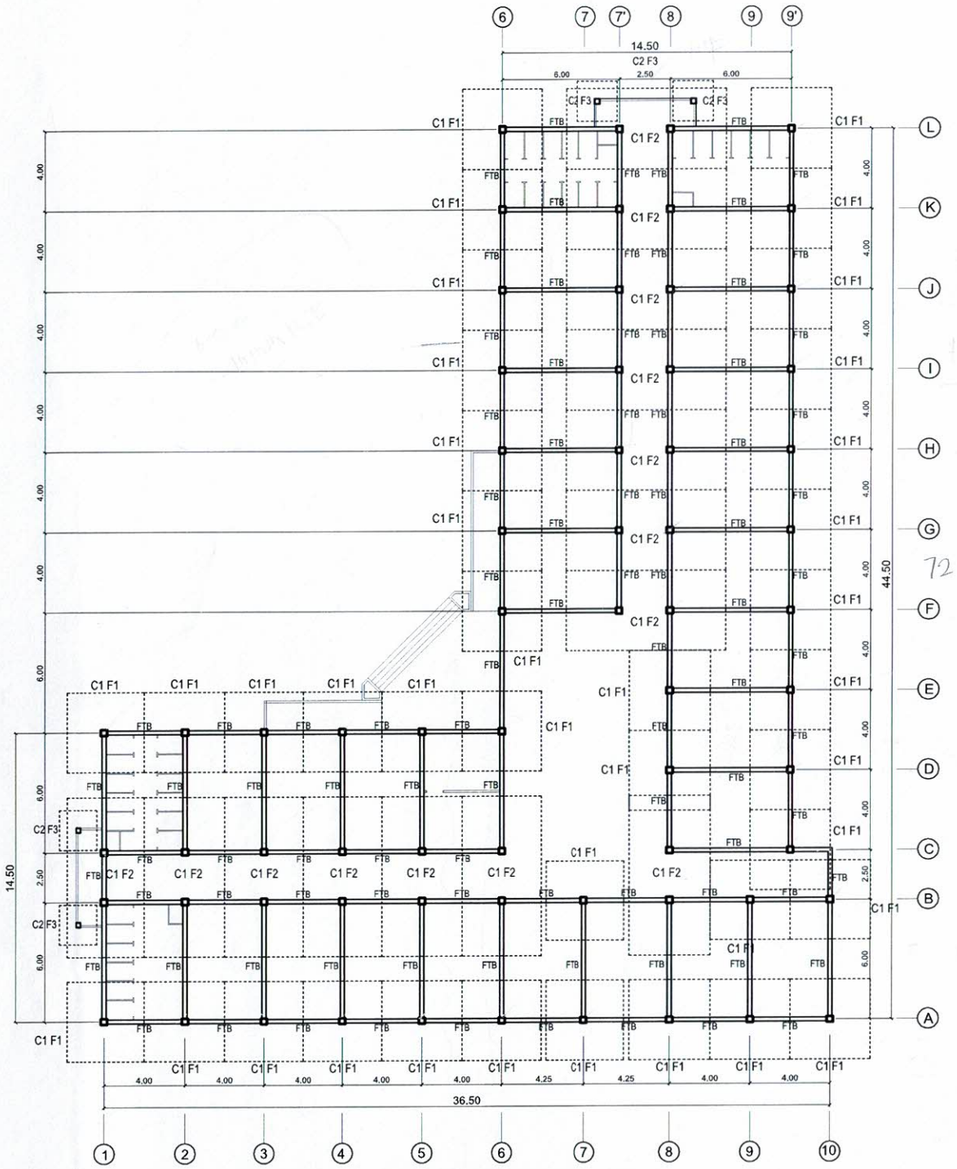


W/5 ALUMINUM FIXED WINDOW COMPLETE W / ALL ACCESSORIES W / 1/4" THK COLORED GLASS ON COLORED POWDER COATED FINISH ALUMINUM FRAMING
2 SETS

SCHEDULE OF WINDOWS

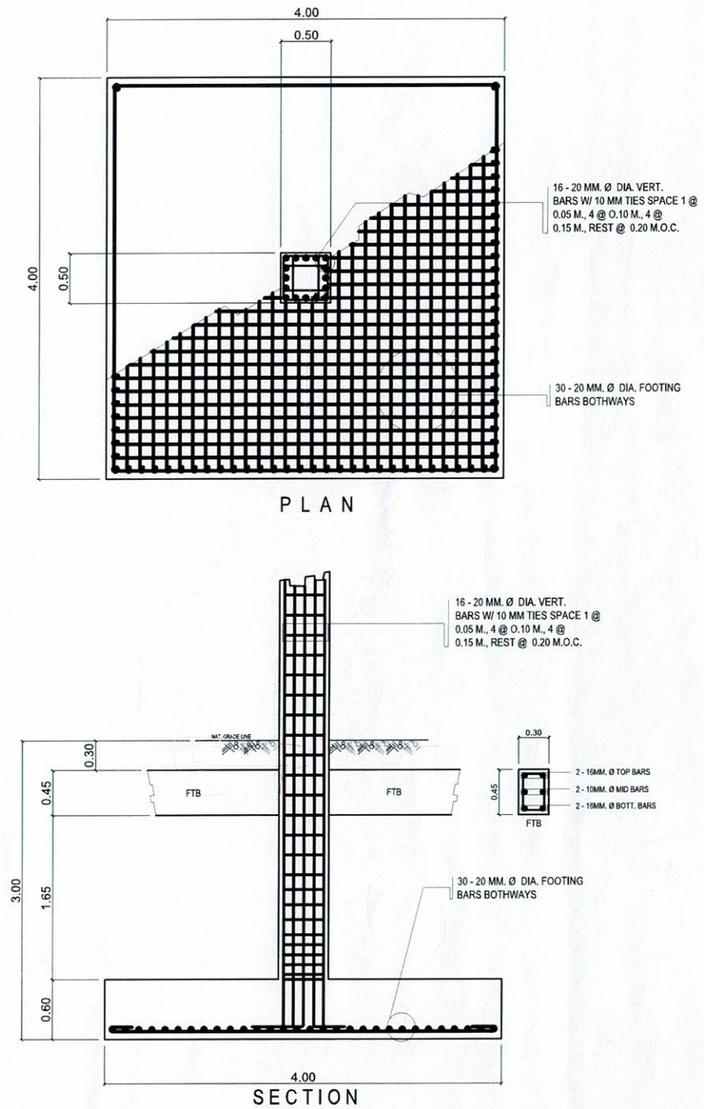
SCALE 1 : 75 MTS

CADD BY :							
E. N. RODEROS JR.							
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	A - 6



FOUNDATION PLAN

SCALE 1 : 300 MTS

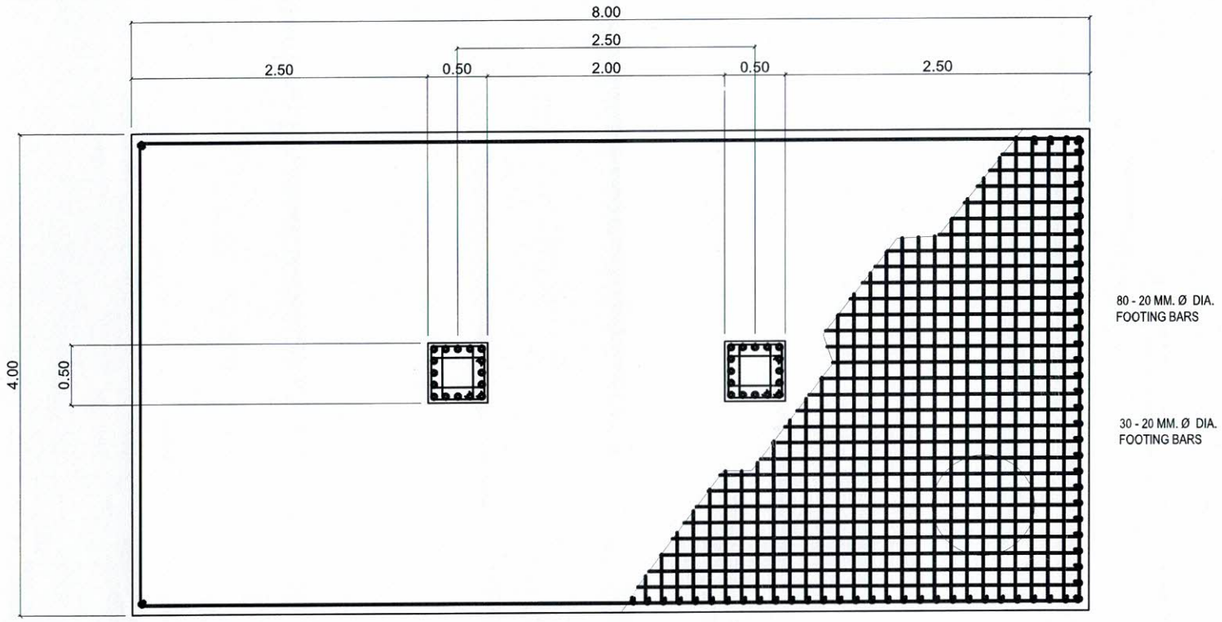


DETAIL OF C1 F1

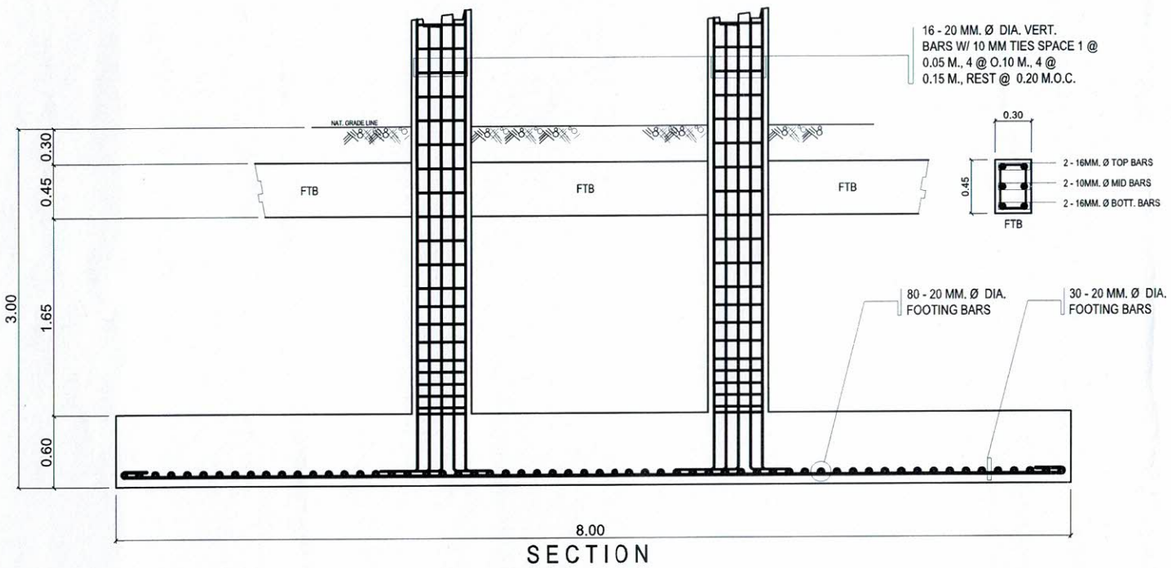
SCALE 1 : 60 MTS.

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

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 1



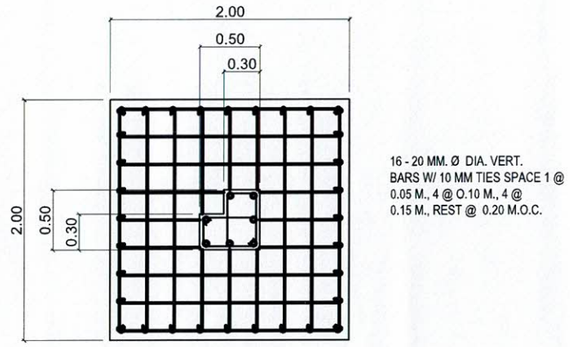
PLAN



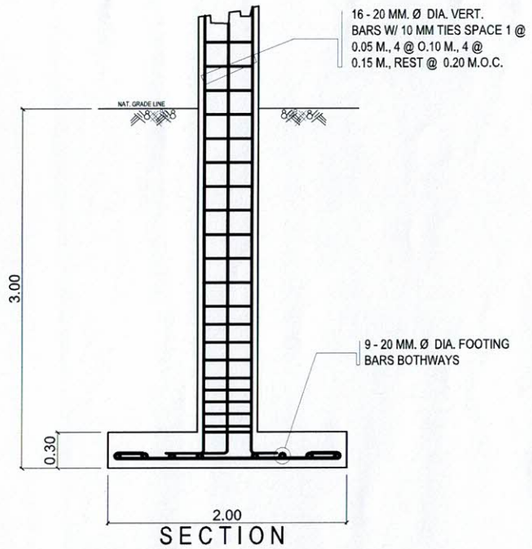
SECTION

DETAIL OF C1 F2

SCALE 1 : 50 MTS.



PLAN



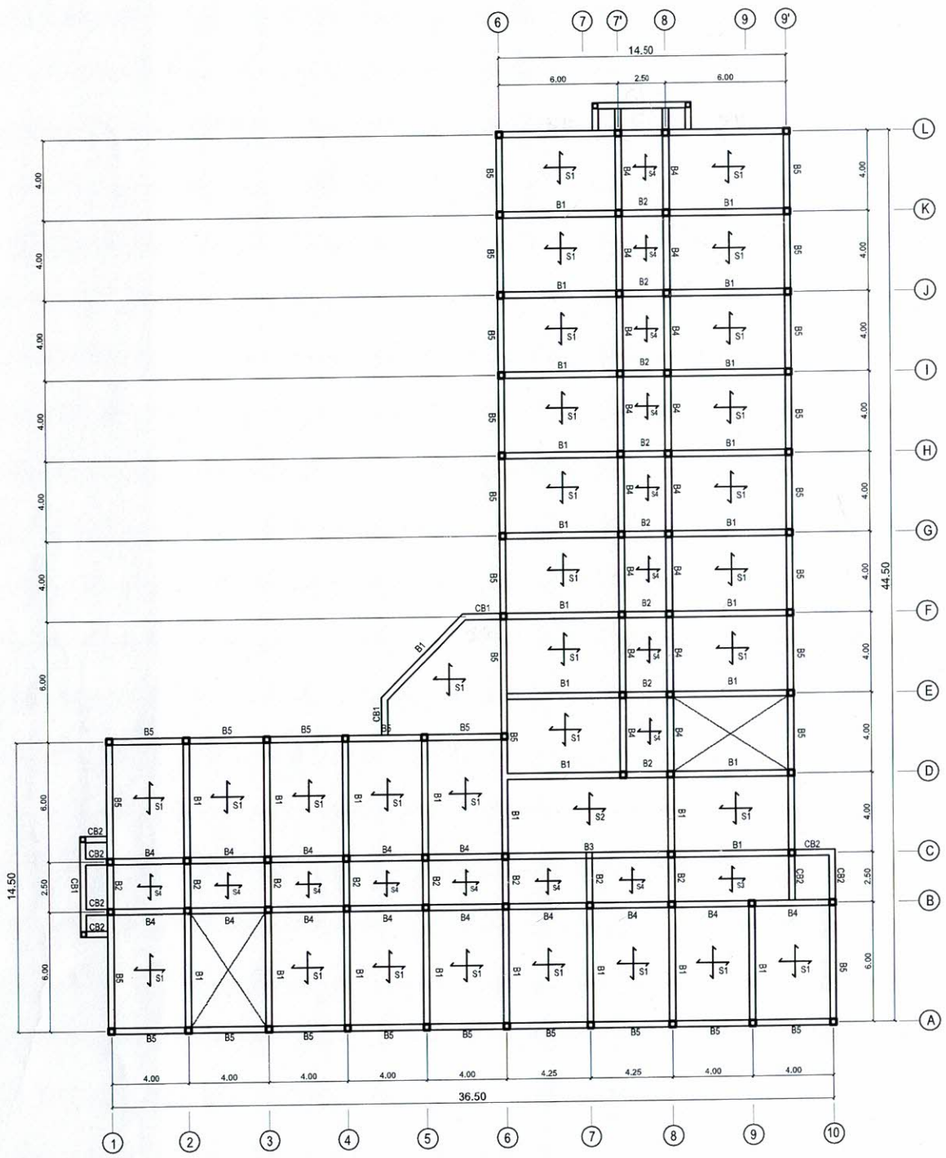
SECTION

DETAIL OF C2 F3

SCALE 1 : 50 MTS.

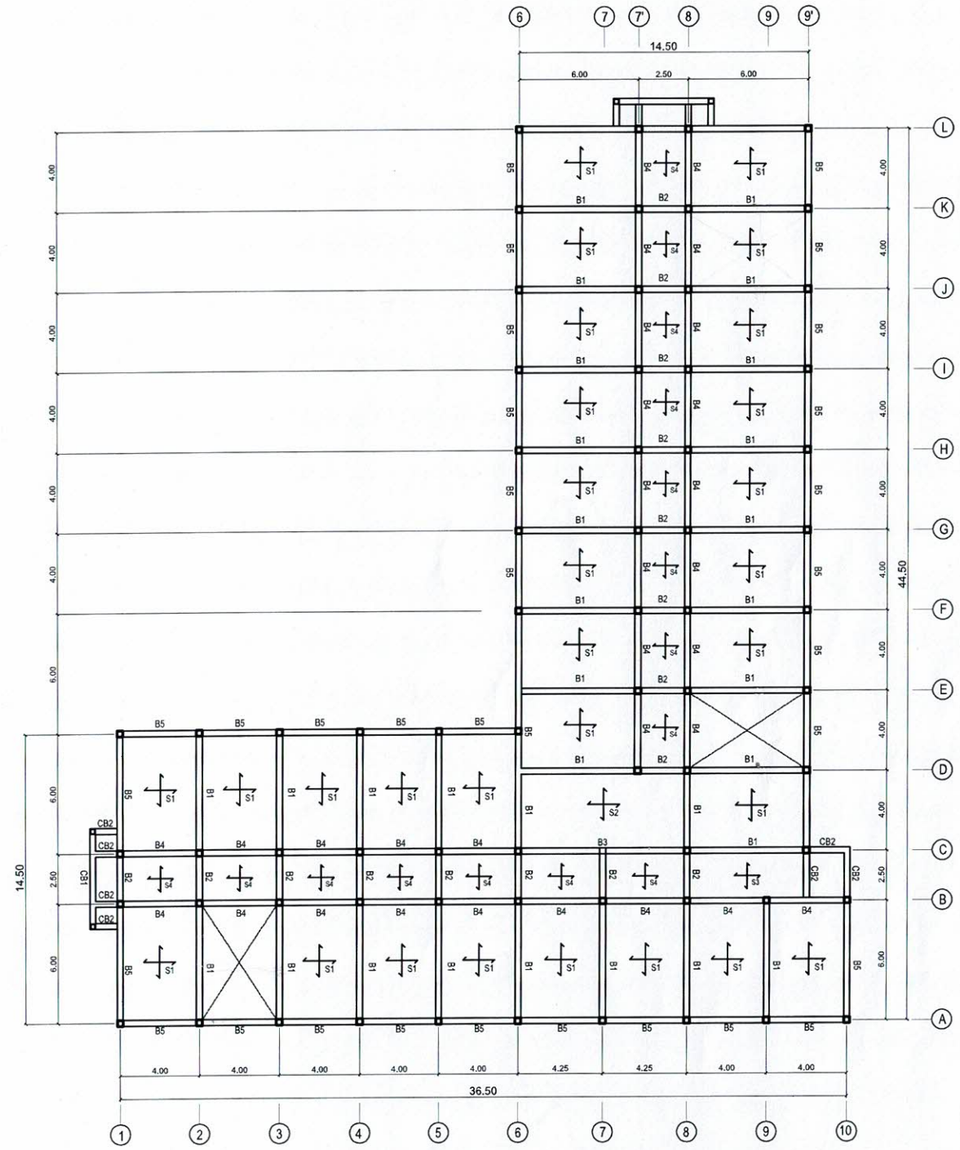
CADD BY :	CIVIL ENGR. :
E. N. RODEROS JR.	L. E. ROCELA

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 2



SECOND FLOOR BEAM PLAN

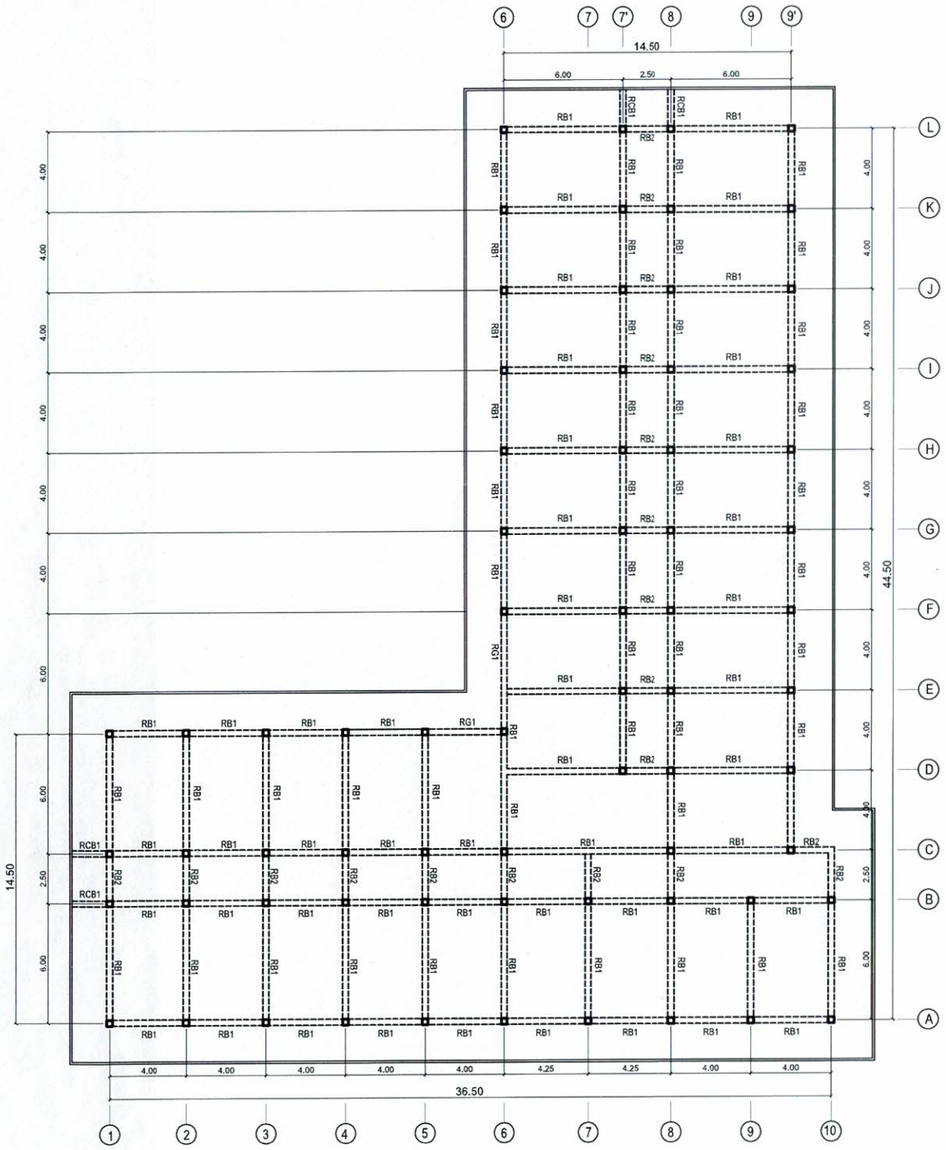
SCALE 1 : 300 MTS



TYP. 3RD - 4TH FLOOR BEAM PLAN

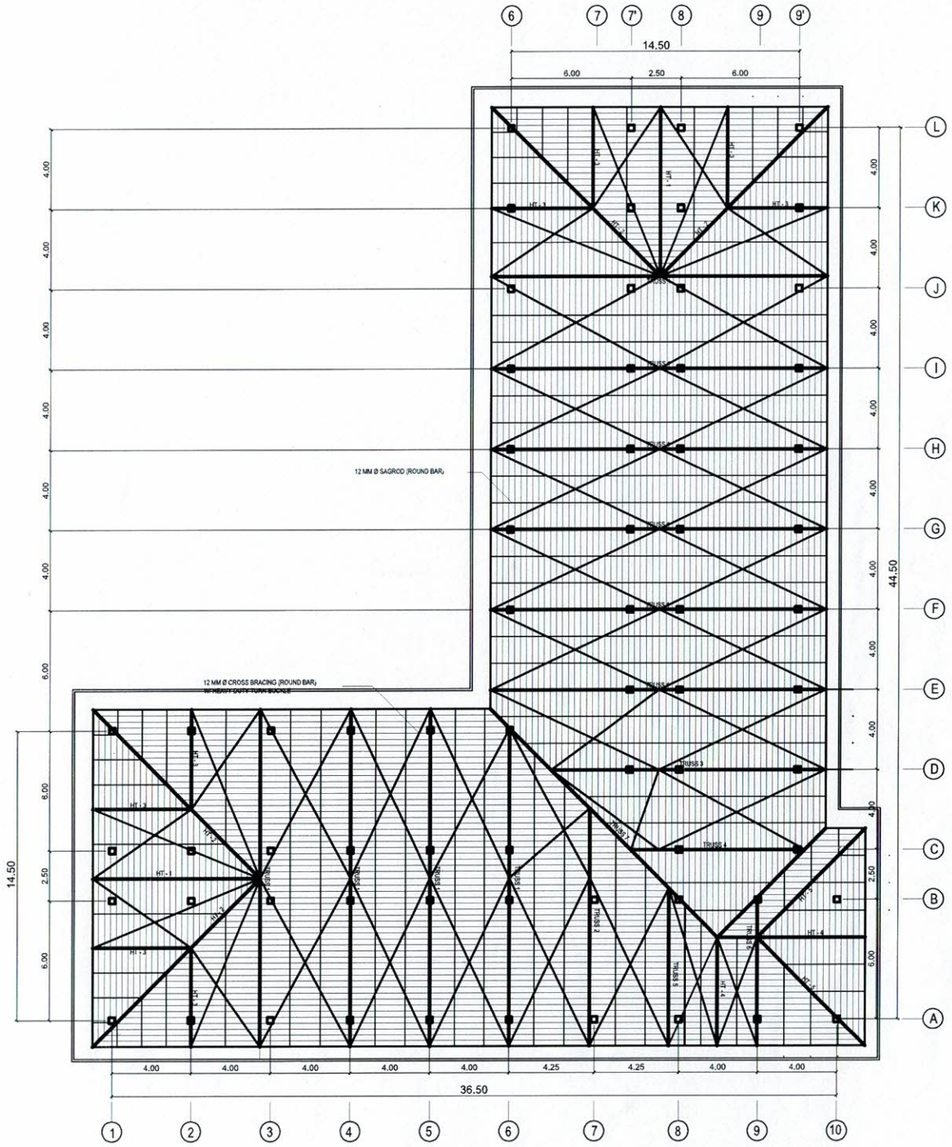
SCALE 1 : 300 MTS

CADD BY :	CIVIL ENGR. :						
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 3



ROOF BEAM PLAN

SCALE 1 : 300 MTS



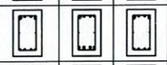
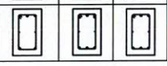
ROOF FRAMING PLAN

SCALE 1 : 300 MTS

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

END USER:	ENDORSED BY:		REC. APPROVAL	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 4

SCHEDULE OF BEAMS

BEAM	DIMENSION	EXT. SUPPORT		MID-SPAN		INT. SUPPORT		BAR ARRANGEMENT			STIRRUPS REMARKS	ADDT. REMARKS
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	EXT. SUPPORT	MID-SPAN	INT. SUPPORT		
B-1	300mm X 550mm	4-25 MM Ø	4-25 MM Ø	4-25 MM Ø	8-25 MM Ø	6-25 MM Ø	4-25 MM Ø				10mm Ø STIRRUPS 2 - 50mm, 4 - 75mm, 6 -100mm REST @ 150mm O.C.	USE 2 - 12mm Ø STIFFENER 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				- 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				- DO -	- DO -
B-4	300mm X 450mm	3-20 MM Ø	2-20 MM Ø	2-20 MM Ø	5-20 MM Ø	3-20 MM Ø	2-20 MM Ø				- DO -	- DO -
B-5	300mm x 450mm	3-20 MM Ø	3-20 MM Ø	3-20 MM Ø	3-20 MM Ø	3-20 MM Ø	3-20 MM Ø				- DO -	- DO -
CB-1	300mm X 450mm	2-25 MM Ø	2-25 MM Ø	5-25 MM Ø	2-25 MM Ø	5-25 MM Ø	2-25 MM Ø				- DO -	- DO -
CB-2	300mm X 450mm	3-20 MM Ø	2-20 MM Ø	3-20 MM Ø	2-20 MM Ø	3-20 MM Ø	2-20 MM 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				- 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				- DO -	- DO -
RG-1	250mm X 500mm	5-16 MM Ø	3-16 MM Ø	3-16 MM Ø	5-16 MM Ø	5-16 MM Ø	3-16 MM Ø				- DO -	- DO -
RCB-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				- DO -	- DO -

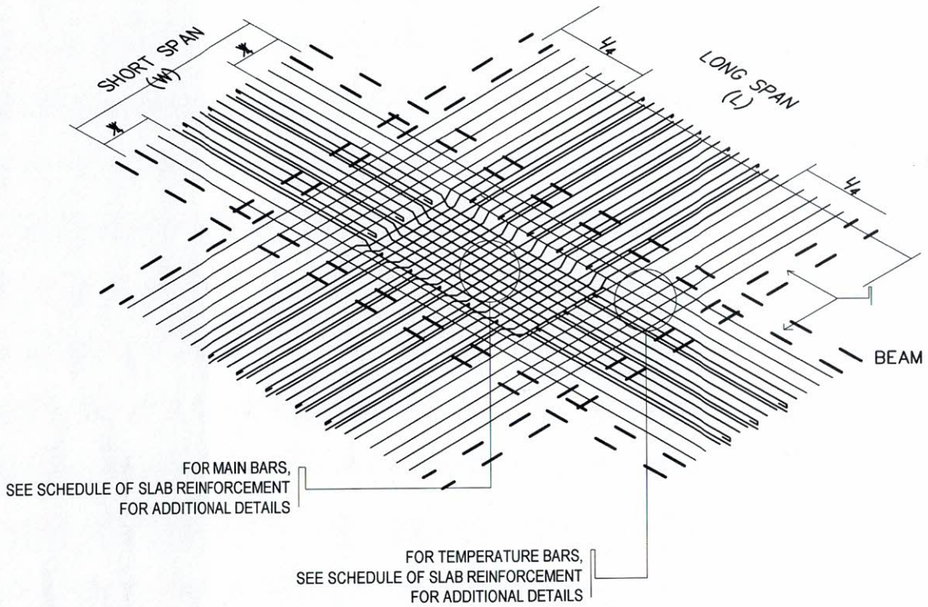
SCHEDULE OF COLUMNS

MARK	DIMENSION	COLUMN	NO. OF BARS	NO. OF TIES & SPACING
FROM FOOTING TO SECOND FLOOR LINE	500 MM X 500 MM		16 - 20 MMØ BARS	2 - 10 MMØ @ 0.05 MTS. O.C. 4 - 10 MMØ @ 0.10 MTS. O.C. 6 - 10 MMØ @ 0.075 MTS. O.C. REST @ 0.15 MTS. O.C. 3 SETS LATERAL TIES
FROM SECOND FLOOR LINE TO THIRD FLOOR LINE	450 MM X 450 MM		12 - 20 MMØ BARS	2 - 10 MMØ @ 0.05 MTS. O.C. 4 - 10 MMØ @ 0.10 MTS. O.C. 6 - 10 MMØ @ 0.075 MTS. O.C. REST @ 0.15 MTS. O.C. 3 SETS LATERAL TIES
FROM THIRD FLOOR LINE TO ROOF BEAM LINE	300 MM X 300 MM		8 - 20 MMØ BARS	2 - 10 MMØ @ 0.05 MTS. O.C. 4 - 10 MMØ @ 0.10 MTS. O.C. 6 - 10 MMØ @ 0.075 MTS. O.C. REST @ 0.15 MTS. O.C. 2 SETS LATERAL TIES

SCHEDULE OF SLAB REINFORCEMENT

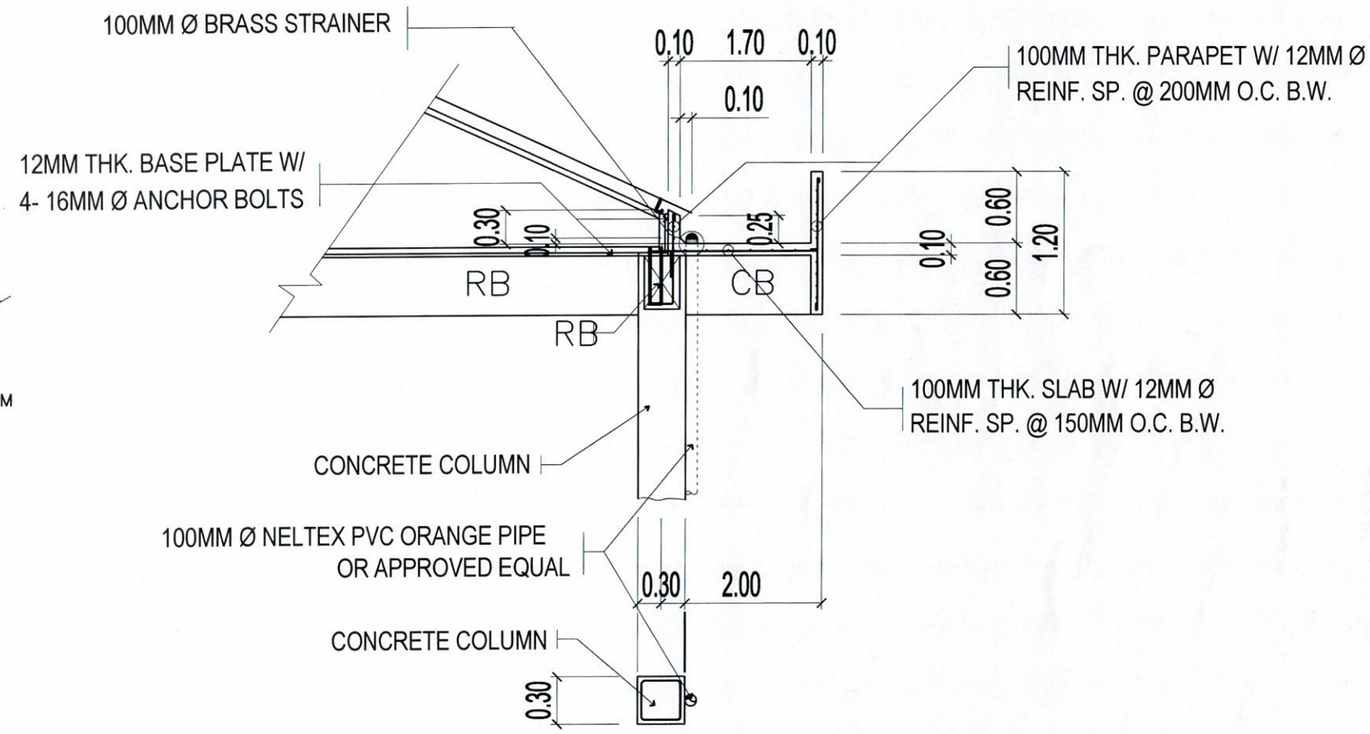
SLAB	DETAILS
S1	110 MM. THK CONCRETE SLAB W/ 12 MMØ BARS @ 200MM. ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 TEMP. BARS 10 MMØ @ 200MM. ON CENTER THROUGH OUT COLUMN STRIP FOR TOP AND BOTTOM BARS W/ 12 MMØ EXTRA TOP BARS SPACED @ 0.60 MTS. ON CENTER
S2	110 MM. THK CONCRETE SLAB W/ 12 MMØ BARS @ 200MM. ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 TEMP. BARS 10 MMØ @ 200MM. ON CENTER THROUGH OUT COLUMN STRIP FOR TOP AND BOTTOM BARS W/ 12 MMØ EXTRA TOP BARS SPACED @ 0.50 MTS. ON CENTER
S3	100 MM. THK CONCRETE SLAB W/ 12 MMØ BARS @ 200MM. ON CENTER ALTERNATE BENT-UP AND STRAIGHT 2 OUT OF 3 L/4 TEMP. BARS 10 MMØ @ 200MM. ON CENTER WITH 12 MMØ EXTRA TOP BARS @ 0.80MTS. ON CENTER
S4	100 MM. THK CONCRETE SLAB W/ 12 MMØ BARS @ 300MM. ON CENTER TEMP. BARS 10 MMØ @ 300MM. ON CENTER THROUGH OUT COLUMN STRIP 10 MMØ FOR TOP AND BOTTOM BAR WITH 12 MMØ EXTRA TOP BARS @ 0.80MTS. ON CENTER

CADD BY :	CIVIL ENGR. :						
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 5



TWO - WAY SLAB

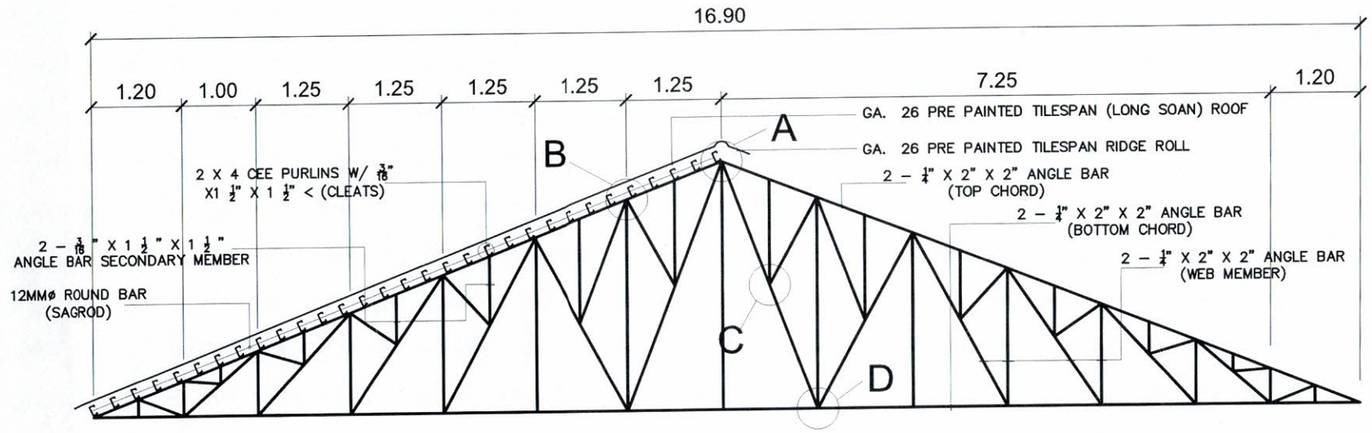
DETAIL OF SLAB REINFORCEMENT



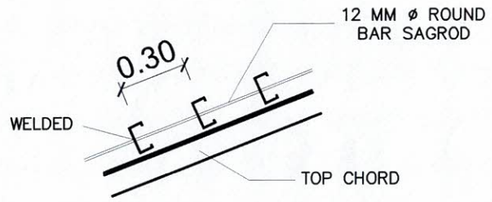
DETAIL OF CONCRETE GUTTER

SCALE NTS.

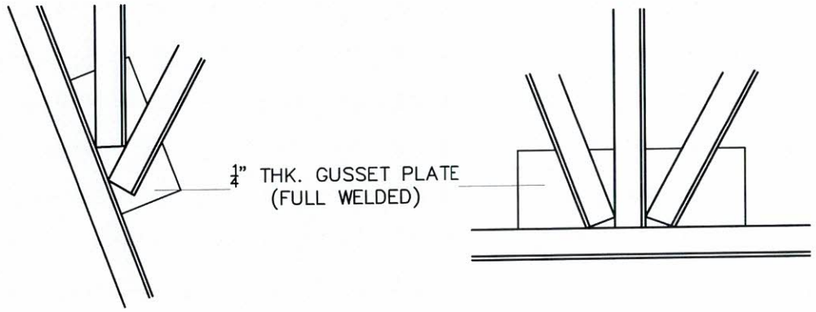
CADD BY :	CIVIL ENGR. :					
E. N. RODEROS JR.	L. E. ROCELA					
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 6



TRUSS 1

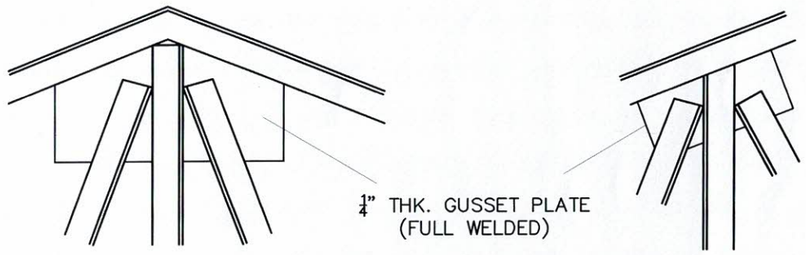


DETAILS OF SAGROD



SPOT DETAIL C

SPOT DETAIL D



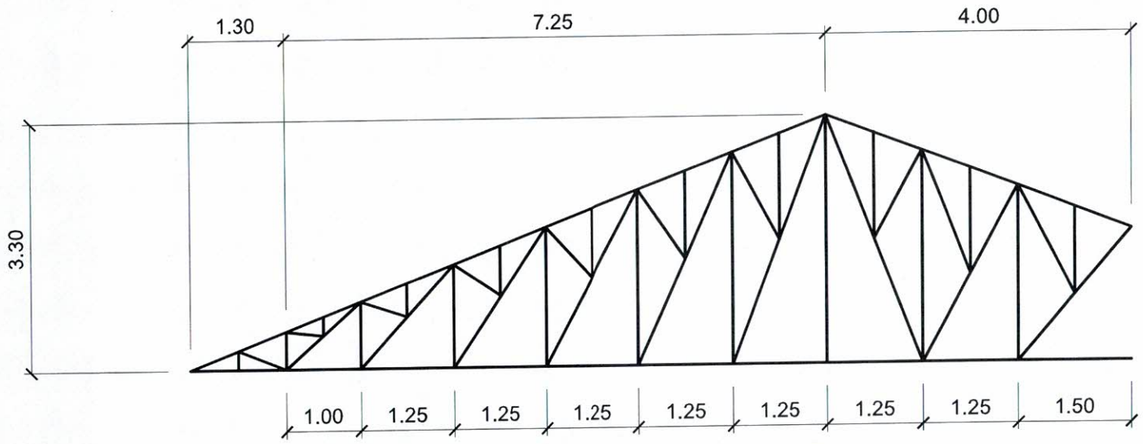
SPOT DETAIL A

SPOT DETAIL B

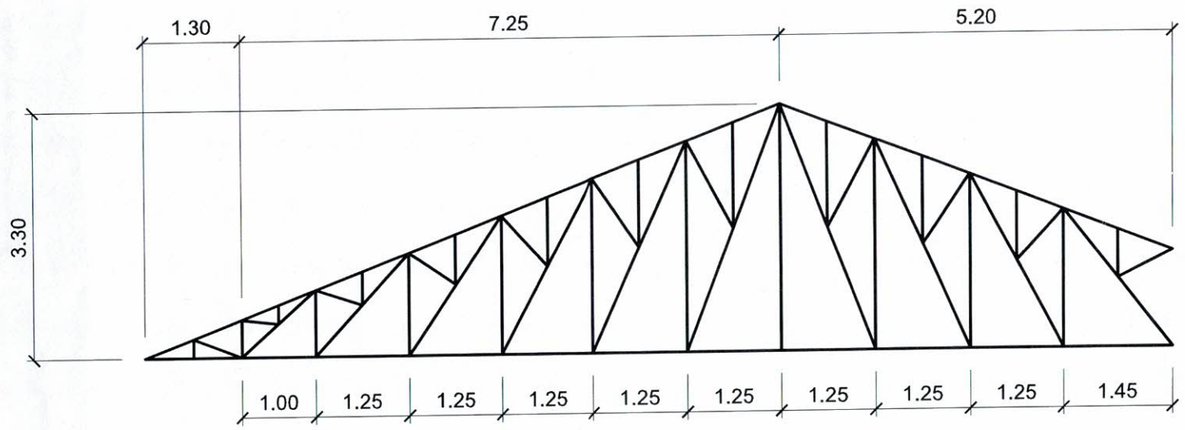
DETAILS OF TRUSS - 1

SCALE 1 : 75 MTS

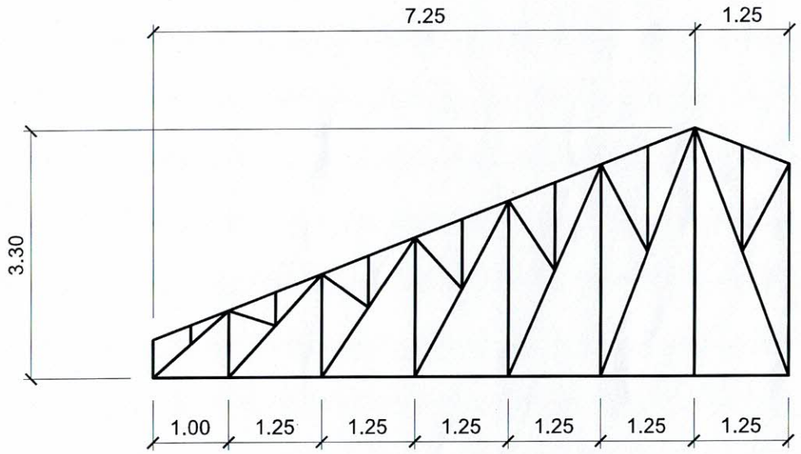
CADD BY :	CIVIL ENGR. :		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:						
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 7



TRUSS 2



TRUSS 3

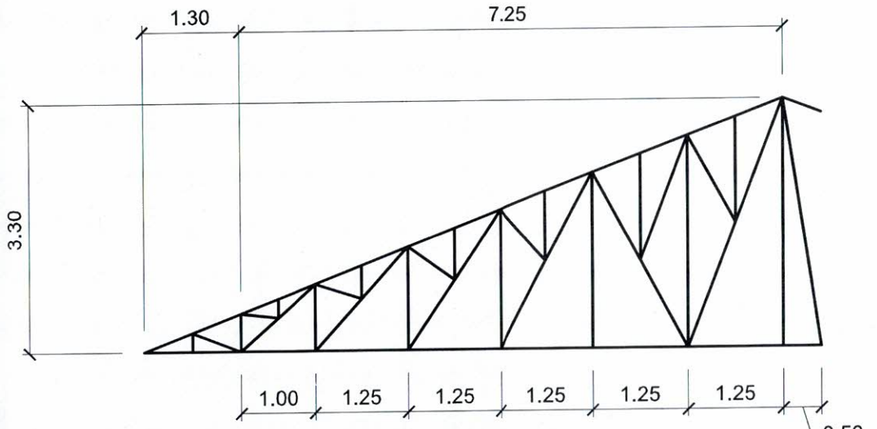


TRUSS 4

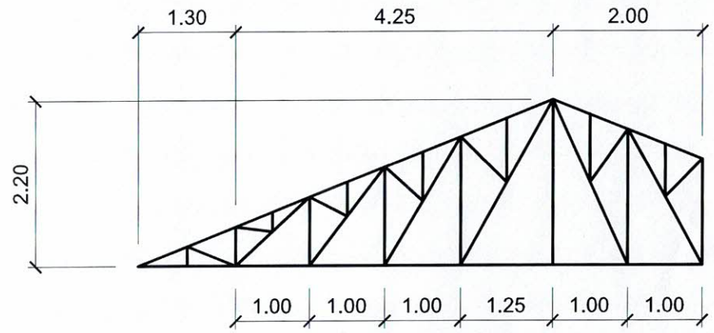
TRUSS DIAGRAM

SCALE 1 : 75 MTS

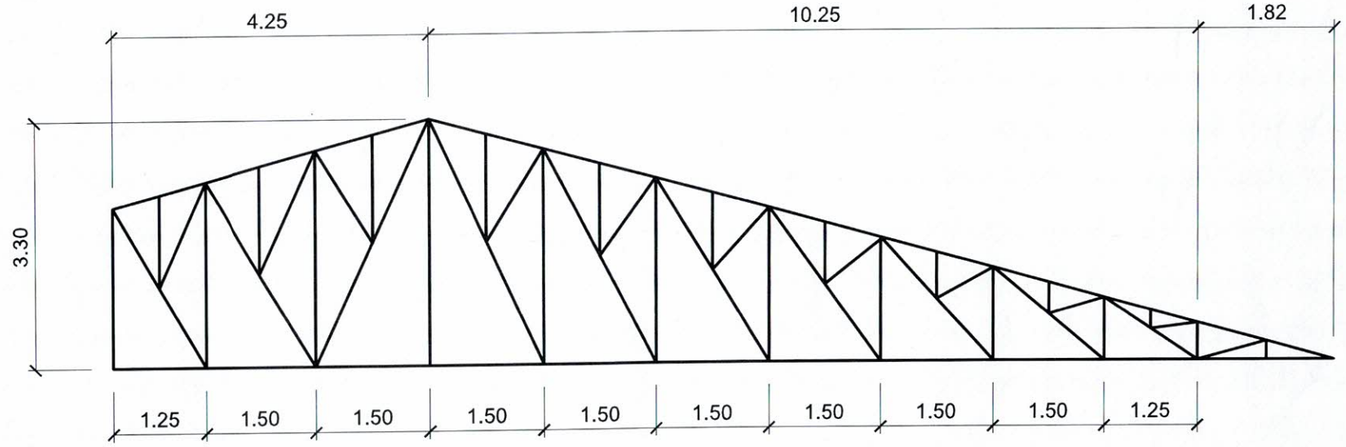
CADD BY :	CIVIL ENGR. :						
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 8



TRUSS 5



TRUSS 6

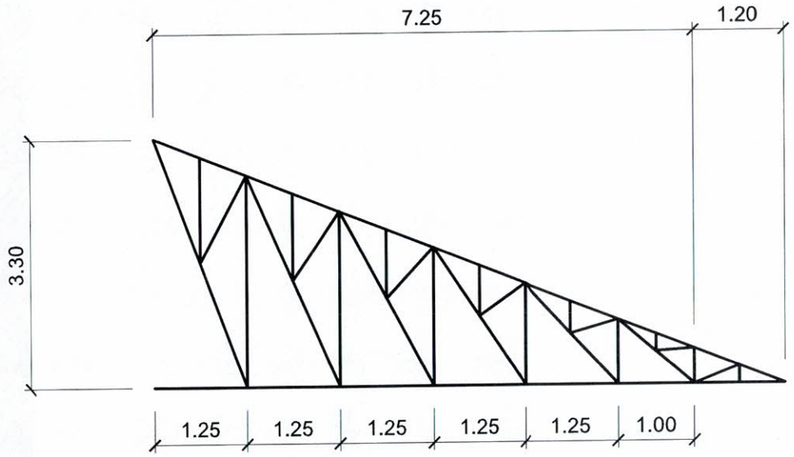


TRUSS 7

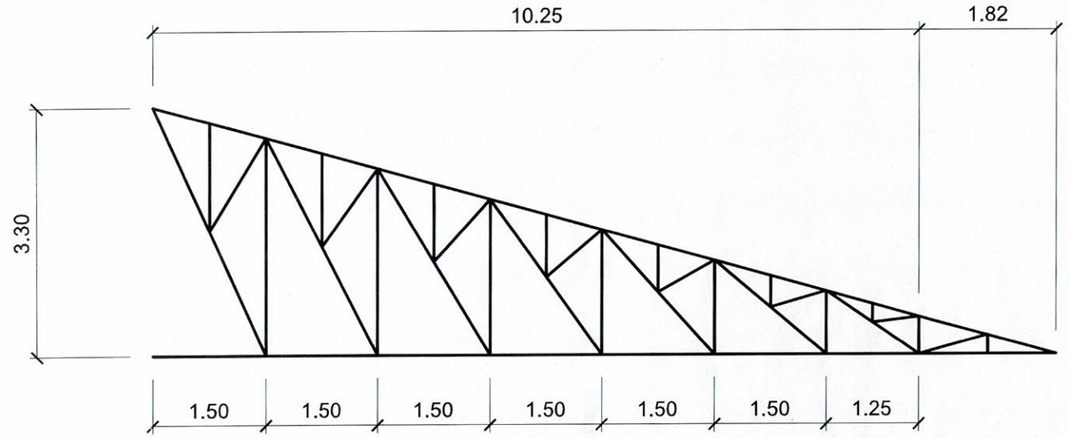
TRUSS DIAGRAM

SCALE 1 : 75 MTS

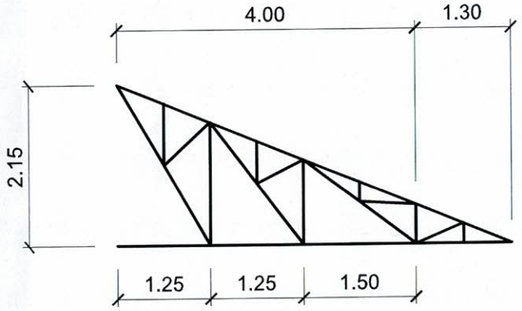
CADD BY :	CIVIL ENGR. :						
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 9



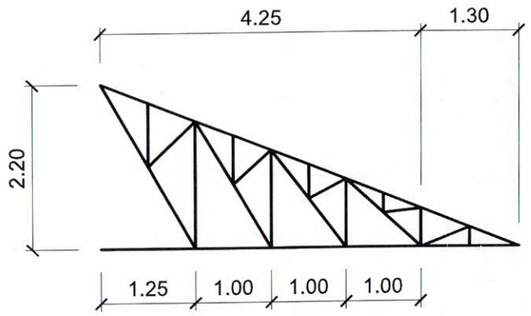
HT - 1



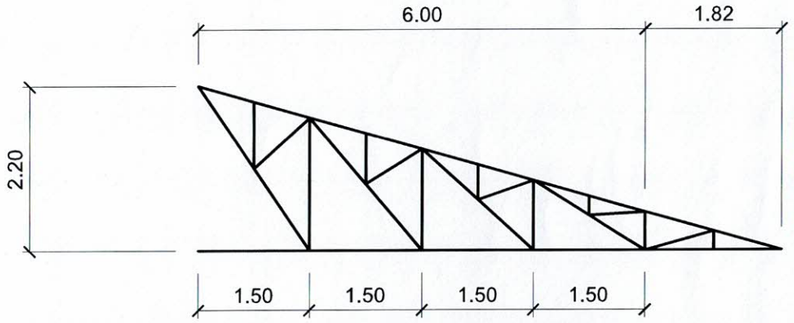
HT - 2



HT - 3



HT - 4

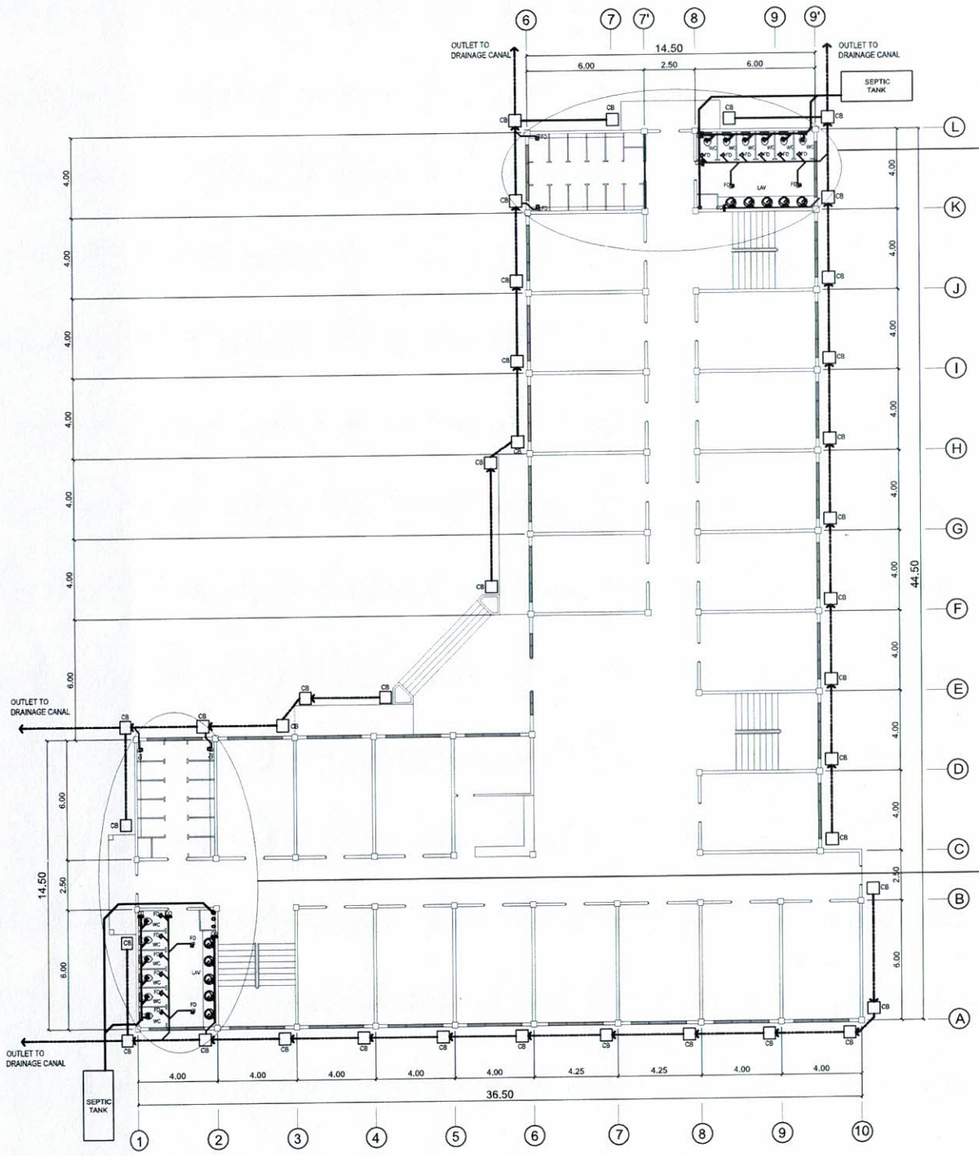


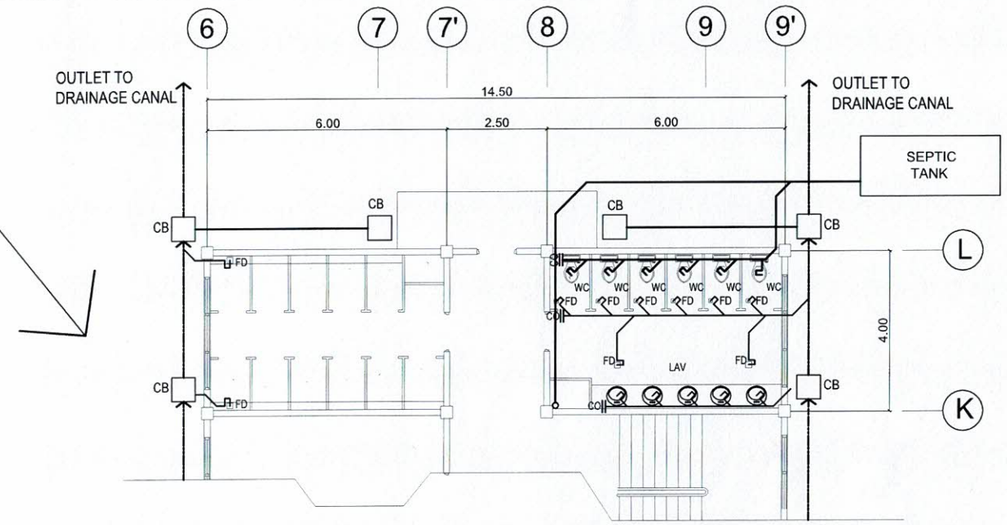
HT - 5

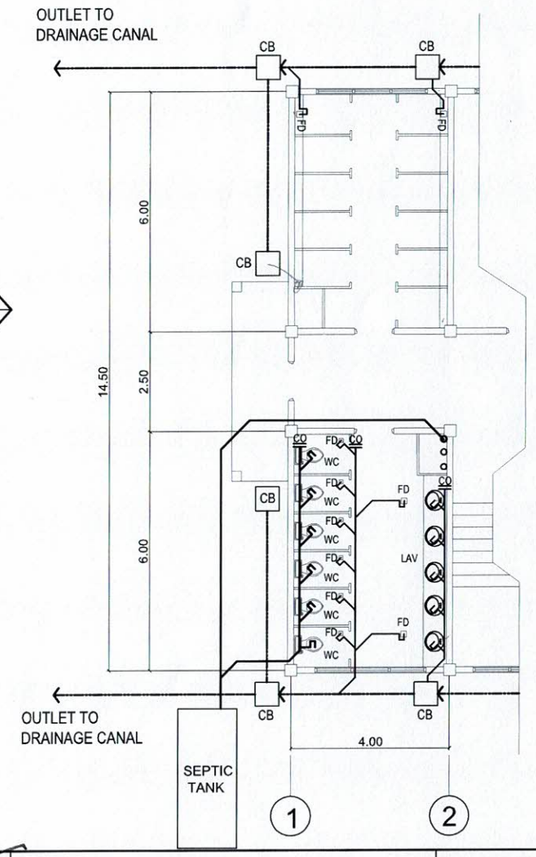
TRUSS DIAGRAM

SCALE 1 : 75 MTS

CADD BY :	CIVIL ENGR. :						
E. N. RODEROS JR.	L. E. ROCELA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	S - 10



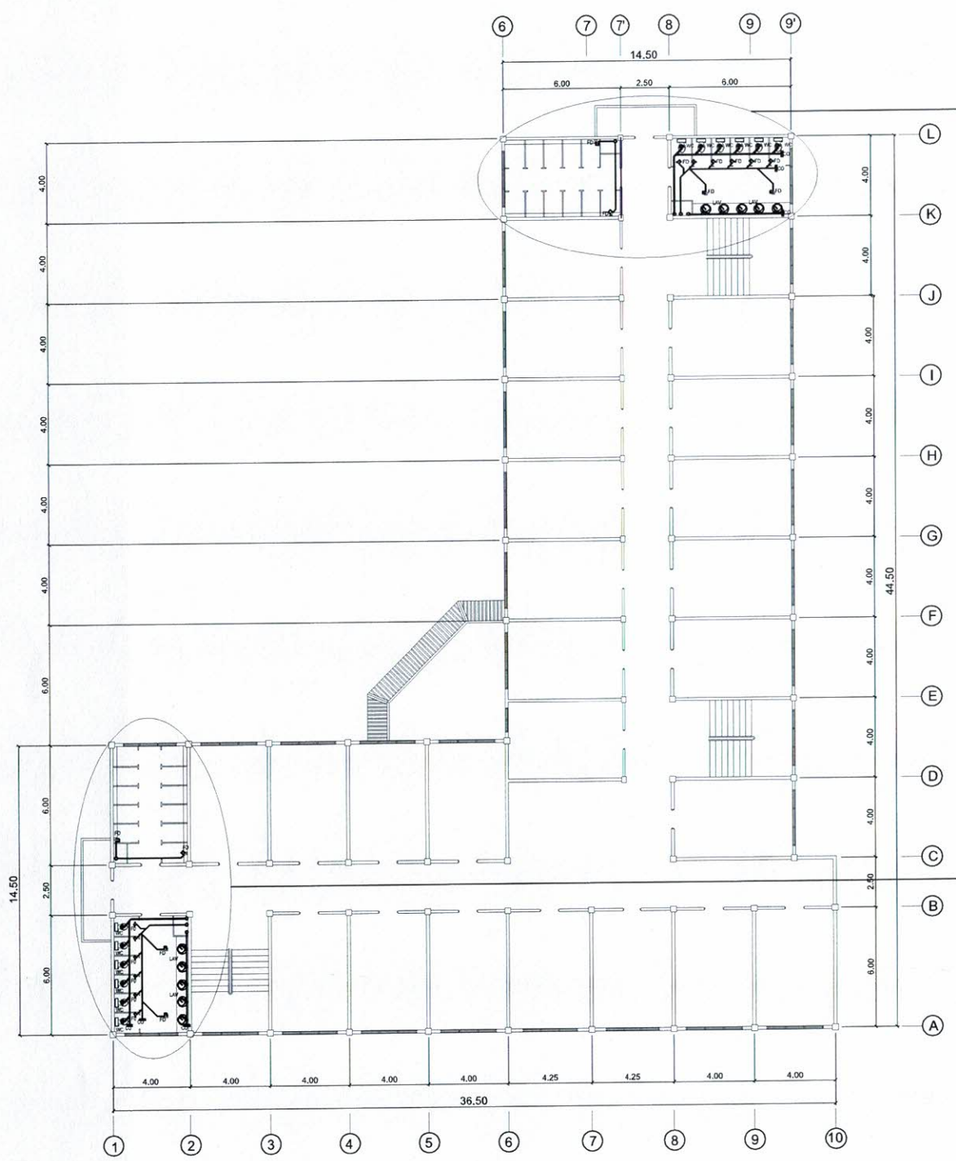


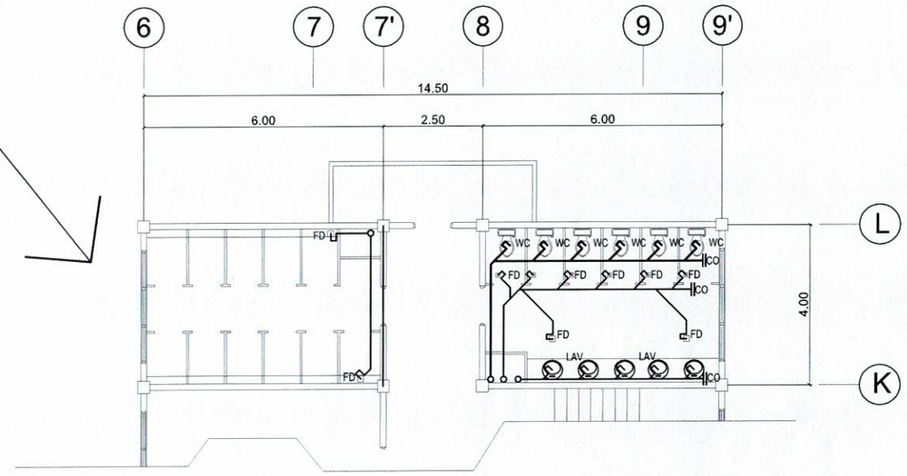


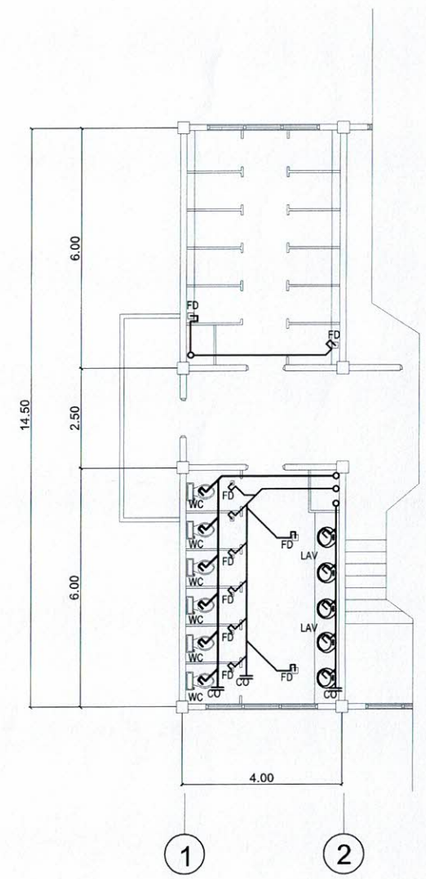
GRD. FLR. SAN. SEWER LINE LAYOUT

SCALE 1 : 300 MTS

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





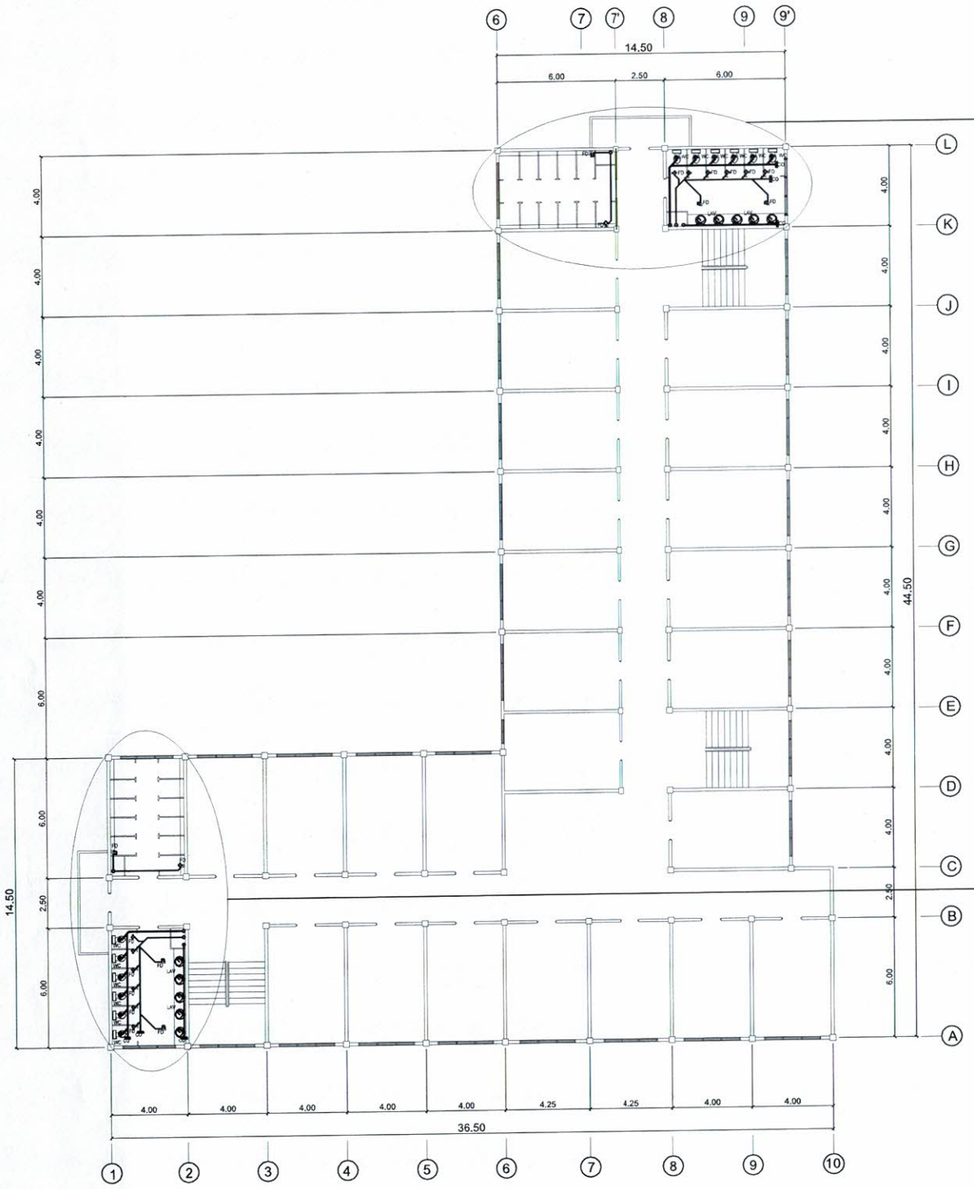


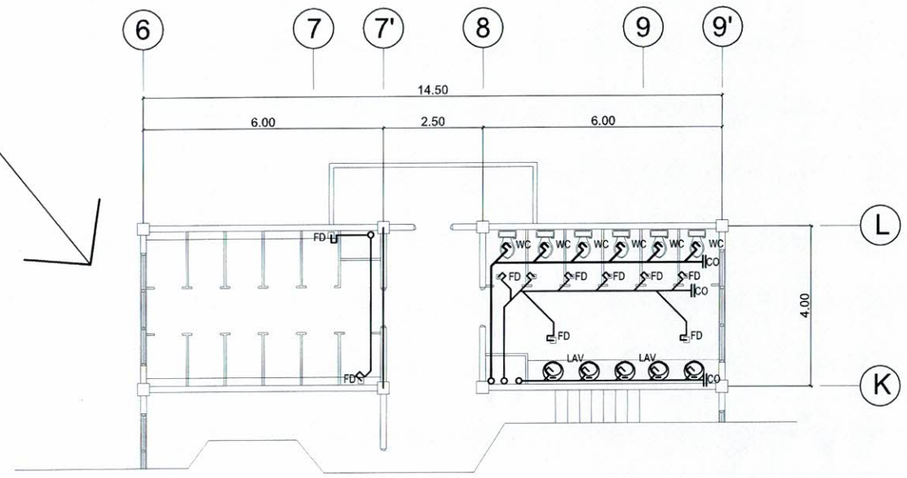
2ND FLR. SAN. SEWER LINE LAYOUT

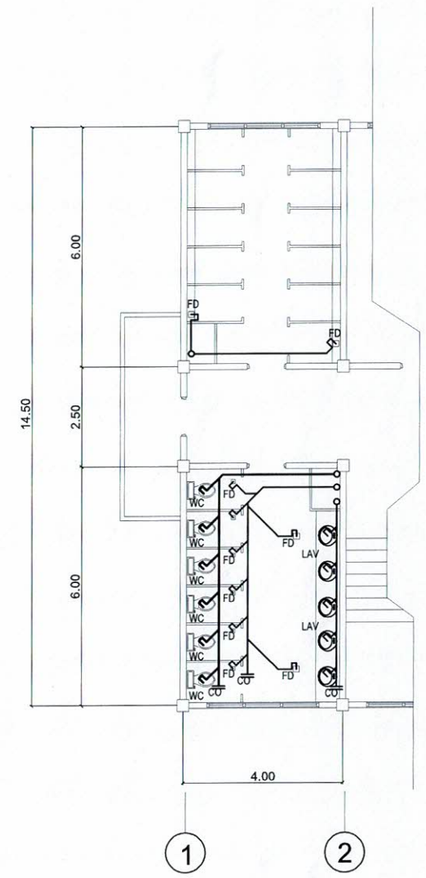
SCALE 1 : 300 MTS

CADD BY :	REGISTERED MASTER PLUMBER :
E. N. RODEROS JR.	S. B. BAYOT JR.

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 2





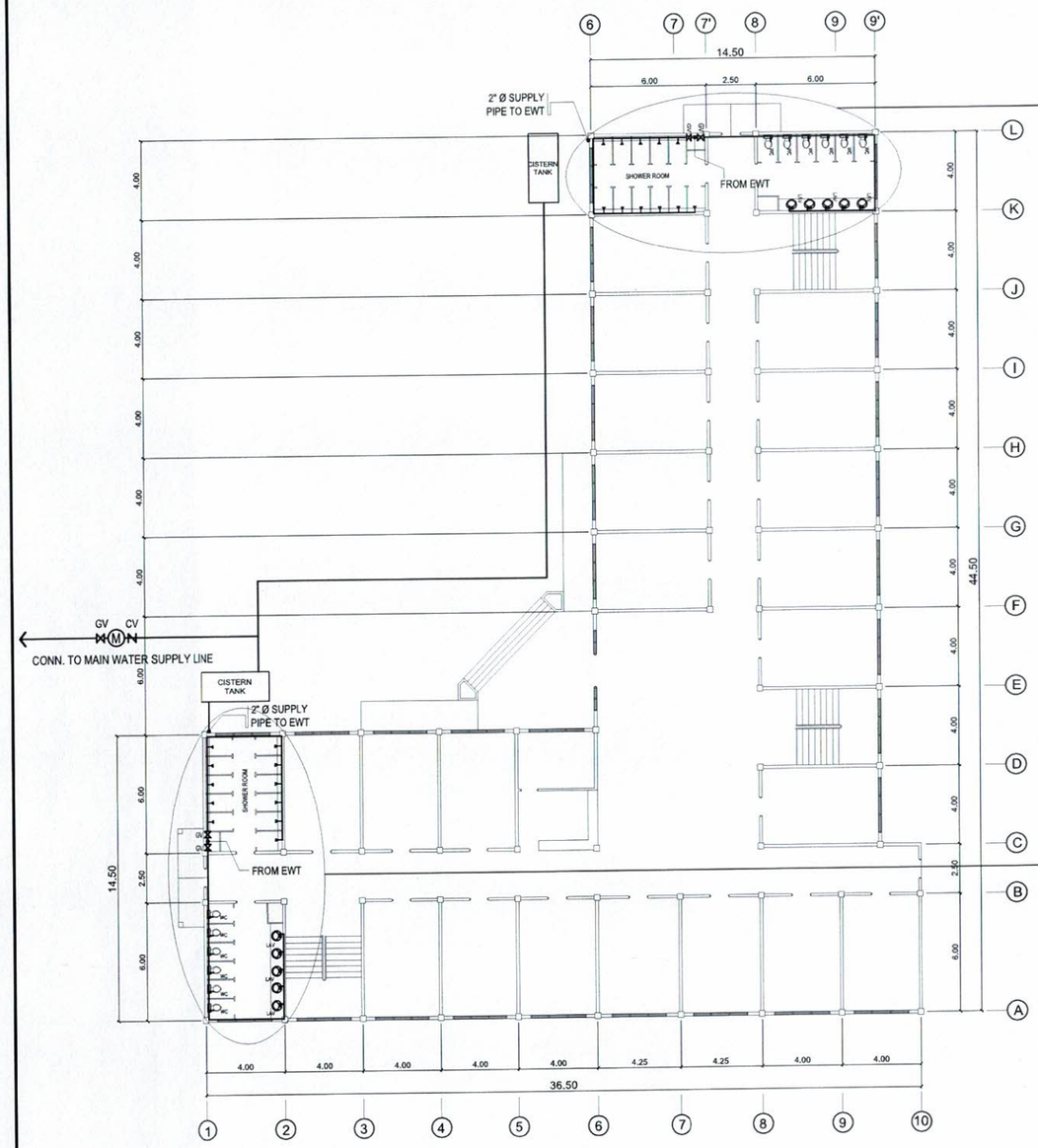


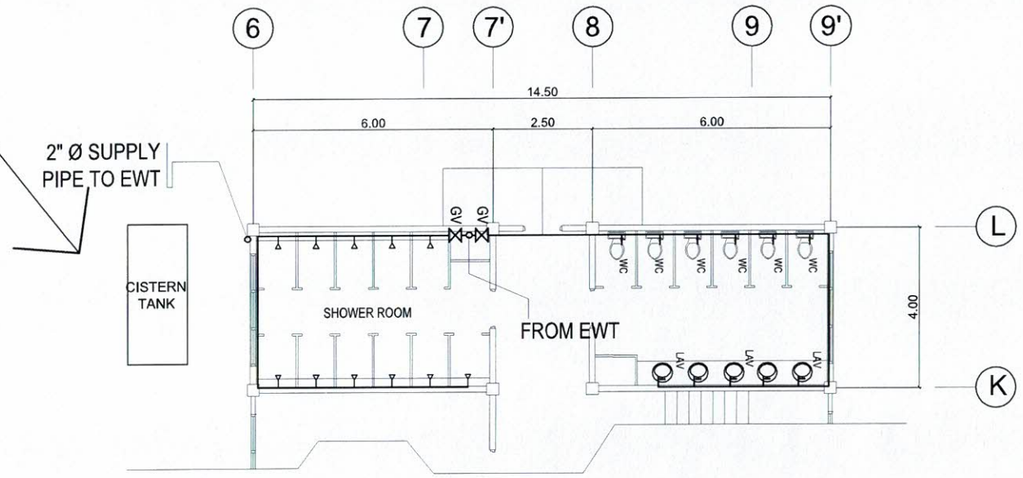
TYP. 3RD - 4TH FLR. SAN. SEWER LINE LAYOUT

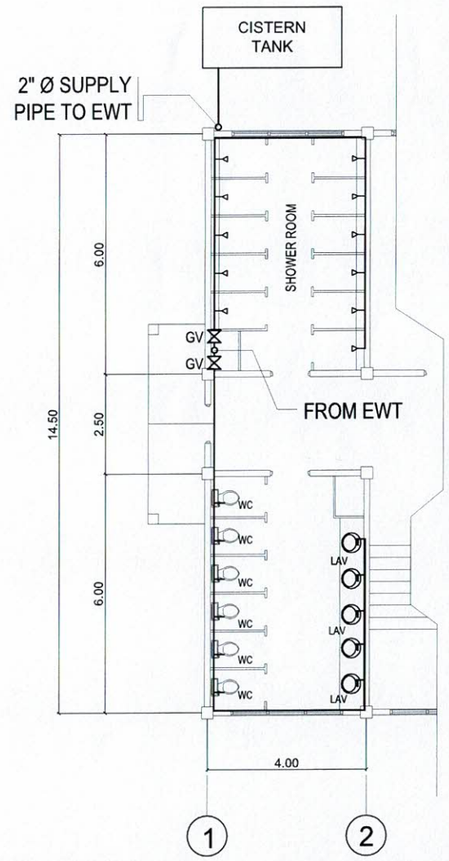
SCALE 1 : 300 MTS

CADD BY :	REGISTERED MASTER PLUMBER :
E. N. RODEROS JR.	S. B. BAYOT JR.

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 3



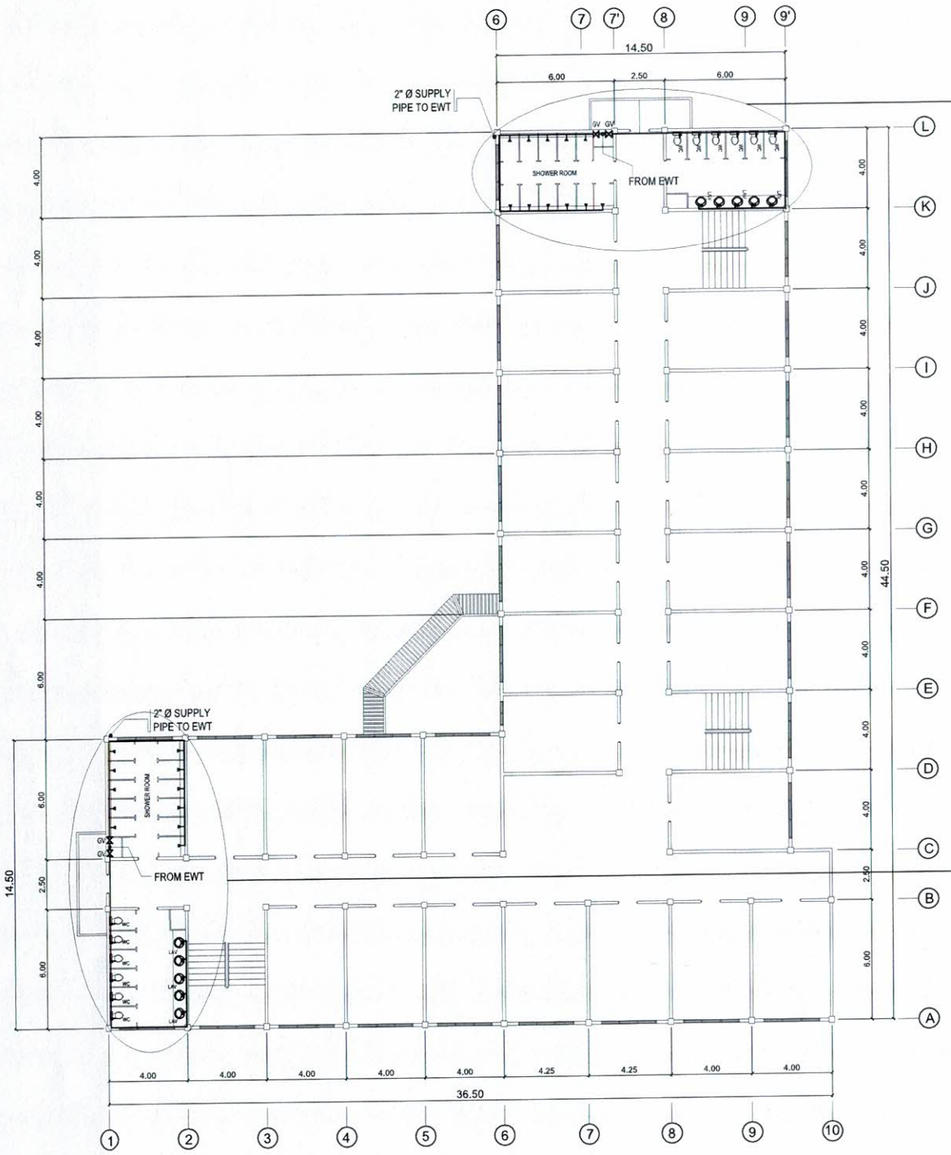


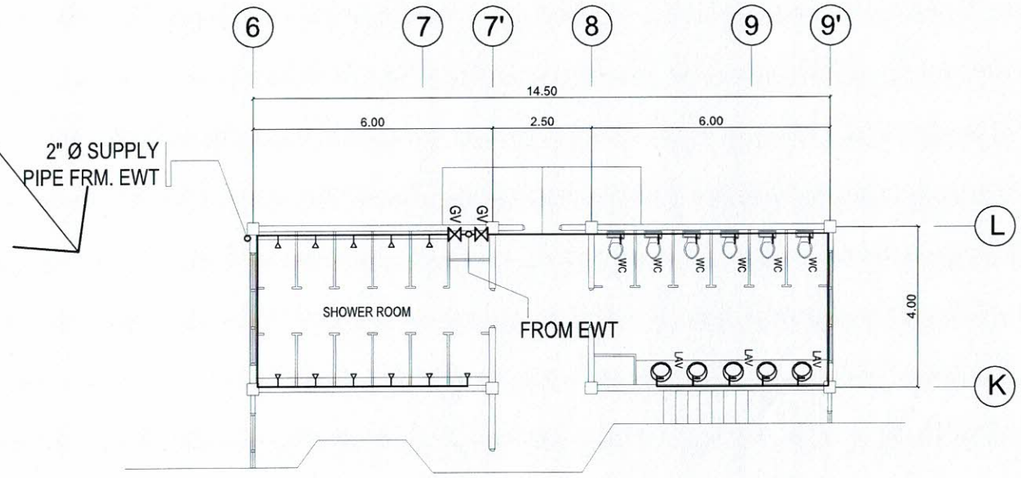


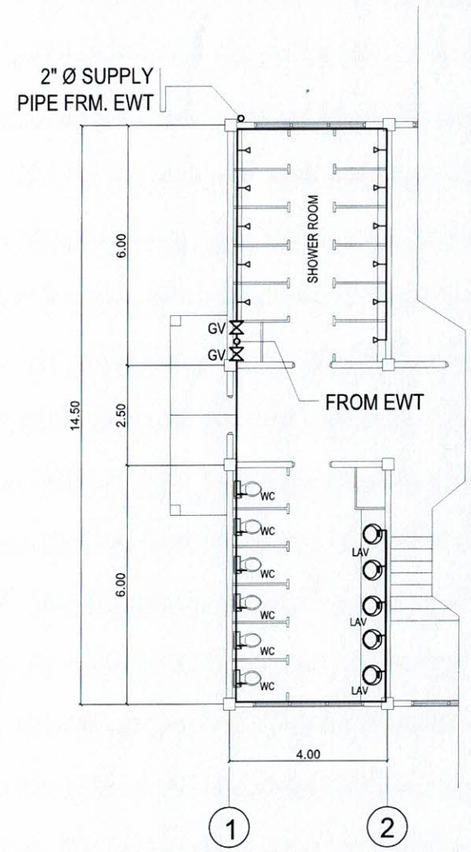
GRD. FLOOR WATER LINE LAYOUT

SCALE 1 : 300 MTS

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





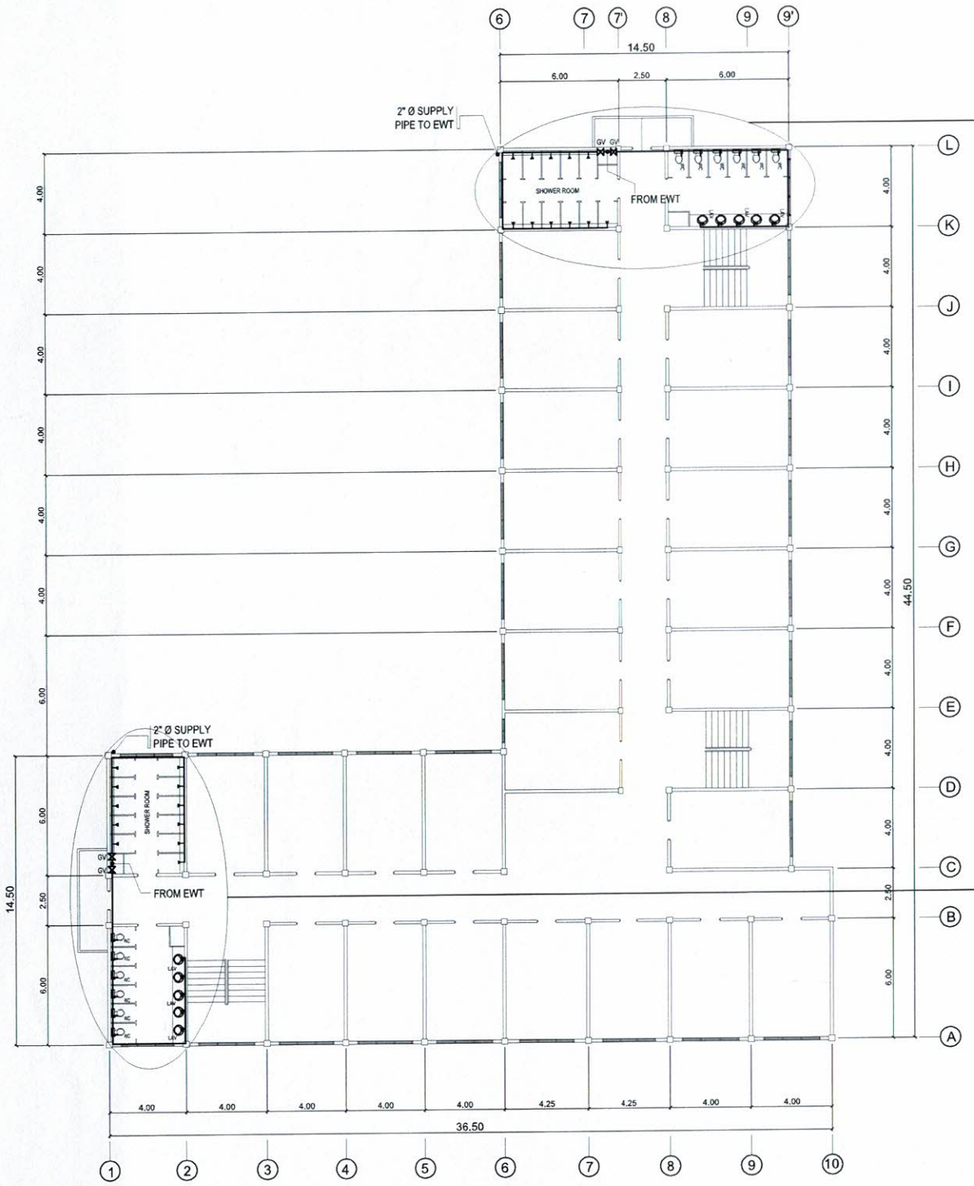


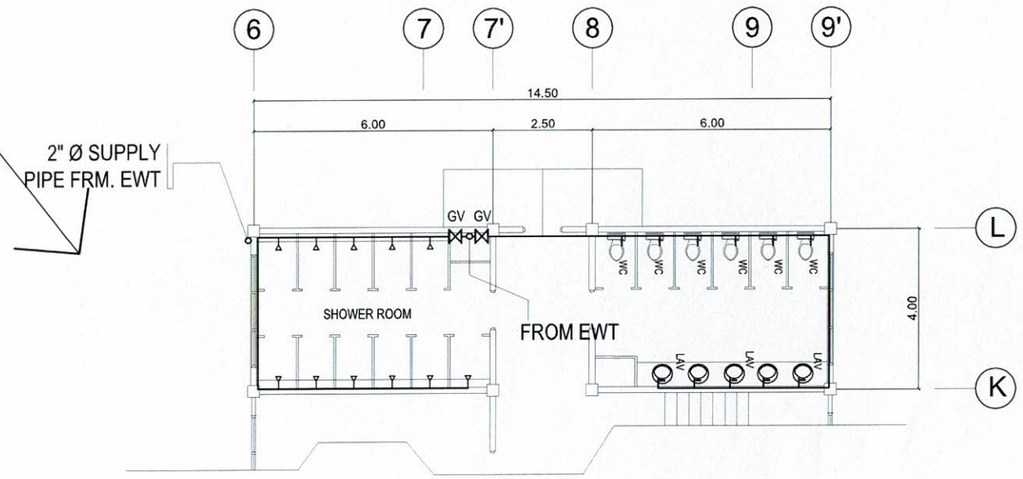
2ND FLOOR WATER LINE LAYOUT

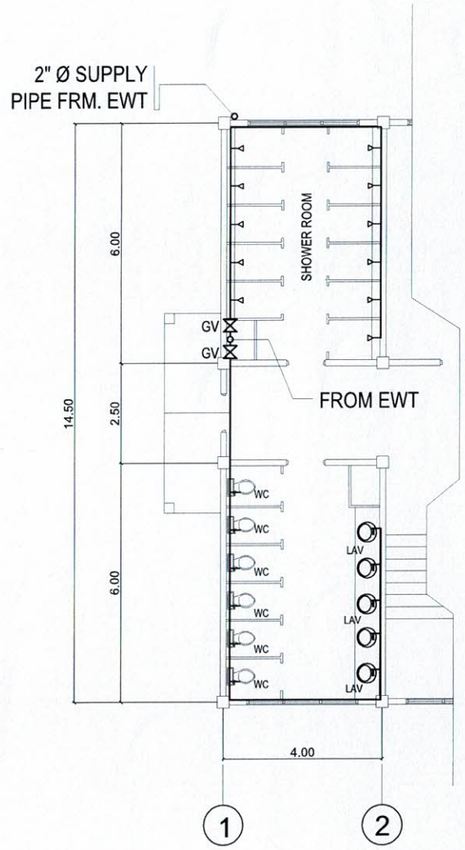
SCALE 1 : 300 MTS

CADD BY :	REGISTERED MASTER PLUMBER :
E. N. RODEROS JR.	S. B. BAYOT JR.

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 5





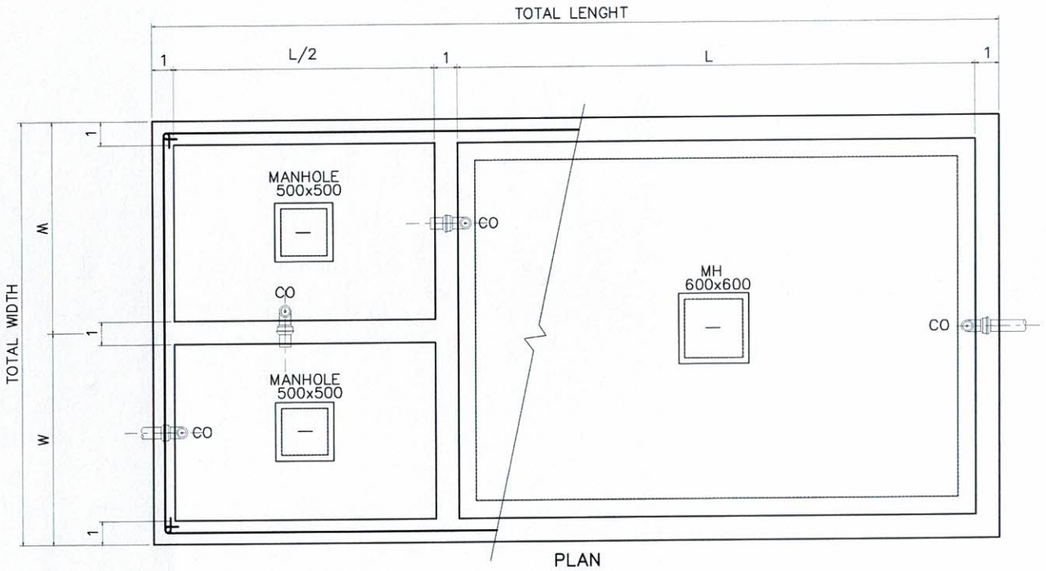


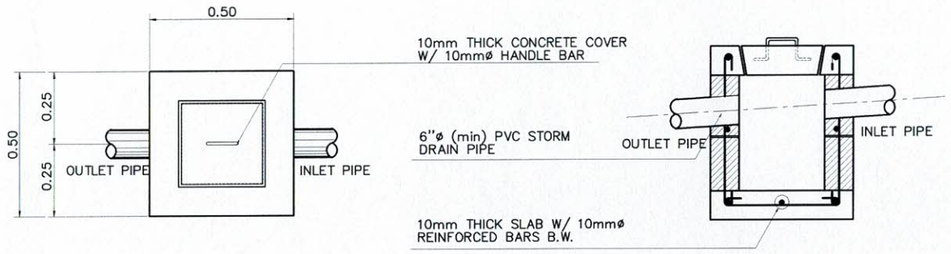
TYP. 3RD - 4TH FLR. SAN SEWER LINE LAYOUT

SCALE 1 : 300 MTS

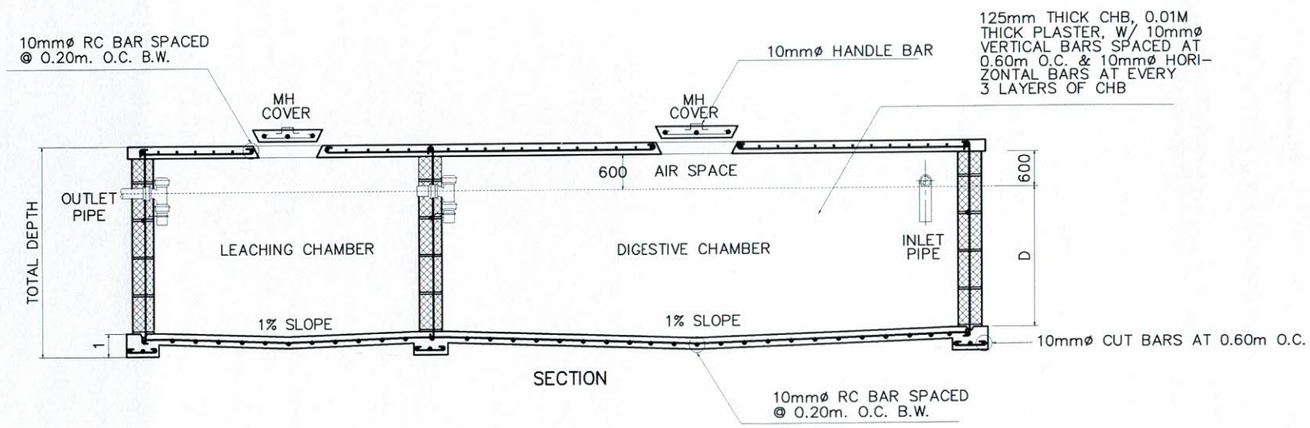
CADD BY :	REGISTERED MASTER PLUMBER :
E. N. RODEROS JR.	S. B. BAYOT JR.

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	P - 6





CATCH BASIN/ JUNCTION BOX DETAIL
SCALE NTS.



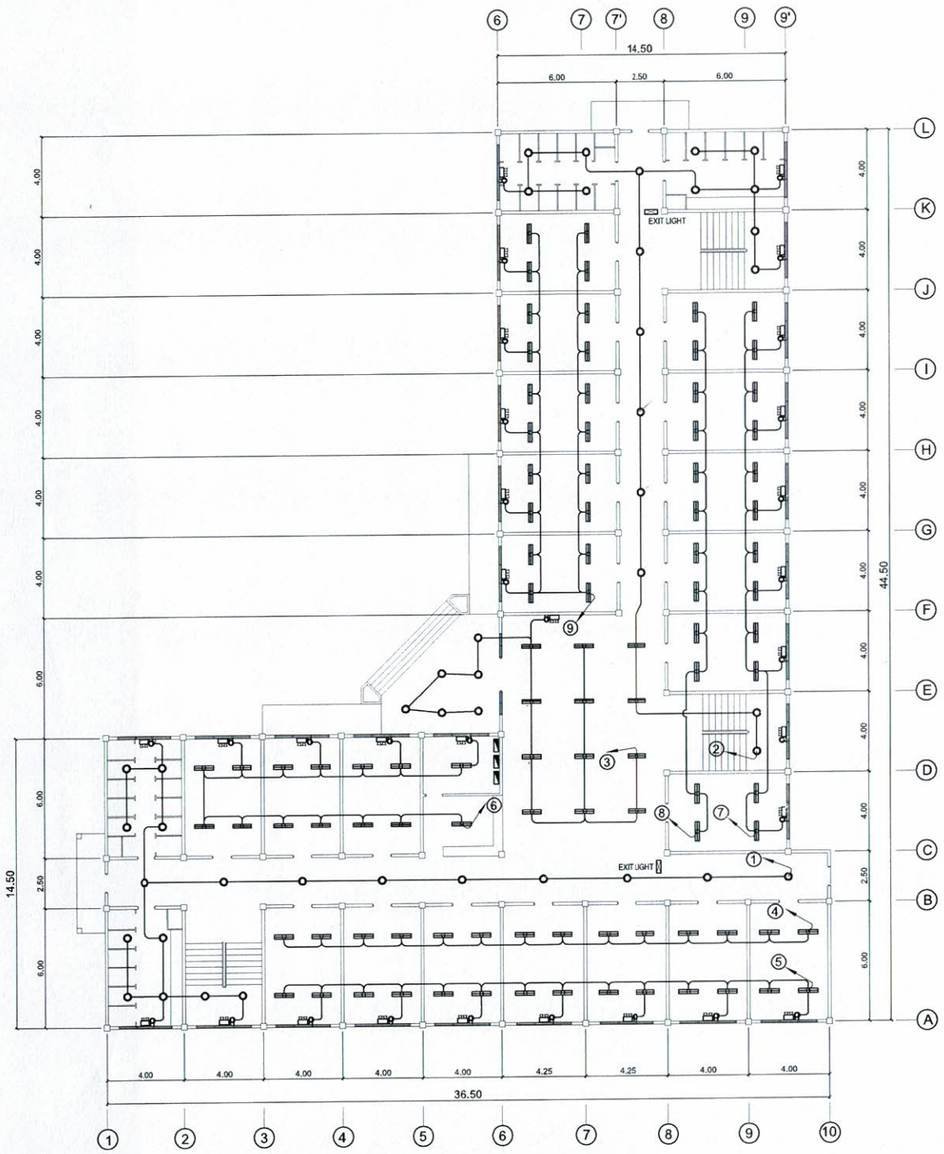
SEPTIC TANK DIMENSION					
LENGTH (L)	L/2	TOTAL LENGTH	WIDTH (W)	TOTAL WIDTH	DEPTH (D)
3600 MM	1800 MM	5400	1000 MM	2000 MM	1500 MM

DETAIL OF SEPTIC TANK
SCALE NTS.

GENERAL NOTES

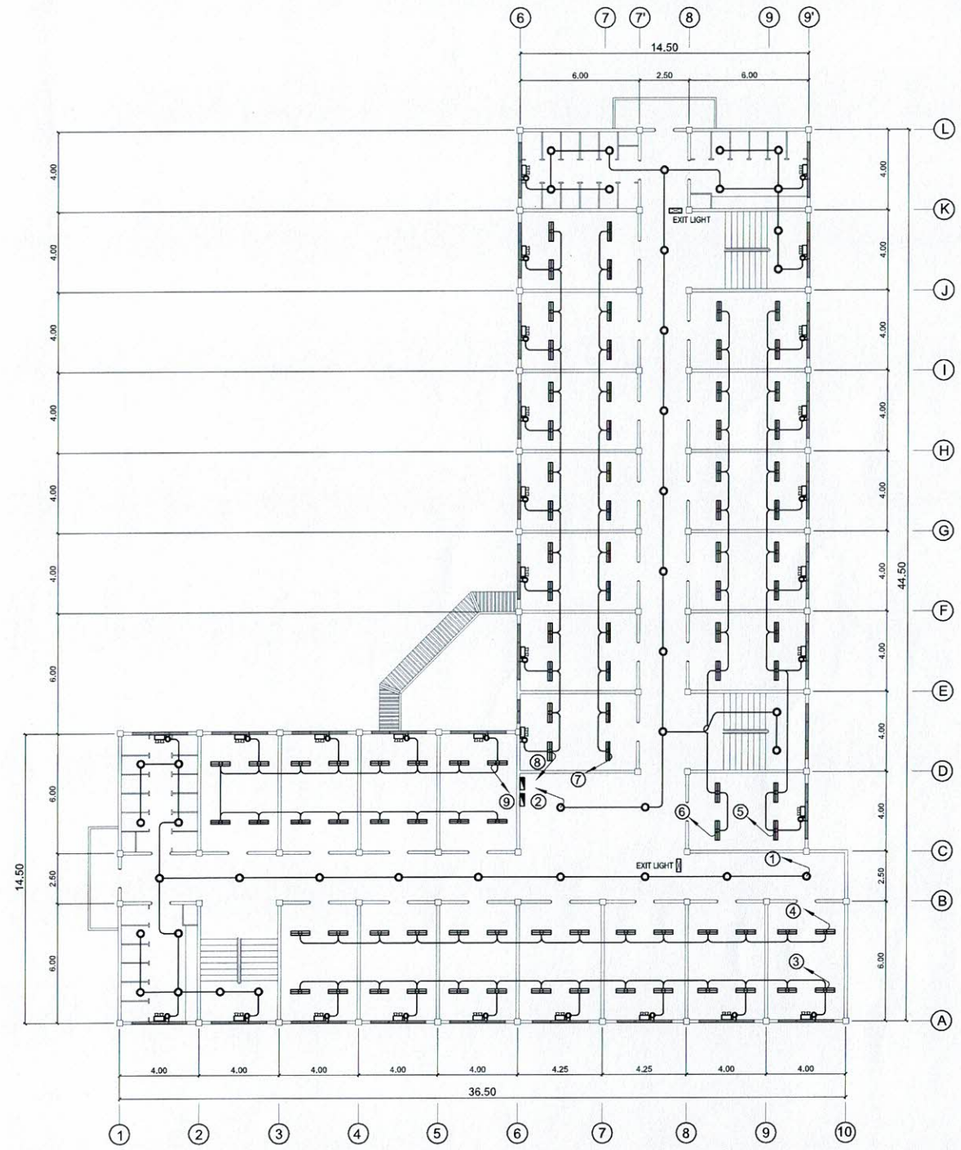
1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHIL. PLUMBING CODE. THE NATIONAL PLUMBING CODE & THE RULES & REGULATIONS OF INDANG , CAVITE.
2. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DICREPANCY FOUND THEREIN.
3. 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 ARCHITECHT OR ENGINEER.
4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
   APPROVED EQUAL.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% UNLESS OTHERWISE SPECIFIED.
6. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH WITH THE MANUFACTURER'S INSTRUCTIONS.
7. 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.
8. ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

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



GRD. FLOOR LIGHTING LAYOUT

SCALE 1 : 300 MTS



2ND FLOOR LIGHTING LAYOUT

SCALE 1 : 300 MTS

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
E. N. RODEROS JR.	R. P. PEÑA						
END USER:	ENDORSED BY:						
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 1

TYP. 3RD - 4TH FLOOR LIGHTING LAYOUT

SCALE 1 : 300 MTS

SCHEDULE OF LOADS

PANEL: GFPA
PHASE: 3
VOLTS: 230

CABLE: 3 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: GROUND FLOOR

MAIN: 50 AT, 50AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
					AB	BC	CA	ABC					
1	22	LIGHTING OUTLET	2200	230	9.57				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
2	24	LIGHTING OUTLET	2400	230	10.43				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
3	17	LIGHTING OUTLET	1700	230		7.39			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
4	14	LIGHTING OUTLET	1400	230		6.09			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
5	21	LIGHTING OUTLET	2100	230			9.13		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
6	18	LIGHTING OUTLET	1800	230			7.83		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
7	18	LIGHTING OUTLET	1800	230	7.83				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
8	13	LIGHTING OUTLET	1300	230		5.65			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
9	25	LIGHTING OUTLET	2500	230			10.87		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
10		SPARE											
		TOTAL	17200	230	27.83	19.13	27.83	0.00	60AT, 3P,18 kAIC	3 - 8.0	+ G 5.5	25	1R,1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 27.83 + 25% x Im] DF = 48.19 *Amperes*
use: 3 - 8.0 SQMM THHN(37.65A/55A) + 1 - 5.5 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 27.83 + 250% x Im] DF = 48.19 *Amperes*
use: 50AT, 50AF, 3P, 230V, 18kAIC, CB

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

PANEL: SFPA
PHASE: 3
VOLTS: 230

CABLE: 3 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: SECOND FLOOR

MAIN: 50 AT, 50AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
					AB	BC	CA	ABC					
1	22	LIGHTING OUTLET	1650	230	7.17				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
2	26	LIGHTING OUTLET	1950	230	8.48				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
3	21	LIGHTING OUTLET	1575	230		6.85			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
4	14	LIGHTING OUTLET	1050	230		4.57			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
5	18	LIGHTING OUTLET	1350	230			5.87		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
6	12	LIGHTING OUTLET	900	230			3.91		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
7	14	LIGHTING OUTLET	1050	230	4.57				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
8	21	LIGHTING OUTLET	1575	230		6.85			20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
9		SPARE											
10		SPARE											
		TOTAL	11100	230	20.22	18.26	9.78	0.00	50AT, 3P,18 kAIC	3 - 8.0	+ G 5.5	25	1R,1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

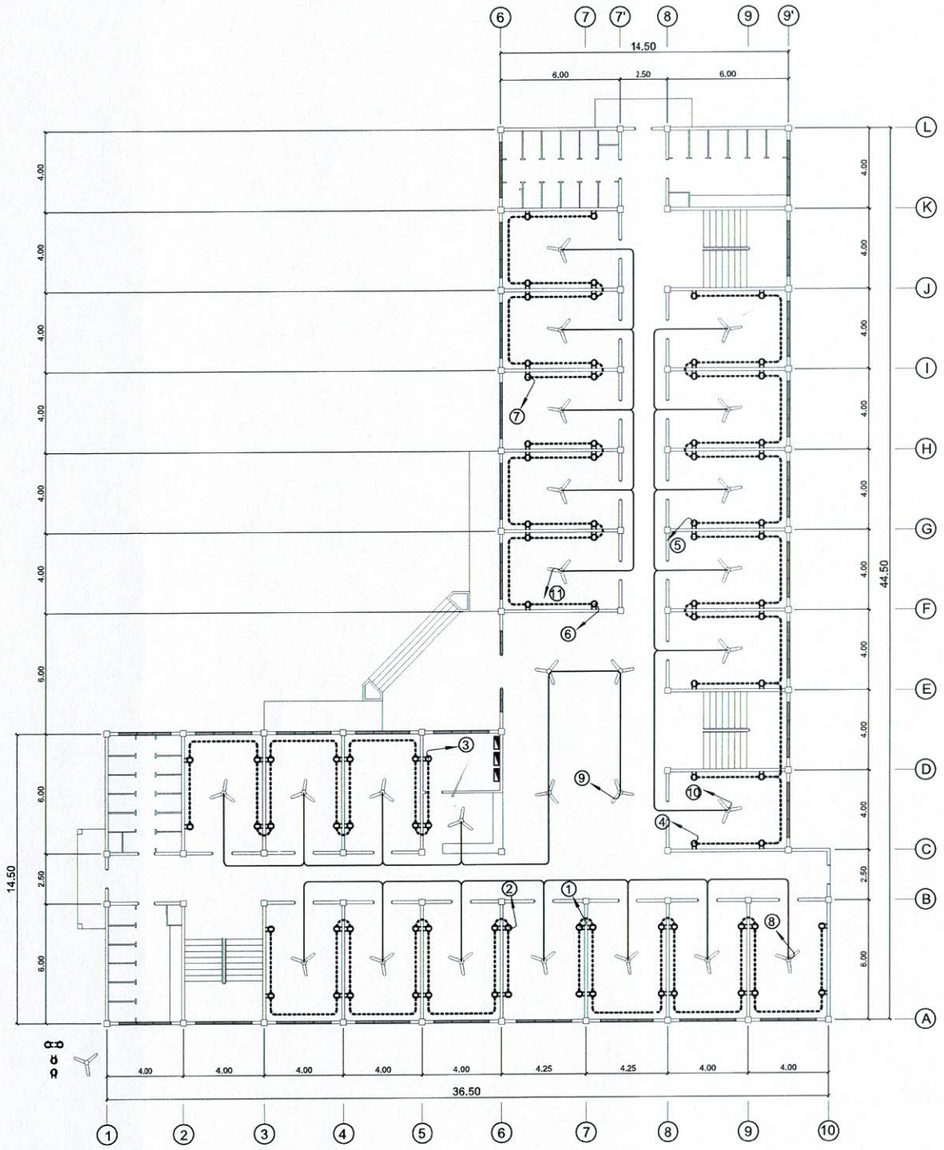
NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 20.22 + 25% x Im] DF = 35.02 *Amperes*
use: 3 - 8.0 SQMM THHN(44.44A/55A) + 1 - 5.5 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 20.22 + 250% x Im] DF = 35.02 *Amperes*
use: 50AT, 50AF, 3P, 230V, 18kAIC, CB

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

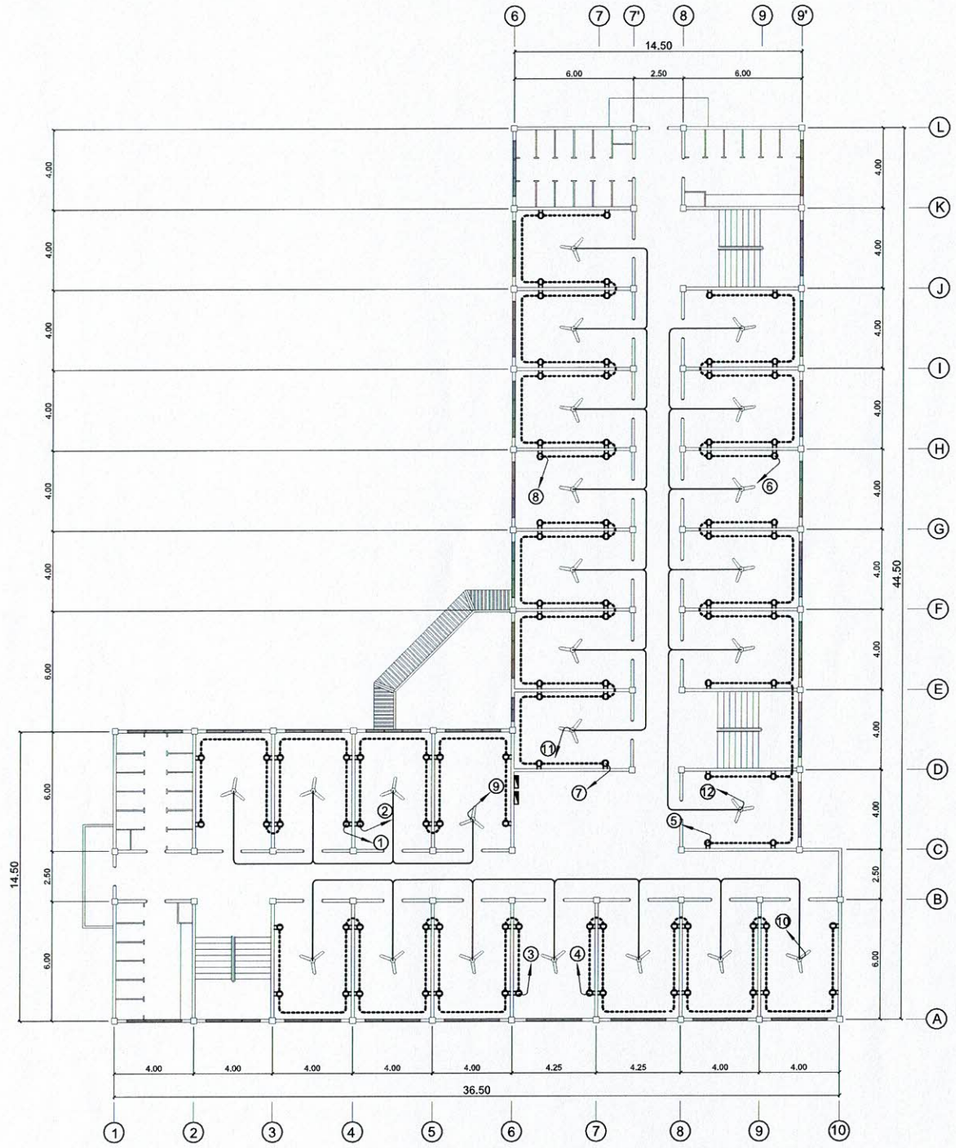
CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :
E. N. RODEROS JR.	R. P. PEÑA

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 2



GRD. FLOOR CONV. OUTLET LAYOUT

SCALE 1 : 300 MTS

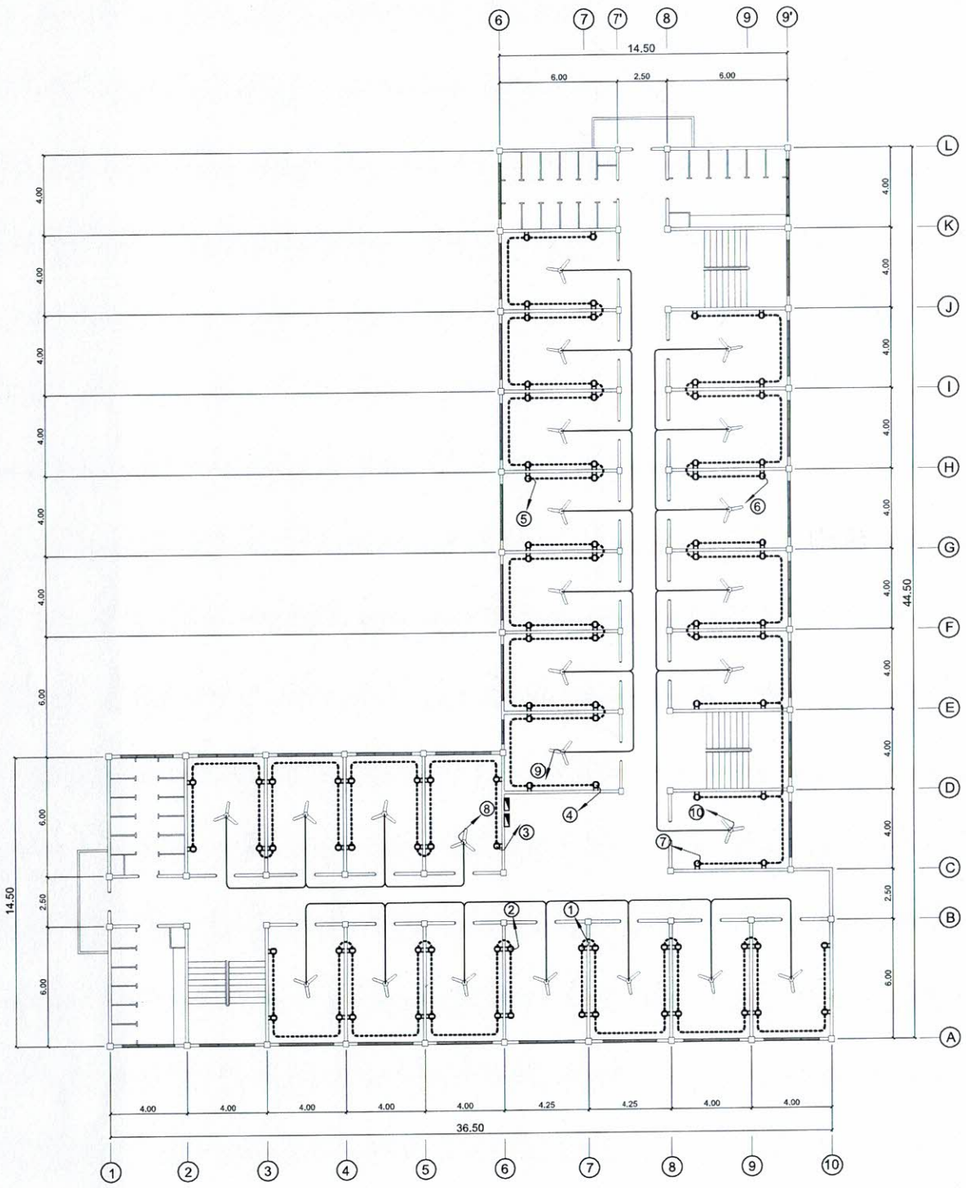


2ND FLR. CONV. OUTLET LAYOUT

SCALE 1 : 300 MTS

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :
E. N. RODEROS JR.	R. P. PEÑA

END USER:	ENDORSED BY:		REC. APPROVAL	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 3



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

SCALE 1 : 300 MTS

SCHEDULE OF LOADS

PANEL: TFPA (TYPICAL - FFPA)
PHASE: 3
VOLTS: 230

CABLE: 3 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: THIRD FLOOR

MAIN: 50 AT, 50AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
1	23	LIGHTING OUTLET	1725	230	7.50				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
2	25	LIGHTING OUTLET	1875	230	8.15				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
3	21	LIGHTING OUTLET	1575	230		6.85			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
4	14	LIGHTING OUTLET	1050	230		4.57			20AT, 2P,10 KAIC	2 - 3.5		15	1B,1Y, 1G
5	20	LIGHTING OUTLET	1500	230			6.52		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
6	12	LIGHTING OUTLET	900	230			3.91		20AT, 2P,10 KAIC	2 - 3.5		15	1Y,1R, 1G
7	18	LIGHTING OUTLET	1350	230		5.87			20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
8	14	LIGHTING OUTLET	1050	230	4.57				20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
9	21	LIGHTING OUTLET	1575	230			6.85		20AT, 2P,10 KAIC	2 - 3.5		15	1R,1BK, 1G
10		SPARE											
		TOTAL	12600	230	20.22	17.28	17.28	0.00	50AT, 3P,18 kAIC	3 - 8.0	+ G 5.5	25	1R,1BK, 1Y, G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 20.22 + 25% x Im] DF = 35.02 *Amperes*
use: 3 - 8.0 SQMM THHN(44.44A/55A) + 1 - 5.5 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 20.22 + 250% x Im] DF = 35.02 *Amperes*
use: 50AT, 50AF, 3P, 230V, 18kAIC, CB

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

PANEL: GFPB
PHASE: 3
VOLTS: 230

CABLE: 3 - 14.0 SQ. MM THHN + G 8.0 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: GROUND FLOOR

MAIN: 70 AT, 100AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
1	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
2	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
3	14	CONVINIENCE OUTLET	2520	230		10.96			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
4	12	CONVINIENCE OUTLET	2160	230		9.39			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
5	12	CONVINIENCE OUTLET	2160	230			9.39		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
6	10	CONVINIENCE OUTLET	1800	230			7.83		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
7	10	CONVINIENCE OUTLET	1800	230	7.83				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
8	7	CEILING FANS OUTLET	1750	230	7.61				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
9	8	CEILING FANS OUTLET	2000	230		8.70			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
10	6	CEILING FANS OUTLET	1500	230		6.52			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
11	5	CEILING FANS OUTLET	1250	230			5.43		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
12		SPARE	1250	230			5.43						
		TOTAL	23230	230	37.35	35.57	28.09	0.00	70AT, 3P,18 kAIC	3 - 14.0	+ G 8.0	25	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

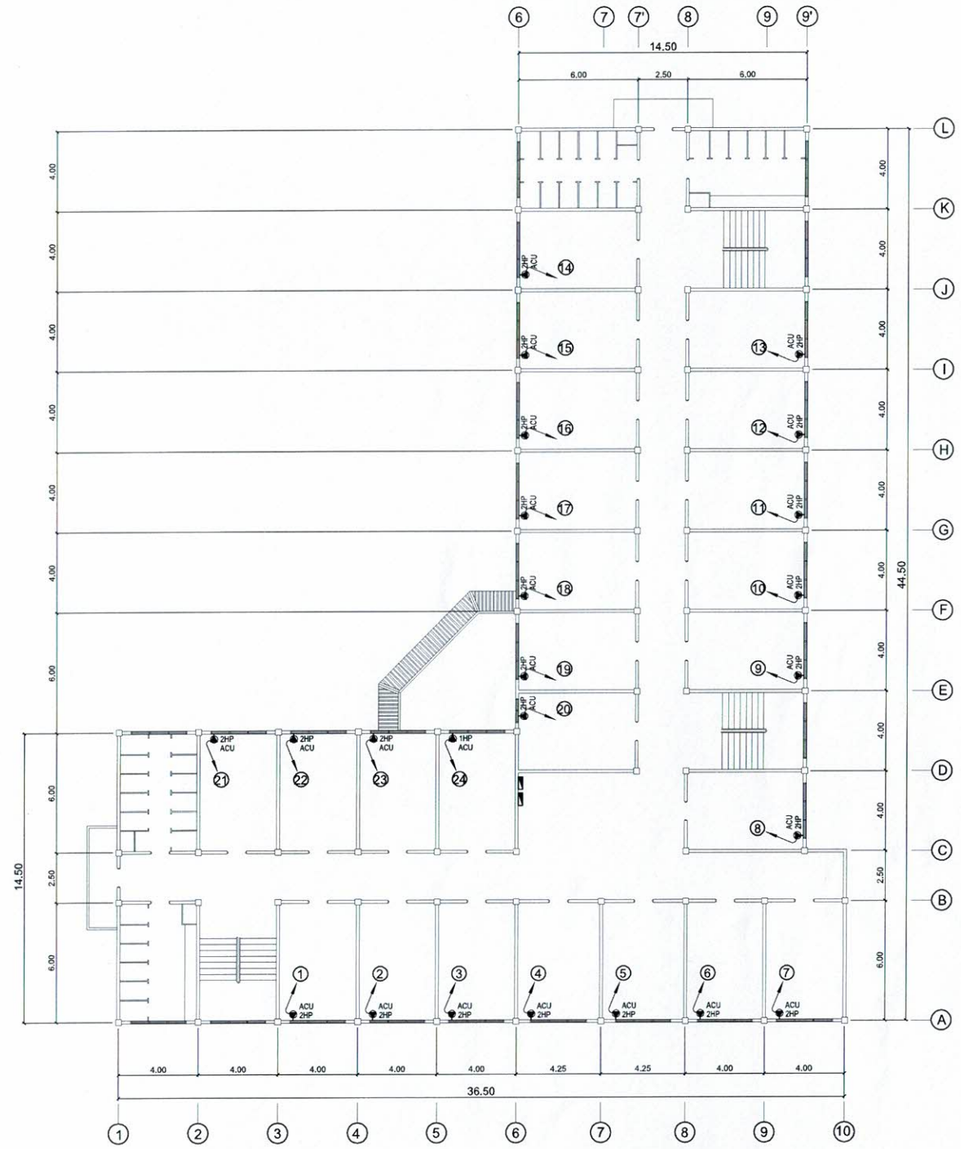
I_{FL} = [1.732 x 37.35 + 25% x Im] DF = 64.69 *Amperes*
use: 3 - 14.0 SQMM THHN(64.69A/57.5A) + 1 - 8.0 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 37.35 + 250% x Im] DF = 64.69 *Amperes*
use: 70AT, 100AF, 3P, 230V, 18kAIC, CB

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

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
E. N. RODEROS JR.	R. P. PEÑA						
END USER:	ENDORSED BY:						
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 4

GRD. FLOOR AC OUTLET LAYOUT

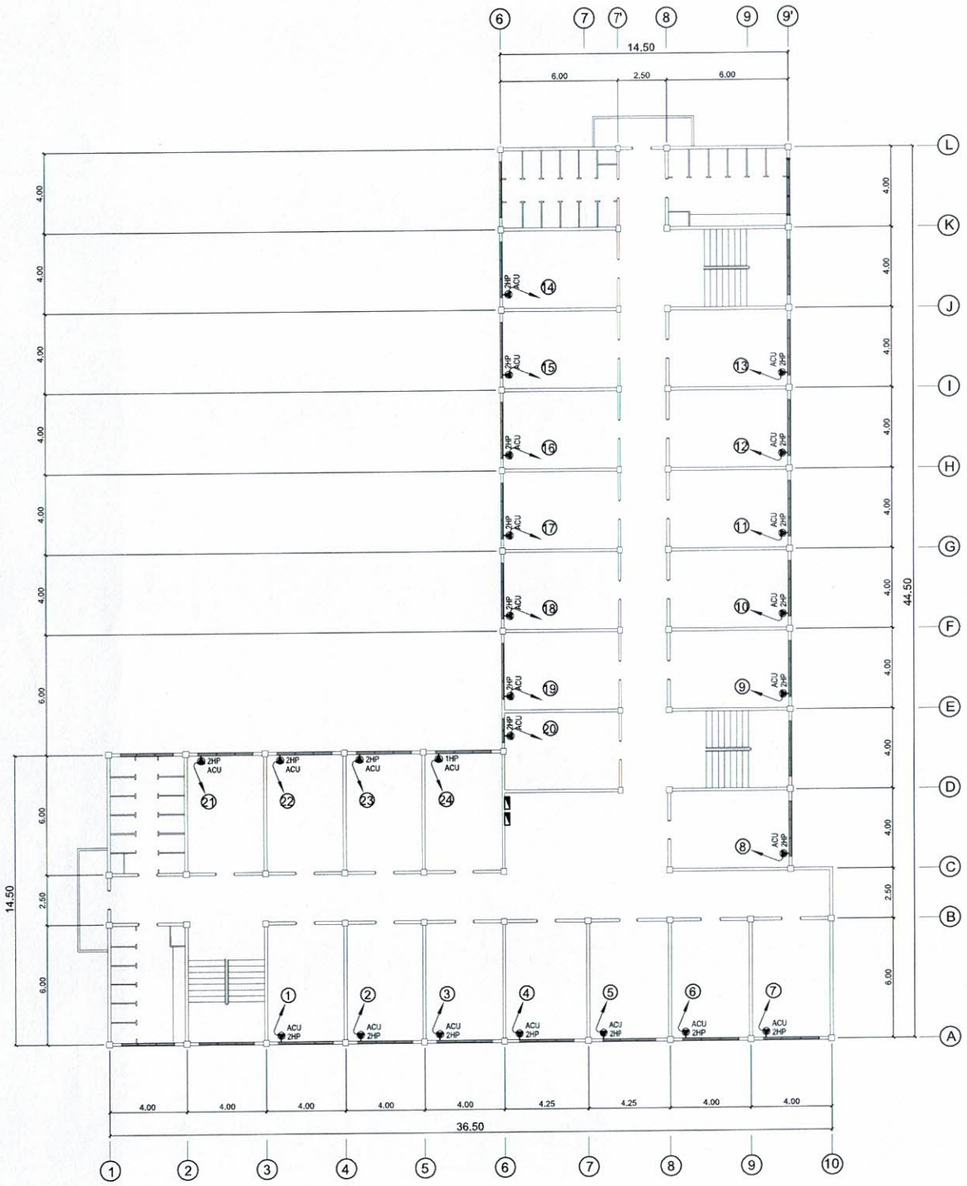
SCALE 1 : 300 MTS



2ND FLR. AC OUTLET LAYOUT

SCALE 1 : 300 MTS

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



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

SCALE 1 : 300 MTS

SCHEDULE OF LOADS

PANEL: SFPB
PHASE: 3
VOLTS: 230

CABLE: 3 - 14.0 SQ. MM THHN + G 8.0 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: SECOND FLOOR

MAIN: 70 AT, 100AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
1	8	CONVINIENCE OUTLET	1440	230	6.26				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
2	8	CONVINIENCE OUTLET	1440	230	6.26				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
3	14	CONVINIENCE OUTLET	2520	230		10.96			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
4	14	CONVINIENCE OUTLET	2520	230		10.96			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
5	14	CONVINIENCE OUTLET	2520	230			10.96		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
6	10	CONVINIENCE OUTLET	1800	230			7.83		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
7	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
8	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
9	4	CEILING FANS OUTLET	1000	230		4.35			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
10	7	CEILING FANS OUTLET	1750	230		7.61			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
11	7	CEILING FANS OUTLET	1750	230			7.61		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
12	6	CEILING FANS OUTLET	1500	230			6.52		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
13		SPARE											
14		SPARE											
		TOTAL	23280	230	34.43	33.87	32.91	0.00	70AT, 3P,18 kAIC	3 - 14.0	+ G 8.0	25	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 34.43 + 25% x Im] DF = 59.64 Amperes
use: 3 - 14.0 SQMM THHN(64.69A/57.5A) + 1 - 8.0 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 34.43 + 250% x Im] DF = 59.64 Amperes
use: 70AT, 100AF, 3P, 230V, 18kAIC, CB

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

PANEL: TFPB (TYPICAL - FFPB)
PHASE: 3
VOLTS: 230

CABLE: 3 - 14.0 SQ. MM THHN + G 8.0 SQ MM THHN
CONDUIT: RSC, 25 MM DIA.
LOCATION: SECOND FLOOR

MAIN: 70 AT, 100AF, 3P, 230V, 18 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	RATING	THHN	+ THHN(G)		
1	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
2	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
3	16	CONVINIENCE OUTLET	2880	230		12.52			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
4	14	CONVINIENCE OUTLET	2520	230		10.96			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
5	10	CONVINIENCE OUTLET	1800	230			7.83		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
6	10	CONVINIENCE OUTLET	1800	230			7.83		20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
7	14	CONVINIENCE OUTLET	2520	230	10.96				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
8	4	CEILING FANS OUTLET	1000	230	4.35				20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
9	7	CEILING FANS OUTLET	1750	230		7.61			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
10	6	CEILING FANS OUTLET	1500	230		6.52			20AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
11		SPARE	1500	230			6.52						
12		SPARE	1500	230			6.52						
		TOTAL	20810	230	37.22	37.61	15.65	0.00	70AT, 3P,18 kAIC	3 - 14.0	+ G 8.0	25	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 37.22 + 25% x Im] DF = 64.46 Amperes
use: 3 - 14.0 SQMM THHN(64.69A/57.5A) + 1 - 8.0 SQMM THHN IN 25 MM DIA. RSC
.
I_{CB} = [1.732 x 37.22 + 250% x Im] DF = 64.46 Amperes
use: 70AT, 100AF, 3P, 230V, 18kAIC, CB

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

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :
E. N. RODEROS JR.	R. P. PEÑA

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 6

SCHEDULE OF LOADS

PANEL: GFPC
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA
LOCATION: GROUND FLOOR

MAIN: 200 AT, 225AF, 3P, 230V, 22 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
1	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
2	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
3	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
4	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
5	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
6	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
7	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
8	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
9	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
10	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
11	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
12	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
13	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
14	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
15	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
16	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
17	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
18	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
19	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
20	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
21	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
22	1	AIR COND. UNIT OUTLET, 1HP	1000	230		8.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
23		SPARE	2000	230			12.00						
24		SPARE	2000	230			12.00						
		TOTAL		230	96.00	92.00	96.00	0.00	200AT, 3P, 22kAIC	3 - 60.0	+ G 14.0	80	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 96 + 25% x Im] DF = 169.27 *Amperes*
use: 3 - 60.0 SQMM THHN(169.27A/170A) + 1 - 8.0 SQMM THHN IN 80 MM DIA. RSC
.
I_{CB} = [1.732 x 48 + 250% x Im] DF = 196.27 *Amperes*
use: 200AT, 225AF, 3P, 230V, 22kAIC, CB

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

PANEL: SFPC
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA
LOCATION: SECOND FLOOR

MAIN: 200 AT, 225AF, 3P, 230V, 22 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor		Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+ SQ. MM THHN(G)		
1	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
2	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
3	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
4	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
5	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
6	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
7	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
8	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
9	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
10	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
11	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
12	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
13	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
14	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
15	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
16	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
17	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
18	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1Y,1R, 1G
19	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
20	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1R,1BK, 1G
21	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
22	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
23	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
24	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+ G - 2.0	15	1B,1Y, 1G
		TOTAL	24000	230	96.00	96.00	96.00	0.00	200AT, 3P, 22kAIC	3 - 60.0	+ G 14.0	80	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 96 + 25% x Im] DF = 169.27 *Amperes*
use: 3 - 60.0 SQMM THHN(169.27A/170A) + 1 - 8.0 SQMM THHN IN 80 MM DIA. RSC
.
I_{CB} = [1.732 x 48 + 250% x Im] DF = 196.27 *Amperes*
use: 200AT, 225AF, 3P, 230V, 22kAIC, CB

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

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

SCHEDULE OF LOADS

PANEL: TFPC (FFPC - TYPICAL)
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA
LOCATION: THIRD FLOOR

MAIN: 200 AT, 225AF, 3P, 230V, 22 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	NO. OF OUTLETS	CIRCUIT DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES AB	BC	CA	ABC	CIRCUIT BREAKER RATING	SQ. MM THHN	+	SQ. MM THHN(G)		
1	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
2	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
3	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
4	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
5	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
6	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
7	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
8	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
9	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
10	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
11	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
12	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
13	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
14	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
15	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
16	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
17	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
18	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1Y,1R, 1G
19	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
20	1	AIR COND. UNIT OUTLET, 2HP	2000	230	12.00				30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1R,1BK, 1G
21	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
22	1	AIR COND. UNIT OUTLET, 2HP	2000	230		12.00			30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
23	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
24	1	AIR COND. UNIT OUTLET, 2HP	2000	230			12.00		30AT, 2P,10 KAIC	2 - 3.5	+	G - 2.0	15	1B,1Y, 1G
		TOTAL	24000	230	96.00	96.00	96.00	0.00	200AT, 3P, 22kAIC	3 - 60.0	+	G 14.0	80	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 96 + 25% x Im] DF = 169.27 *Amperes*
use: 3 - 60.0 SQMM THHN(169.27A/170A) + 1 - 8.0 SQMM THHN IN 80 MM DIA. RSC
.

I_{CB} = [1.732 x 48 + 250% x Im] DF = 196.27 *Amperes*
use: 200AT, 225AF, 3P, 230V, 22kAIC, CB

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

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :
E. N. RODEROS JR.	R. P. PEÑA

END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 8

MAIN DISTRUBUTION PANEL

PANEL: DP1
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA.
LOCATION: GROUND FLOOR

MAIN: 275 AT, 400AF, 3P, 230V, 30 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	PANEL CODE	PANEL DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+	SQ. MM THHN(G)		
					AB	BC	CA	ABC						
1	GFPA	GROUND FLR PANEL A	17200	230	27.83	19.13	27.83	0	60AT, 3P,18 kAIC	3 - 8.0	+	G 5.5	25	1R,1BK, 1Y, G
2	GFPB	GROUND FLR PANEL B	23230	230	37.35	35.57	28.09	0	70AT, 3P,18 kAIC	3 - 14.0	+	G 8.0	25	1R,1BK,1Y,G
3	GFPC	GROUND FLR PANEL C	43000	230	96.00	92.00	96.00	0	200AT, 3P, 22kAIC	3 - 60.0	+	G 14.0	80	1R,1BK,1Y,G
4		SPARE												
		TOTAL	83430	230	161.17	146.70	151.91	0.00	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 161.17 + 25% x Im] DF = 279.15 *Amperes*
use: 3 - 125.0 SQMM THHN(252.57A/285A) + 1 - 22.0 SQMM THHN IN 100 MM DIA. RSC
.
I_{CB} = [1.732 x 161.17 + 250% x Im] DF 279.15 *Amperes*
use: 275AT, 400AF, 3P, 230V, 30kAIC, CB

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

PANEL: DP4
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA.
LOCATION: FOURTH FLOOR

MAIN: 275AT, 400AF, 3P, 230V, 30 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	PANEL CODE	PANEL DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+	SQ. MM THHN(G)		
					AB	BC	CA	ABC						
1	TFPA	THIRD FLR PANEL A	12600	230	20.22	17.28	17.28	0	50AT, 3P,18 kAIC	3 - 8.0	+	G 5.5	25	1R,1BK, 1Y, G
2	TFPB	THIRD FLR PANEL B	20810	230	37.61	15.65	37.22	0	70AT, 3P,18 kAIC	3 - 14.0	+	G 8.0	25	1R,1BK,1Y,G
3	TFPC	THIRD FLR PANEL C	24000	230	96.00	96.00	96.00	0	200AT, 3P, 22kAIC	3 - 60.0	+	G 14.0	80	1R,1BK,1Y,G
4		SPARE												
		TOTAL	57410	230	153.83	128.93	150.50	0.00	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 153.83 + 25% x Im] DF = 266.43 *Amperes*
use: 3 - 125.0 SQMM THHN(252.57A/285A) + 1 - 22.0 SQMM THHN IN 100 MM DIA. RSC
.
I_{CB} = [1.732 x 153.83 + 250% x Im] DF 266.43 *Amperes*
use: 275AT, 400AF, 3P, 230V, 30kAIC, CB

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

PANEL: DP2
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA.
LOCATION: SECOND FLOOR

MAIN: 275 AT, 400AF, 3P, 230V, 30 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	PANEL CODE	PANEL DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+	SQ. MM THHN(G)		
					AB	BC	CA	ABC						
1	SFPA	SECOND FLR PANEL A	11100	230	20.22	20.22	20.22	0	50AT, 3P,18 kAIC	3 - 8.0	+	G 5.5	25	1R,1BK, 1Y, G
2	SFPB	SECOND FLR PANEL B	23280	230	34.43	34.43	34.43	0	70AT, 3P,18 kAIC	3 - 14.0	+	G 8.0	25	1R,1BK,1Y,G
3	SFPC	SECOND FLR PANEL C	24000	230	96.00	96.00	96.00	0	200AT, 3P, 22kAIC	3 - 60.0	+	G 14.0	80	1R,1BK,1Y,G
4		SPARE												
		TOTAL	58380	230	150.65	150.65	150.65	0.00	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 148.04 + 25% x Im] DF = 260.93 *Amperes*
use: 3 - 125.0 SQMM THHN(252.57A/285A) + 1 - 22.0 SQMM THHN IN 100 MM DIA. RSC
.
I_{CB} = [1.732 x 148.04 + 250% x Im] DF 260.93 *Amperes*
use: 275AT, 400AF, 3P, 230V, 30kAIC, CB

This Electrical Design is good only for the above connected loads.
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PANEL: MDP
PHASE: 3
VOLTS: 230

CABLE: 3 - 60.0 SQ. MM THHN + G 14.0 SQ MM THHN
CONDUIT: RSC, 80 MM DIA.
LOCATION: FOURTH FLOOR

MAIN: 275AT, 400AF, 3P, 230V, 30 kAIC,MCCB
ENCLOSURE : NEMA 1
MOUNTING: SURFACE

CKT NO.	PANEL CODE	PANEL DESCRIPTION	LOAD IN						CIRCUIT PROTECTION	Size of Conductor			Size Of Conduit In MM ø	Color Code
			VOLT-AMPERES	VOLT	AMPERES				CIRCUIT BREAKER RATING	SQ. MM THHN	+	SQ. MM THHN(G)		
					AB	BC	CA	ABC						
1	DP1	DISTRIBUTION PANEL 1	83430	230	161.17	146.70	151.91	0	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G
2	DP2	DISTRIBUTION PANEL 2	58380	230	150.65	150.65	150.65	0	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G
3	DP3	DISTRIBUTION PANEL 3	57410	230	131.87	150.89	150.50	0	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G
4	DP4	DISTRIBUTION PANEL 4	57410	230	153.83	128.93	150.50	0	275AT, 3P, 22kAIC	3 - 125.0	+	G 22.0	100	1R,1BK,1Y,G
5	JPP	JOCKEY PUMP PANEL, 2.5HP	1865	230			14.00		30AT, 2P, 18kAIC	2 - 5.5	+	G 3.5	32	1R,1BK,1Y,G
6	FPP	FIRE PUMP PANEL, 25 HP	18650	230				68.00	500AT, 3P, 35kAIC	3 - 22.0	+	G 8.0	40	1R,1BK,1Y,G
7	WPP	WATER PUMP PANEL, 2 HP	1492	230		12.00			30AT, 2P, 18kAIC	2 - 5.5	+	G 3.5	32	1R,1BK,1Y,G
8		SPARE												
		TOTAL	199220	230	597.52	589.17	617.57	68.00	275AT, 3P, 22kAIC	3-3-125.0	+	G 30.0	100	1R,1BK,1Y,G

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:
G - Means Ground Wire
1R- Color RED
1BK- Color BLACK
1G- Color GREEN

I_{FL} = [1.732 x 594.87 + 25% x Im] DF = 912.90 *Amperes*
use: 3 - 3 -125.0 SQMM THHN(252.57A/285A) + 1 - 22.0 SQMM THHN IN 100 MM DIA. RSC
.
I_{CB} = [1.732 x 594.87 + 250% x Im] DF 938.10 *Amperes*
use: 1000AT, 1000AF, 3P, 230V, 30kAIC, CB

$$kVA = \frac{Icb \times 230 \times 1.732}{1000} = 373.7009$$

say = 450

Use : 3 - 150 kVA, Pole Mounted Distribution Transformer, 13.8kV/ 0.230kV/ 0.15kV , 60 Hz

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

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :						
E. N. RODEROS JR.	R. P. PEÑA						
END USER:	ENDORSED BY:		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
L. . ABOGADIE DIRECTOR OBA	O. B. DELOS REYES DIRECTOR PLANNING OFFICE	L. L. CERO VPPD CVSU	C. A. POLINGA VPASS CVSU	H. D. ROBLES PRES CVSU	CONSTRUCTION OF FOUR STOREY DORMITORY CVSU, MAIN CAMPUS	CAVITE STATE UNIVERSITY	E - 9

GENERAL NOTES & SPECIFICATIONS

1. ALL ELECTRICAL WORKS SHALL COMPLY W/ THE PROVISIONSOF 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 EQUIPTMENT GROUNDING SHALL BE PROVIDED.

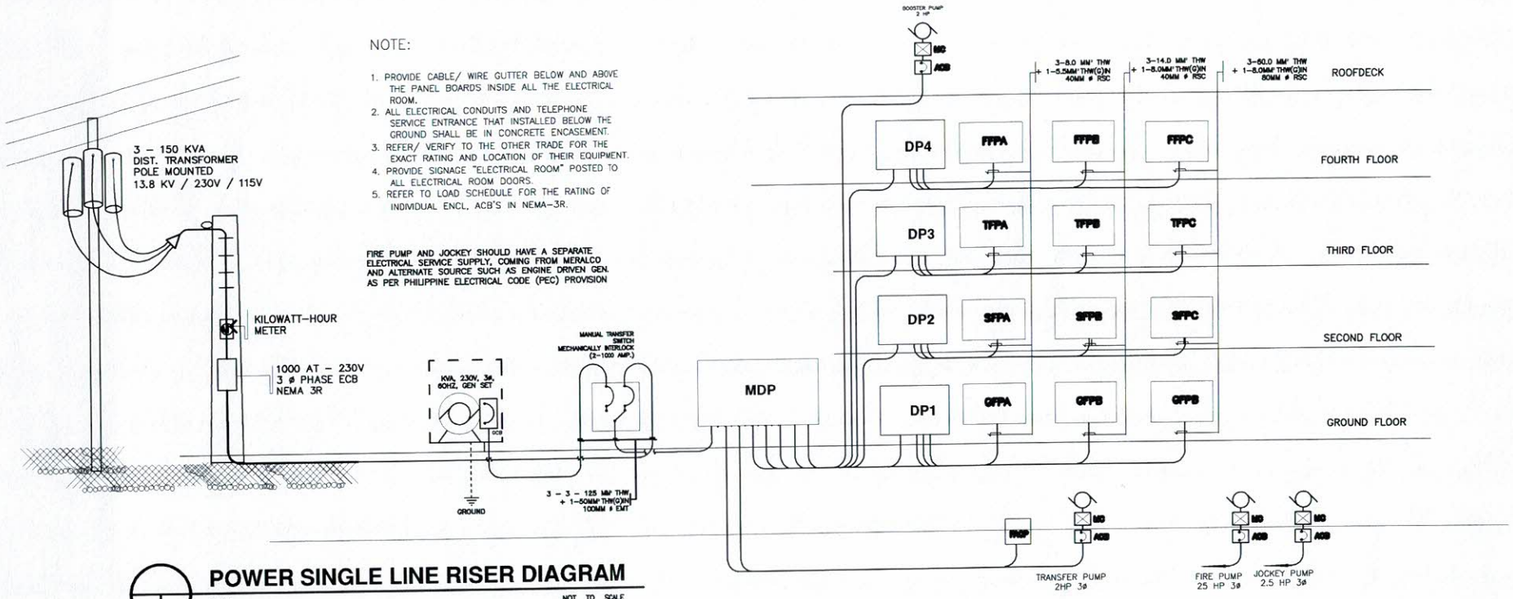
LEGENDS & SYMBOLS:

- 2x40W TROFFER TYPE FLOURESCENT FIXTURE
- 1x40W TROFFER TYPE FLOURESCENT FIXTURE
- PIN LIGHT
- S1 SWITCH CONTROL
- FLOOD LIGHT
- EMERGENCY LIGHT
- CIRCUIT HOMERUN
- LPP PANEL BOARD
- FA FIRE ALARM CONTROL PANEL
- SERVICE ENTRANCE
- M KILOWATT HOUR METER
- AIR CIRCUIT BREAKER
- ACU AIRCONDITIONING UNIT
- DUPLEX CONVENIENCE OUTLET
- F FIRE ALARM STATION OUTLET
- B FIRE ALARM BELL
- B VIBRATING BELL OUTLET

NOTE:

1. PROVIDE CABLE/ WIRE GUTTER BELOW AND ABOVE THE PANEL BOARDS INSIDE ALL THE ELECTRICAL ROOM.
2. ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
3. REFER/ VERIFY TO THE OTHER TRADE FOR THE EXACT RATING AND LOCATION OF THEIR EQUIPMENT.
4. PROVIDE SIGNAGE "ELECTRICAL ROOM" POSTED TO ALL ELECTRICAL ROOM DOORS.
5. REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.

FIRE PUMP AND JOCKEY SHOULD HAVE A SEPARATE ELECTRICAL SERVICE SUPPLY, COMING FROM MERALCO AND ALTERNATE SOURCE SUCH AS ENGINE DRIVEN GEN. AS PER PHILIPPINE ELECTRICAL CODE (PEC) PROVISION



POWER SINGLE LINE RISER DIAGRAM

SCALE : NOT TO SCALE

CADD BY :	PROFESSIONAL ELECTRICAL ENGR. :		REC. APPROVAL:	APPROVED BY:	PROJECT TITLE/ LOCATION:	IMPLEMENTING AGENCY	SHT NO:
E. N. RODEROS JR.	R. P. PEÑA						
END USER:	ENDORSED BY:						
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