

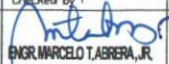
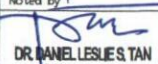

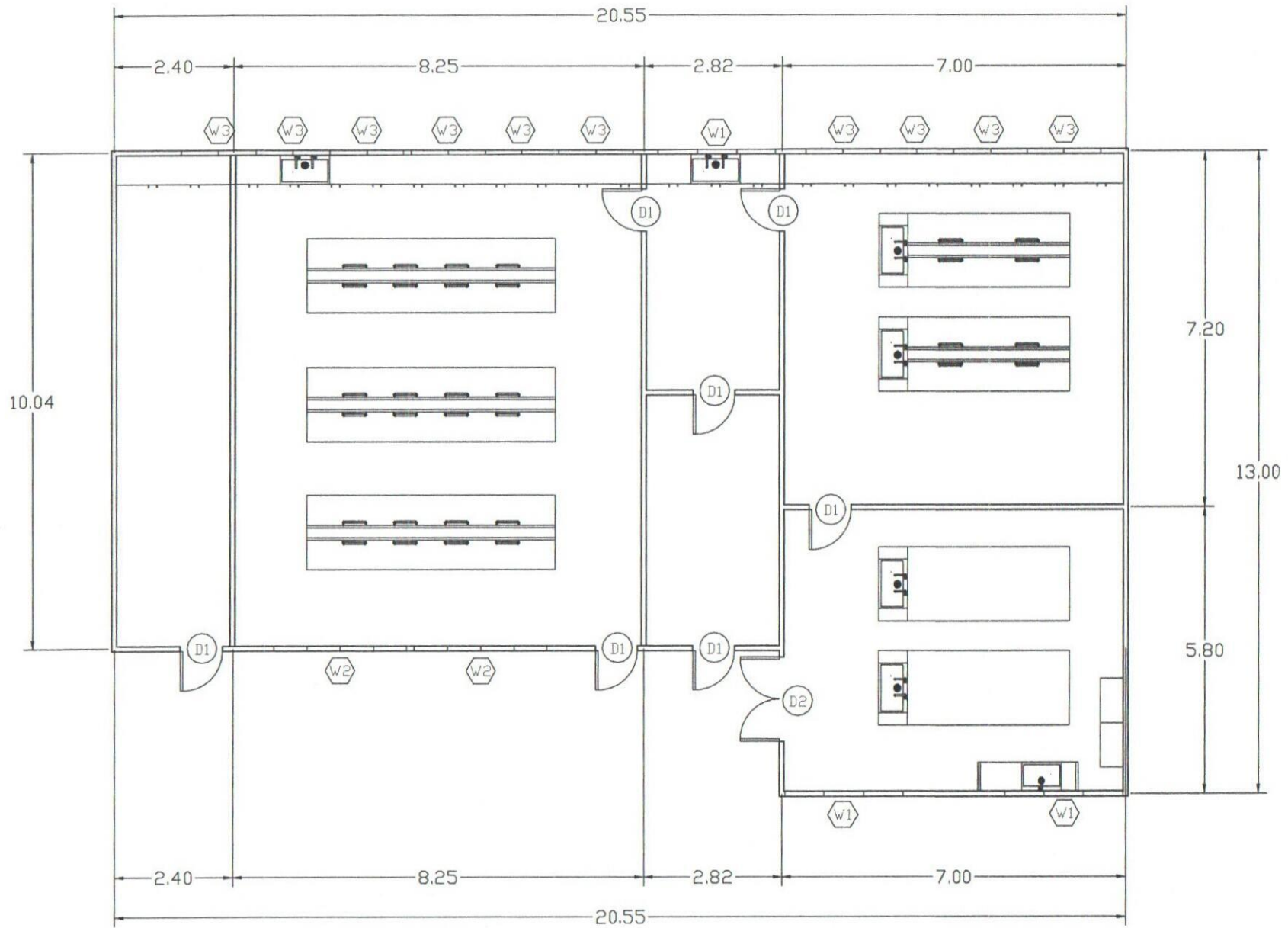


① PERSPECTIVE

Scale: 1:400

	TIN : 768-450-270	DESIGN & SEAL	<small>4:11</small> THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND SHALL BE KEPT IN CONFIDENCE. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY MENTIONED HEREIN. ANY REUSE OR MODIFICATION WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT IS STRICTLY PROHIBITED.	Project Title :	Checked by :	Noted by :	Approved by :	Sheet Content :	Concept by :	A1 02 SHEET NO. 01 09
	PRC : 0183283 PTR : 7282876 Date : 01/03/2023 Place : MERIDA, LEYTE	 ENGR. CHARLES KEVIN G. ALMENE PROJECT ENGINEER		UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS	 ENGR. MARCELO TABRERA, JR. HEAD, IPDM	 DR. DANIEL LESLIE S. TAN VP FOR ADMINISTRATION AND FINANCE	 DR. EDGARDO E. TULIN VSU PRESIDENT	Perspective	Date Started : Date Finished : Place :	



TIN : 768-450-270
 PRC : 0183283
 PTR : 7282876
 Date : 01/03/2023
 Place : MERIDA, LEYTE

DESIGN & SEAL

Almieri
ENGR. CHARLES KEVIN G. ALMIERI
 PROJECT ENGINEER

REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 REG. NO. 10228
 REG. DATE 10/10/1994
 REG. PLACE MERIDA, LEYTE
 REG. AUTHORITY BOARD OF PROFESSIONAL ENGINEERS
 PHILIPPINES

Project Title :
UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS
 Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Checked by :
Marcelo Labrera, Jr.
ENGR. MARCELO LABRERA, JR.
 HEAD, IPDMH

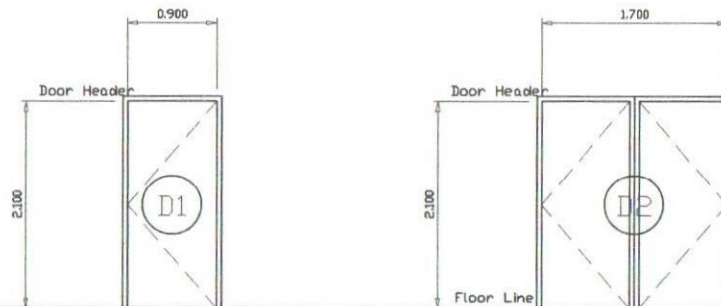
Noted by :
Daniel Lesue & Tan
DR. DANIEL LESUE & TAN
 VP FOR ADMINISTRATION AND FINANCE

Approved by :
Edgardo E. Tulin
DR. EDGARDO E. TULIN
 VSU PRESIDENT

Sheet Content :
 Floor Plan

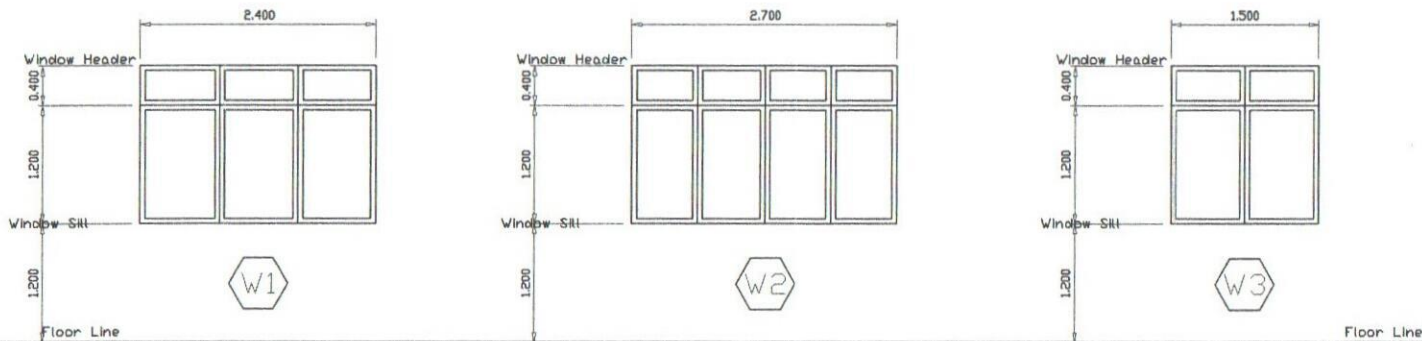
Concept by :
 AutoCAD by :
 Date Started :
 Date Finished :
 Place :

A1 02
 SHEET NO.
 01 09



SCHEDULE OF DOORS SCALE: 1 : 60M

No. OF WINDOW	DESIGNATION	HEIGHT	WIDTH	TRANSOM DEPTH	No. OF SETS	REMARKS
D1	1PANEL DOOR	2100 mm	1700 mm	400 mm	1	Use Hollow Core Flush Type Door on 2"x6' Gujo Door Jamb w/ Fixed Clear Glass Transom
D2	-DD-	-DD-	900 mm	-DD-	7	-DD-



SCHEDULE OF WINDOWS SCALE: 1 : 60M

No. OF WINDOW	DESIGNATION	HEIGHT	WIDTH	SILL HEIGHT	No. OF SETS	TRANSOM DEPTH	REMARKS
W1	SLIDING WINDOW	1200 mm	2400 mm	1200 mm	3	400 mm	Use Sliding Type Windows on Standard Aluminum Casing White Frame
W2	-DD-	-DD-	2700 mm	-DD-	2	-DD-	-DD-
W3	-DD-	-DD-	1500 mm	-DD-	10	-DD-	-DD-



TIN : 768-450-270
 PRC : 0183283
 PTR : 7292876
 Date : 01/03/2023
 Place : MERIDA, LEYTE

DESIGN & SEAL

ENGR. CHARLES KEVIN G. ALMENE
 PROJECT ENGINEER

PROJECT TITLE :

UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS
 Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Checked by :

ENGR. MARCELO T. CABRERA, JR.
 HEAD, IPDMM

Noted by :

Dr. EDGARDO E. TULIN
 VSU PRESIDENT

Approved by :

Dr. EDGARDO E. TULIN
 VSU PRESIDENT

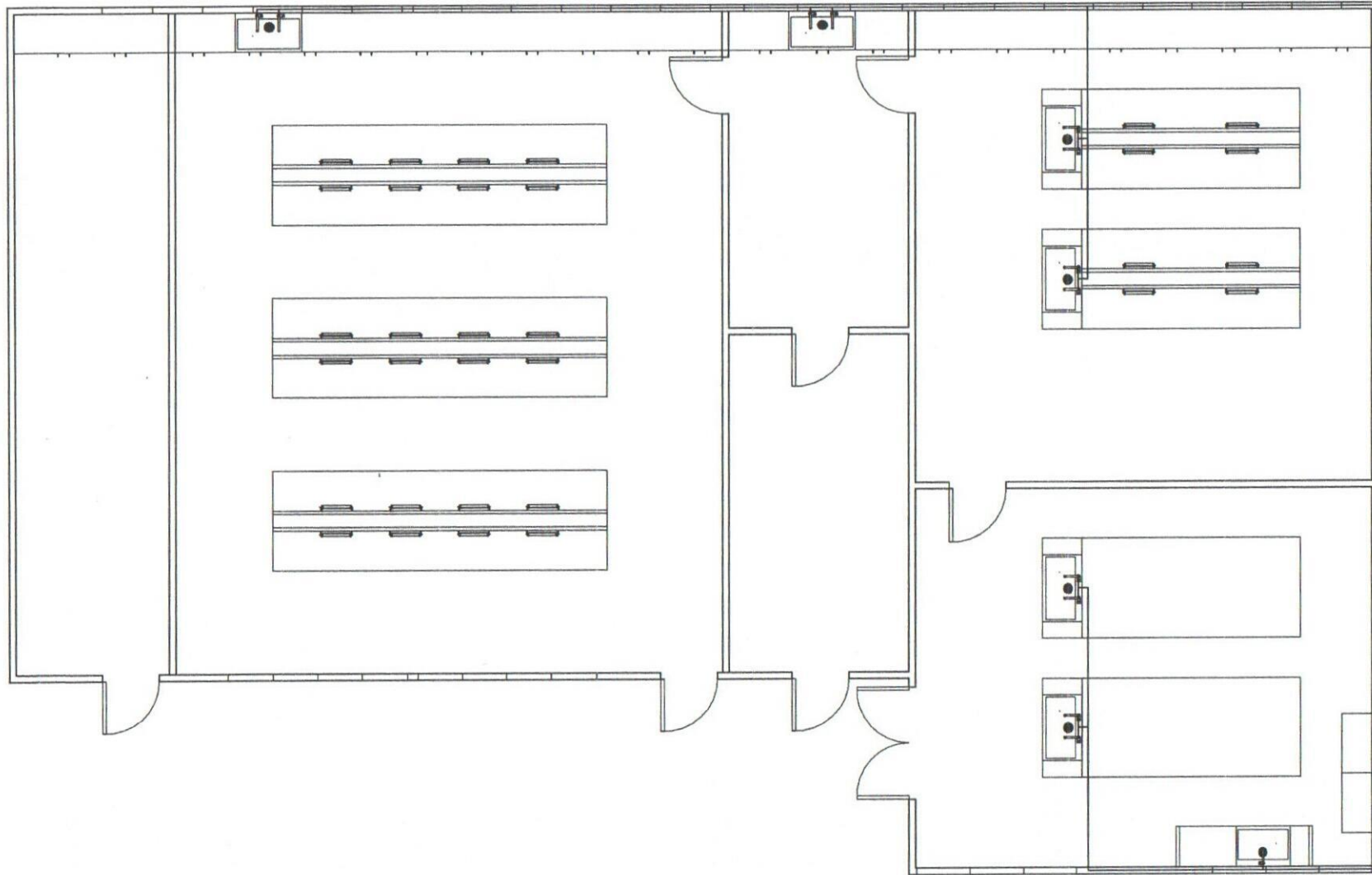
Sheet Content :
 Schedule of Doors and Windows

Concept by :
 AutoCAD by :
 Date Started :
 Date Finished :
 Place :

A2.02
 SHEET NO.
 02.09

LEGEND :

- KC Kitchen Sink
- Water Supply Line



TIN : 408-793-887 DESIGN & SEAL
 PRC : 0010946
 PTR : 6820276
 Date : 03/04/2022
 Place : Baybay City

Marcelo T. Abrebra, Jr.
ENGR. MARCELO T. ABREBRA, JR.
 MASTER PLUMBER

Project Title :
 UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS

Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Checked by :
Marcelo T. Abrebra, Jr.
ENGR. MARCELO T. ABREBRA, JR.
 HEAD, IPDMH

Noted by :
Daniel Leslie S. Tan
DR. DANIEL LESLIE S. TAN
 VP FOR ADMINISTRATION AND FINANCE

Approved by :
Edgardo E. Tulin
DR. EDGARDO E. TULIN
 VSU PRESIDENT

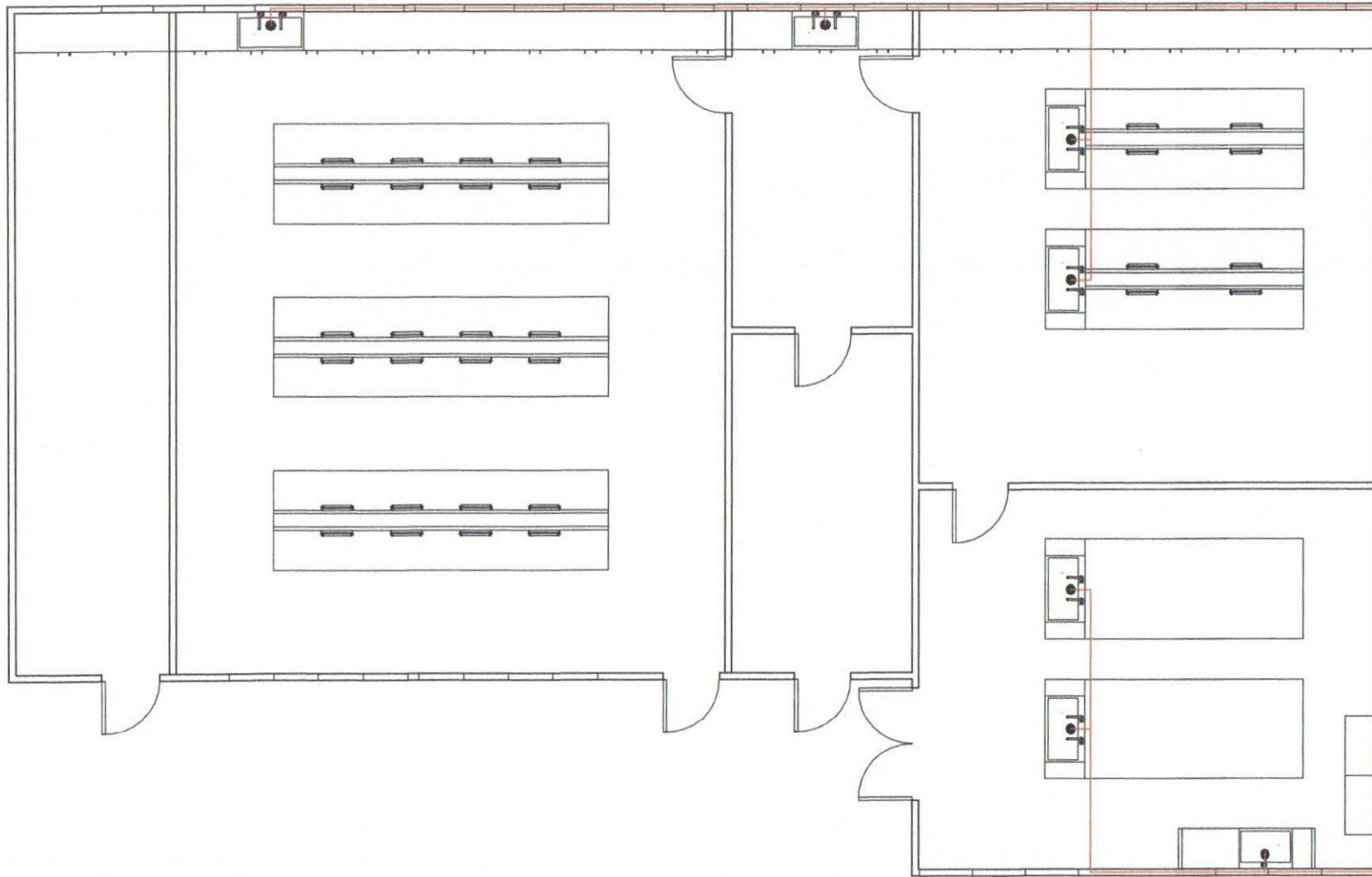
Sheet Content :
 Water Supply Plan

Concept by :
 AutoCAD by :
 Date Started :
 Date Finished :
 Place :

P1 02
 SHEET NO.
 03 09

LEGEND :

- KC Kitchen Sink
- Sewer Line



TIN : 408-793-887
 PRC : 000946
 PTR : 6820276
 Date : 03/04/2022
 Place : Baybay City

DESIGN & SEAL

Marcelo T. Cabrera, Jr.
 ENGR. MARCELO T. ABRERA, JR.
 MASTER PLUMBER

PROJECT TITLE

UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS
 Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

CHECKED BY

Marcelo T. Cabrera, Jr.
 ENGR. MARCELO T. ABRERA, JR.
 HEAD, IPDM

NOTED BY

Daniel Leslie Q. Tan
 DR. DANIEL LESLIE Q. TAN
 VP FOR ADMINISTRATION AND FINANCE

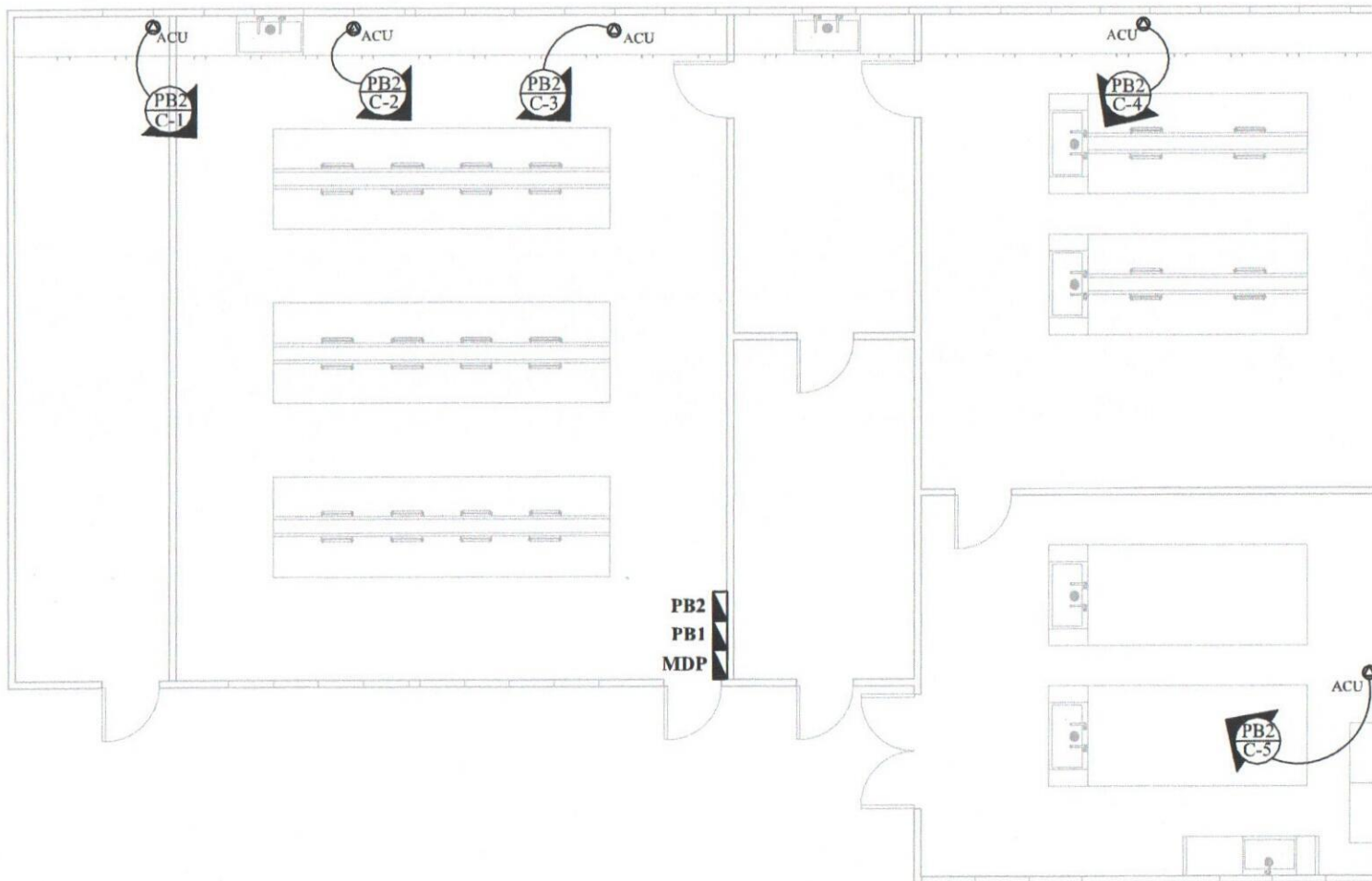
APPROVED BY

Edgardo E. Tulin
 DR. EDGARDO E. TULIN
 VSU PRESIDENT

SHEET CONTENT

Sewer Pipeline Plan
 Concept by :
 AutoCAD by :
 Date Started :
 Date Finished :
 Place :


P2 02
 SHEET NO.
 04 09




AIR CONDITION UNIT LAYOUT
 SCALE 1:10MTRS



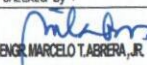
TIN : 382-717-379
 PRC : 0068591
 PTR :
 Date :
 Place :

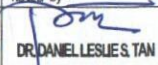
DESIGN & SEAL

ENGR. ENGE SAUMLAGA
 ELECTRICAL ENGINEER


P.D.

 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL MECHANICAL CODE (NMC).
 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL MECHANICAL CODE (NMC).
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Project Title :
UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS
 Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Checked by :

ENGR. MARCELO TABRERA, JR.
 HEAD, IPDMM

Noted by :

DR. DANIELLESUE S. TAN
 VP FOR ADMINISTRATION AND FINANCE

Approved by :

DR. EDGARDO E. TULIN
 VSU PRESIDENT

Sheet Content :
AIR CONDITION UNIT LAYOUT

Concept by :
 AutoCAD by :
 Date Started :
 Date Finished :
 Place :

E1 05
 SHEET NO.
 05 09

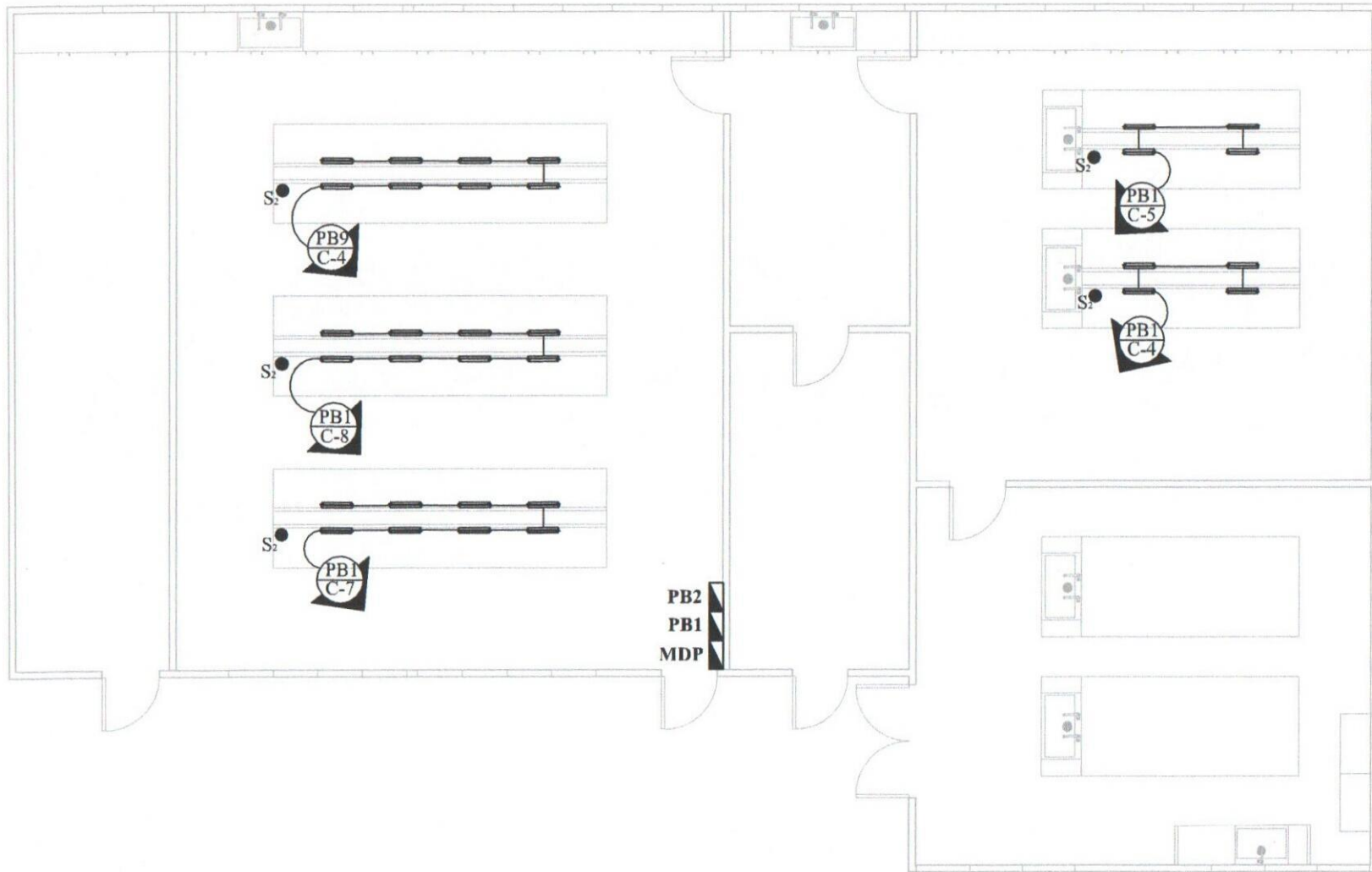


TABLE LIGHTING OUTLET LAYOUT
SCALE 1:10MTRS



TIN : 382-717-379
PRC : 0068591
PTR :
Date :
Place :

DESIGN & SEAL

ENGR. ERCE SAULGA
ELECTRICAL ENGINEER

Project Title :

UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS
Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Checked by :
ENGR. MARCELO T. ABRERA, JR.
HEAD, IPDMM

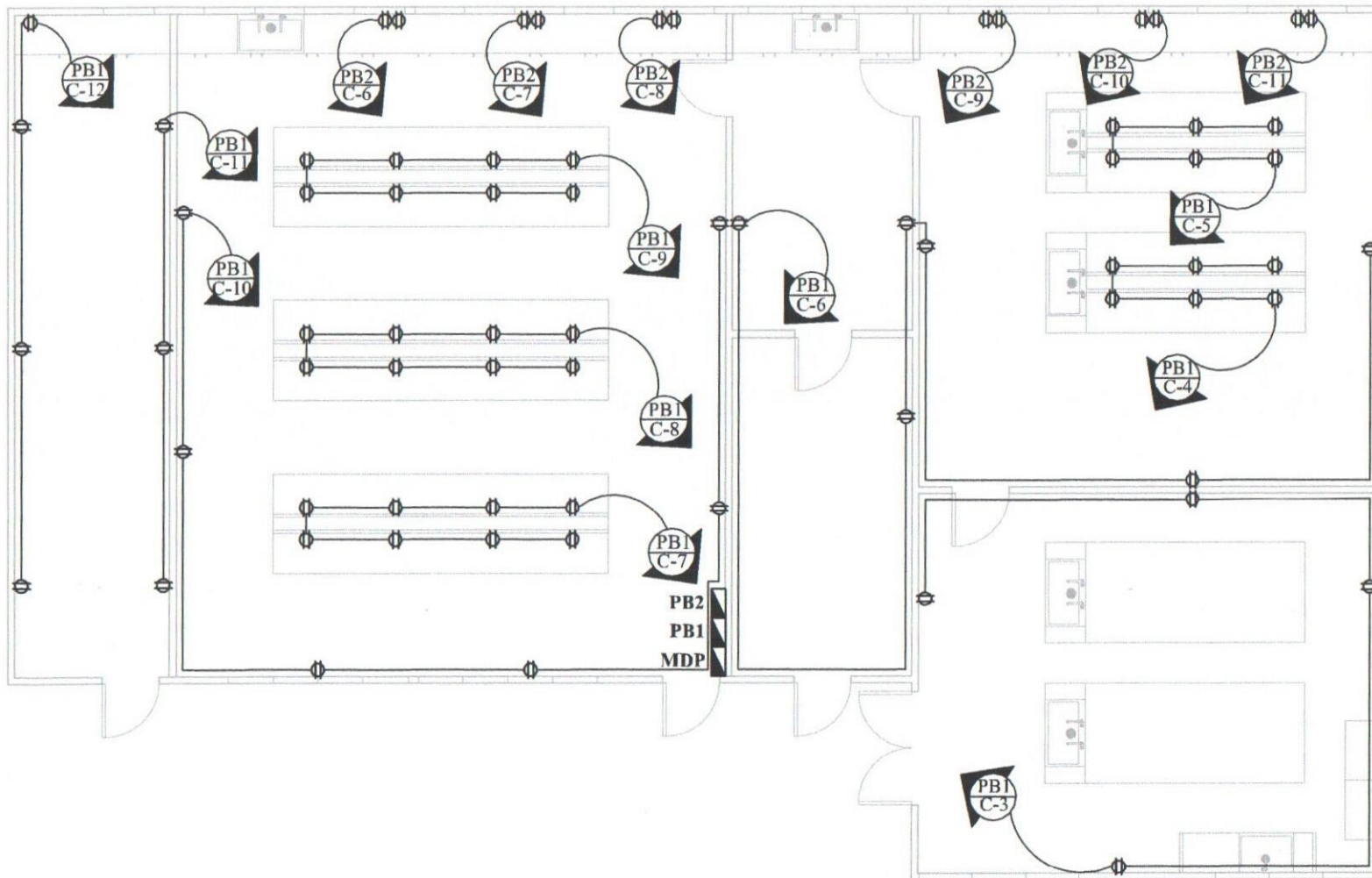
Noted by :
DR. DANIEL LESLIE S. TAN
VP FOR ADMINISTRATION AND FINANCE


Approved by :
DR. EDGARDO E. TULIN
VSU PRESIDENT



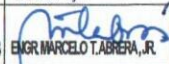

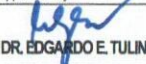
Sheet Content :
TABLE LIGHTING
OUTLET LAYOUT

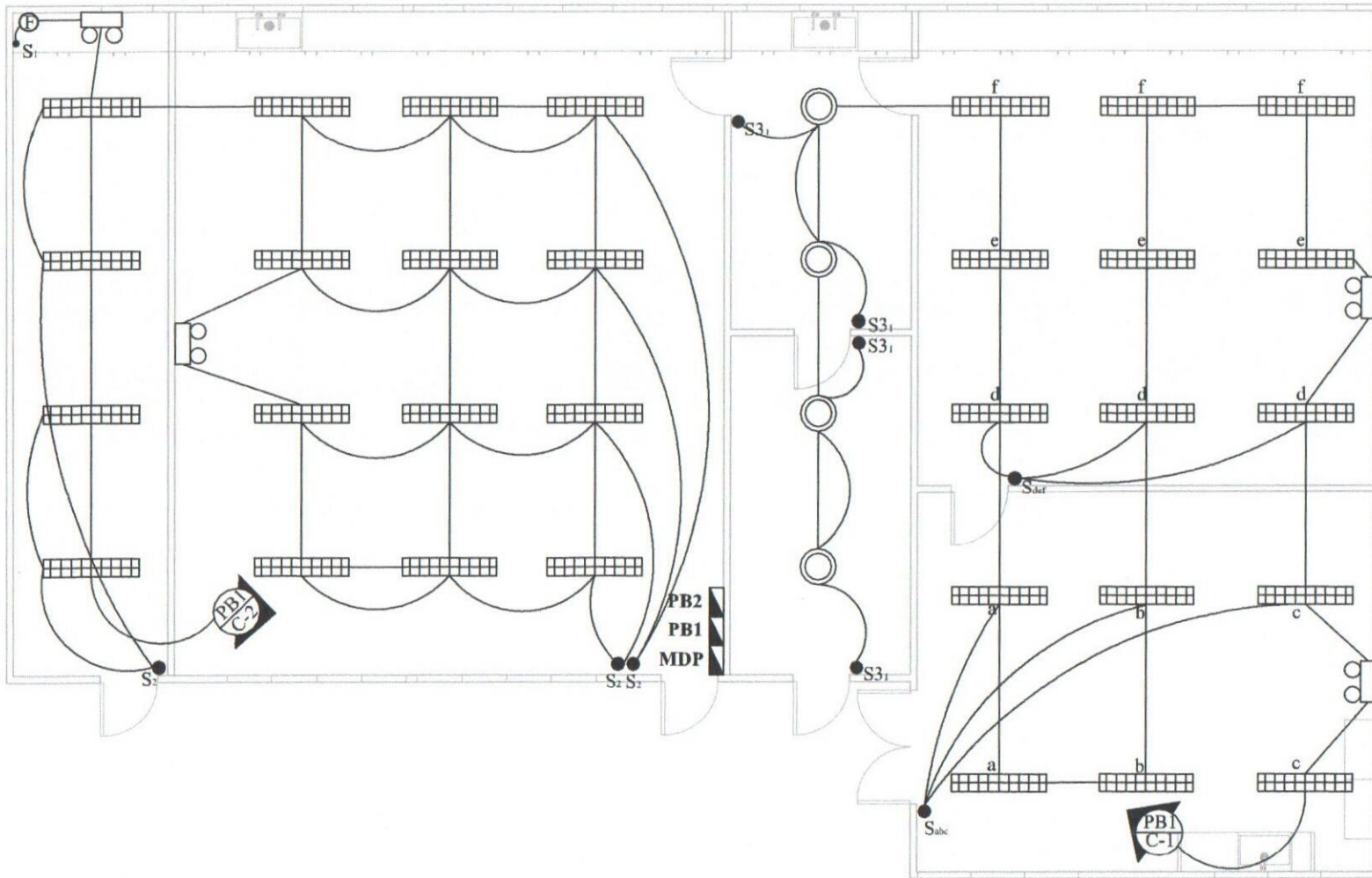
Concept by :
AutoCAD by :
Date Started :
Date Finished :
Place :

E2 05
SHEET NO.
06 09




CONVENIENCE OUTLET LAYOUT
 SCALE 1:10MTRS

	TIN : 382-717-379	DESIGN & SEAL:	<small> 1.00 UPON COMPLETION OF THIS PROJECT, THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE FACILITY. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE FACILITY. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE FACILITY. </small>	Project Title :	Checked by :	Noted by :	Approved by :	Sheet Content :	Concept by :	E3 05 SHEET NO. 07 09
	PRC : 0068591	 ENGR. ERIC E. SACULGA <small>REGISTERED ENGINEER</small>		UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCOPS	 ENGR. MARCELO T. ABREÑA, JR.	 DR. DANIEL LESLIE S. TAN	 DR. EDGARDO E. TULIN	CONVENIENCE OUTLET LAYOUT	AutoCAD by :	
	Date :			Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521	HEAD, IPDMM	VP FOR ADMINISTRATION AND FINANCE	VSU PRESIDENT	Date Started :	Place :	
	Place :							Date Finished :		



LIGHTING OUTLET LAYOUT
 SCALE 1:10MTRS

	TIN : 382-717-379	DESIGN & SEAL :	I.P. M. MARCELO T. TABRERA, JR. ENGR. MARCELO T. TABRERA, JR. DR. DANIEL LESLIE S. TAN DR. EDGARDO E. TULIN VP FOR ADMINISTRATION AND FINANCE VSU PRESIDENT	Project Title :	Checked by :	Noted by :	Approved by :	Sheet Content :	Concept by :	E405 SHEET NO. 0809
	PRC : 0068591			UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCOPS	ENGR. MARCELO T. TABRERA, JR.	DR. DANIEL LESLIE S. TAN	DR. EDGARDO E. TULIN	LIGHTING OUTLET LAYOUT	AutoCAD by :	
	PTR :	ENGR. ENGE SAJULGA		Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521	HEAD, IPDMH	VP FOR ADMINISTRATION AND FINANCE	VSU PRESIDENT	Date Started :	Date Finished :	

SCHEDULE OF LOADS

PB1

Ckt. No	LOAD DESCRIPTION	NO. OF OUTLETS		VOLT-AMPERE TOTAL (VA)	VOLTAGE (V)	PHASE LOAD			3Ø	PROTECTION-CB		CONDUCTORS AND CONDUITS
		LD	CD			AB	BC	CA		AT	AF	
1	LIGHTING OUTLET	21		378	230	1.643478				15	50	2-2.0mmsq THHN/wire in 25mm dia. PVC pipe
2	LIGHTING OUTLET	19		342	230	1.489957				15	50	2-2.0mmsq THHN/wire in 25mm dia. PVC pipe
3	CONVENIENCE OUTLET	4		720	230			8.130435		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
4	CONVENIENCE OUTLET	6		1080	230	4.695652				20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
5	CONVENIENCE OUTLET	6		1080	230			4.695652		20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
6	CONVENIENCE OUTLET	6		1080	230			4.695652		20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
7	CONVENIENCE OUTLET	8		1440	230	6.26087				20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
8	CONVENIENCE OUTLET	8		1440	230			6.26087		20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
9	CONVENIENCE OUTLET	8		1440	230			6.26087		20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
10	CONVENIENCE OUTLET	6		1080	230	4.695652				20	50	2-3.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
11	CONVENIENCE OUTLET	3		540	230			2.347826		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
12	CONVENIENCE OUTLET	4		720	230			3.130435		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
TOTAL				11340		17.2957	14.7913	17.2129				

LINE CURRENT COMPUTATION:
= 17.2957 (0.8) (1.732) + 6.23(1.25) A
= 31.790 A

USE: 3-14mmsq THHN/THW + 8.0mmsq TW(G) copper wire in 32mm diameter PVP pipe
SERVICE PROTECTION:
60AT/60AF, 3P 15KAIC @ 240 V, MCCB

FEDDER SIZE: ALLOWING 2% VOLTAGE DROP FROM TRANSFORMER TO LP

PB2

Ckt. No	LOAD DESCRIPTION	NO. OF OUTLETS		VOLT-AMPERE TOTAL (VA)	VOLTAGE (V)	PHASE LOAD			3Ø	PROTECTION-CB		CONDUCTORS AND CONDUITS
		LD	CD			AB	BC	CA		AT	AF	
1	ACU 2HP	1		2760	230		12			30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
2	ACU 2HP	1		2760	230		12			30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
3	ACU 2HP	1		2760	230			12		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
4	ACU 2HP	1		2760	230		12			30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
5	ACU 2HP	1		2760	230			12		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
6	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
7	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
8	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
9	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
10	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
11	SPECIAL PURPOSE OUTLET	2		2500	230			10.86957		30	50	2-5.5mmsq THHN+ 1-3.5mmsq TW wire in 25mm dia. PVC pipe
TOTAL				28800		45.7391	45.7391	59.7391				

LINE CURRENT COMPUTATION:
= 45.7391 (0.8) (1.732) + 12(1.25) A
= 78.376 A

USE: 3-22mmsq THHN/THW + 8.0mmsq TW(G) copper wire in 40mm diameter PVP pipe
SERVICE PROTECTION:
80AT/100AF, 3P 15KAIC @ 240 V, MCCB

FEDDER SIZE: ALLOWING 2% VOLTAGE DROP FROM TRANSFORMER TO LP

MDP

No.	DESCRIPTION	BREAKERS	PHASE LOAD			3-PHASE	CONDUCTORS AND CONDUITS
			AB	BC	AC		
1	PB1	60AT/60AF, 3P 15KAIC, MCCB	17.29	14.79	17.22		2-14mmsq THHN+ 1-8.0mmsq TW wire in 32mm dia. PVC pipe
2	PB2	80AT/100AF, 3P 15KAIC, MCCB	45.73	45.73	33.73		2-30mmsq THHN+ 1-8.0mmsq TW wire in 50mm dia. PVC pipe
TOTAL			63.02	60.52	50.95		

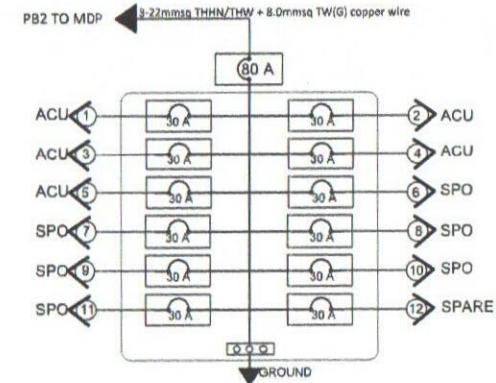
LINE CURRENT COMPUTATION:
= 17.29 (0.78) (1.732) + 45.73(1.25) A
= 78.376 A

USE: 3-30mmsq THHN/THW + 8.0mmsq TW(G) copper wire in 50mm diameter PVP pipe
SERVICE PROTECTION:
100AT/100AF, 3P 15KAIC @ 240 V, MCCB NEMA 3R ENCLOSURE

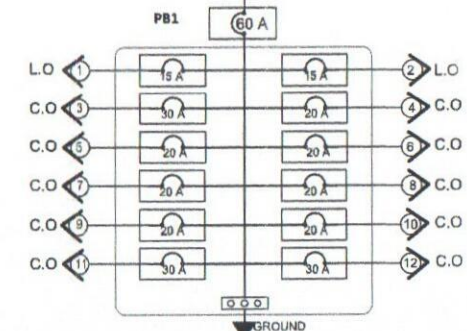
LEGEND

	DOWN LIGHT ROUND TYPE 7 WATTS
	WALL MOUNTED LIGHT FITTING
	CEILING LIGHTS WITH CRYSTAL SURFACE
	TRACKLIGHT 2 LAMPS 12 WATTS
	AIR CONDITION OUTLET
S1	SINGLE SWITCH
S2	2 GANG SWITCH
Sabc	3 GANG SWITCH
	EMERGENCY LIGHT
	DISTRIBUTION BOARD

RISER DIAGRAM



PB1 TO MDP ← 3-14mmsq THHN/THW + 8.0mmsq TW(G) copper wire



TIN : 382-717-379
PRC : 0068591
PTR :
Date :
Place :

DESIGN & SEAL:
ENR ENRCE SAJUGA
ELECTRICAL ENGINEER

Project Title:
UPGRADING OF A MASS PRODUCTION FACILITY FOR BIOLOGICAL CONTROL AGENTS TO SUPPORT DEVELOPMENT OF SUSTAINABLE COCONUT PEST MANAGEMENT FOR COCONUT AND POTENTIAL INTERCROPS

Checked by:
ENR MARCELO T. ABRERA, JR.
HEAD, IPDM

Noted by:
DR. DANIEL LESLIE S. TAN
VP FOR ADMINISTRATION AND FINANCE

Approved by:
DR. EDGARDO E. TULIN
VSU PRESIDENT

Location : VSU Main Campus, Baybay Leyte, Leyte Philippines 6521

Sheet Content :
SCHEDULE OF LOADS

Concept by :
AutoCAD by :
Date Started :
Date Finished :
Place :

E5/05
SHEET NO.
09/09