



VICINITY MAP



LOCATION MAP



SITE DEVELOPMENT PLAN

LEGENDS:

1. SYNOPTIC BUILDING
2. OBSERVER'S QUARTER
3. POWERHOUSE
4. AGROMET BUILDING
5. INSTRUMENT SHELTER
6. VSAT
7. AEROVANE
8. RAIN GAUGE
9. WIND ANEMOMETER
10. SUN-DUR
11. AWS
12. SUN-RAD
13. SOLAR PANEL
14. AWS-ARG
15. ENTRANCE GATE
16. FLAGPOLE
17. SEPTIC TANK

SHEET NO.	TABLE OF CONTENTS
ELECTRICAL	
E-1	GENERAL SPECIFICATIONS REQUIREMENT
E-2	LIGHTING LAYOUT (SYNOPTIC BUILDING)
E-3	POWER LAYOUT (SYNOPTIC BUILDING)
E-4	LIGHTING LAYOUT (OBSERVER'S QUARTER)
E-5	LIGHTING LAYOUT (PERIMETER FENCE & SIGNAGE)
E-6	POWER LAYOUT (OBSERVER'S QUARTER)
E-7	SCHEDULE OF LOADS
E-8	SCHEDULE OF LOADS
E-9	RISER DIAGRAM SINGLE LINE DIAGRAM SERVICE ENTRANCE POST DETAIL
E-10	TRENCHING LAYOUT OF MAIN FEEDER LINE AND AUXILIARY SYSTEM HANDHOLE DETAILS & TRENCHING
E-11	LIGHTNING PROTECTION AND GROUNDING SYSTEM DETAILS
ELECTRONICS & COMMUNICATIONS	
ECE-1	NETWORKS CABLING SYSTEM AND CATV SYSTEM (SYNOPTIC BUILDING)
ECE-2	NETWORKS CABLING SYSTEM AND CATV SYSTEM (OBSERVER'S QUARTER)
ECE-3	CCTV SYSTEM (SYNOPTIC BUILDING)
ECE-4	AUXILIARY SYSTEM RISER DIAGRAM SERVICE ENTRANCE POST DETAIL

SHEET NO.	TABLE OF CONTENTS
ARCHITECTURAL	
A-1	PERSPECTIVE SITE DEVELOPMENT PLAN VICINITY MAP LOCATION MAP (SYNOPTIC BUILDING)
A-2	FLOOR PLAN
A-3	ROOF PLAN
A-4	FRONT ELEVATION REAR ELEVATION RIGHT ELEVATION LEFT ELEVATION
A-5	SECTION THRU X-X SECTION THRU Y-Y DOOR SCHEDULE WINDOW SCHEDULE
A-6	REFLECTED CEILING PLAN (OBSERVER'S QUARTER & POWERHOUSE)
A-7	FLOOR PLAN ROOF PLAN
A-8	FRONT ELEVATION REAR ELEVATION RIGHT ELEVATION LEFT ELEVATION
A-9	SECTION THRU 1-1 SECTION THRU A-A SECTION THRU B-B
A-10	CEILING PLAN DOOR SECTION WINDOW SCHEDULE
A-11	PAGASA ENTRANCE GATE SIGNAGE DETAILS
STRUCTURAL	
S-1	STRUCTURAL NOTES (SYNOPTIC BUILDING)
S-2	FOUNDATION PLAN COLUMN DETAILS
S-3	BEAM FRAMING PLAN BEAM DETAILS
S-4	BEAM SCHEDULE CANOPY DETAILS GRADE BEAM DETAILS WALL FOOTING DETAILS CONCRETE GUTTER DETAILS
S-5	ROOF FRAMING PLAN TRUSS DETAILS
S-6	TRUSS CONNECTION DETAILS
S-7	STAIR DETAILS PATHWALK DETAILS RAMP DETAILS (OBSERVER'S QUARTER & POWERHOUSE)
S-8	FOUNDATION PLAN ROOF BEAM FRAMING
S-9	BEAM & SUSPENDED SLAB SCHEDULE TYPICAL BEAM DETAILS WALL FOOTING DETAILS COLUMN FOOTING DETAIL
S-10	TRUSS DETAILS TRUSS CONNECTION DETAILS
S-11	ROOF FRAMING PLAN TRUSS CONNECTION DETAILS (PERIMETER FENCE)
S-12	PERIMETER FENCE DETAIL WALL FOOTING DETAIL COLUMN FOOTING DETAIL
S-13	FLAGPOLE DETAILS
PLUMBING	
P-1	PLUMBING NOTES SEPTIC TANK DETAILS CONCRETE DITCH DETAILS
P-2	GROUND CLEANOUT DETAILS FLOOR DRAIN DETAILS FLOOR CLEANOUT DETAILS PIPING ARRANGEMENT FOR WATER CLOSET & LAVATORY DETAILS STORM DRAINAGE TO CONCRETE DITCH CONNECTION DETAILS
P-3	SEWER LINE LAYOUT (SYNOPTIC BUILDING) SEWER LINE LAYOUT (OBSERVER'S QUARTER & POWERHOUSE)
P-4	WATER LINE LAYOUT (SYNOPTIC BUILDING) WATER LINE LAYOUT (OBSERVER'S QUARTER & POWERHOUSE)
P-5	DRAINAGE LAYOUT (SYNOPTIC BUILDING) DRAINAGE LAYOUT (OBSERVER'S QUARTER & POWERHOUSE)
P-6	PLUMBING ISOMETRIC LAYOUT

Republic of the Philippines
Department of Public Works &
Highways
OFFICE OF THE BUILDING OFFICIAL

BAYBAY CITY, LEYTE
District/City/Municipality

Land Use and Zoning

Line & Grade

Architectural

Structural

Sanitary

Electrical

Mechanical

Bureau of Fire Protection

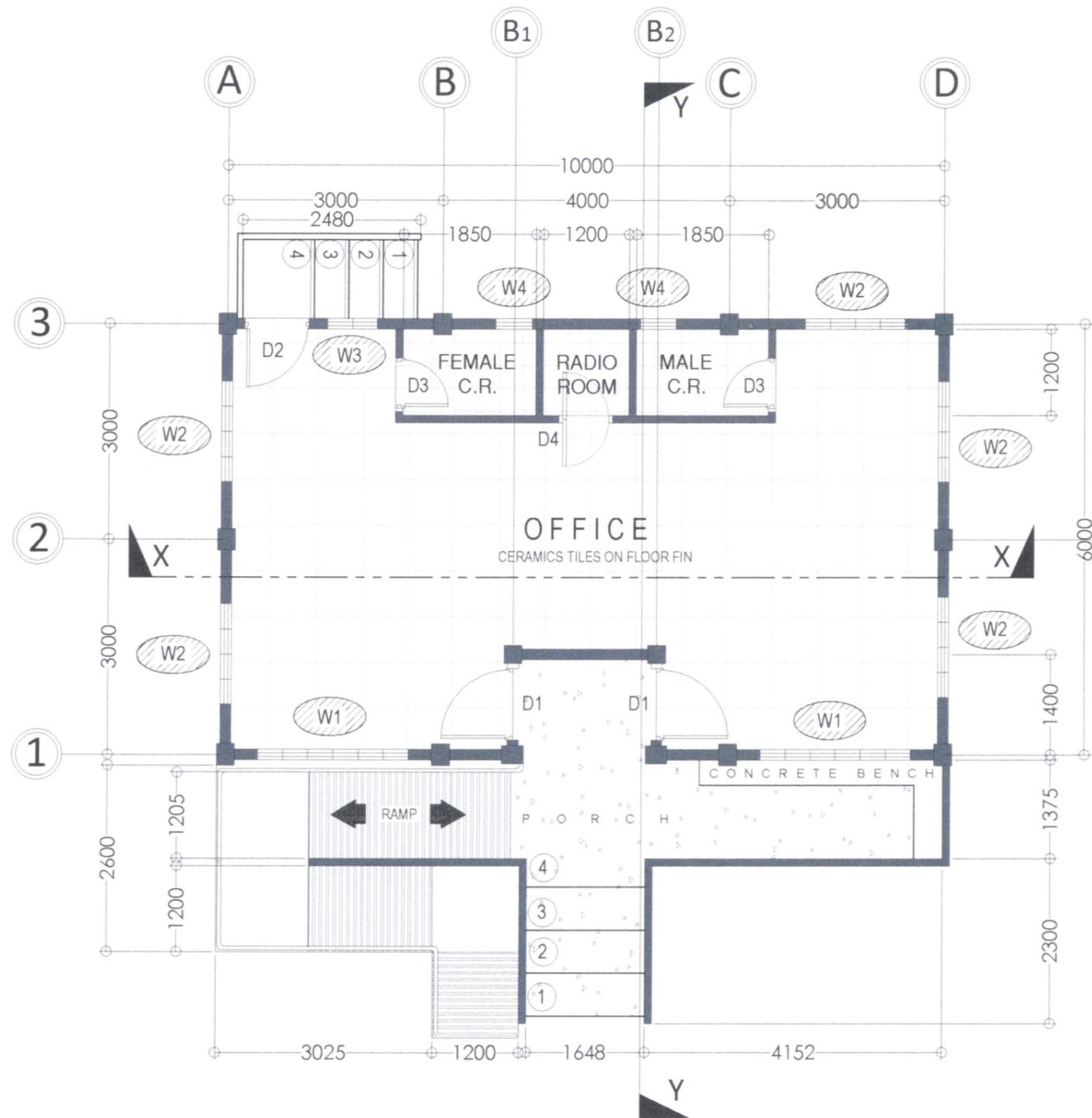


PERSPECTIVE
SYNOPTIC BUILDING

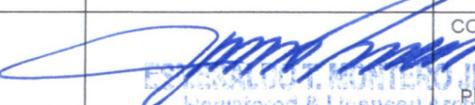


PERSPECTIVE
OBSERVER'S QUARTER

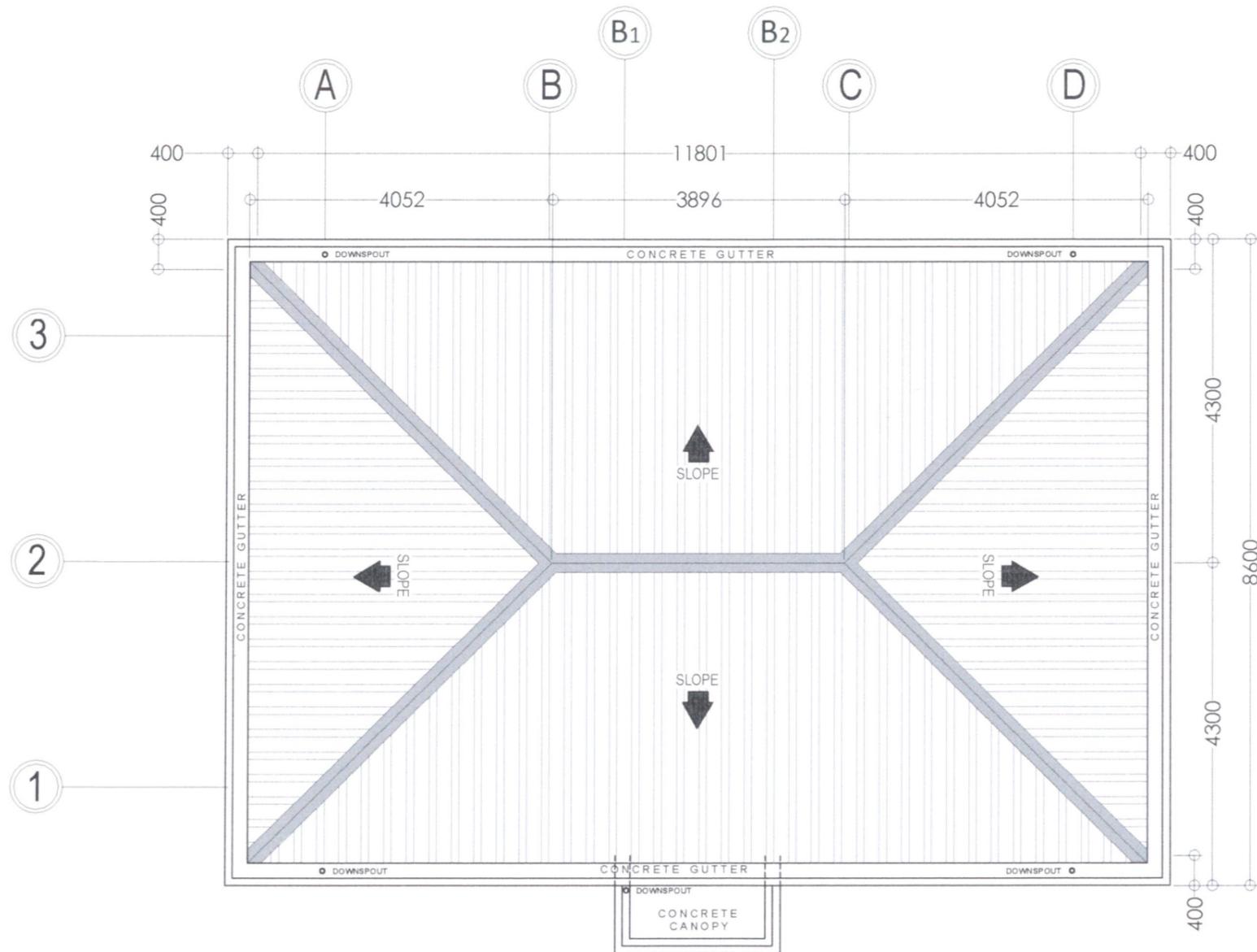
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 [Signature]	 ESTRADO T. MONTERO JR. Registered & Licensed Architect	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ, T. PERIA CHECKED BRIAN BUNGABONG DATE:	[] [] []	A/1 ARCHITECTURAL
	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED				



A 2
1
FLOOR PLAN
 SCALE: 1:75MM

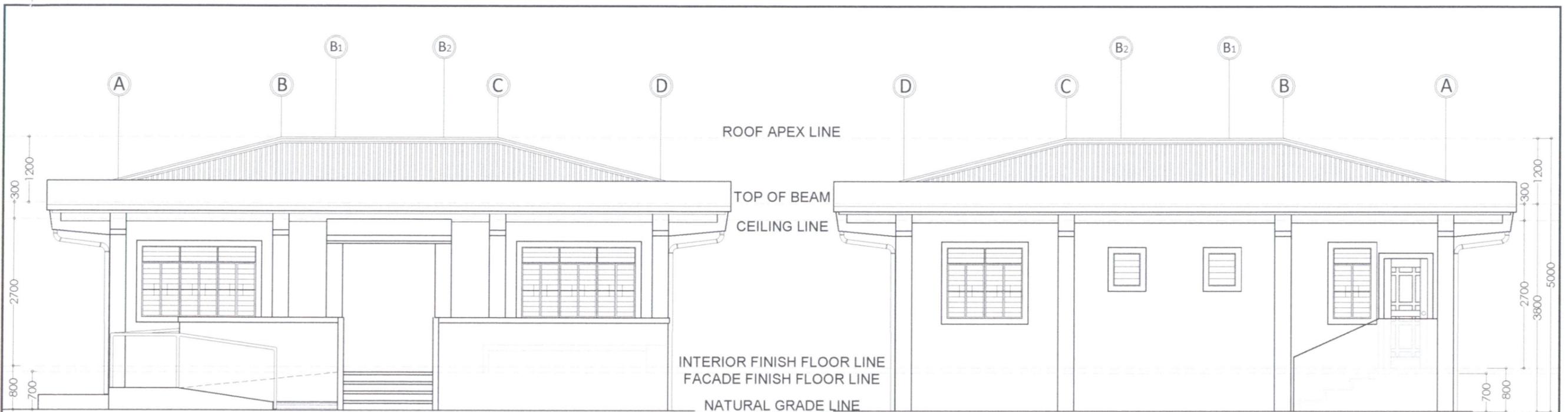
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 R. DELA CRUZ, T. PACIA Registered & Licensed Architect	 BRIAN BUNGABONG Registered & Licensed Architect	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN	R. DELA CRUZ, T. PACIA CHECKED: BRIAN BUNGABONG DATE:	
	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED				ARCHITECTURAL

PRC: 4521
 FTR: 3716478
 Place: Quezon City
 Validity: 12-15-2023
 Date: 01-03-2023
 TIN: 204-411-541



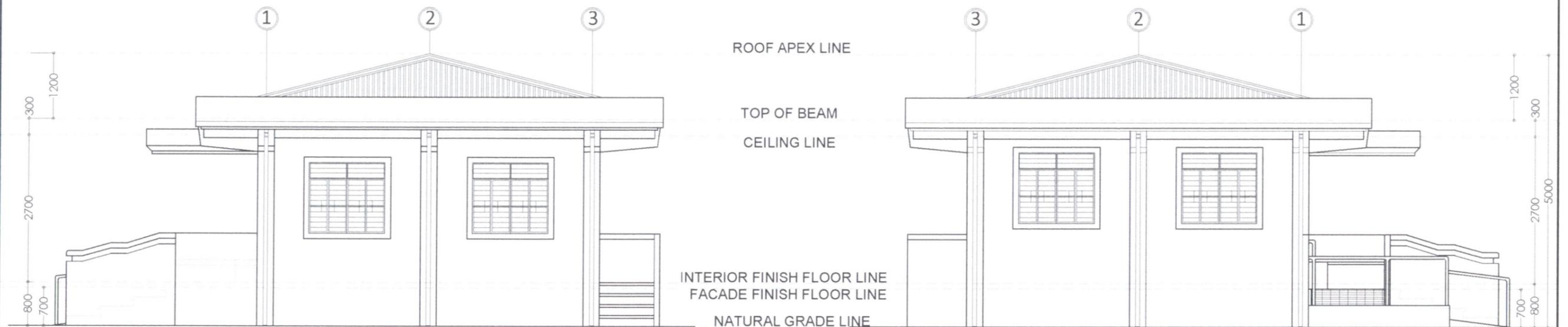
A | 3
1
ROOF PLAN
 SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.	
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 REGISTERED & LICENSED ARCHITECT License No. 45217 PTR No. 3716474 Place: Quezon City Tel: 264-111-641	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE Location: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN	R. DELA CRUZ T. PACIA CHECKED: BRIAN BUNGABONG DATE:	<table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td></tr> </table>		



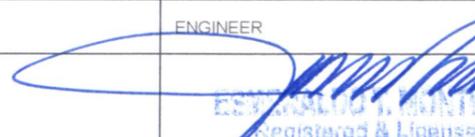
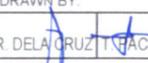
FRONT ELEVATION
SCALE: 1:75MM

REAR ELEVATION
SCALE: 1:75MM

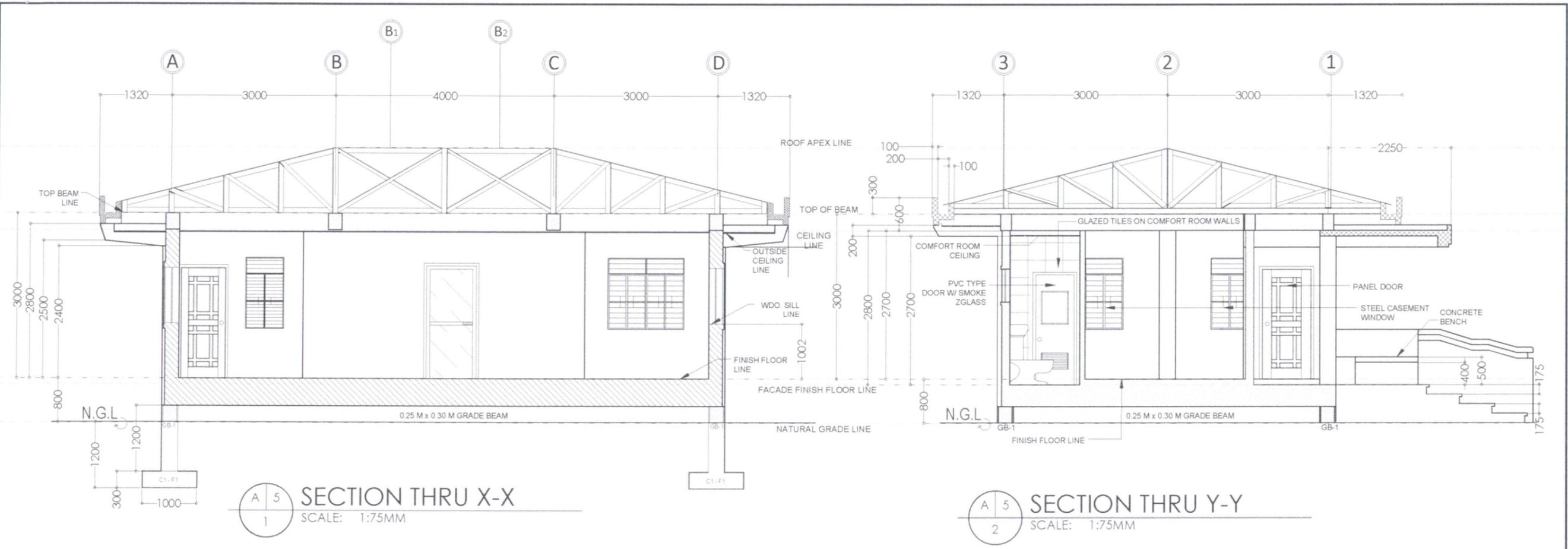


RIGHT ELEVATION
SCALE: 1:75MM

LEFT ELEVATION
SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 ESTEBAN W. MONTERO JR. Registered & Licensed Architect	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	 R. DELA CRUZ, T. GACIA CHECKED  BRIAN BUNGABONG DATE:		A/4
	LICENSE NO.	VALID UNTIL	LICENSE NO.	VALID UNTIL				ARCHITECTURAL
	PTR NO.	DATE ISSUED	PTR NO.	DATE ISSUED				

PRO: 45277 Validity: 10/05/2023
 PTR: 2718479 Date: 01-02-2023
 Place: Quezon City Tel: 264-411-641



SECTION THRU X-X
SCALE: 1:75MM

SECTION THRU Y-Y
SCALE: 1:75MM

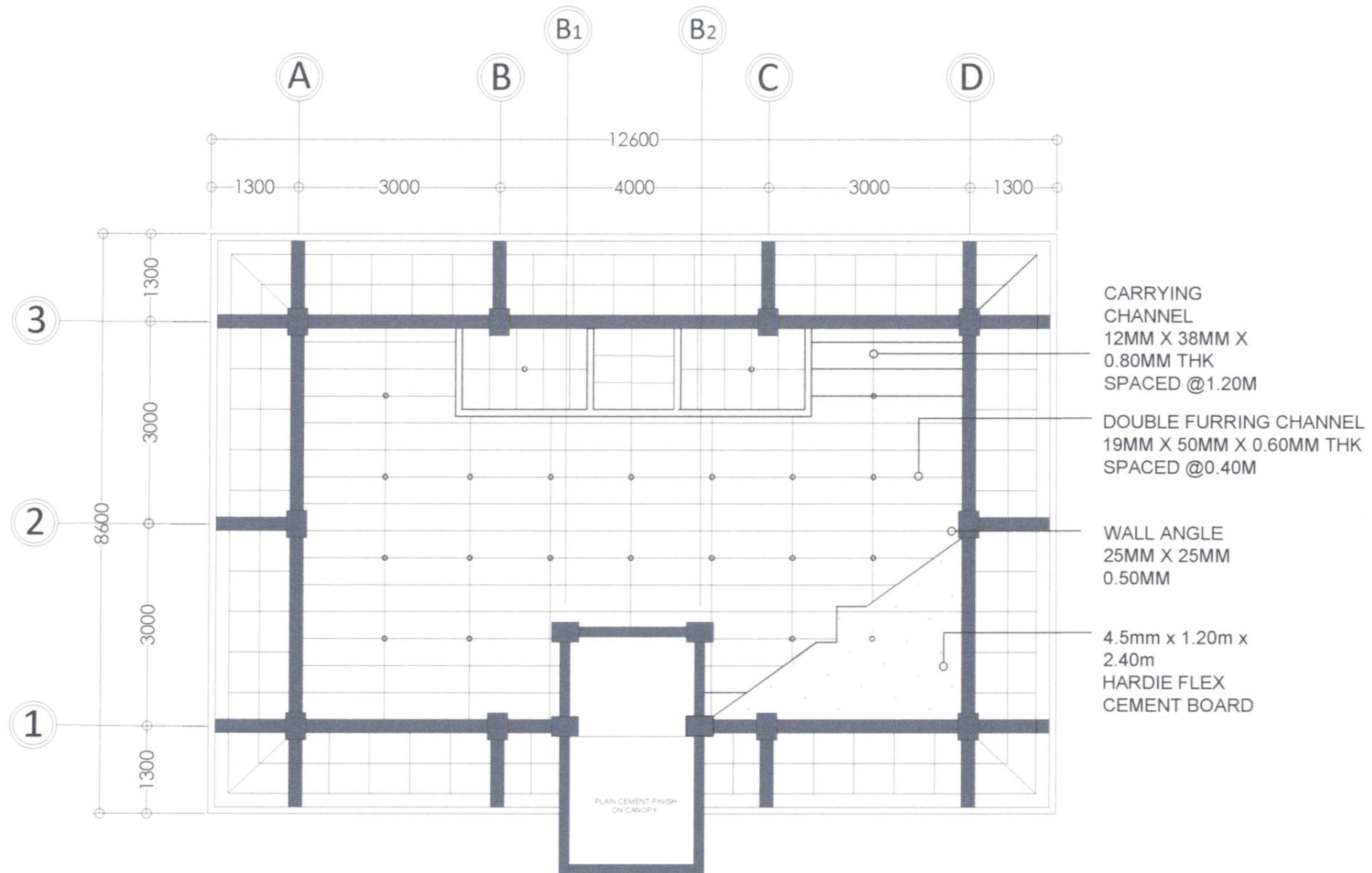
PLAN	CEILING	ELEVATION / DETAILS	FFL
DESCRIPTION	2" x 6" WOOD FRAME SINGLE SWING SOLID CORE WOODEN PANEL DOOR (TANGUILE)	2" x 4" WOOD FRAME SINGLE SWING SOLID CORE WOODEN PANEL DOOR (TANGUILE)	2" X 4" PVC FRAME SOLID SWING PVC FLUSH DOOR
ACCESSORIES	DOOR LOCK SET, STOPPER AND HINGES	DOOR LOCK SET, STOPPER AND HINGES	DOOR LOCK SET, STOPPER AND HINGES
LOCATION	MAIN ENTRANCE (SEE FLOOR PLAN FOR REFERENCE)	REAR ENTRANCE (SEE FLOOR PLAN FOR REFERENCE)	COMFORT ROOM (SEE FLOOR PLAN FOR REFERENCE)
QUANTITY	2-SET	1-SET	1-SET

DOOR SCHEDULE
SCALE: 1:75MM

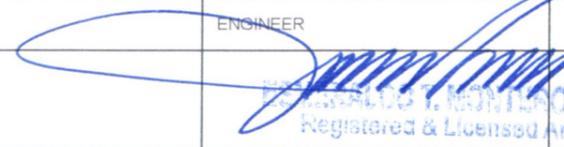
CEILING	ELEVATION / DETAILS	FFL	DESCRIPTION	LOCATION	QUANTITY
			SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK. GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	REFER TO FLOOR PLAN	2-SET
			SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK. GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	REFER TO FLOOR PLAN	5-SET
			SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK. GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	REFER TO FLOOR PLAN	1-SET
			AWNING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK. GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	REFER TO FLOOR PLAN	2-SET

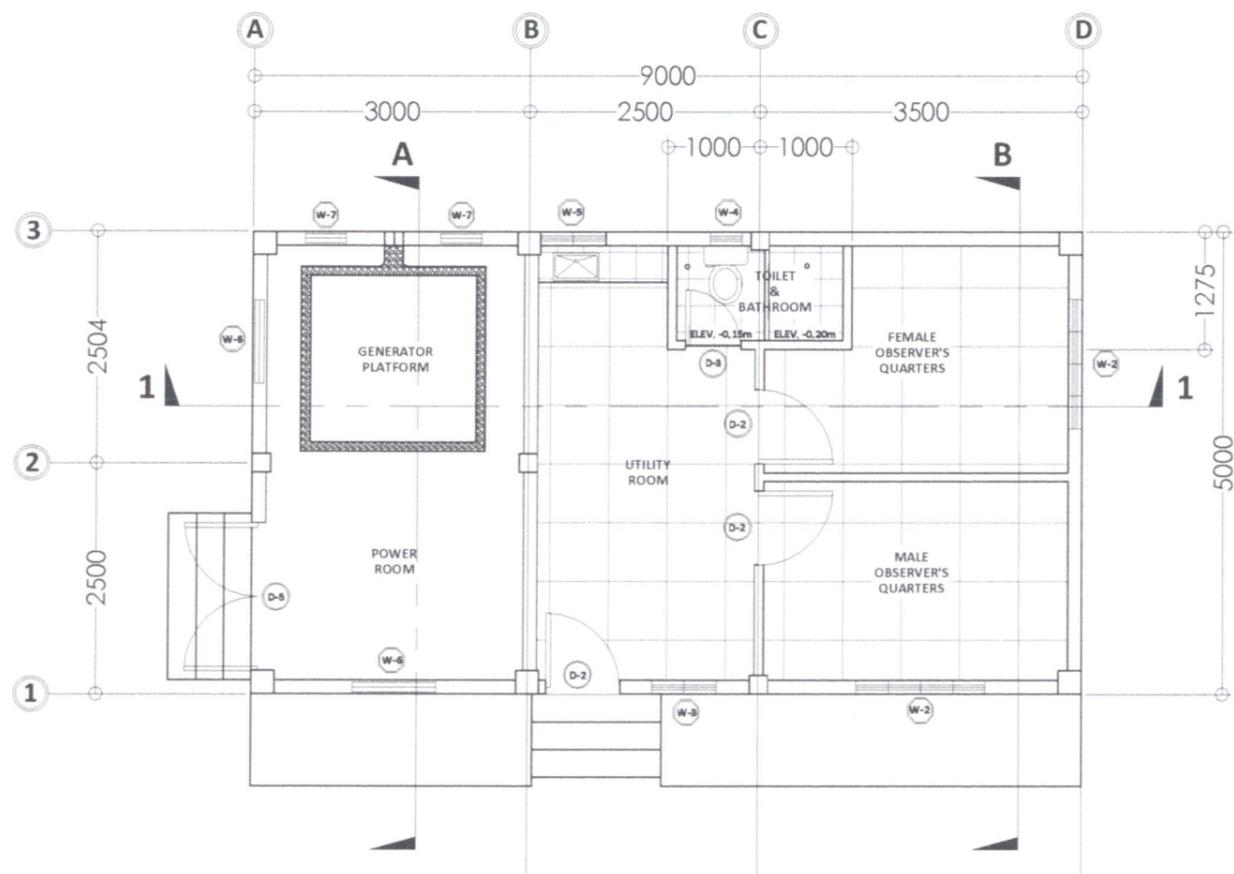
WINDOW SCHEDULE
SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR			CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ T. PACIA CHECKED BRIAN BUNGABONG DATE:		A/5
	LICENSE NO.	VALID UNTIL	LICENSE NO.	VALID UNTIL				ARCHITECTURAL
	PTR NO.	DATE ISSUED	PTR NO.	DATE ISSUED				

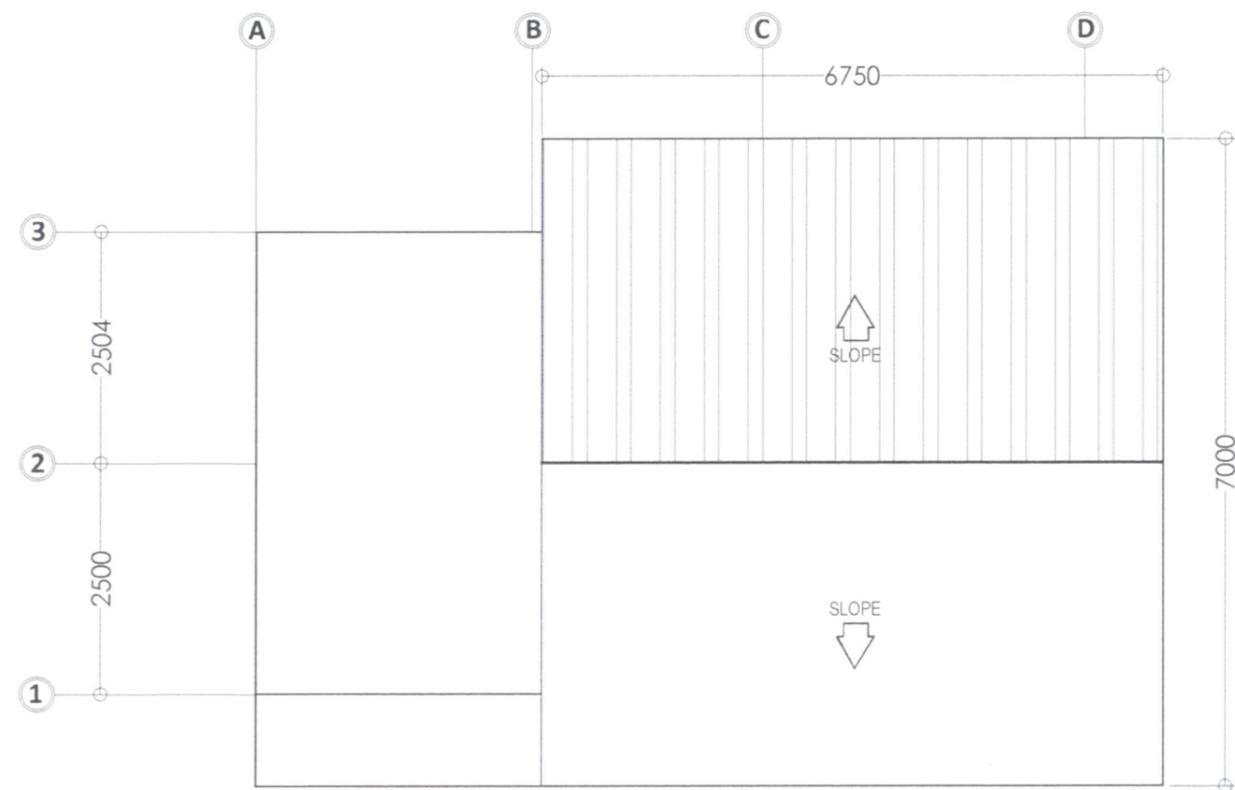


A 6
1
REFLECTED CEILING PLAN
 SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 REGISTERED & LICENSED ARCHITECT PRO: 4527 PTR: 3716191 Place: Quezon City Tel: 264-411-541	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ T. PACIA CHECKED BRIAN BUNGABONG DATE:		A/6
	LICENSE NO. / PTR NO.	VALID UNTIL / DATE ISSUED	LICENSE NO. / PTR NO.	VALID UNTIL / DATE ISSUED	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE			ARCHITECTURAL



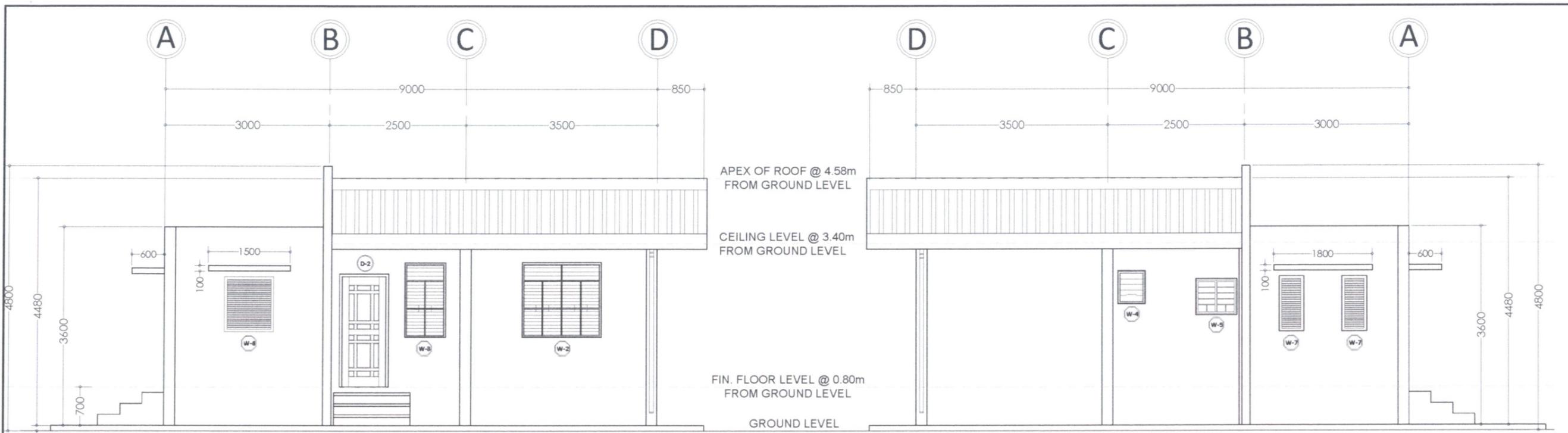
FLOOR PLAN
SCALE: 1:75MM



ROOF PLAN
SCALE: 1:75MM

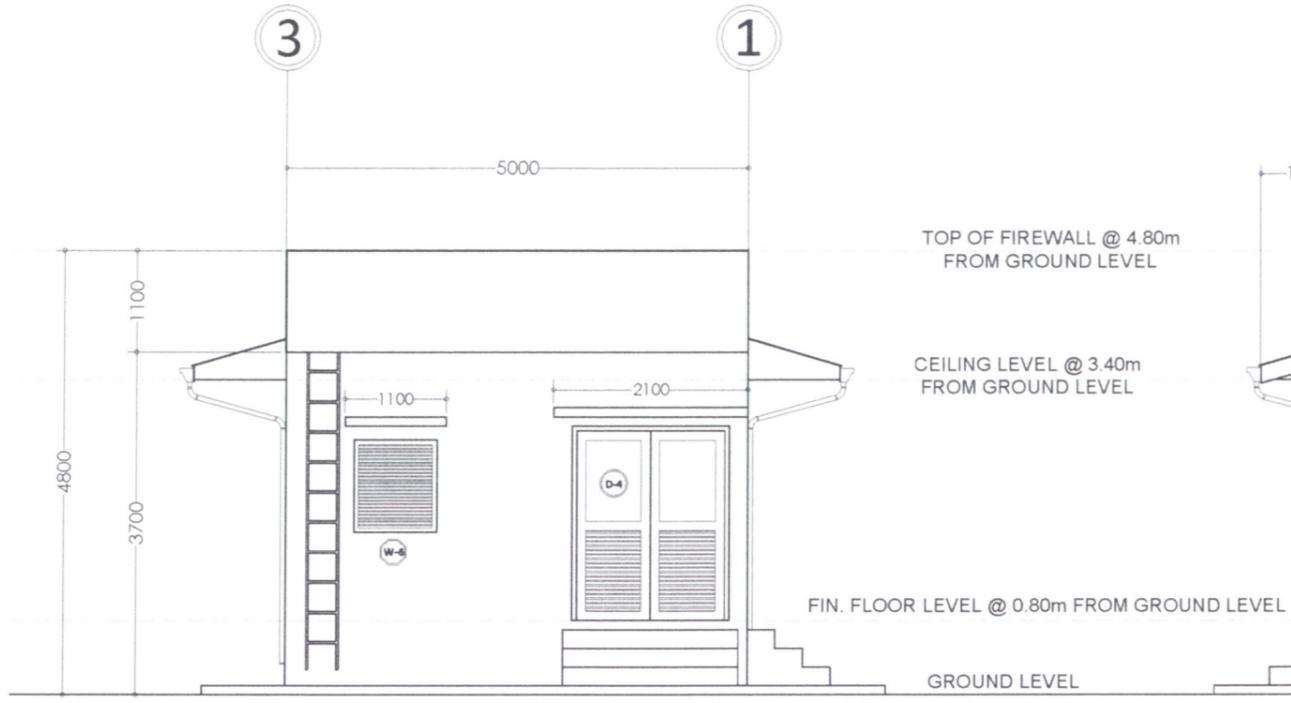
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 R. DELA CRUZ, T. PACIA CHECKER	 BRIAN BUNGABONG DATE:	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN		
	LICENSE NO.	VALID UNTIL	LICENSE NO.	VALID UNTIL				
	PTR NO.	DATE ISSUED	PTR NO.	DATE ISSUED				

Place: Quezon City Tel: 264-411-941

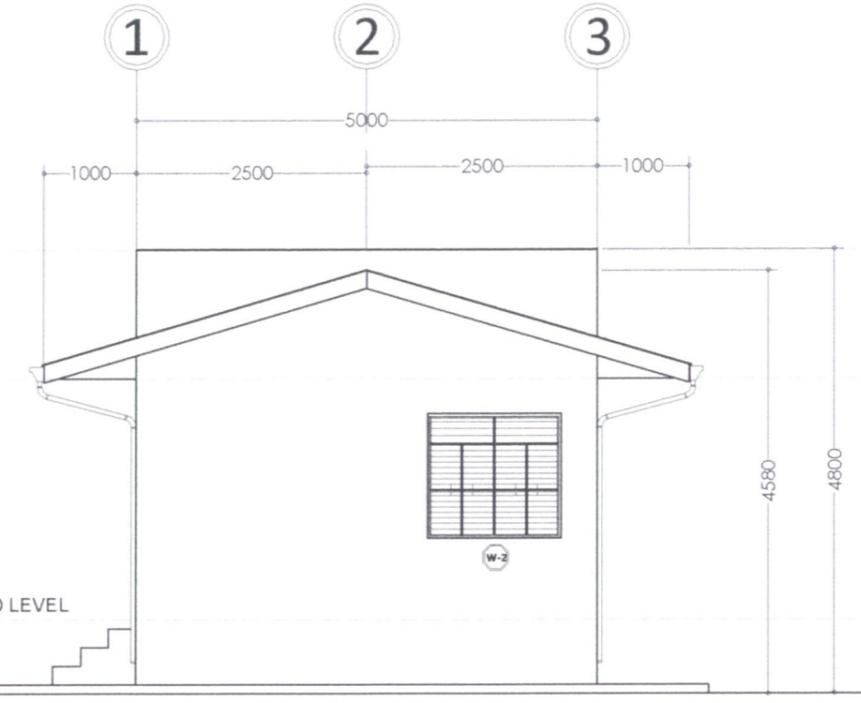


FRONT ELEVATION
SCALE: 1:75MM

REAR ELEVATION
SCALE: 1:75MM



LEFT ELEVATION
SCALE: 1:75MM



RIGHT ELEVATION
SCALE: 1:75MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER
[Signature]

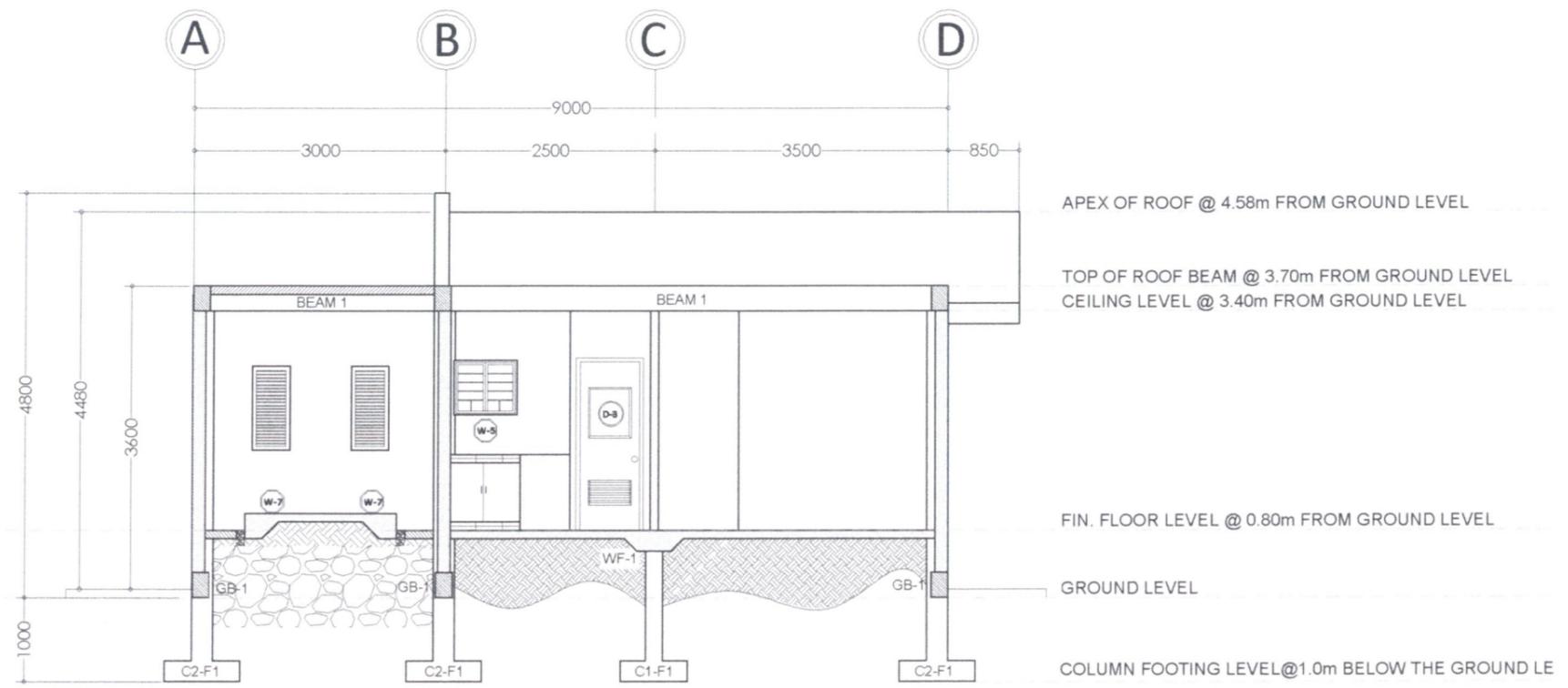
ENGINEER
ENRICO W. MONTERO, JR., R.A.
Registered & Licensed Architect
P.R.C. 45277
PTR NO. 3716478
VALID UNTIL: 12-15-2023
DATE ISSUED: 01-13-2023
Place: Quezon City TEL: 234-411-841

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE
LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE

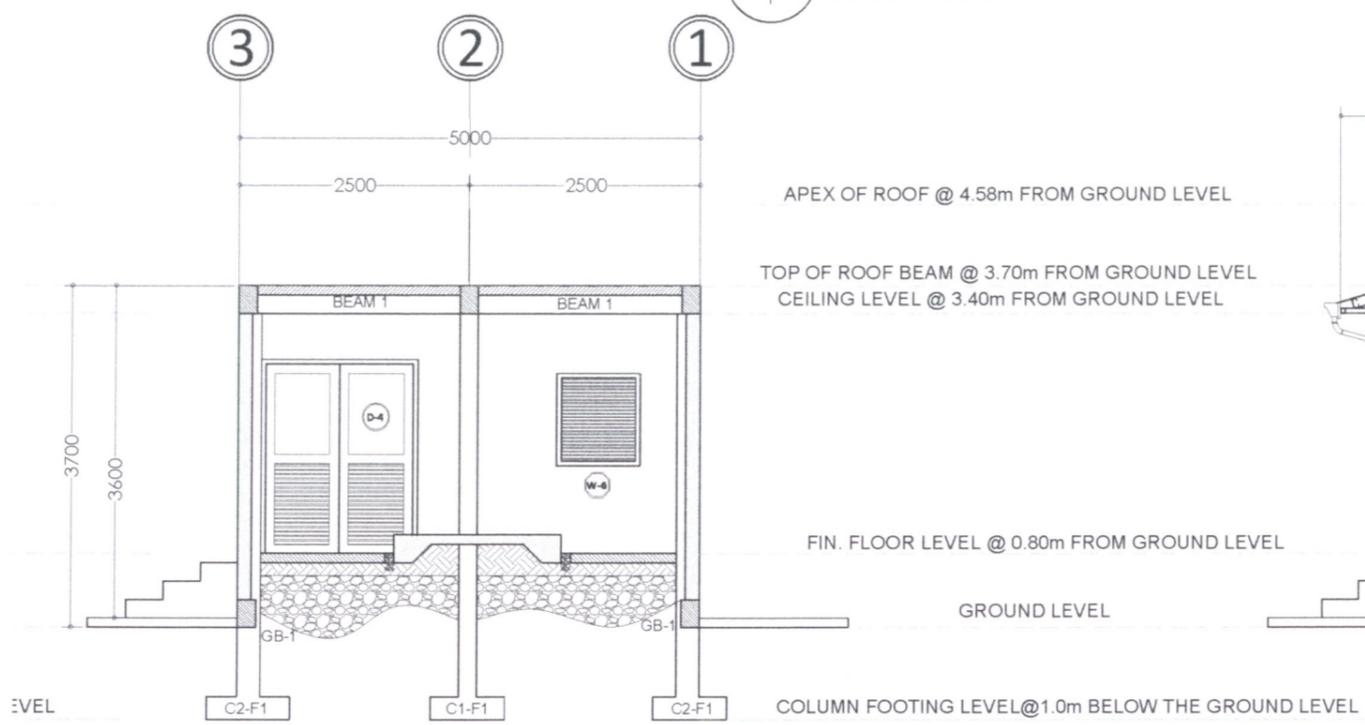
SHEET CONTENT
AS SHOWN

DRAWN BY: *[Signature]*
R. DELA CRUZ T. PACIA
CHECKED: *[Signature]*
BRIAN BUNGABONG
DATE:

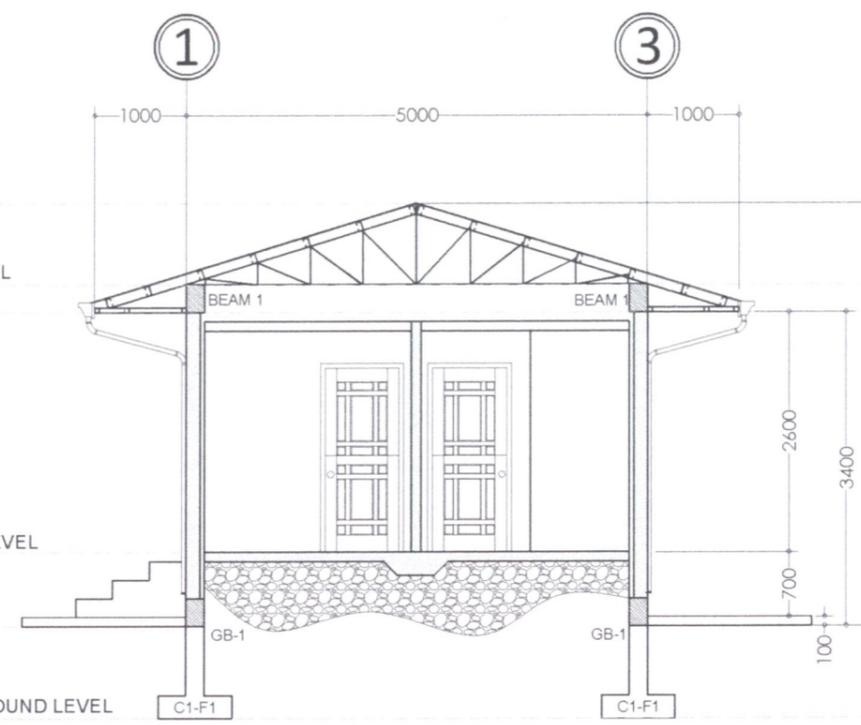
REVISIONS	SHEET NO.
	A/8
	ARCHITECTURAL



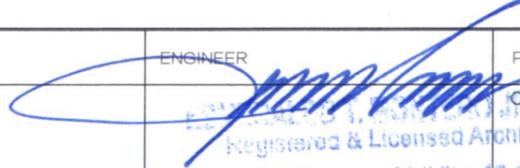
A 3 SECTION THRU 1-1
SCALE: 1:75MM

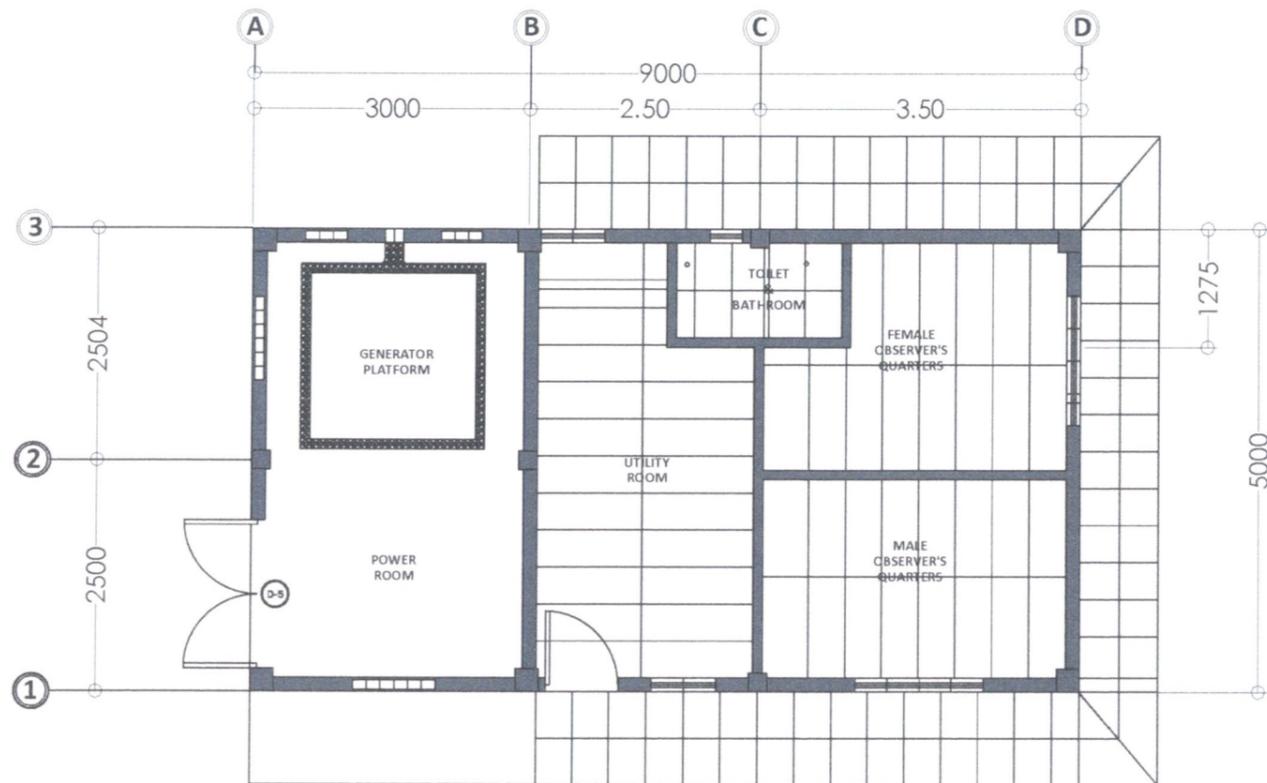


A 3 SECTION THRU A-A
SCALE: 1:75MM



A 3 SECTION THRU B-B
SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 Registered & Licensed Architect PRC: 45277 Validity: 12-Perimeter Date: 01-10-2020 PRC: 3710479 Date Issued: 01-10-2020 Place: Quezon City Tel: 204 411 641	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ T. PACIA CHECKED BRIAN BUNGABONG DATE:		A/9
	LICENSE NO.	VALID UNTIL	LICENSE NO.	VALID UNTIL	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE			ARCHITECTURAL
	PTR NO.	DATE ISSUED	PTR NO.	DATE ISSUED				



CEILING LAYOUT
SCALE: 1:75MM

PLAN			
CEILING			
ELEVATION / DETAILS			
FFL			
DESCRIPTION	2" x 4" WOOD FRAME SINGLE SWING SOLID CORE WOODEN PANEL DOOR (TANGUILE)	2" X 4" PVC FRAME SOLID SWING PVC FLUSH DOOR	2" x 4" STEEL TUBULAR STEEL FRAME WITH METAL SHEET AND LOUVER SINGLE SWING STEEL DOOR
ACCESSORIES	DOOR LOCK SET, STOPPER AND HINGES	DOOR LOCK SET, STOPPER AND HINGES	DOOR LOCK SET, STOPPER AND HINGES
LOCATION	SEE FLOOR PLAN FOR REFERENCE	SEE FLOOR PLAN FOR REFERENCE	SEE FLOOR PLAN FOR REFERENCE
LOCATION	3-SET	1-SET	1-SET

DOORS SCHEDULE
SCALE: 1:75MM

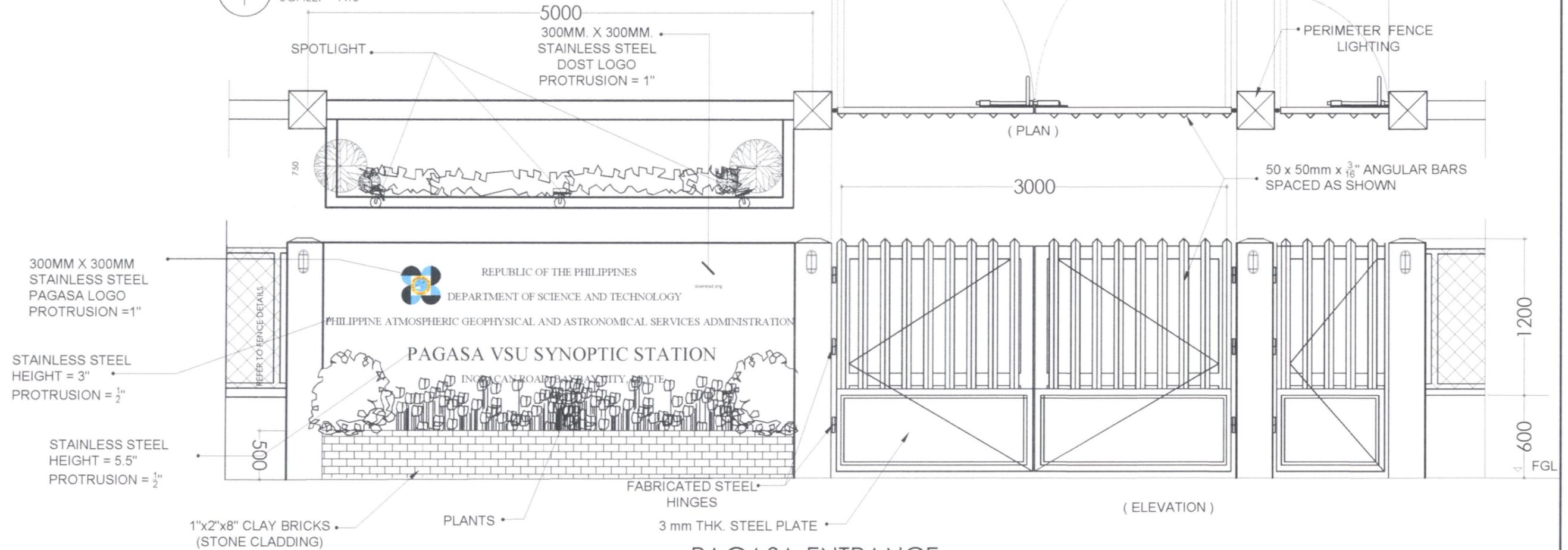
CEILING						
ELEVATION / DETAILS						
FFL						
DESCRIPTION	SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	AWNING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	SWING-TYPE CASEMENT STEEL FRAME AND GRILLS WITH 6MM THK GLASS COMPLETE ACCESSORIES W/ HINGES AND LOCKSET	FIXED-TYPE CASEMENT STEEL LOUVER (1" x 2" RECTANGULAR TUBULAR BLADE) ON 0.90m x 1.0m OPENING (2" x 3" RECTANGULAR TUBULAR FRAME)	FIXED-TYPE CASEMENT STEEL LOUVER (1" x 2" RECTANGULAR TUBULAR BLADE) ON 0.45m x 1.00m OPENING (2" x 3" RECTANGULAR TUBULAR FRAME)
LOCATION	REFER TO FLOOR PLAN	REFER TO FLOOR PLAN	REFER TO FLOOR PLAN	REFER TO FLOOR PLAN	REFER TO FLOOR PLAN	REFER TO FLOOR PLAN
QUANTITY	2-SET	1-SET	1-SET	1-SET	2-SET	2-SET

WINDOWS SCHEDULE
SCALE: 1:75MM

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR		 ESMERALDO T. MONTERO, Ph.D. Registered & Licensed Architect License No: 45277 PTR No: 3716478 Validity: 12-15-2023 Date: 01-03-2023 Place: Quezon City TIN: 234-411-041	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	 R. DELA CRUZ, T. BACIA CHECKED BRIAN BUNGABONG DATE:		A/10
				LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				ARCHITECTURAL



S 1
1 PERSPECTIVE
SCALE: NTS



S 1
2 PAGASA ENTRANCE
GATE SIGNAGE DETAIL
SCALE: 1:30MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER

ENGINEER
NATHANIEL T. SERVANDO, JR., Ph.D.
Registered & Licensed Architect
PRO. 45277
PTR NO. 2716478
Date: 01-12-2023
Place: Quezon City TIN: 284-411-091

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC
STATION BUILDING, OBSERVER'S
QUARTERS, POWERHOUSE,
PERIMETER FENCE, GATE & SIGNAGE

SHEET CONTENT
AS SHOWN

DRAWN BY: R. DELA CRUZ, T. PACIA
CHECKED: BRIAN BUNGABONG
DATE:

REVISIONS

SHEET NO.
A/11
ARCHITECTURAL

STRUCTURAL NOTES

GENERAL:

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHOULD BE READ OR COMPUTED. ANY DISCREPANCIES FOUND ON THE WRITTEN DIMENSIONS SHOULD BE RAISED TO THE ATTENTION OF THE ENGINEER PRIOR TO EXECUTION OF THE WORK.
3. ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS & OTHER PROJECT DOCUMENTS.

EARTHWORKS:

1. UNLESS NOTED OTHERWISE ALL FILL MATERIALS SHOULD BE SELECTED FROM COMMONLY EXCAVATED MATERIAL WHICH ARE FREE FROM ORGANIC AND HAZARDOUS MATERIALS AND GENERAL DEBRIS. FILL MATERIALS SHALL BE INERT WELL GRADED AND GRANULAR MATERIAL WITH A MAXIMUM SIZE NOT EXCEEDING 75mm.

FOUNDATION:

1. IN ABSENCE OF SOIL INVESTIGATION REPORT, AND IN ACCORDANCE WITH SECTION 304.2 OF NSCP 2015, THE ALLOWABLE BEARING CAPACITY USED FOR FOUNDATION IS **100 kPa**.
2. UNIT WEIGHT OF SOIL CONSIDERED IS 18 kN/m³.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.

CONCRETE:

3. THE CONCRETE DESIGN AND CONSTRUCTION WORKS ARE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 318M-14) AND THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP C101-15).

SCHEDULE OF STRUCTL. CONCRETE AT 28 DAYS COMPRESSIVE STRENGTH

STRUCTURAL ELEMENTS	28-DAYS COMPRESSIVE STRENGTH (fc')
FOOTING	3,000psi (20.70 MPa)
BEAMS, COLUMNS & SUSPENDED SLAB	3,000psi (20.70 MPa)
SLAB ON FILL, RET. WALLS, CONC. FOR FENCE, LINTEL BEAMS & LINTEL COLUMNS	2,500 psi (17.24 MPa)
LEAN CONC.	1,500 psi (10.34 MPa)

2. AGGREGATES SHALL BE CHEMICALLY INERT, STRONG, HARD AND DURABLE, AND OF LIMITED POROSITY AND FREE FROM ADHERING COATINGS AND ORGANIC OR OTHER IMPURITIES THAT MAY CAUSE CORROSION OF THE REINFORCEMENT OR MAY IMPAIR THE STRENGTH AND DURABILITY OF THE CONCRETE.

SCHEDULE OF CONCRETE AGGREGATES

ITEMS	AGGREGATE SIZE
FOOTING	19mm (3/4 in)
SLABS, BEAMS, COLUMNS, OTHERS	19mm (3/4 in)
SLAB ON GRADE	25mm (1 in)

3. WATER FOR MIXING SHALL BE CLEAN AND FREE FROM OIL, ALKALIS, ACIDS, ORGANIC MATERIALS WHICH MIGHT AFFECT THE PROPERTIES OF CONCRETE AND STEEL.

4. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) DAYS IMMEDIATELY AFTER POURING BY USING WET BURLAP, FOG SPRAYING OR OTHER APPROVED METHOD.

5. TESTING OF CONCRETE SHALL CONSIST OF COMPRESSIVE TESTS OF MOLDED CONCRETE CYLINDERS FOR STRENGTH AND SLUMP TESTS FOR CONSISTENCY.

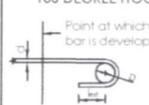
REINFORCING STEEL:

1. STEEL REINFORCEMENT SHALL BE **GRADE 60** FOR REINFORCEMENT WITH 16MMØ AND SHALL BE **GRADE 40** FOR REINFORCEMENT WITH 10MMØ AND 12MMØ
2. UNLESS APPROVED BY THE ENGINEER, WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED.
3. REINFORCING STEEL BARS MUST BE FREE FROM OIL, GREASE, LOOSE RUST, LOOSE MILL SACK OR OTHER HARMFUL MATTER IMMEDIATELY BEFORE POURING CONCRETE.
4. LAP SPLICE SHALL COMPLY WITH ACI-318M-14 AND NSCP C101-15.

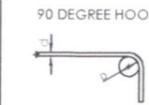
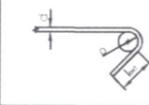
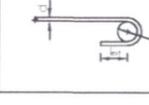
5. THE MINIMUM CLEAR COVER FOR REINFORCEMENTS SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS:

STRUCTURAL ELEMENTS	CONCRETE COVER, mm
FOOTING	75
GROUND SLAB	40
SUSPENDED SLAB	20
BEAMS STIRRUPS & COLUMNS TIES	40
CONCRETE EXPOSED TO EARTH BUT POURED AGAINST FORMS	50
CONCRETE POURED DIRECTLY TO EARTH	75

6. STANDARD HOOKS:

TYPE OF STANDARD HOOK	BAR SIZE, d	BEND DIAMETER, D	STRAIGHT EXTENSION, l _{ext}
 90 DEGREE HOOK Point at which bar is developed	Ø10mm to Ø25mm	6d	12d
	Ø28mm to Ø36mm	9d	
	Ø40mm & Ø58mm	10d	
 180 DEGREE HOOK Point at which bar is developed	Ø10mm to Ø25mm	6d	LARGER OF 4d & 65mm
	Ø28mm to Ø36mm	9d	
	Ø40mm & Ø58mm	10d	

7. STIRRUP & TIE HOOKS:

TYPE OF STANDARD HOOK	BAR SIZE, d	BEND DIAMETER, D	STRAIGHT EXTENSION, l _{ext}
 90 DEGREE HOOK	Ø10mm to Ø16mm	4d	LARGER OF 4d & 75mm
	Ø20mm to Ø25mm	6d	12d
 135 DEGREE HOOK	Ø10mm to Ø16mm	4d	LARGER OF 6d & 75mm
	Ø20mm to Ø25mm	6d	
 180 DEGREE HOOK	Ø10mm to Ø16mm	4d	LARGER OF 6d & 65mm
	Ø20mm to Ø25mm	6d	

8. TABLE OF LAP SPLICES

PARAMETERS

fc'=20.7 MPa fy=230 MPa

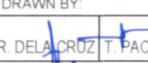
BAR DIAMETER (mm)	STANDARD HOOK (mm), l _{dh}	TENSION SPLICE LENGTH (mm)*	
		CLASS "A"	CLASS "B"
10	160	300	400
12	200	300	400
16	260	400	520
20	320	500	650
25	400	750	975
28	450	840	1100

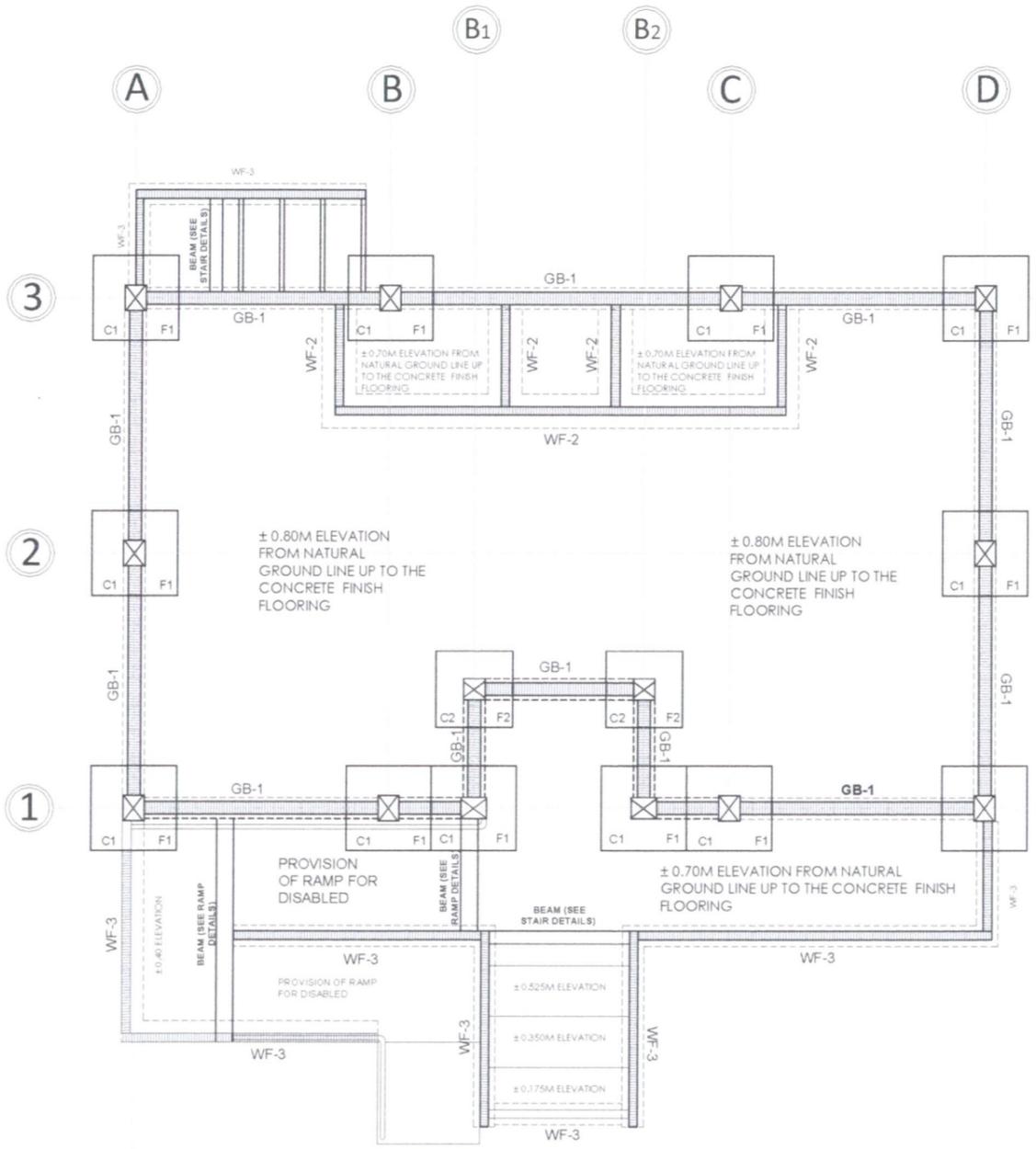
* For top bars (more than 300mm of concrete placed below the horizontal reinforcement) multiply the above values by 1.3

9. FORMWORKS REMOVAL

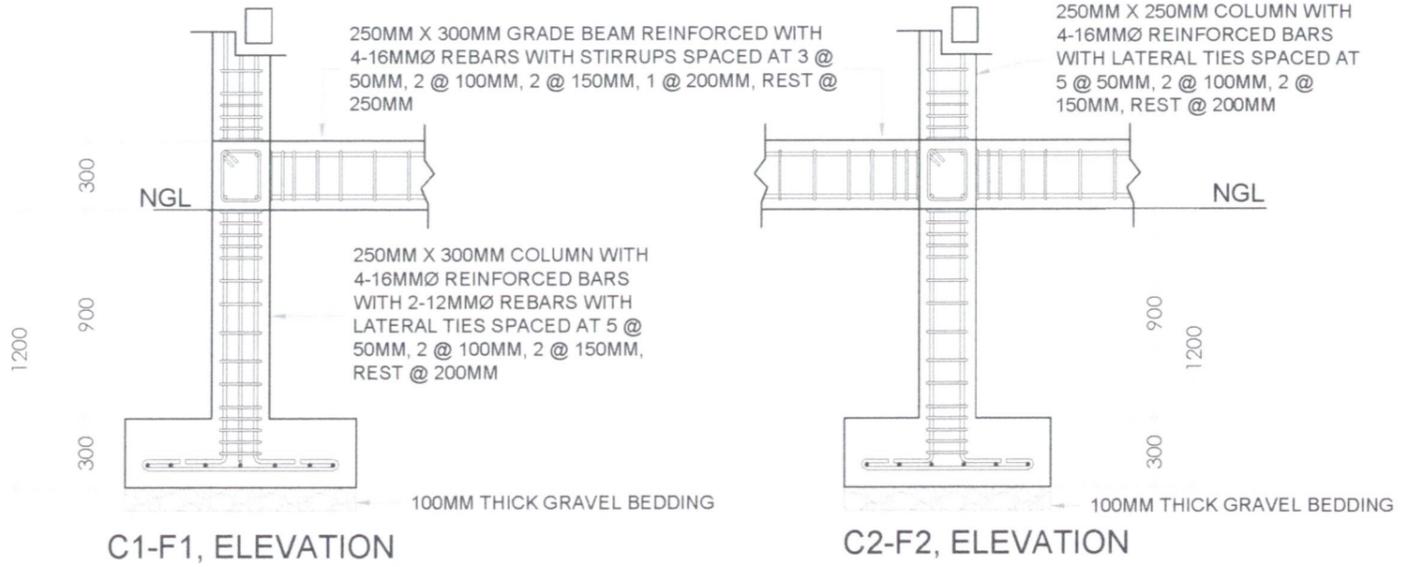
STRUCTURAL ELEMENTS	MINIMUM TIME REQUIRED BEFORE REMOVAL
FOOTING	24 HRS
SUSPENDED SLAB	21* DAYS
COLUMNS	48 HRS
BEAMS SOFFIT FORMS	21* DAYS
BEAMS SIDE FORMS	24 HRS

*IT CAN BE REMOVED AFTER A MINIMUM OF 14 DAYS IF APPROVED BY THE ENGINEER

	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.	
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 BRIAN P. BUNGABONG Civil Engineer	 BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	 R. DELACRUZ, T. PACIA CHECKED  BRIAN P. BUNGABONG DATE:			S/1
	LICENSE NO. 910792	VALID UNTIL 4-10-26	LICENSE NO. 0110792	VALID UNTIL 4-10-26	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				STRUCTURAL
	PTR NO. 21487714	DATE ISSUED 3-19-24	PTR NO. 21487714	DATE ISSUED 3-19-24					

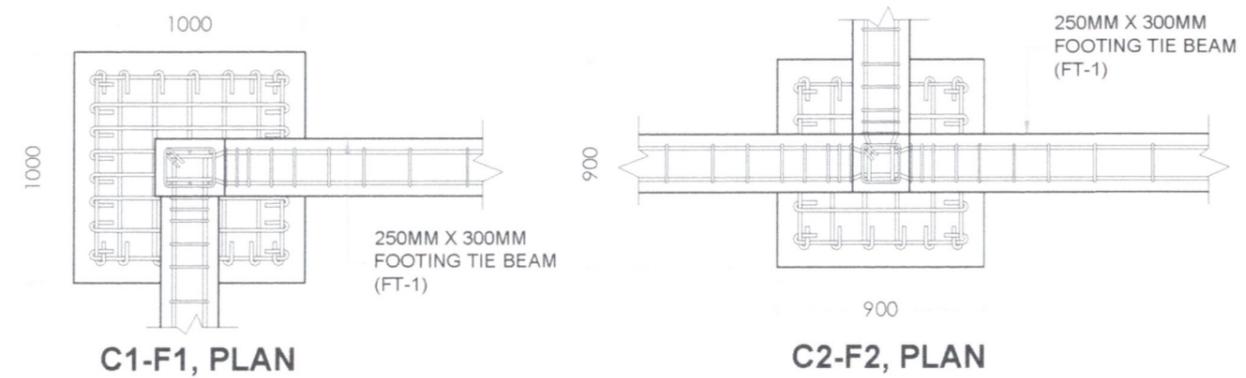


FOUNDATION PLAN
SCALE: 1:75MM



C1-F1, ELEVATION **C2-F2, ELEVATION**

COLUMN SCHEDULE					
MARK	H(m)	L(m)	W(m)	VERTICAL BARS	10mm ϕ STIRRUPS(m)
C1	4.70	0.30	0.25	4-16mm ϕ W/ 2-12mm ϕ DEF. BARS	5-0.05m, 2-0.10m, 2-0.15m, REST 0.20m
C2	4.70	0.25	0.25	4-16mm ϕ	5-0.05m, 2-0.10m, 2-0.15m, REST 0.20m



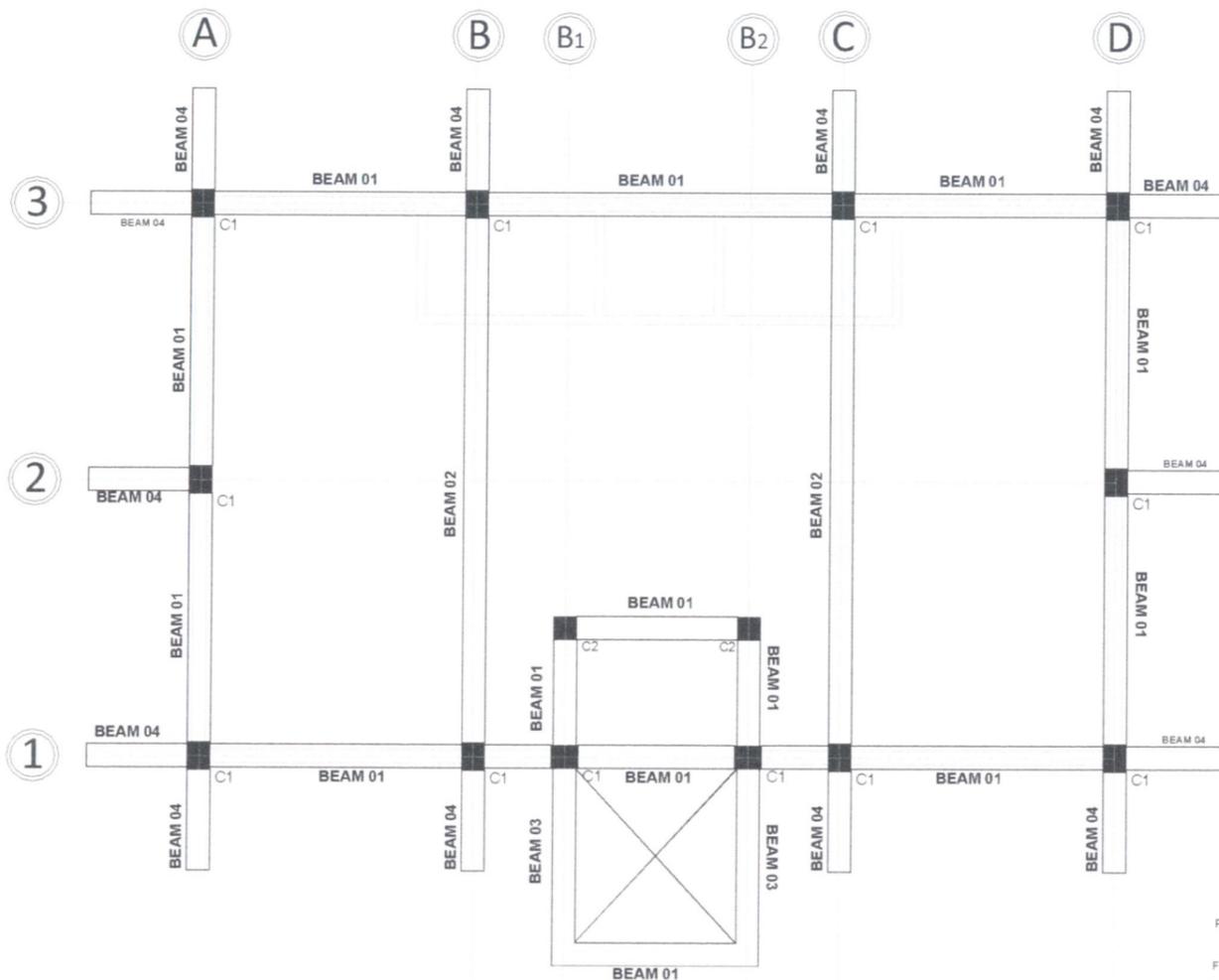
C1-F1, PLAN **C2-F2, PLAN**

FOOTING SCHEDULE					
MARK	H(m)	L(m)	W(m)	BOTTOM BARS	TOP BARS
F1	0.30	1.00	1.00	7-16mm ϕ	7-16mm ϕ
F2	0.30	0.90	0.90	6-16mm ϕ	6-16mm ϕ

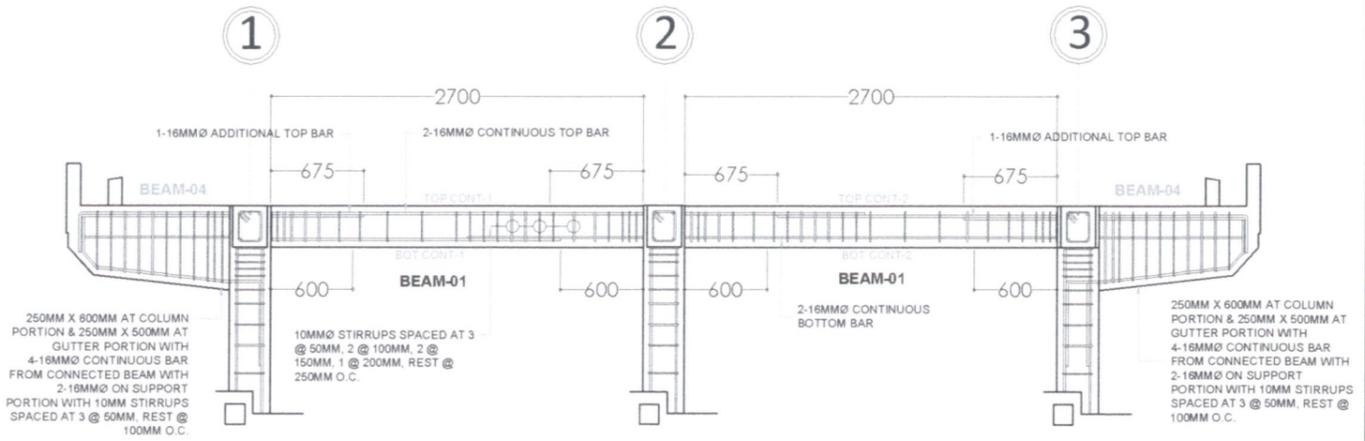
COLUMN-FOOTING DETAILS
SCALE: 1:30MM



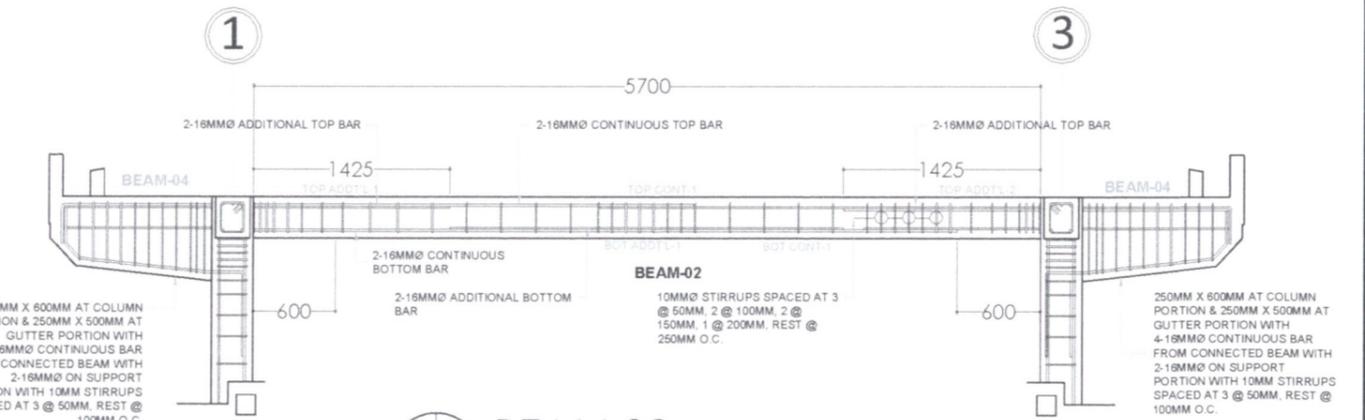
 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	OWNER	DESIGNER BRIAN P. BUNGABONG Civil Engineer	ENGINEER BRIAN P. BUNGABONG Civil Engineer	PROJECT TITLE CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	SHEET CONTENT AS SHOWN	DRAWN BY: R. DELA CRUZ / T. PACIA	REVISIONS	SHEET NO. S/2
	LICENSE NO. 0110792 VALID UNTIL 4-18-26 PTR NO. 21487714 DATE ISSUED 3-19-24	LICENSE NO. 0110792 VALID UNTIL 4-18-26 PTR NO. 21487714 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	CHECKED BY: BRIAN BUNGABONG	DATE:	STRUCTURAL		



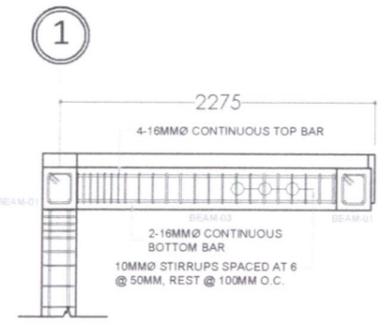
BEAM FRAMING PLAN
SCALE: 1:75MM



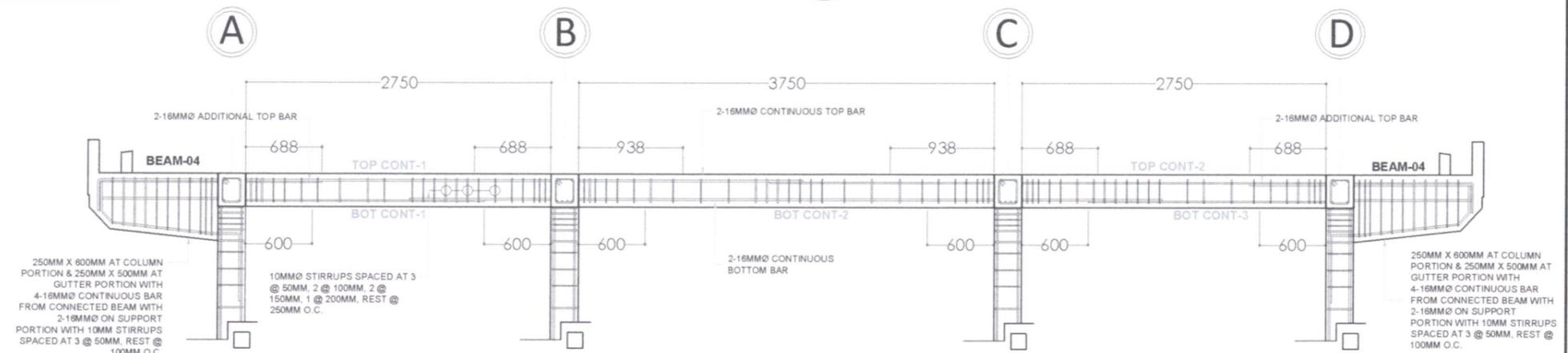
BEAM 01- BEAM 04
SCALE: 1:50MM



BEAM 02
SCALE: 1:50MM



BEAM 03
SCALE: 1:50MM

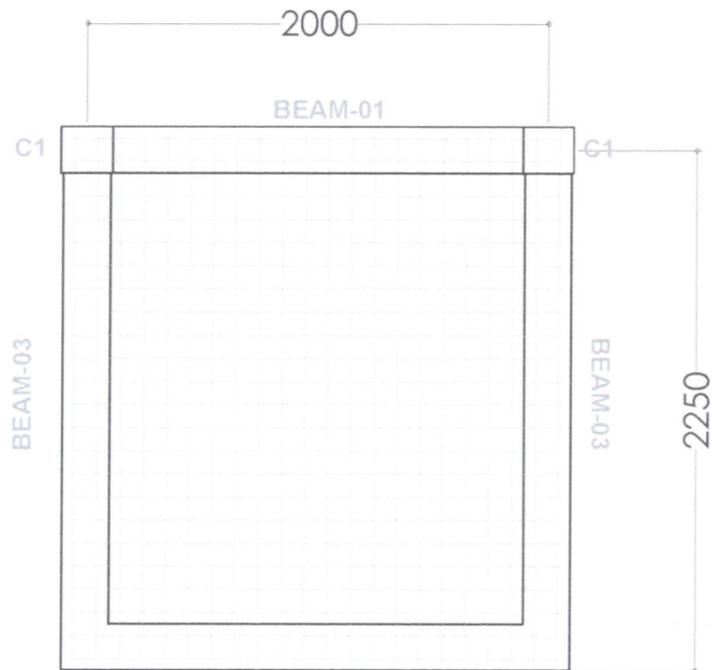


BEAM 01-BEAM 04
SCALE: 1:50MM

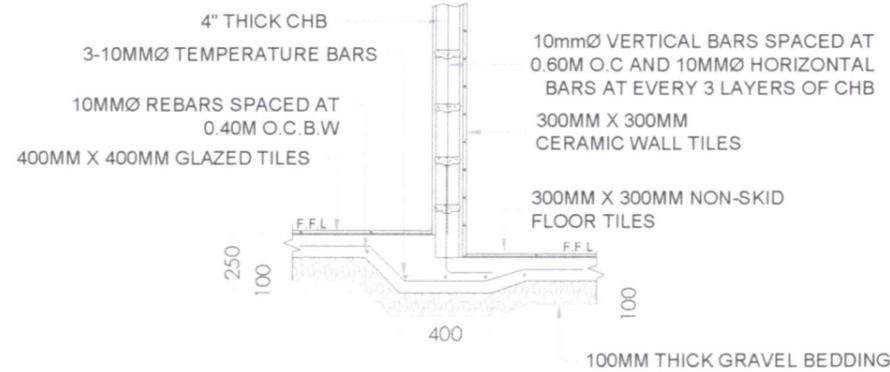
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Civil Engineer	BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		S/3
	LICENSE NO. 0110792 PTR NO. 21487714	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24	LICENSE NO. 0110792 PTR NO. 21487714	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE			STRUCTURAL

BEAM SCHEDULE

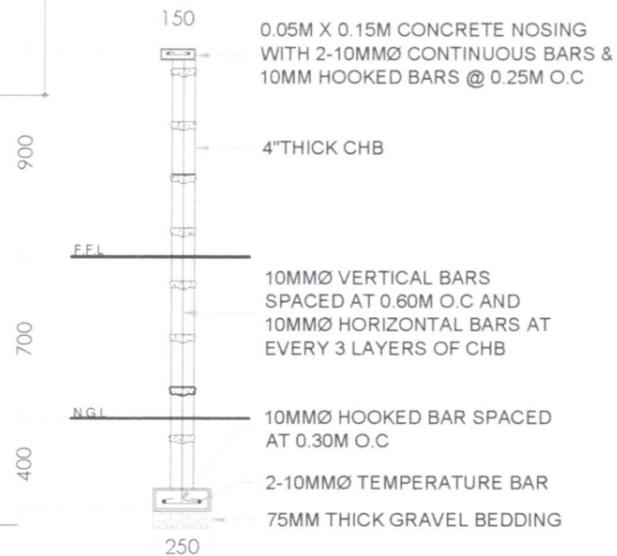
AT SUPPORT	AT MIDSPAN	AT SUPPORT	AT MIDSPAN	AT SUPPORT	AT MIDSPAN	THROUGHOUT THE SPAN
SIZE: 250mm x 300mm TOP BAR: 2 - 16mmØ BOT BAR: 2 - 16mmØ	SIZE: 250mm x 300mm TOP BAR: 2 - 16mmØ BOT BAR: 2 - 16mmØ	SIZE: 250mm x 300mm TOP BAR: 2 - 16mmØ ADDITIONAL TOP BAR: 2 - 16mmØ BOT BAR: 2 - 16mmØ	SIZE: 250mm x 300mm TOP BAR: 2 - 16mmØ BOT BAR: 2 - 16mmØ ADDITIONAL BOT BAR: 2 - 16mmØ	SIZE: 250mm x 300mm TOP BAR: 4 - 16mmØ BOT BAR: 2 - 16mmØ	SIZE: 250mm x 300mm TOP BAR: 4 - 16mmØ BOT BAR: 2 - 16mmØ	250MM X 800MM AT COLUMN PORTION & 250MM X 500MM AT GUTTER PORTION WITH 4-16MMØ CONTINUOUS BAR FROM CONNECTED BEAM WITH 2-16MMØ ON SUPPORT PORTION
STIRRUPS: 10mmØ 3 @ 50mm, 2 @ 100mm, 2 @ 150mm, 1 @ 200mm, REST @ 250mm O.C. UP TO MIDSPAN & CONVERSELY NOTE: SPACING OF STIRRUPS AT SPLICING ZONE IS 100mm STIRRUPS MUST BE PROVIDED WITH 135° HOOK		STIRRUPS: 10mmØ 3 @ 50mm, 2 @ 100mm, 2 @ 150mm, 1 @ 200mm, REST @ 250mm O.C. UP TO MIDSPAN & CONVERSELY NOTE: SPACING OF STIRRUPS AT SPLICING ZONE IS 100mm STIRRUPS MUST BE PROVIDED WITH 135° HOOK		STIRRUPS: 10mmØ 6 @ 50mm, REST @ 100mm O.C. UP TO MIDSPAN & CONVERSELY NOTE: SPACING OF STIRRUPS AT SPLICING ZONE IS 100mm STIRRUPS MUST BE PROVIDED WITH 135° HOOK		STIRRUPS: 10mmØ U-HOOK: 10mmØ 3 @ 50mm, REST @ 100mm O.C. UP TO MIDSPAN & CONVERSELY NOTE: SPACING OF STIRRUPS AT SPLICING ZONE IS 100mm STIRRUPS MUST BE PROVIDED WITH 135° HOOK



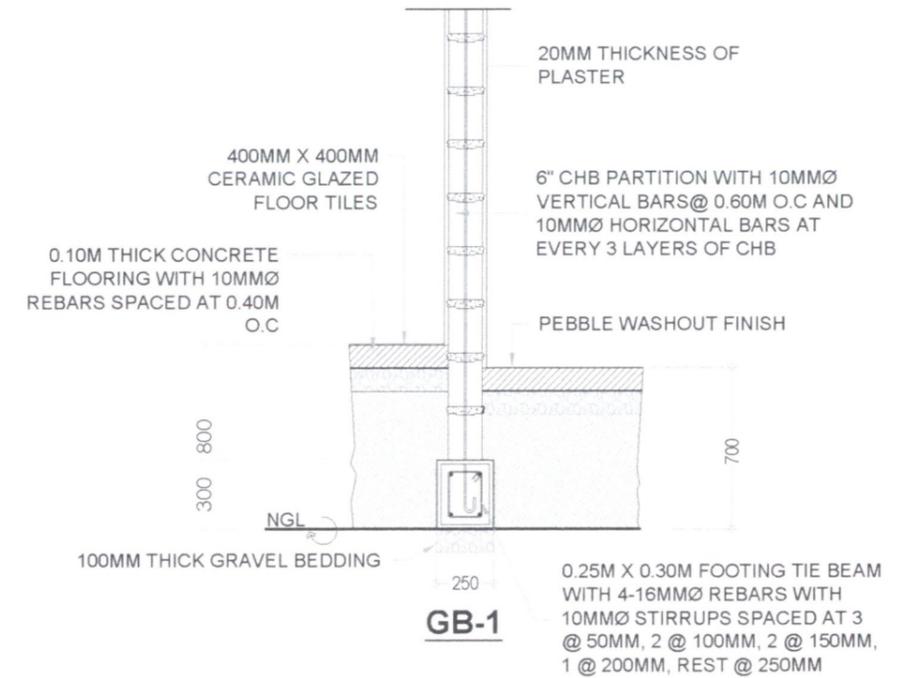
CANOPY DETAILS
SCALE: 1:30MM



WF-2 DETAILS
SCALE: 1:30MM

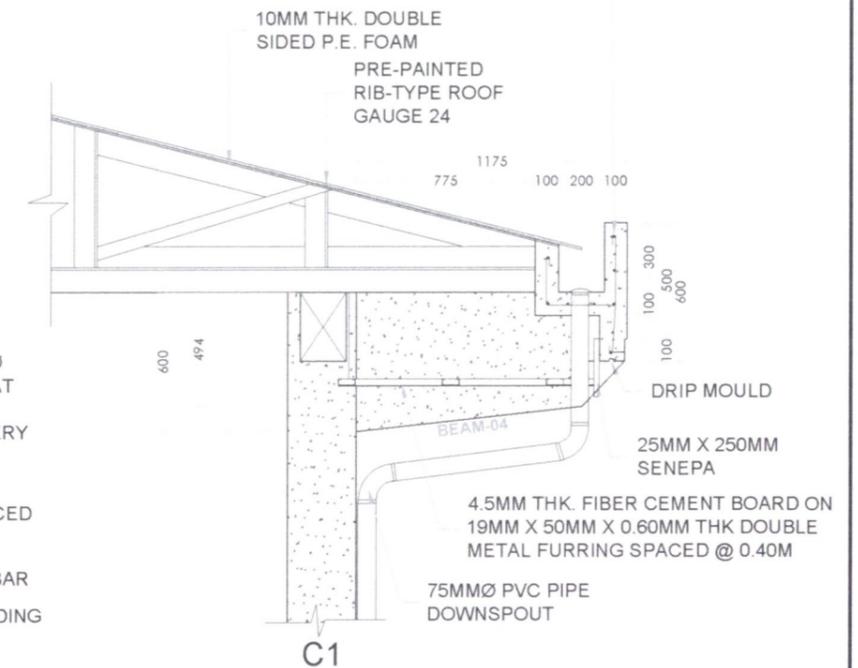


WF-3 DETAILS
SCALE: 1:30MM



GRADE BEAM DETAILS
SCALE: 1:30MM

3000PSI CONCRETE GUTTER WITH 5-12MMØ & 3-10MMØ CONTINUOUS BARS AND 10MMØ HOOKED BAR SPACED @ 0.15 M.O.C



CONCRETE GUTTER DETAILS
SCALE: 1:30MM



OWNER
NATHANIEL T. SERVANDO, PH.D.
ADMINISTRATOR

DESIGNER
BRIAN P. BUNGABONG
Civil Engineer

ENGINEER
BRIAN P. BUNGABONG
Civil Engineer

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE

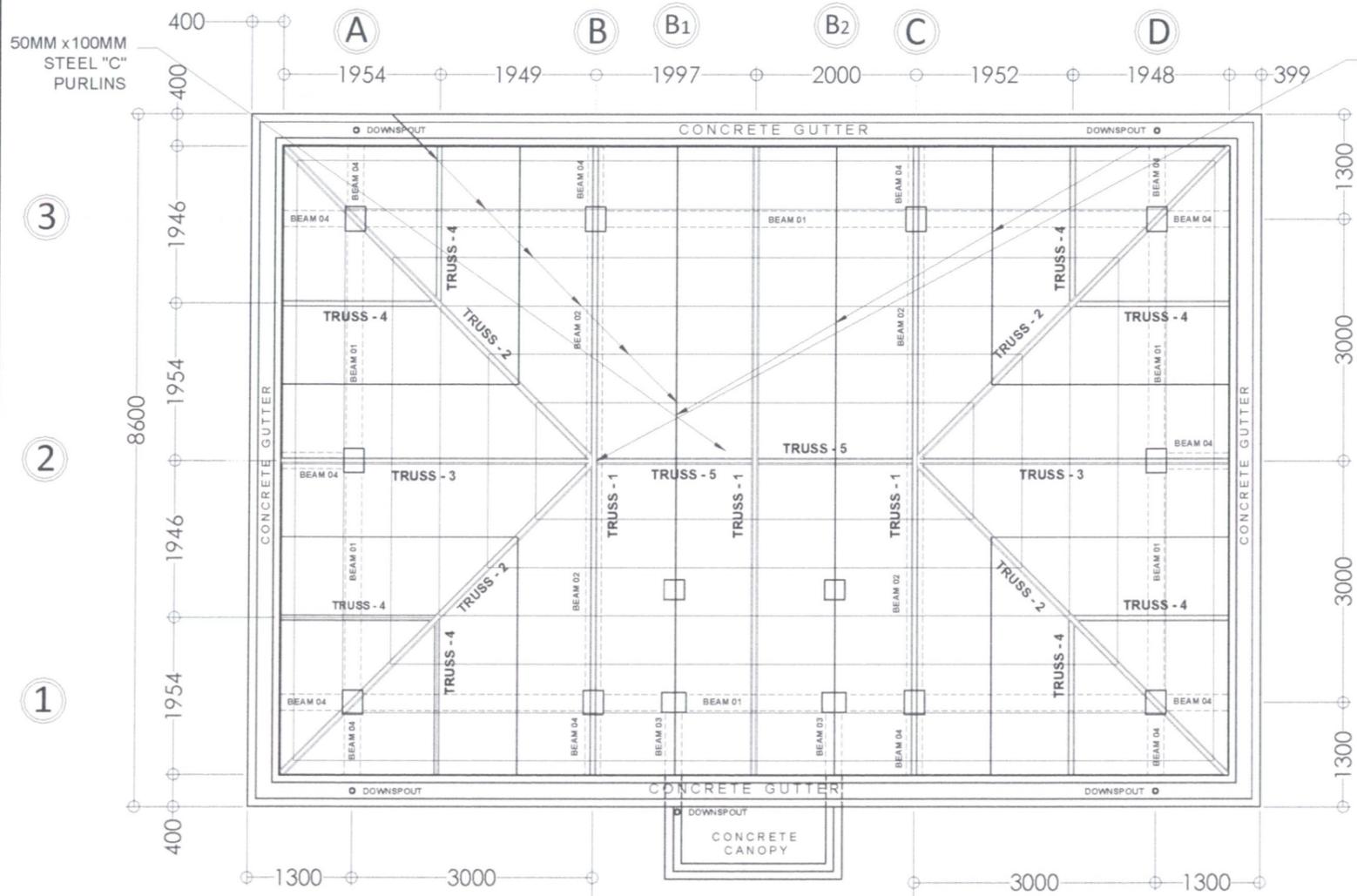
LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE

SHEET CONTENT
AS SHOWN

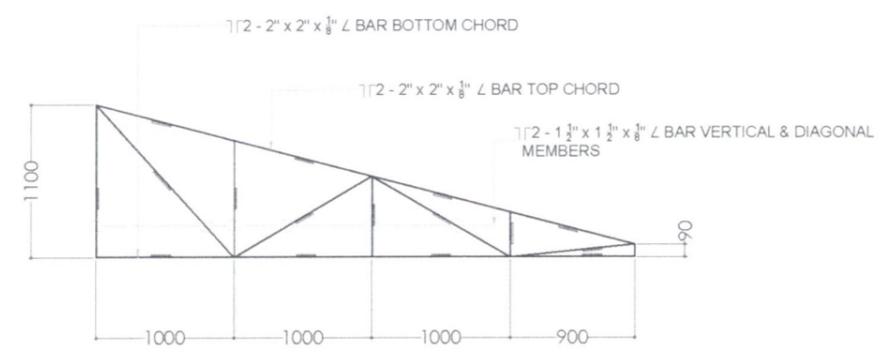
DRAWN BY: R. DELA CRUZ, T. PACIA
CHECKED: BRIAN BUNGABONG
DATE:

REVISIONS

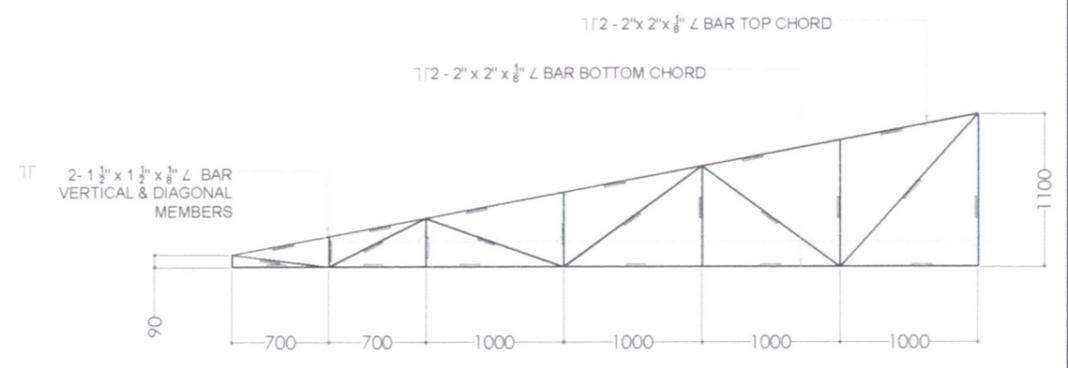
SHEET NO.
S/4
STRUCTURAL



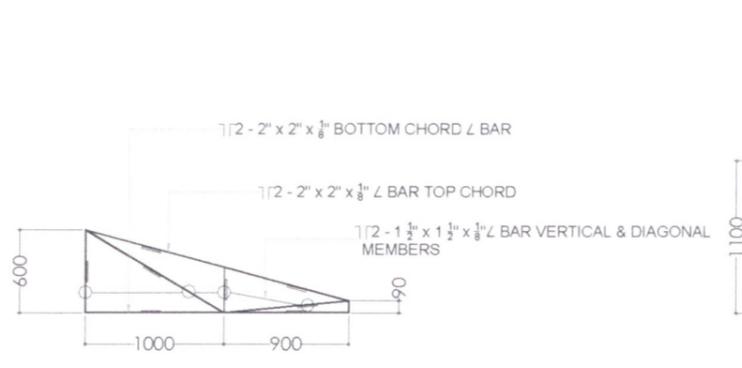
ROOF FRAMING PLAN
SCALE: 1:75MM



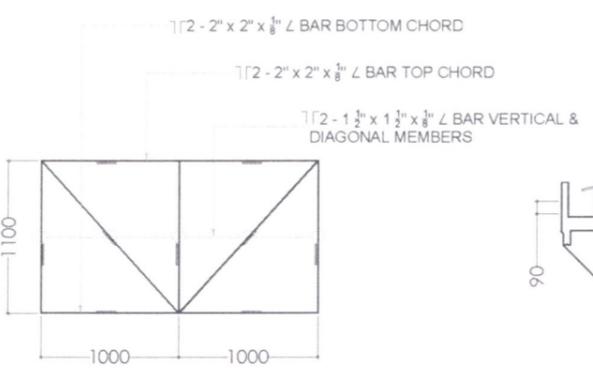
TRUSS-3 DETAILS
SCALE: 1:50MM



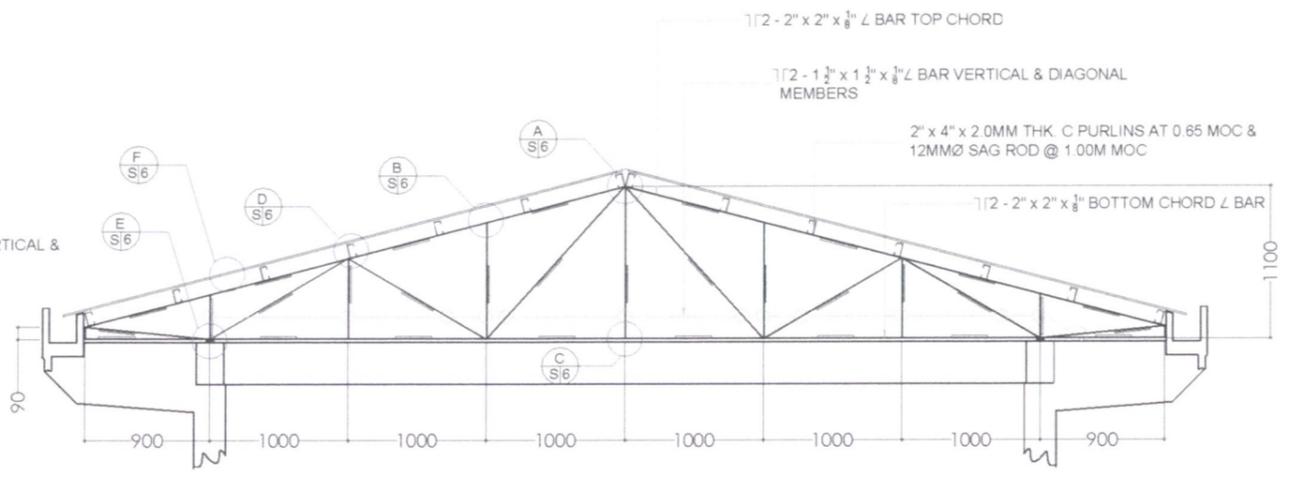
TRUSS-2 DETAILS
SCALE: 1:50MM



TRUSS-1 DETAILS
SCALE: 1:50MM



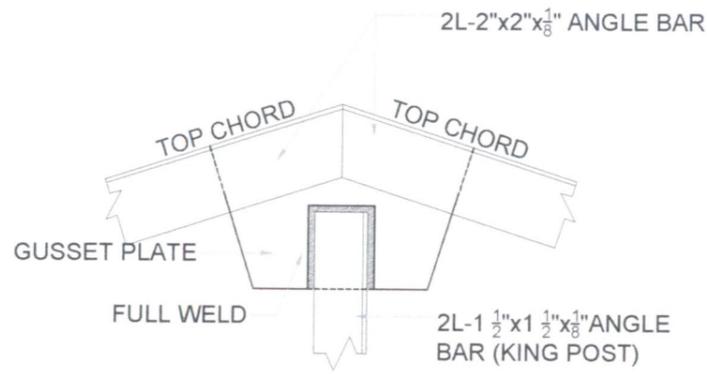
TRUSS-5 DETAILS
SCALE: 1:50MM



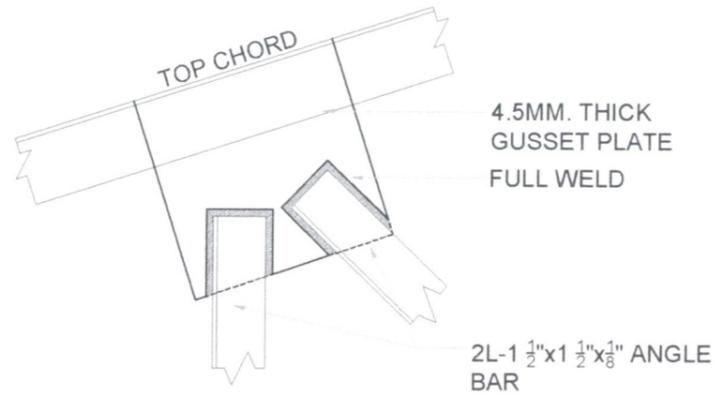
TRUSS-1 DETAILS
SCALE: 1:50MM



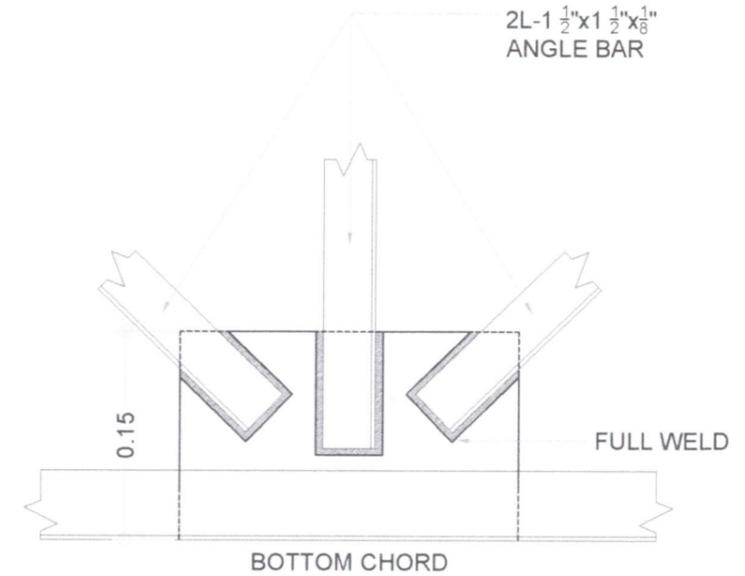
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Civil Engineer	BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		S/5
	LICENSE NO. 0110792 PTR NO. 21487714	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24	LICENSE NO. 0110792 PTR NO. 21487714	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE			STRUCTURAL



S 6
1
DETAIL A
SCALE: 1:5MM



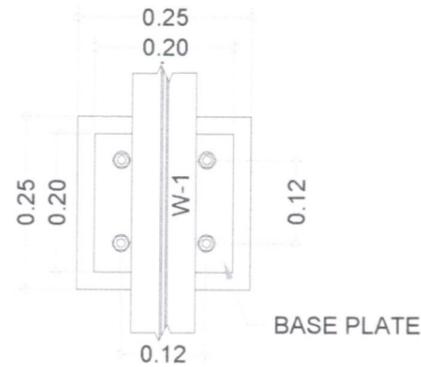
S 6
2
DETAIL B
SCALE: 1:5MM



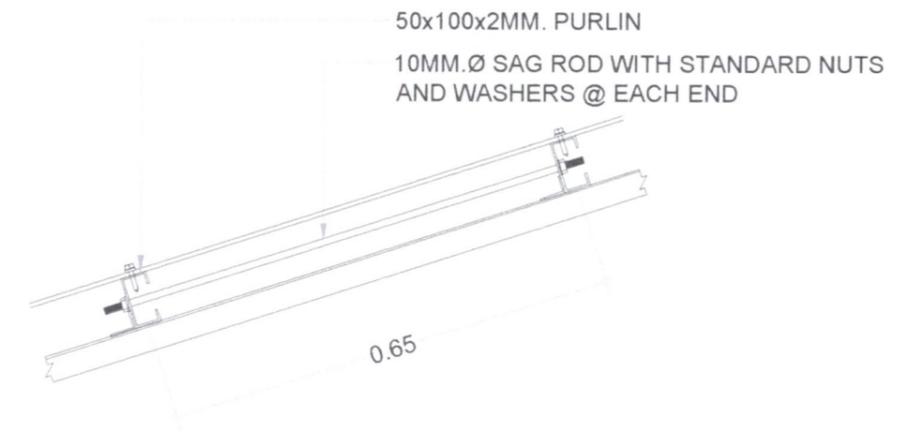
S 6
3
DETAIL C
SCALE: 1:5MM



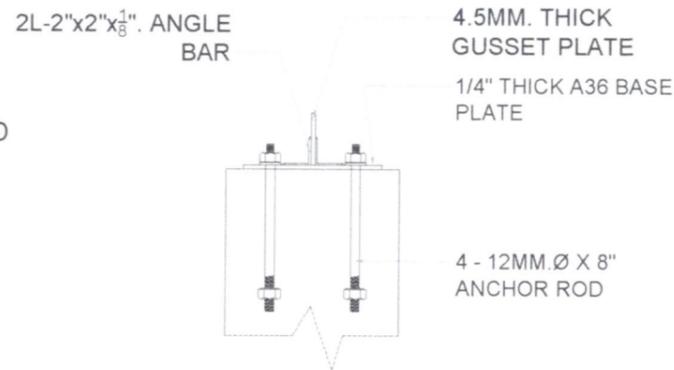
S 6
4
DETAIL D
SCALE: 1:10MM



S 6
5
DETAIL E
SCALE: 1:10MM



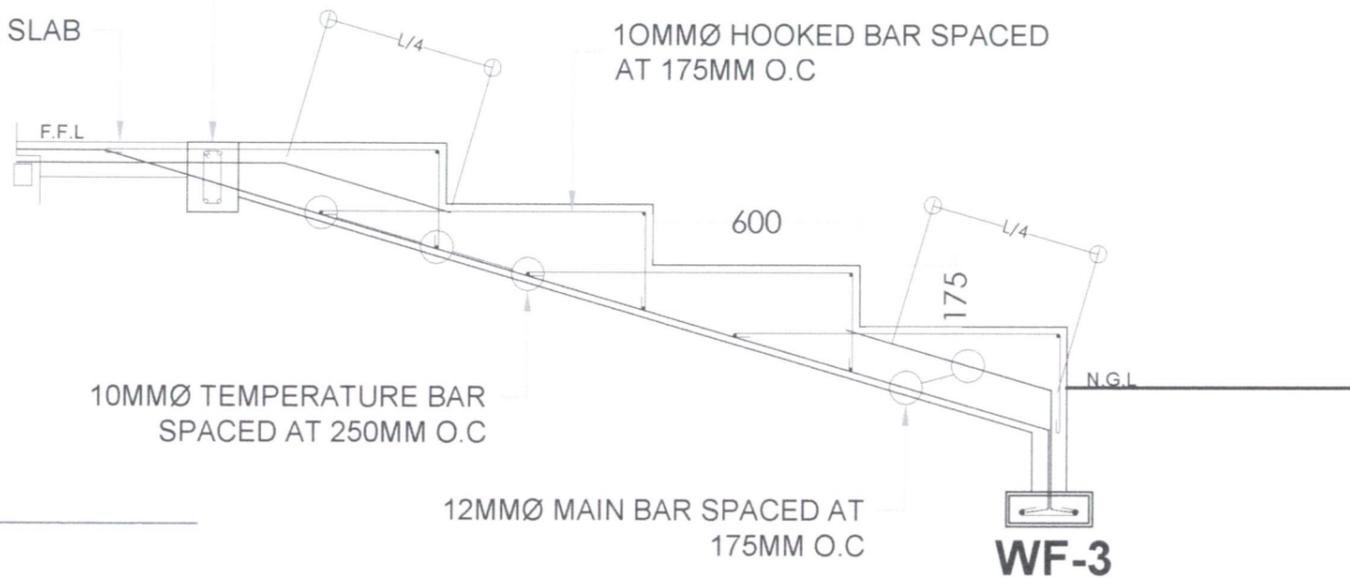
S 6
6
DETAIL F
SCALE: 1:10MM



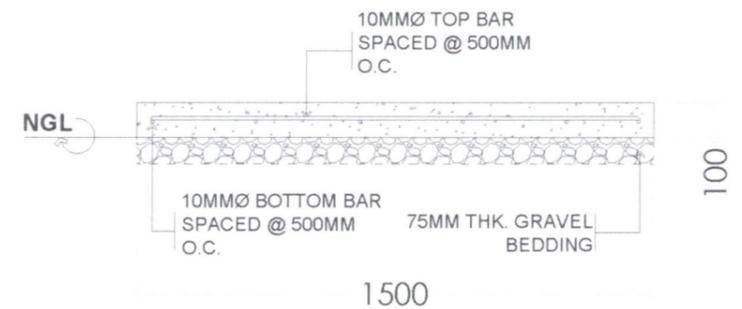
OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Civil Engineer	BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN	R. DELA CRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		S/6
	LICENSE NO. 0110792 PTR NO. 21487714	LICENSE NO. 0110792 PTR NO. 21487714					STRUCTURAL
	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24	VALID UNTIL 4-10-26 DATE ISSUED 3-19-24					

150MM X 200MM BEAM WITH
4-12MMØ REBARS WITH 10MMØ
STIRRUPS SPACED AT 150MM
O.C

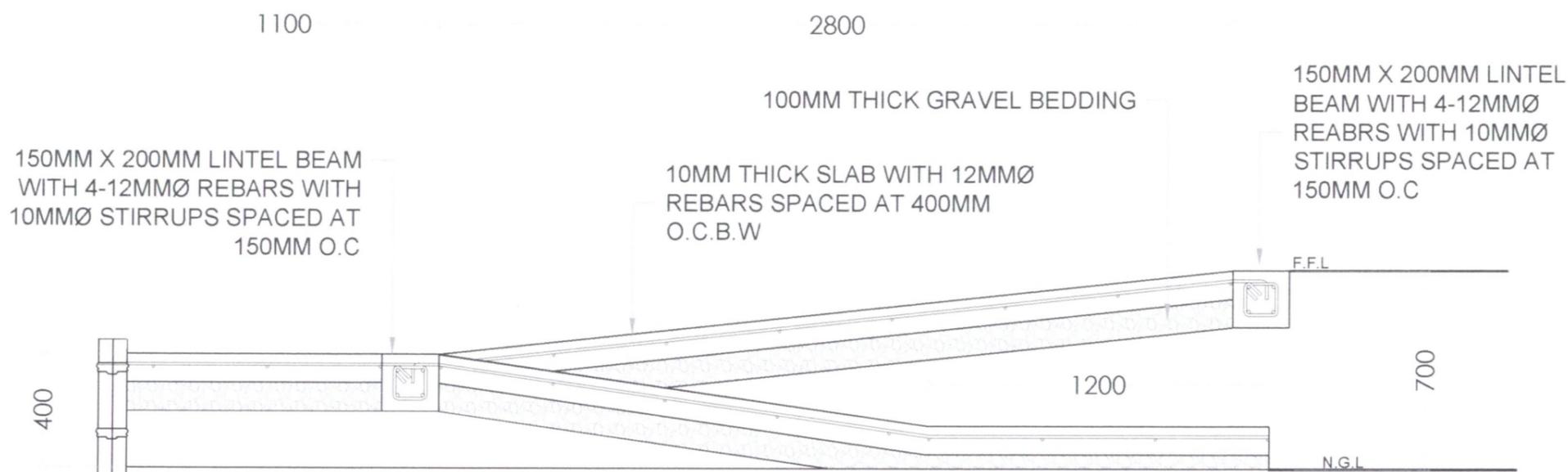
100MM THICK FLOOR SLAB



STAIR DETAILS
SCALE: 1:20MM



PATHWALK DETAILS
SCALE: 1:20MM



PWD RAMP DETAILS
SCALE: 1:20MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER
BRIAN R. BUNGABONG
Civil Engineer

ENGINEER
BRIAN R. BUNGABONG
Civil Engineer

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC
STATION BUILDING, OBSERVER'S
QUARTERS, POWERHOUSE,
PERIMETER FENCE, GATE & SIGNAGE

SHEET CONTENT
AS SHOWN

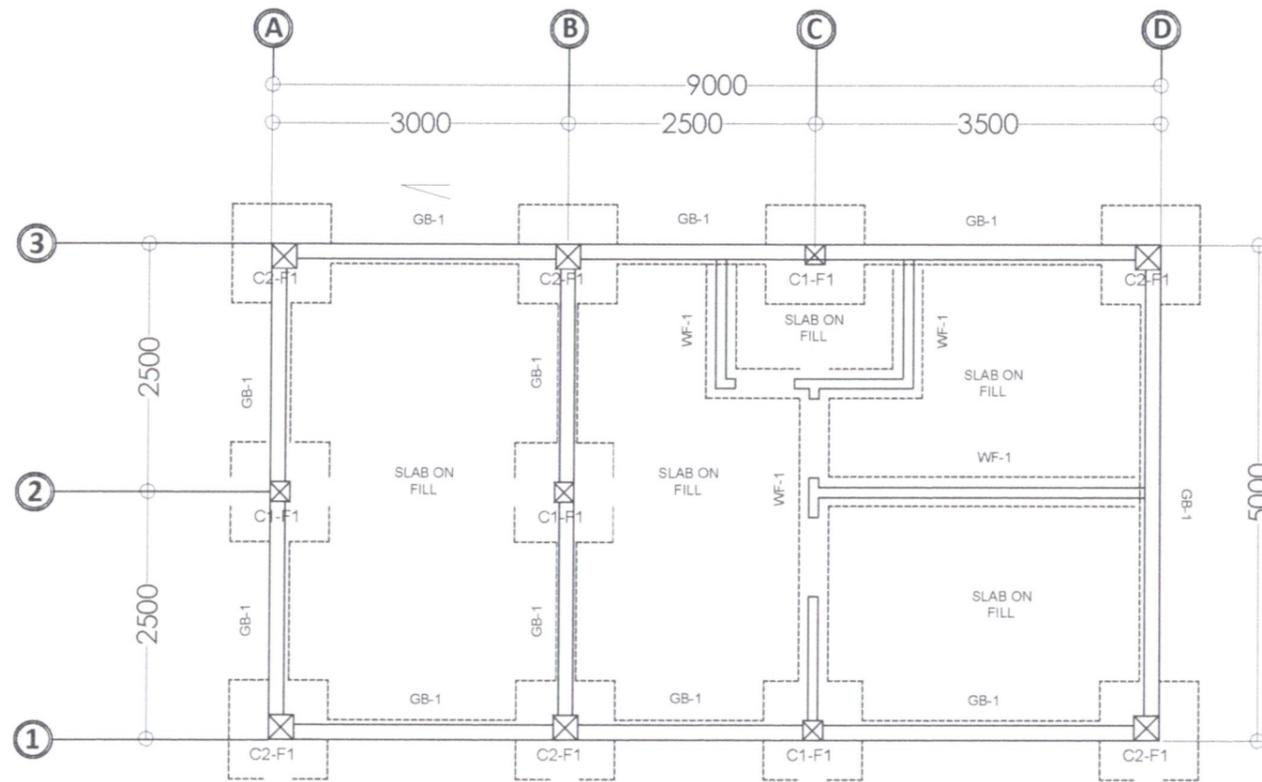
DRAWN BY:
R. DELA CRUZ, T. PACIA
CHECKED:
BRIAN BUNGABONG
DATE:

REVISIONS	SHEET NO.
	S/7

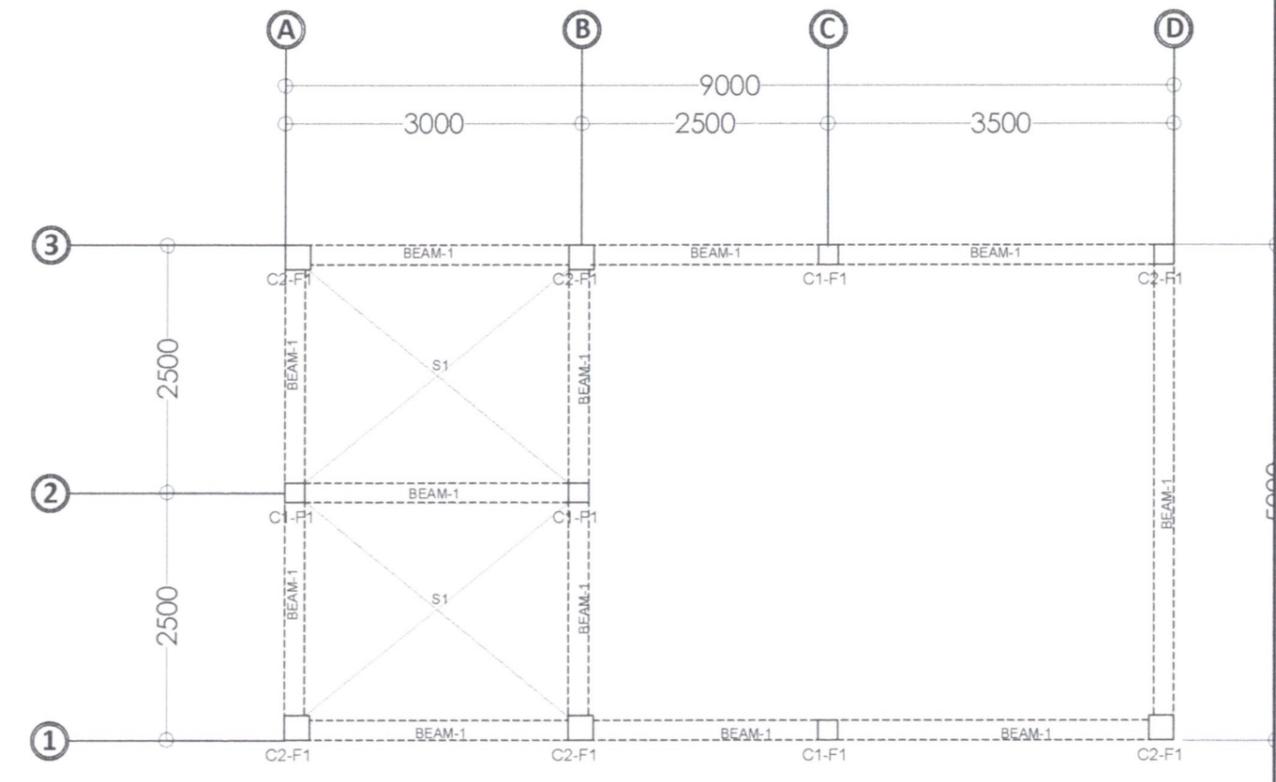
STRUCTURAL

LICENSE NO. 0110792 VALID UNTIL 4-10-24 PTR NO. 21487714
DATE ISSUED 3-19-24
LICENSE NO. 011792 VALID UNTIL 4-10-24 PTR NO. 21487714
DATE ISSUED 3-19-24

LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN
ROAD, BAYBAY CITY, LEYTE



FOUNDATION PLAN
SCALE: 1:70MM



ROOF BEAM FRAMING
SCALE: 1:70MM

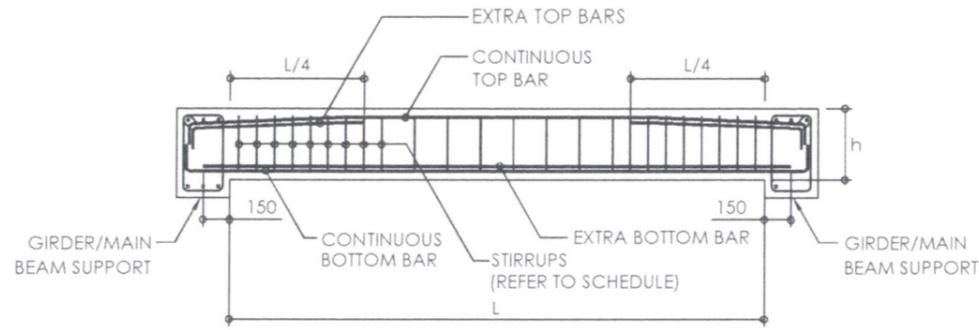
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 BRIAN P. BUNGABONG Civil Engineer	 BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN	 R. DELA CRUZ T. PACIA CHECKED BRIAN BUNGABONG DATE:		S/8 STRUCTURAL
	LICENSE NO. 0110792	VALID UNTIL 4-16-26	LICENSE NO. 011792	VALID UNTIL 4-10-26				
	PTR NO. 21487714	DATE ISSUED 3-19-24	PTR NO. 21487714	DATE ISSUED 3-19-24				

SCHEDULE OF SUSPENDED SLAB									REMARKS
DESIGNATION	THICKNESS (mm)	REAR LOCATION	REBAR @ SUPPORT ALONG SHORT SIDE		REBAR @ SUPPORT ALONG LONG SIDE		REBAR @ MIDSPAN		
			TOP	BOTTOM	TOP	BOTTOM	ALONG SHORT SIDE	ALONG LONG SIDE	
S1	100	FREE-END	12mm @ 300mm	12mm @ 300mm	12mm @ 300mm	12mm @ 300mm	12mm @ 200mm	12mm @ 300mm	ONE-WAY
		CONT-END	12mm @ 300mm	12mm @ 300mm	12mm @ 300mm	12mm @ 300mm			

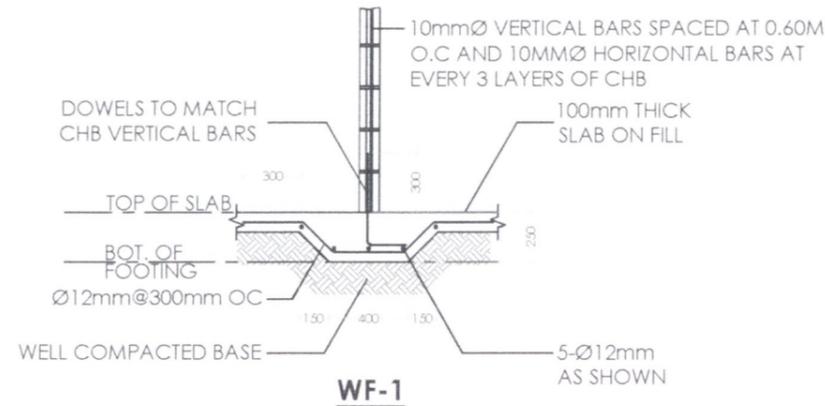
NOTE: FOR SLAB ON-GRADE, USE 10mm TEMP. BARS @ 400mm O.C. BOTHWAYS AND 10mm THICK GRAVEL BED.

SCHEDULE OF BEAMS							
LEVEL	MARK	DIMENSION (MM)		REBAR ARRANGEMENT			
		B	H	BAR POSITION	LEFT SUPPORT	MID-SPAN	RIGHT SUPPORT
FOUNDATION	FTB	200	300	TOP BAR	2-Ø16	2-Ø16	2-Ø16
				WEB BAR	-	-	-
				BOTTOM BAR	2-Ø16	2-Ø16	2-Ø16
ROOF	B-1	200	300	TOP BAR	3-Ø16	3-Ø16	3-Ø16
				WEB BAR	-	-	-
				BOTTOM BAR	3-Ø16	3-Ø16	3-Ø16

STIRRUPS: 10mmØ SPACED @ 3-0.05, 3-0.10m, 3-0.15m REST @ 0.20m O.C. BOTH ENDS.



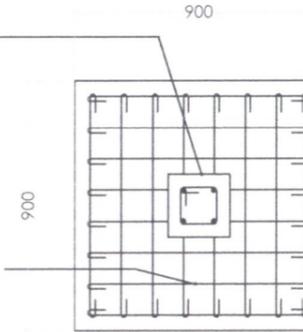
TYPICAL BEAM DETAILS
SCALE: NTS



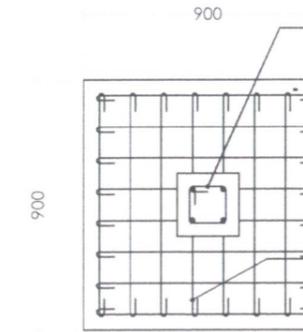
WALL FOOTING DETAILS
SCALE: 1:35MM

0.20X0.20m COL WITH
4- 16mmØ VERTICAL BARS,
10mmØ TIES SPACED AS
FOLLOWS: 3 @ 50mm, 3 @
100mm, 3 @ 150mm AND REST
@ 200mm ON CENTERS

8-16mmØ MATTING BARS
SPACED EQUALLY BOTHWAYS



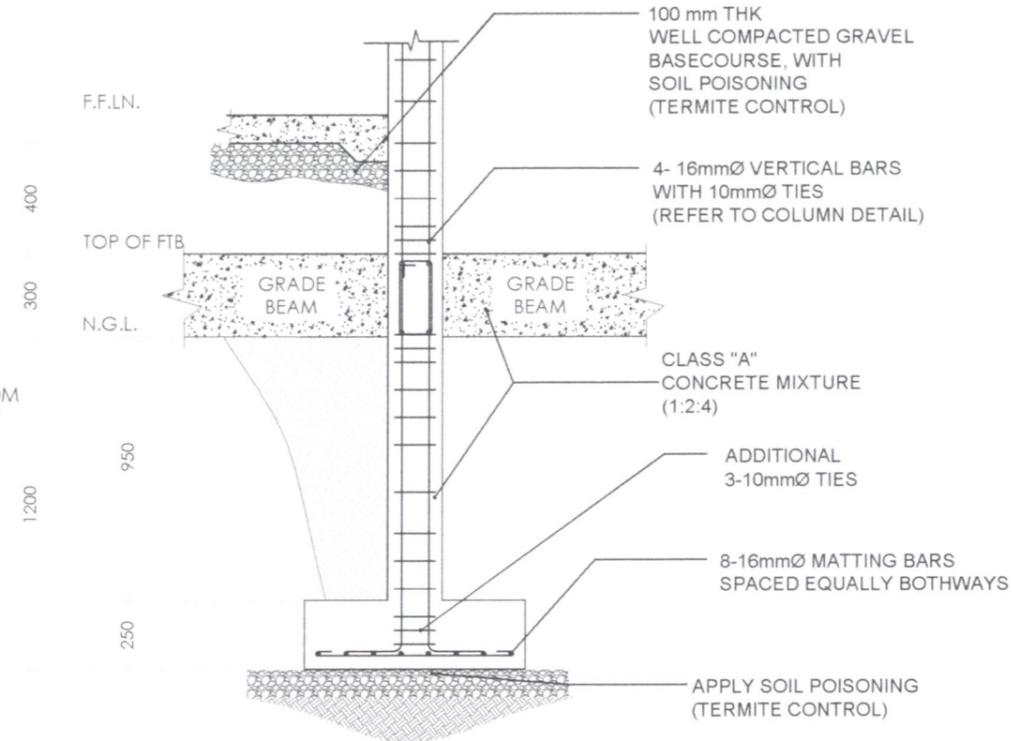
C1-F1 PLAN



C2-F1 PLAN

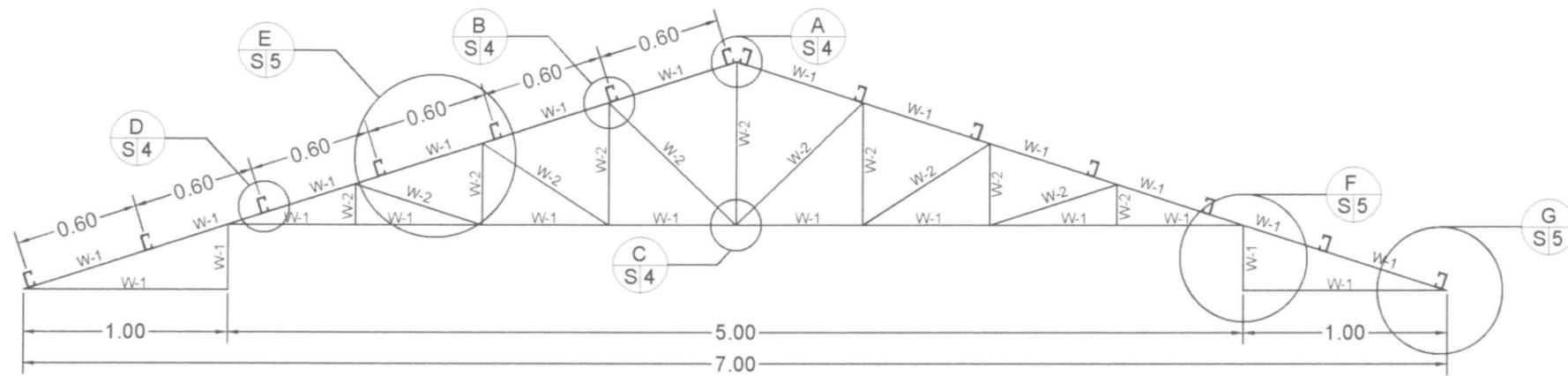
0.25X0.25m COL WITH
4- 16mmØ VERTICAL BARS,
10mmØ TIES SPACED AS
FOLLOWS:
3 @ 50mm, 3 @ 100mm, 3 @ 150mm
AND REST @ 200mm ON CENTERS

8-16mmØ MATTING BARS
SPACED EQUALLY
BOTHWAYS

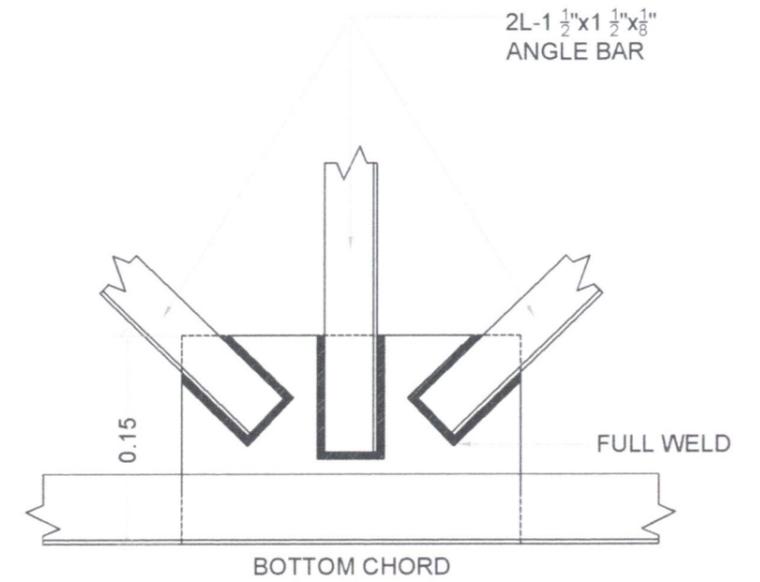


COLUMN FOOTING DETAILS
SCALE: 1:25MM

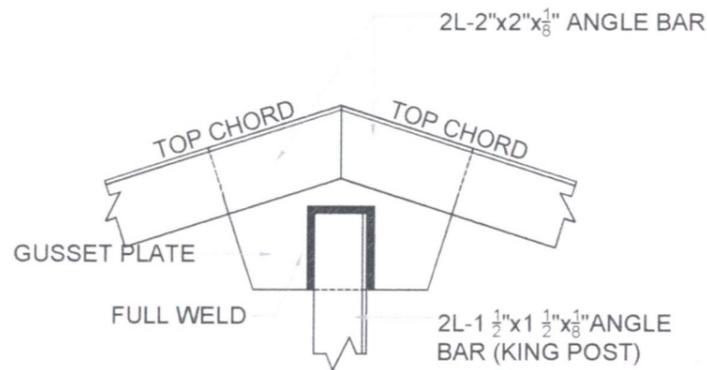
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 BRIAN P. BUNGABONG Civil Engineer	 BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	 R. DE LA CRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		
	LICENSE NO. 0110792 VALID UNTIL 4-10-24 PTR NO. 21487714 DATE ISSUED 3-19-24	LICENSE NO. 0110792 VALID UNTIL 4-10-24 PTR NO. 21487714 DATE ISSUED 3-19-24	LICENSE NO. 0110792 VALID UNTIL 4-10-24 PTR NO. 21487714 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				STRUCTURAL



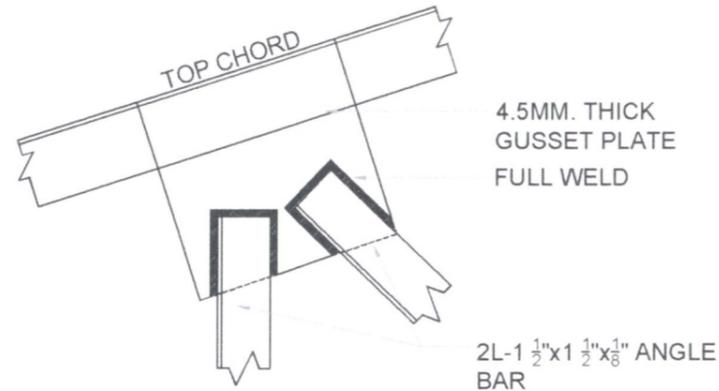
TRUSS-1 DETAILS
SCALE: 1:30MM



DETAIL OF C
SCALE: 1:5MM



DETAIL OF A
SCALE: 1:5MM



DETAIL OF B
SCALE: 1:5MM



DETAIL OF D
SCALE: 1:10MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER
BRIAN B. BUNGABONG
Civil Engineer

ENGINEER
BRIAN B. BUNGABONG
Civil Engineer

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE

LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE

SHEET CONTENT
AS SHOWN

DRAWN BY:
R. DELA CRUZ, T. PACIA

CHECKED BY:
BRIAN BUNGABONG

DATE:

REVISIONS

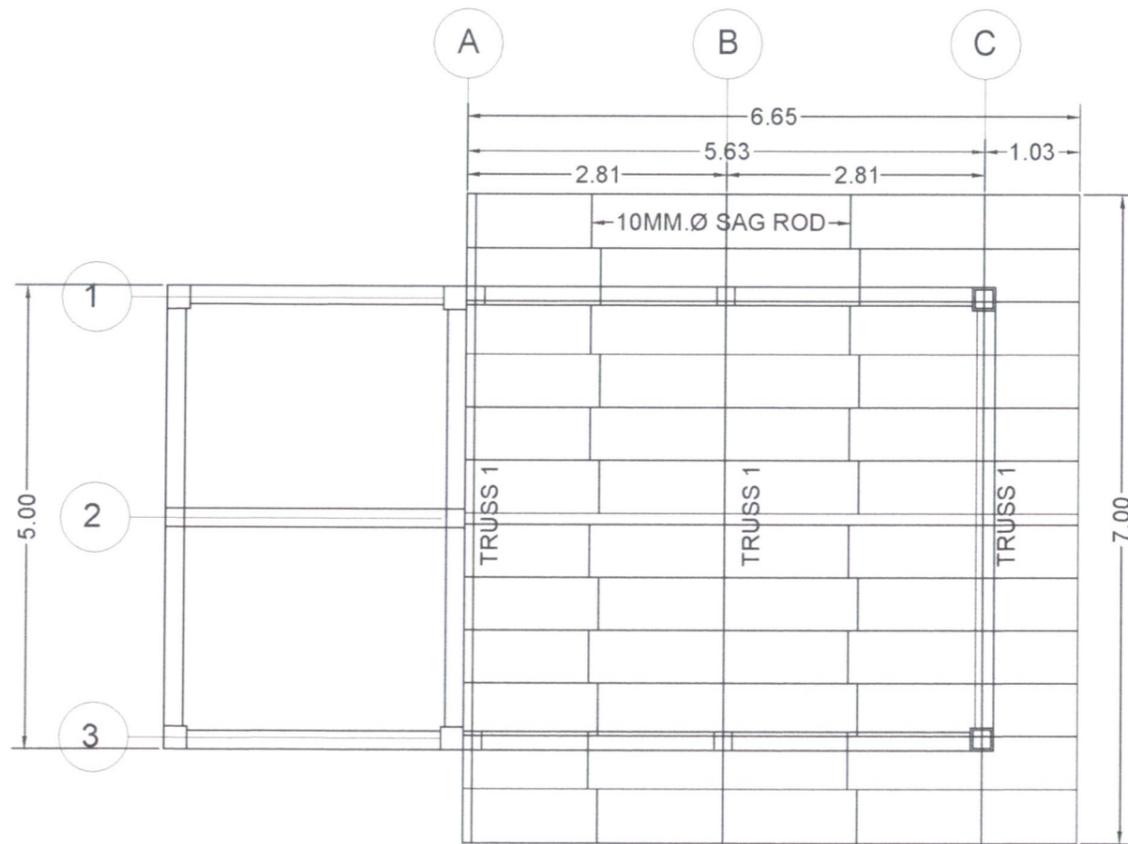
SHEET NO.

S/10

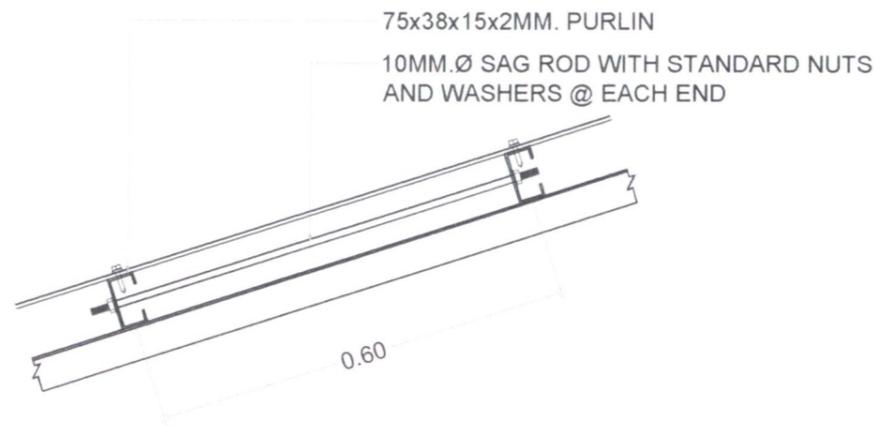
STRUCTURAL

LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 7-19-24

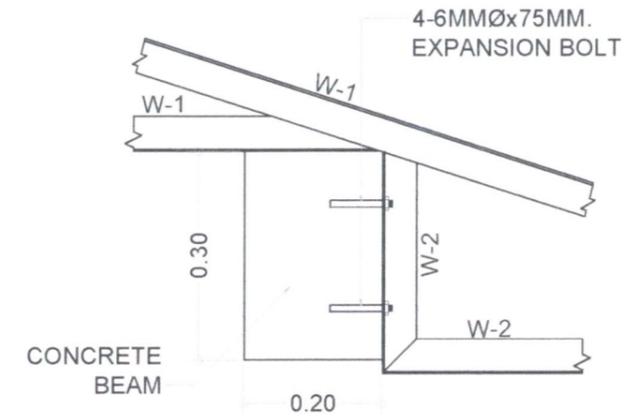
LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 7-19-24



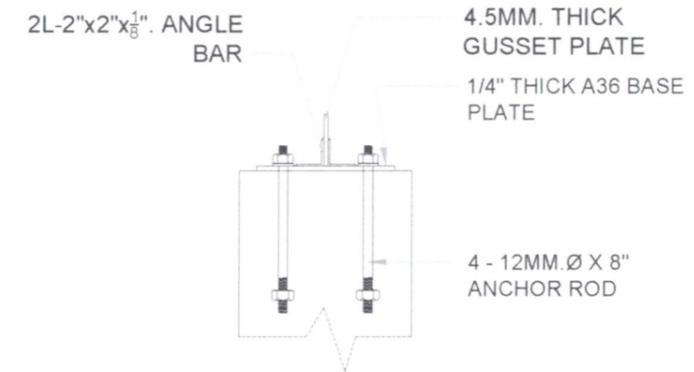
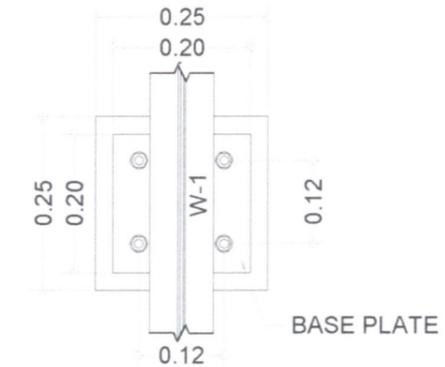
S 5
1 ROOF FRAMING DETAILS
SCALE: 1:75MM



S 5
2 DETAIL OF E
SCALE: 1:10MM



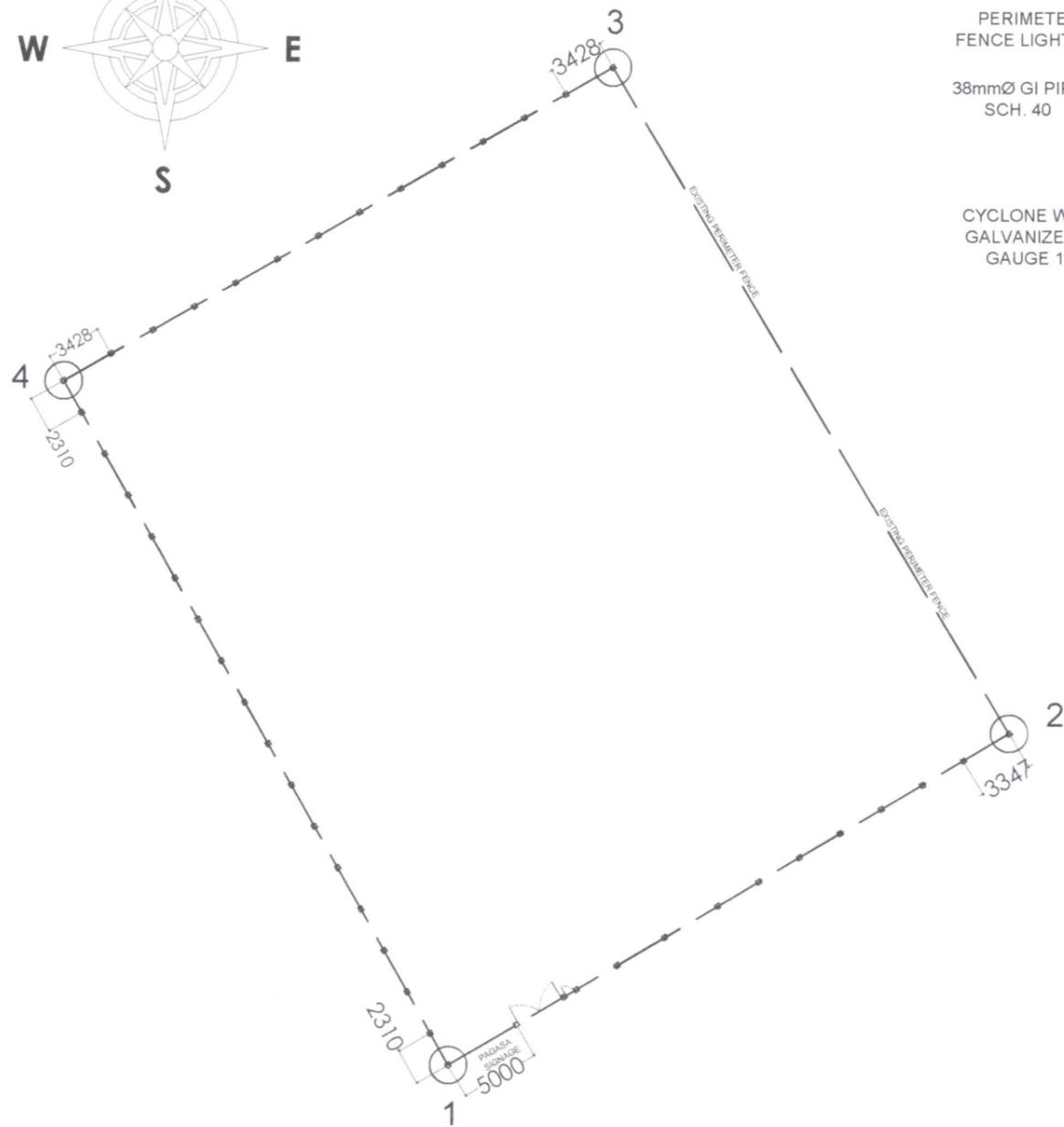
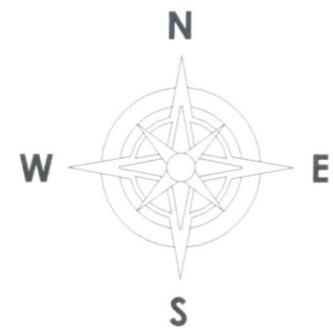
S 5
3 DETAIL OF F
SCALE: 1:10MM



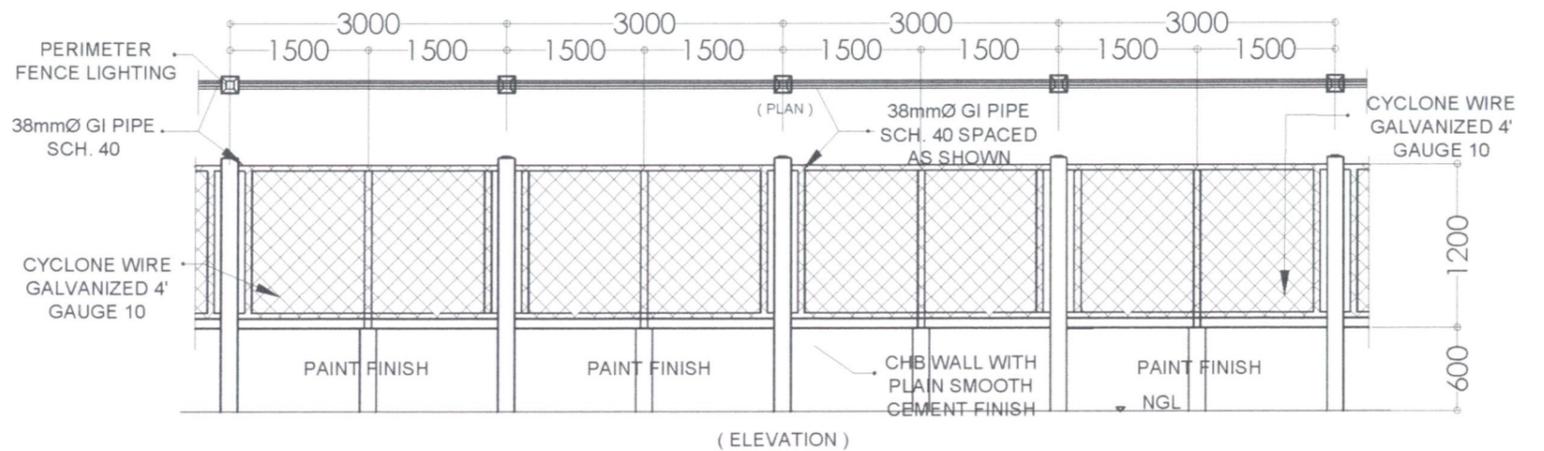
S 5
4 ANCHOR ROD CON. DETAIL
SCALE: 1:10MM



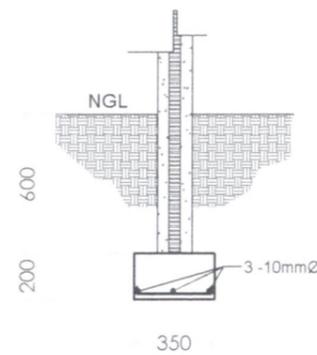
OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Civil Engineer	BRIAN P. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ T. PACIA CHECKED BRIAN BUNGABONG DATE:		S/11
	LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 3-19-24	LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				STRUCTURAL



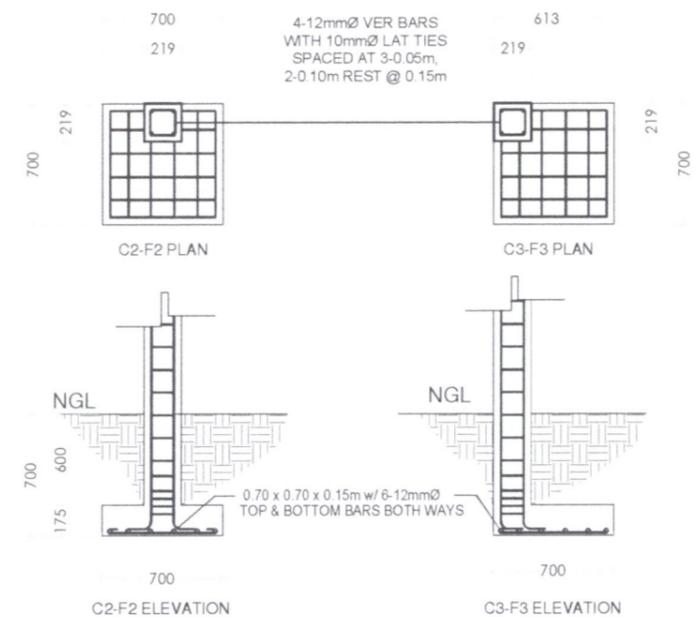
SITE DEVELOPMENT PLAN
SCALE: 1:400MM



PERIMETER FENCE DETAIL
SCALE: 1:30MM



FENCE WALL FOOTING DETAIL
SCALE: 1:30MM



FENCE COLUMN FOOTING DETAIL
SCALE: 1:40MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER
BRIAN P. BUNGABONG
Civil Engineer

ENGINEER
BRIAN P. BUNGABONG
Civil Engineer

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE

LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE

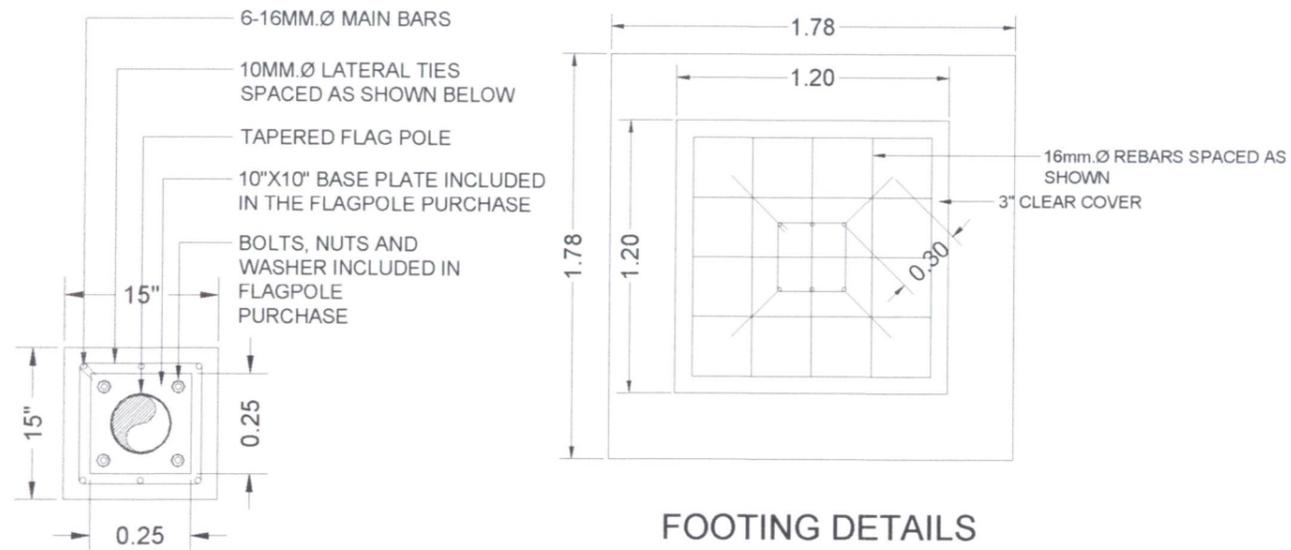
SHEET CONTENT
AS SHOWN

DRAWN BY: R. DEJA CRUZ T. PACIA
CHECKED: BRIAN BUNGABONG
DATE:

REVISIONS

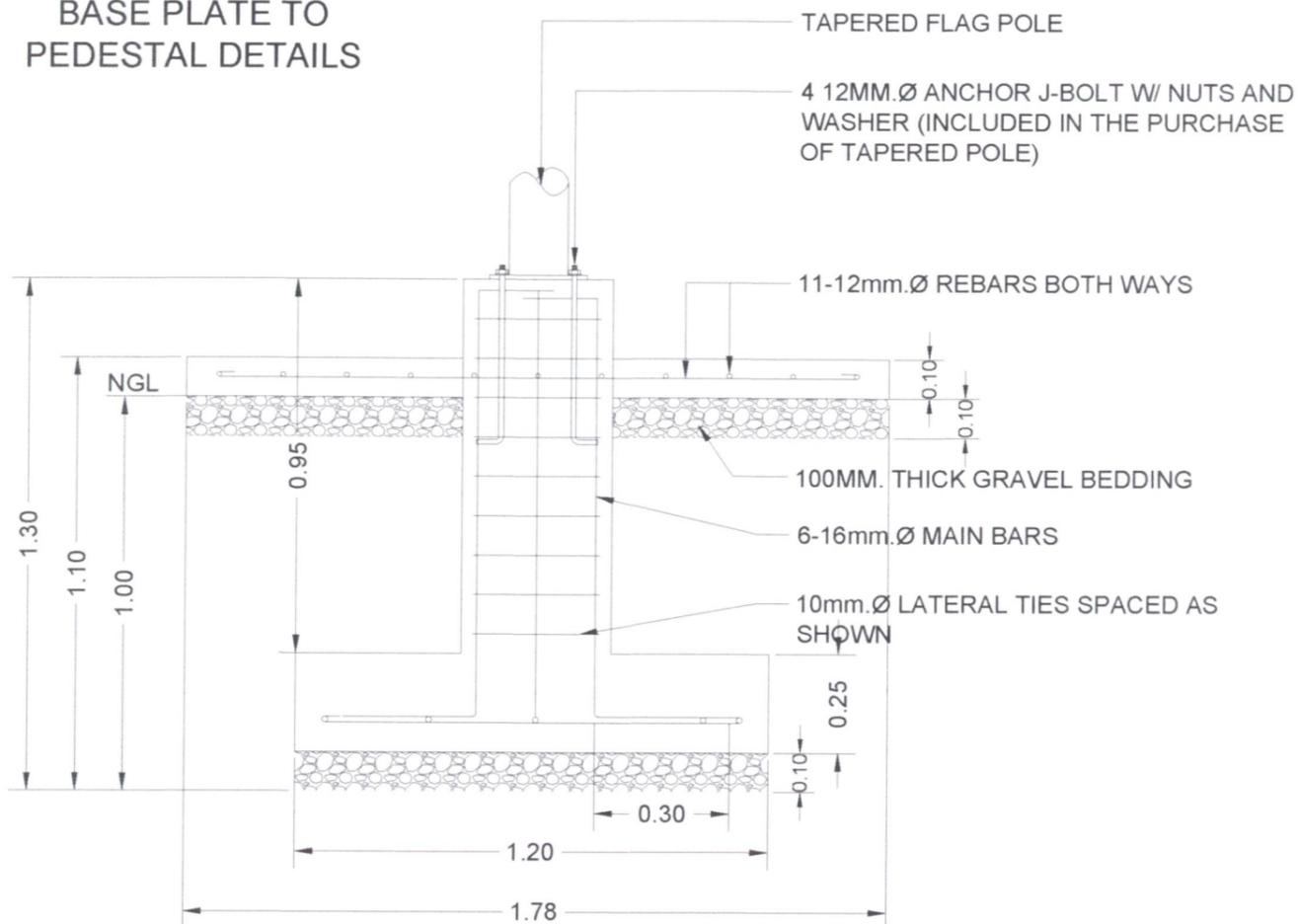
SHEET NO.
S/12
STRUCTURAL

LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 3-19-24
LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 3-19-24

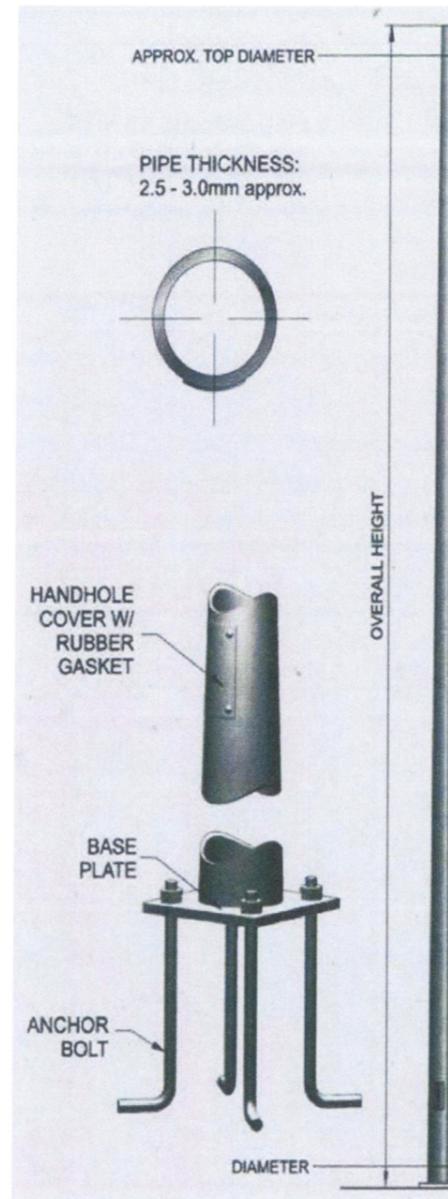


FOOTING DETAILS

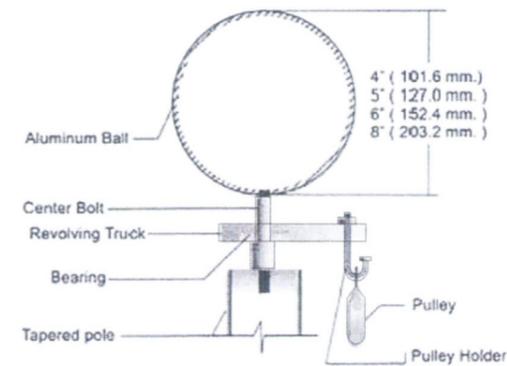
BASE PLATE TO PEDESTAL DETAILS



PEDESTAL & PLATFORM DETAILS



POLE CONNECTION DETAILS



DETAIL A

NOTE:

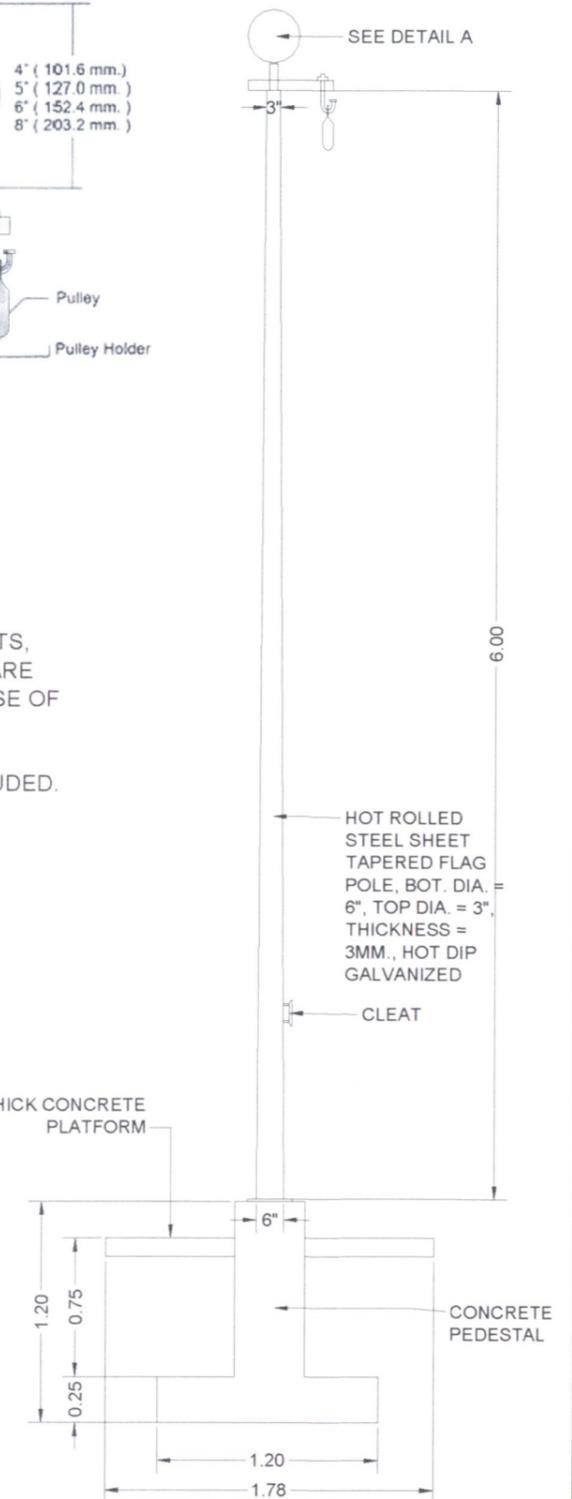
BASE PLATE, ANCHOR BOLTS, PULLEY HOLDER, PULLEY ARE INCLUDED IN THE PURCHASE OF FLAGPOLE.

FLAG AND ROPE NOT INCLUDED.

SPECIFICATIONS:

HOT-DIP GALVANIZED
T = 3.0MM.
TOP Ø = 3"Ø
BOTTOM Ø = 6"Ø

4" THICK CONCRETE PLATFORM



ELEVATION

FLAGPOLE DETAILS
SCALE: NTS

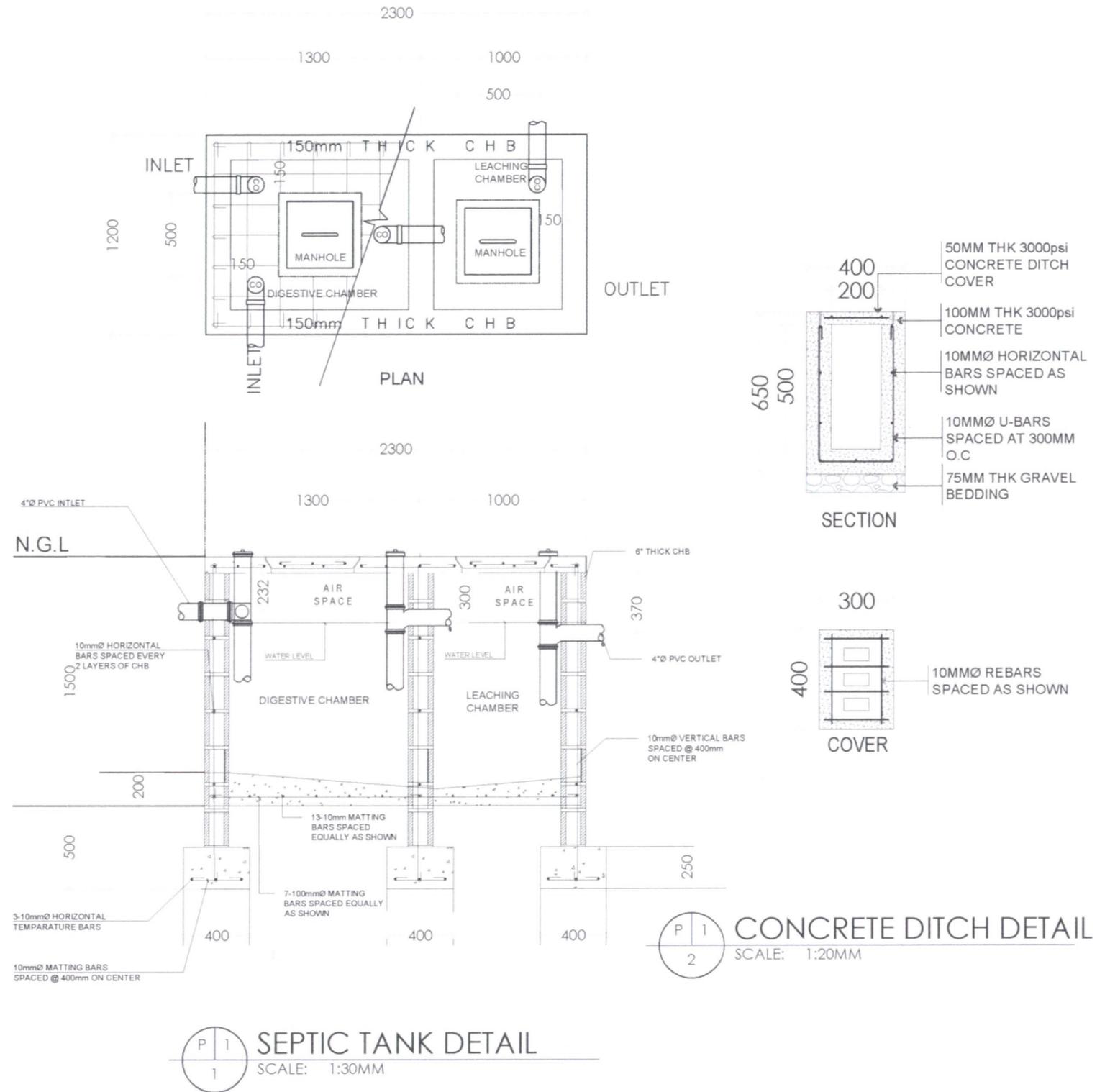
	OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. OFFICER-IN-CHARGE, PAGASA	BRIAN F. BUNGABONG Civil Engineer	BRIAN F. BUNGABONG Civil Engineer	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ, T. PACIA		S/13
						CHECKED BY:		
						BRIAN F. BUNGABONG		
					DATE:			
		LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 7-19-24	LICENSE NO. 0110792 VALID UNTIL 4-10-26 PTR NO. 21487714 DATE ISSUED 7-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				STRUCTURAL

GENERAL PLUMBING NOTES:

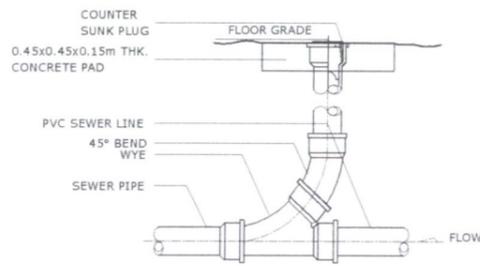
1. RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AND AT A GRADE **NOT LESS THAN TWO PERCENT (2%)**.
2. ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES(45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE ONE EIGHT (1/8) BEND COMBINATION MAY BE USED ON VERTICAL STACKS, AND SHORT QUARTER BENDS MAY BE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES.
3. NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL AND WASTE LINES.
4. THE DRILLINGS AND TAPPING OF HOUSE DRAIN, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
5. PROVIDE CLEAN-OUTS UNDER THE FOLLOWING CONDITIONS:
 - a. EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING TWENTY TWO AND A HALF DEGREES(22.5°).
 - b. ONE AND ONE HALF METERS (1.5m) INSIDE THE PROPERTY LINES BEFORE THE HOUSE DRAINAGE CONNECTION .
 - c. EVERY FIFTEEN METERS (15m) IN HORIZONTAL RUN OF PIPES. AT THE END OF ANY HORIZONTAL PIPE LINES.
6. NOT LESS THAN 0.30 METERS OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE TOP SLAB.
7. NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
8. ALL PLUMBING WORKS SHALL BE DONE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER OR SANITARY ENGINEER.
9. UNLESS NOTED OTHERWISE, ALL WATER SUPPLY PIPES SHALL BE $\varnothing\frac{1}{2}$ " uPVC.
10. UNLESS NOTED OTHERWISE, ALL SANITARY PIPES SHALL BE $\varnothing4$ " uPVC.

LEGENDS:

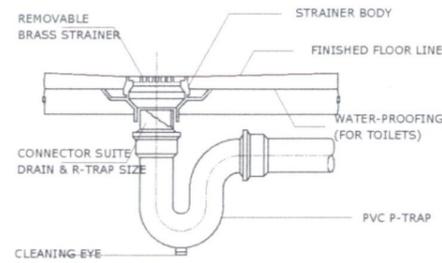
SYMBOL/ABB.	DESCRIPTION	SYMBOL/ABB.	DESCRIPTION
CO	CLEAN OUT	UR	URINAL
DS	DOWN SPOUT	WC	WATER CLOSET
FD	FLOOR DRAIN	VSTR	VENT STACK THRU ROOF
FAU	FAUCET	CV	CHECK VALVE
HB	HOSE BIB		GATE VALVE
KS	KITCHEN SINK	+	ANGLE VALVE
SHO	SHOWER	----	SANITARY/DRAINAGE LINES
LAV	LAVATORY	----	VENT PIPES
		----	WATER LINES



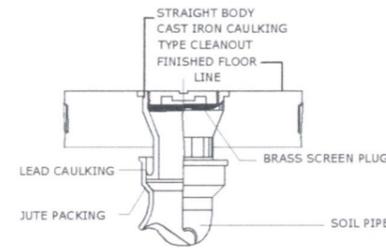
OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Master Plumber	BRIAN P. BUNGABONG Master Plumber	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELA CRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		P/1
	LICENSE NO. 0006723 PTR NO. 21487713A	LICENSE NO. 0006723 PTR NO. 21487713A	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				PLUMBING
	VALID UNTIL: 4-10-25 DATE ISSUED: 3-19-2024	VALID UNTIL: 4-10-25 DATE ISSUED: 3-19-2024					



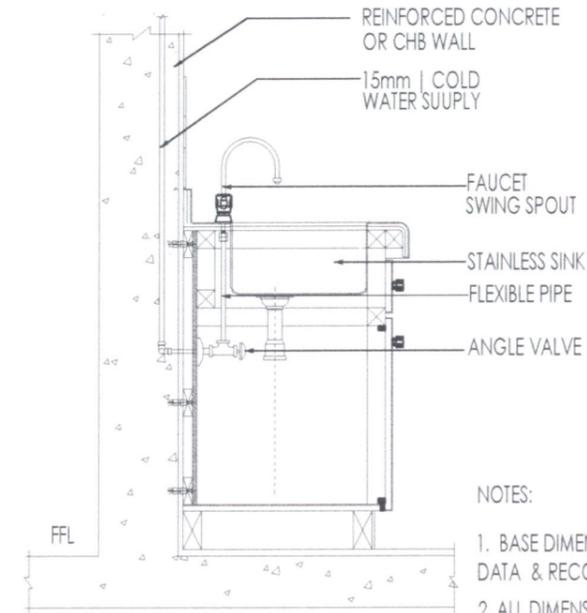
GROUND CLEANOUT DETAIL
SCALE: NTS



FLOOR DRAIN DETAIL
SCALE: NTS

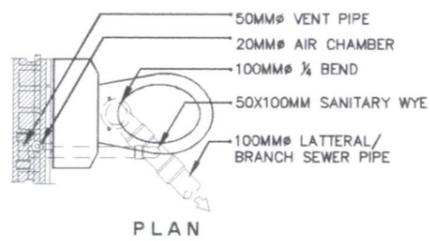


FLOOR CLEANOUT DETAIL
SCALE: NTS

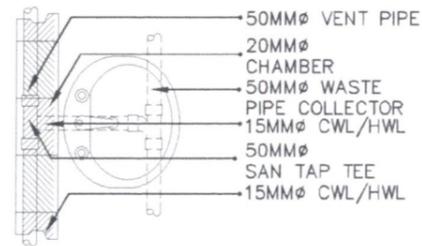


NOTES:
1. BASE DIMENSIONS ON MANUFACTURER'S DATA & RECOMMENDATIONS.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

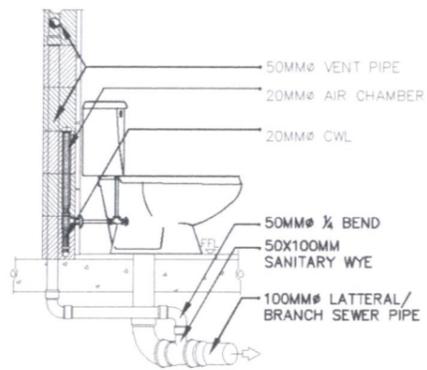
KITCHEN SINK DETAILS
SCALE: 1:30MM



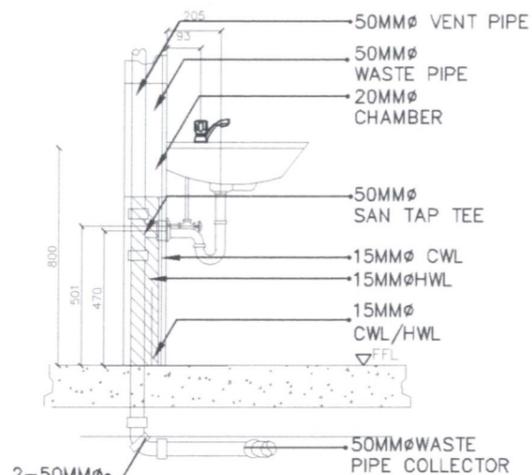
PLAN



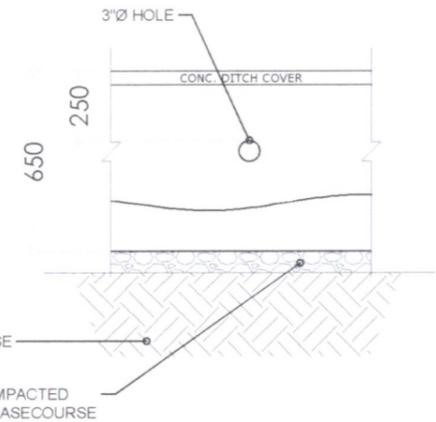
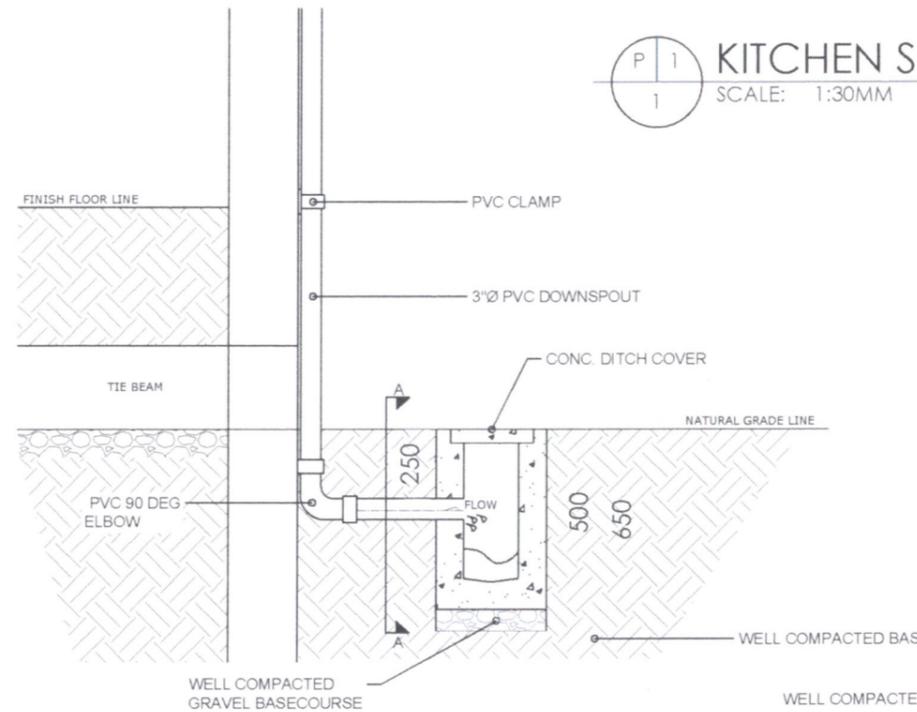
PLAN



SECTION



SECTION



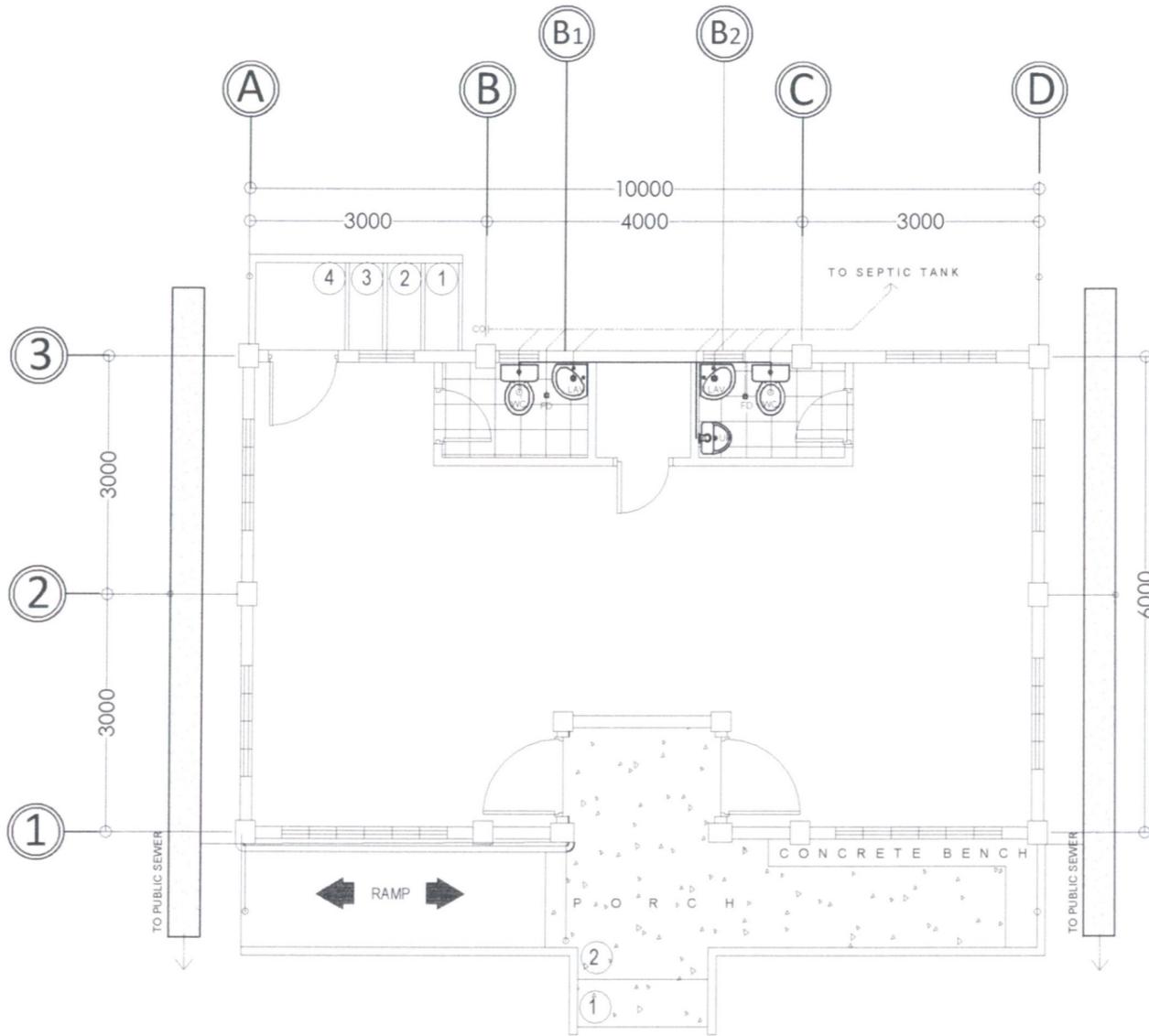
STORM DRAINAGE TO CONCRETE DITCH CONNECTION DETAIL
SCALE: 1:25MM

PIPING ARRANGEMENT FOR WATER CLOSET & LAVATORY
SCALE: 1:25MM

STORM DRAINAGE TO CONCRETE DITCH CONNECTION DETAIL
SCALE: 1:25MM

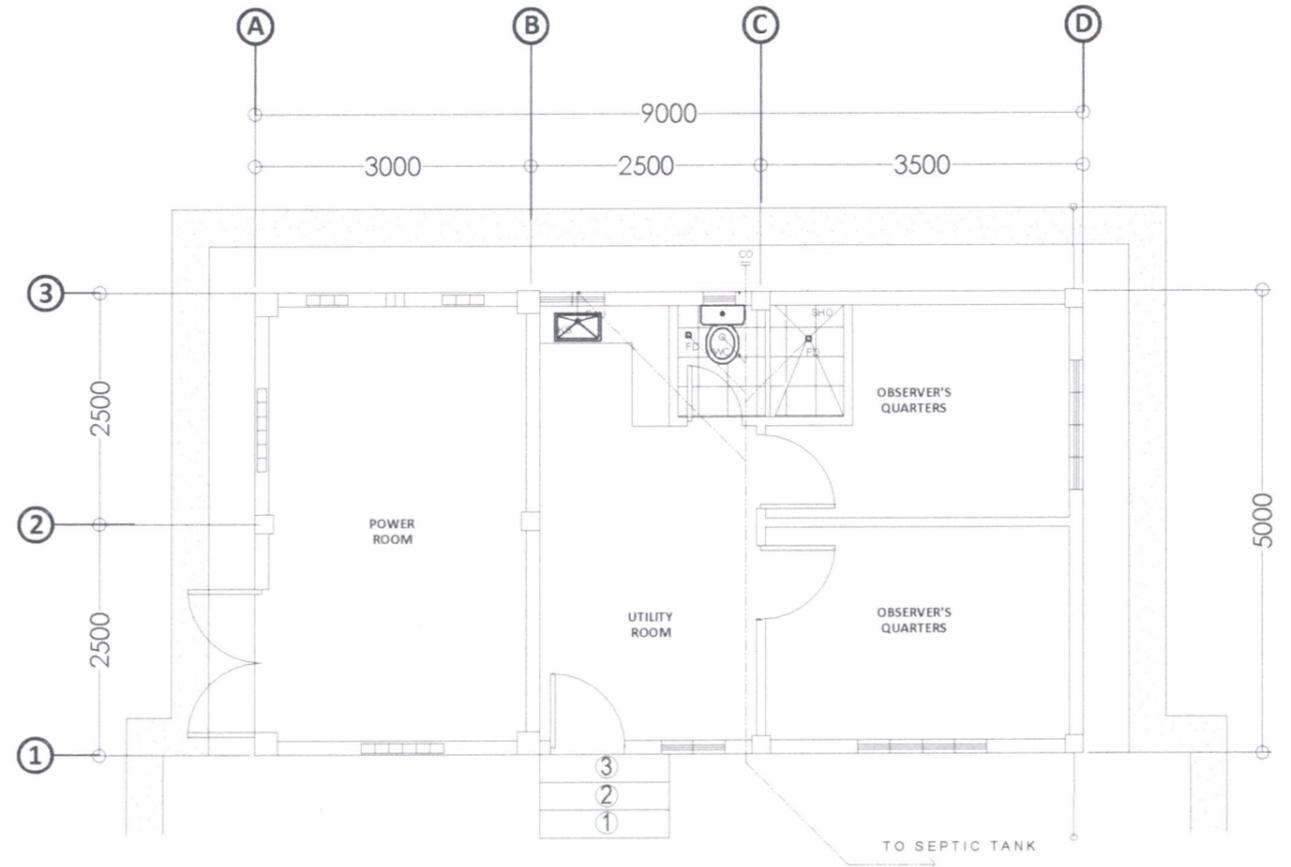
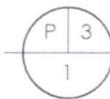


OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	BRIAN P. BUNGABONG Master Plumber	BRIAN P. BUNGABONG Master Plumber	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	AS SHOWN	R. DELACRUZ, T. PACIA CHECKED BRIAN BUNGABONG DATE:		P/2
	LICENSE NO. 0006723 PTR NO. 21487713A	LICENSE NO. 0006723 PTR NO. 21487713A	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE				PLUMBING
	VALID UNTIL 4-10-25 DATE ISSUED 3-19-24	VALID UNTIL 4-10-25 DATE ISSUED 3-19-24					



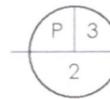
**SYNOPTIC BUILDING
SEWER LINE LAYOUT**

SCALE: 1:80MM

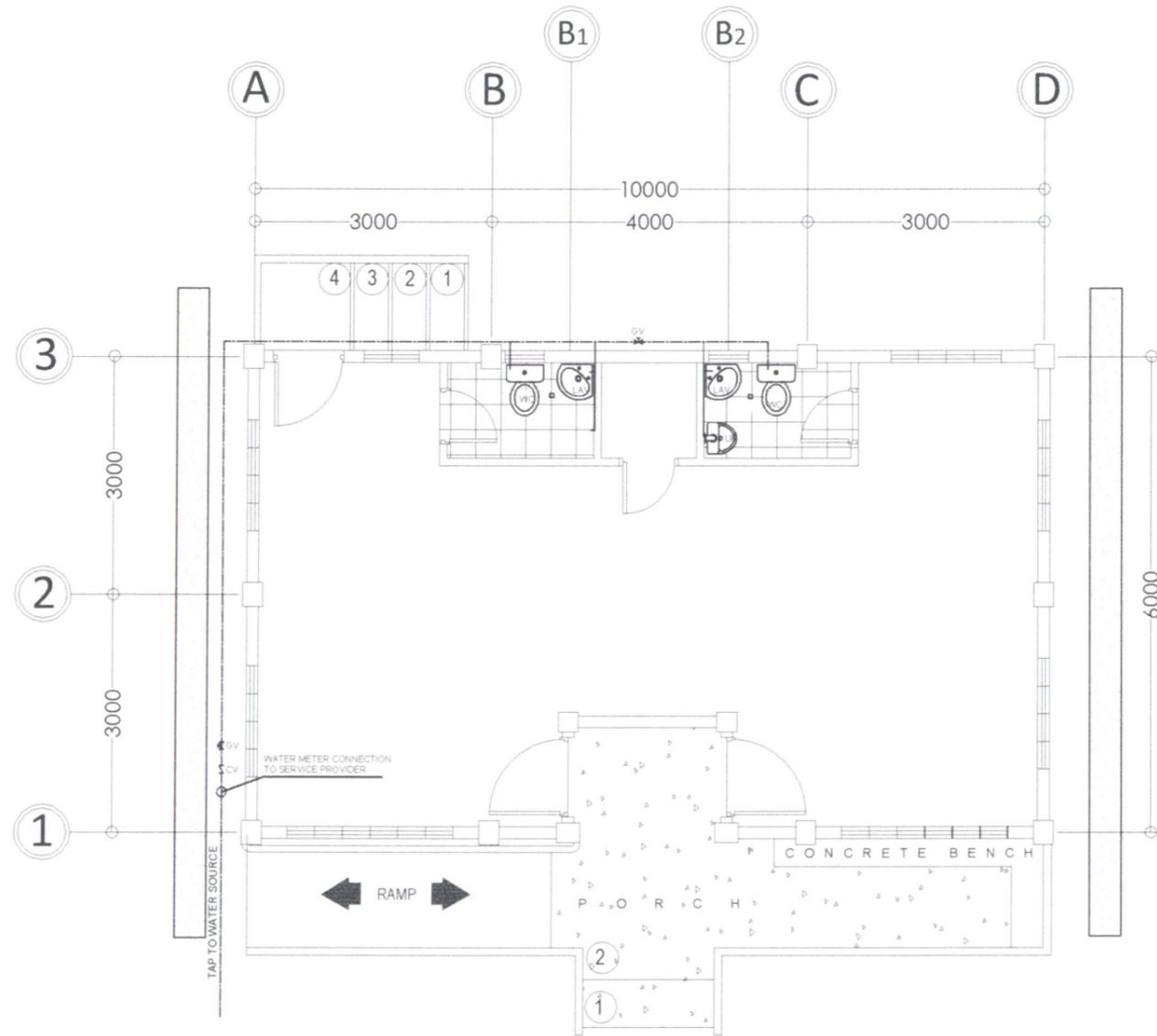


**OBSERVER'S QUARTER & POWERHOUSE
SEWER LINE LAYOUT**

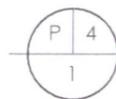
SCALE: 1:75MM



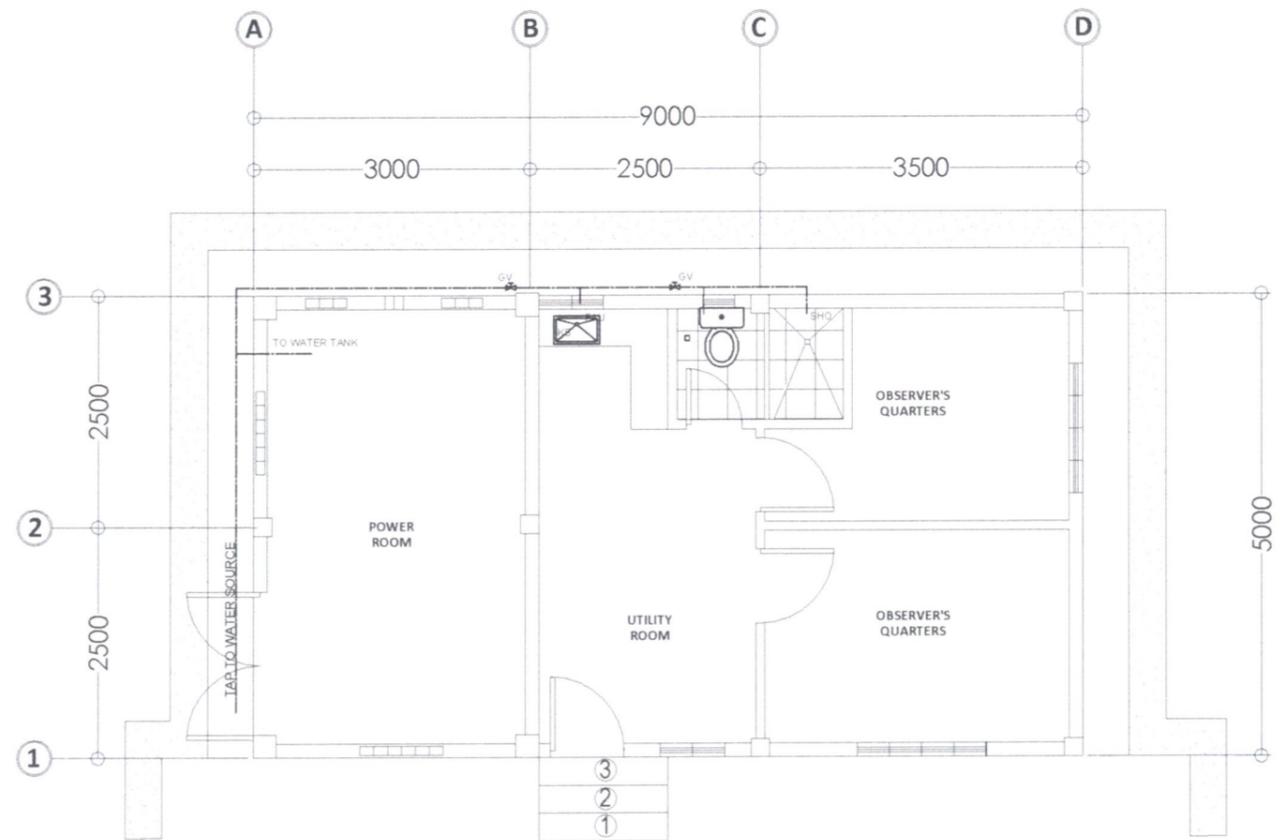
OWNER NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	DESIGNER BRIAN P. BUNGABONG Master Plumber	ENGINEER BRIAN P. BUNGABONG Master Plumber	PROJECT TITLE CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	SHEET CONTENT AS SHOWN	DRAWN BY: R. DELA CRUZ T. PACIA	REVISIONS	SHEET NO. P/3
	LICENSE NO. 0006723 VALID UNTIL 4-10-25 PTR NO. 21487713A DATE ISSUED 3-19-24	LICENSE NO. 0006723 VALID UNTIL 4-10-25 PTR NO. 21487713A DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	CHECKED BY: BRIAN BUNGABONG	DATE:		
PLUMBING							



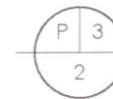
**SYNOPTIC BUILDING
WATER LINE LAYOUT**



SCALE: 1:80MM



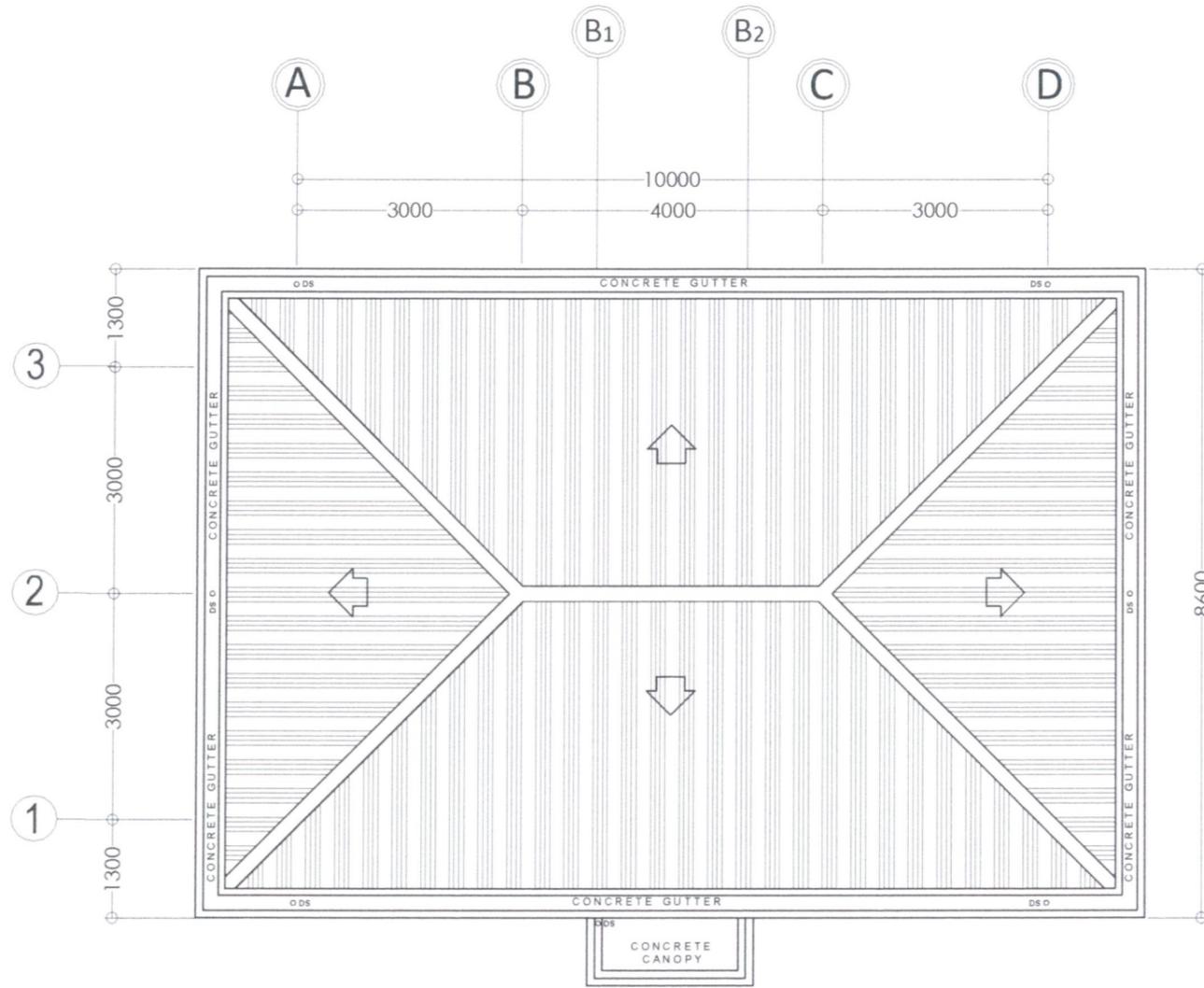
**OBSERVER'S QUARTER & POWERHOUSE
WATER LINE LAYOUT**



SCALE: 1:75MM

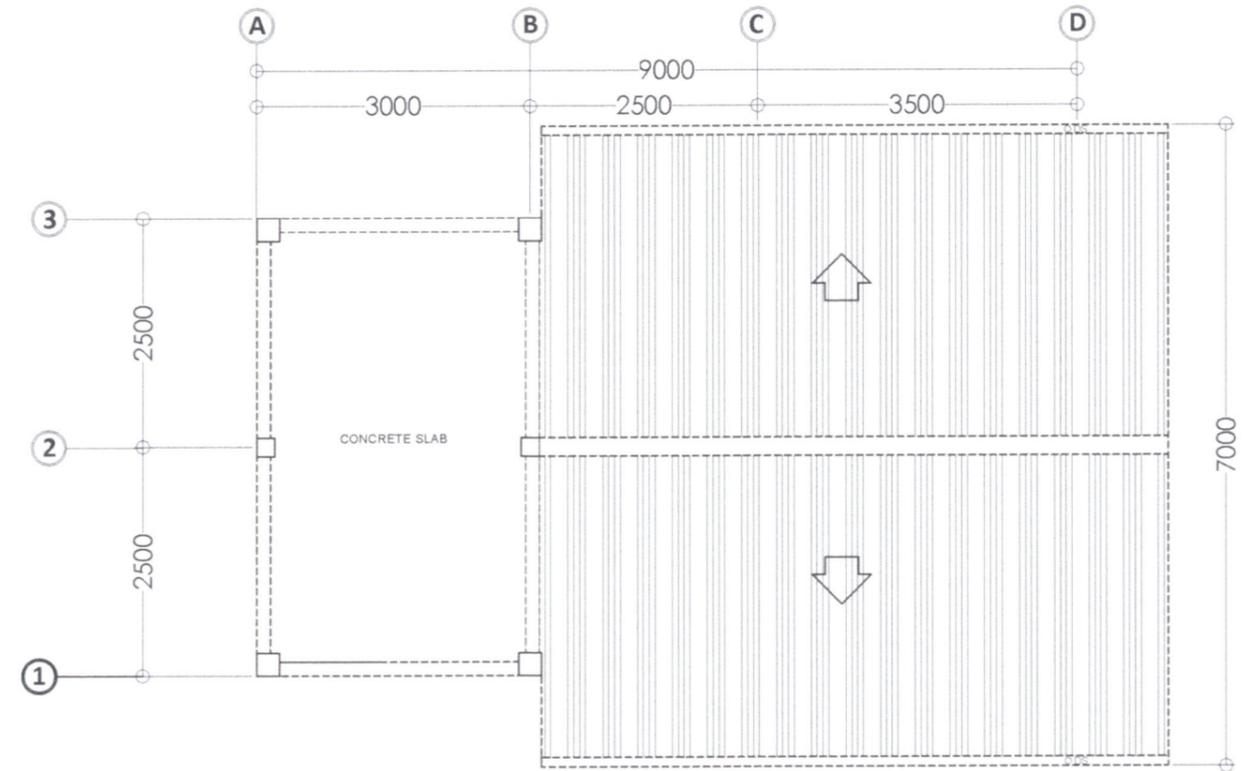
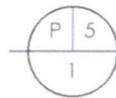


OWNER NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	DESIGNER BRIAN P. BUNGABONG Master Plumber	ENGINEER BRIAN P. BUNGABONG Master Plumber	PROJECT TITLE CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE	SHEET CONTENT AS SHOWN	DRAWN BY: R. DELA CRUZ, T. PACIA	REVISIONS	SHEET NO. P/4
					CHECKED: BRIAN BUNGABONG		
LICENSE NO. 0006723 PTR NO. 21487713A	VALID UNTIL 4-10-25 DATE ISSUED 3-19-24	LICENSE NO. 0006723 PTR NO. 21487713A	VALID UNTIL 4-10-25 DATE ISSUED 3-19-24	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE			



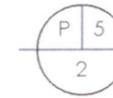
**SYNOPTIC BUILDING
ROOF DRAINAGE PLAN**

SCALE: 1:85MM



**OBSERVER'S QUARTER & POWERHOUSE
ROOF DRAINAGE PLAN**

SCALE: 1:75MM



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

DESIGNER
BRIAN P. BUNGABONG
Master Plumber

ENGINEER
BRIAN P. BUNGABONG
Master Plumber

PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC
STATION BUILDING, OBSERVER'S
QUARTERS, POWERHOUSE,
PERIMETER FENCE, GATE & SIGNAGE

LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN
ROAD, BAYBAY CITY, LEYTE

SHEET CONTENT
AS SHOWN

DRAWN BY:
R. DELACRUZ / T. PACIA

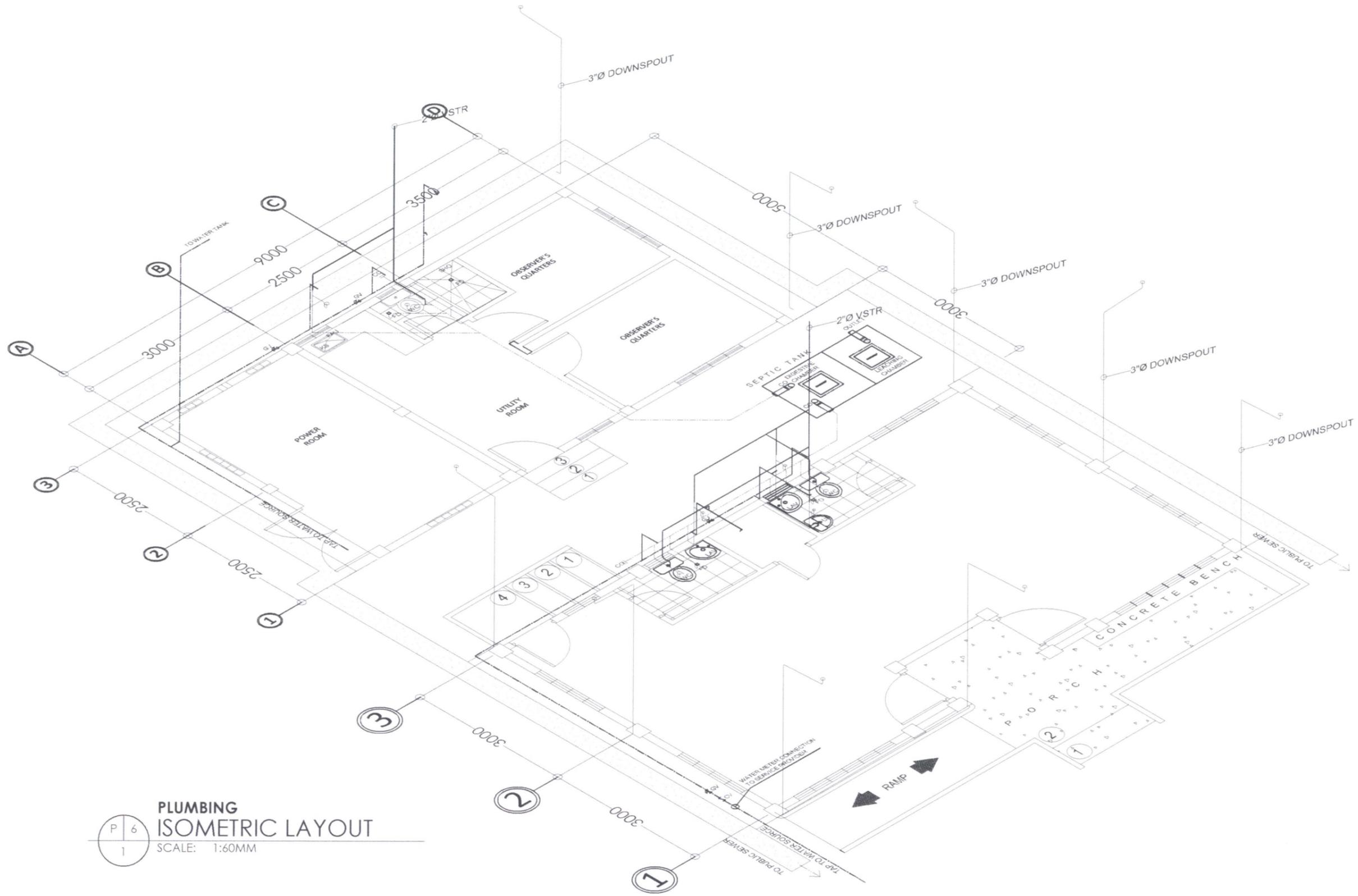
CHECKED:
BRIAN BUNGABONG

DATE:

REVISIONS	SHEET NO.
	P/5
	PLUMBING

LICENSE NO. 0006723 VALID UNTIL 4-10-25
PTR NO. 21487713A DATE ISSUED 3-19-24

LICENSE NO. 0006723 VALID UNTIL 4-10-25
PTR NO. 21487713A DATE ISSUED 3-19-24



PLUMBING ISOMETRIC LAYOUT
 SCALE: 1:60MM



OWNER	DESIGNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY:	REVISIONS	SHEET NO.
 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 BRIAN P. BUNGABONG Master Plumber <small>LICENSE NO. 0006723 VALID UNTIL 4-10-25 PTR NO. 21487713A DATE ISSUED 3-19-24</small>	 BRIAN P. BUNGABONG Master Plumber <small>LICENSE NO. 0006723 VALID UNTIL 4-10-25 PTR NO. 21487713A DATE ISSUED 3-19-24</small>	CONSTRUCTION OF PAGASA SYNOPTIC STATION BUILDING, OBSERVER'S QUARTERS, POWERHOUSE, PERIMETER FENCE, GATE & SIGNAGE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	AS SHOWN	 R. DELA CRUZ T. PACIA CHECKED:  BRIAN BUNGABONG DATE:		P/6 PLUMBING

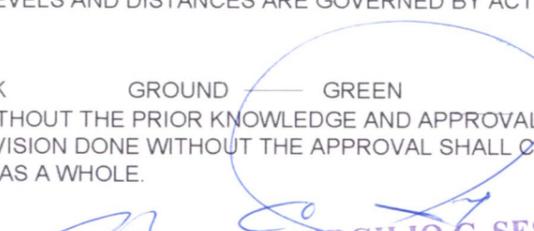
GENERAL NOTES AND SPECIFICATIONS

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE RULE AND REGULATION OF MORESCO AND LOCAL AUTHORITIES.
2. WIRING METHOD SHALL BE AS FOLLOWS:
 - a. ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE POLYVINYL CHLORIDE CONDUIT (PVC) AND ALL EXPOSED CONDUIT SHALL BE ELECTRICAL METALLIC CONDUIT (EMT for indoor and RSC for outdoor).
3. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 - a. LIGHT SWITCHES _____ 1.30m ABOVE FLOOR FINISH (A.F.F)
 - b. POWER OUTLET _____ 0.30m A.F.F.
 - c. PANELBOARDS _____ 1.50m A.F.F.
4. ALL MATERIALS SHALL BE NEW AND APPROVED TYPE FOR THE PURPOSED INTENDED.
5. ALL CONDUCTORS SHALL BE COPPER WIRE TYPE 600 VOLTS INSULATION, PHELPS DODGE.
6. PROVIDE EFFECTIVE AND ADEQUATE GROUNDS.
7. ALL ELECTRICAL WORKS IS UNDER THE PROVISION OF REGISTERED MASTER ELECTRICIAN OR REGISTERED ELECTRICAL ENGINEER.
8. MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5mm² THHN AND 15mmØ NOMINAL DIAMETER RESPECTIVELY. OTHERWISE SPECIFIED ON PLANS.
9. UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
10. FOR EACH SPARE CIRCUIT IN PANEL BOARD, PROVIDE AN EMPTY CONDUIT SPECIFIED IN THE PLAN TERMINATING TO A COVERED SQUARE BOX.
11. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.
12. ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED. GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER.
13. THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
14. ADDITIONAL MATERIALS SPECIFICATIONS:
 - a. POLYVINYL CHLORIDE (PVC) _____ CROWN PIPES
 - b. WIRES AND CABLES _____ PHELPS DODGE
 - c. CIRCUIT BREAKER _____ SCHNEIDER ELECTRIC
 - d. WIRING DEVICES _____ NATIONAL / PANASONIC
15. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER. EACH PANEL WILL BE PROVIDED WITH A TYPEWRITTEN CIRCUIT DIRECTORY.
16. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DESCRIPTION OF THE PROJECT AND NOT NECESSARY INDICATE, DESCRIBED ACTUAL LOCATION LEVELS AND DISTANCES OF EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
17. WIRES SHALL BE COLOR CODED:

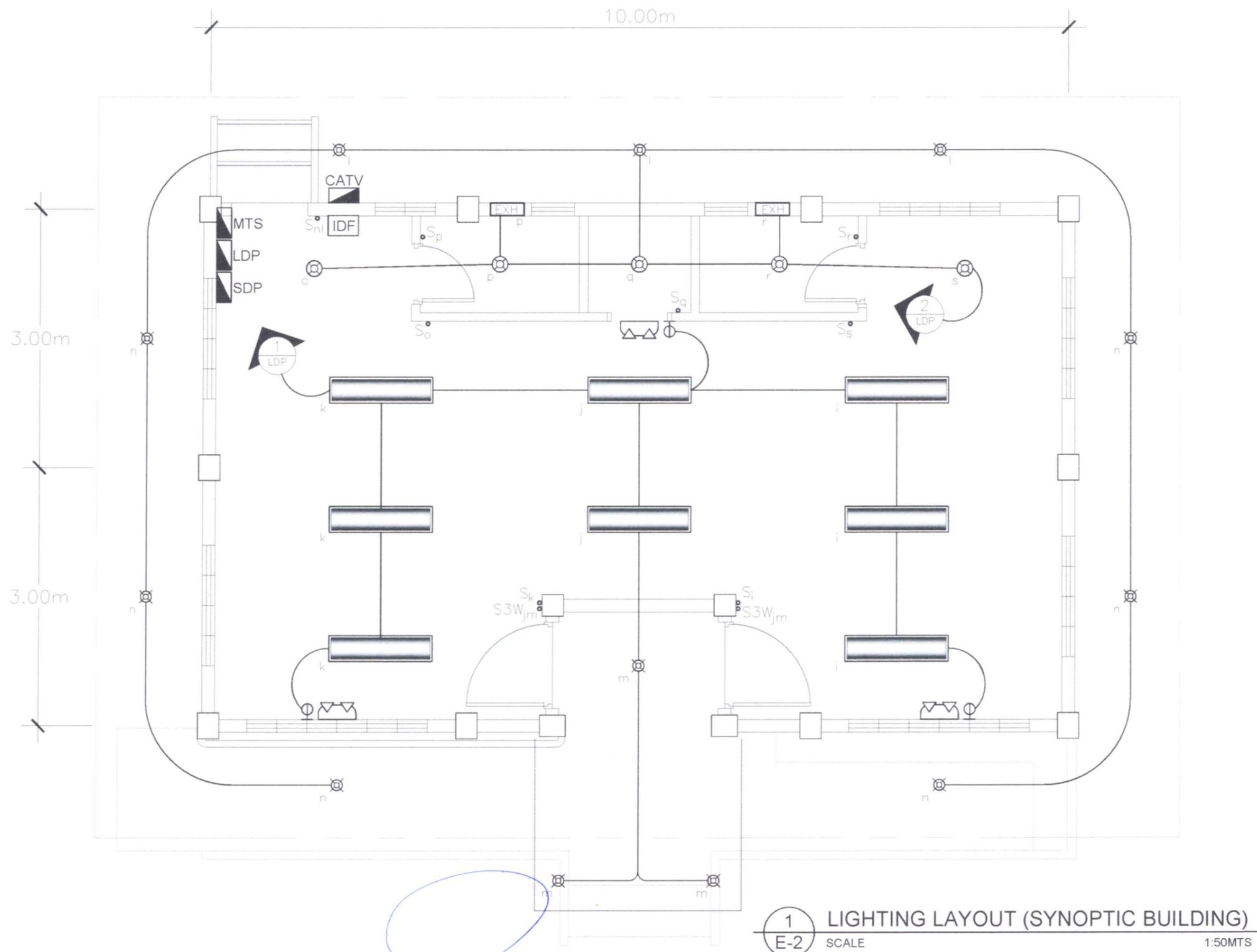
LINE 1 — BLACK LINE 2 — BLACK GROUND — GREEN
18. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASED AS A WHOLE.

LEGEND:

- SURFACE MOUNTED LED PANEL
1200MM x 300MM W/ DRIVER
- VERTICAL DOWNLIGHT FIXTURE SURFACE TYPE 6" W/ 9W LED BULB (3500K COLOR TEMP.)
- VERTICAL DOWNLIGHT FIXTURE RECESSED TYPE 6" (6000K COLOR TEMP.)
- RECTANGULAR 2 BULBS, UPSIDE DOWN, WALL LAMP LIGHTING FIXTURE
- WATERPROOF FLOODLIGHT/SPOTLIGHT
- POST LAMP WITH ALUMINUM CAGE & BASE
- 1 GANG 1WAY SWITCH
- 2 GANG 1WAY SWITCH
- 3 GANG 1WAY SWITCH
- DUPLEX 3 WAY SWITCH
- SIMPLEX UNIVERSAL OUTLET
- DUPLEX UNIVERSAL OUTLET
- WEATHER PROOF UNIVERSAL OUTLET
- FLOOR/PDP-UP DUPLEX CONVENIENCE OUTLET
- WATER PUMP DEDICATED OUTLET
- AIRCONDITIONING SPECIAL OUTLET
- WIRELESS N CEILING MOUNT ACCESS POINT
- SINGLE DATA LAN OUTLET
- DUPLEX DATA LAN OUTLET
- LAN AND COAXIAL OUTLET
- SINGLE COAXIAL OUTLET
- IP DOME CAMERA, POE READY
- LED EMERGENCY LIGHT
- WALL TYPE EXHAUST
- CIRCUIT HOME RUN
- MDP MAIN DISTRIBUTION PANEL
- ATS AUTOMATIC TRANSFER SWITCH
- MTS MANUAL TRANSFER SWITCH
- EDP EMERGENCY DISTRIBUTION PANEL BOARD
- SDP SYNOPTIC BUILDING DISTRIBUTION PANEL BOARD
- LDP LIGHTING LOADS DISTRIBUTION PANEL BOARD
- IDF INTERMEDIATE DISTRIBUTION FRAME
- CATV COMMUNITY ANTENNA TELEVISION
- KILOWATT-HOUR METER
- GROUND (EARTH)
- AIR TERMINAL ROD
- CHEMICAL GROUNDING ROD W/ EARTH PIT
- GROUND ROD WITH EARTH PIT
- GROUNDING BUS BAR
- GROUNDING ROD (EXOTHERMIC WELDED TO CABLE)
- EXOTHERMIC WELD/CONNECTION

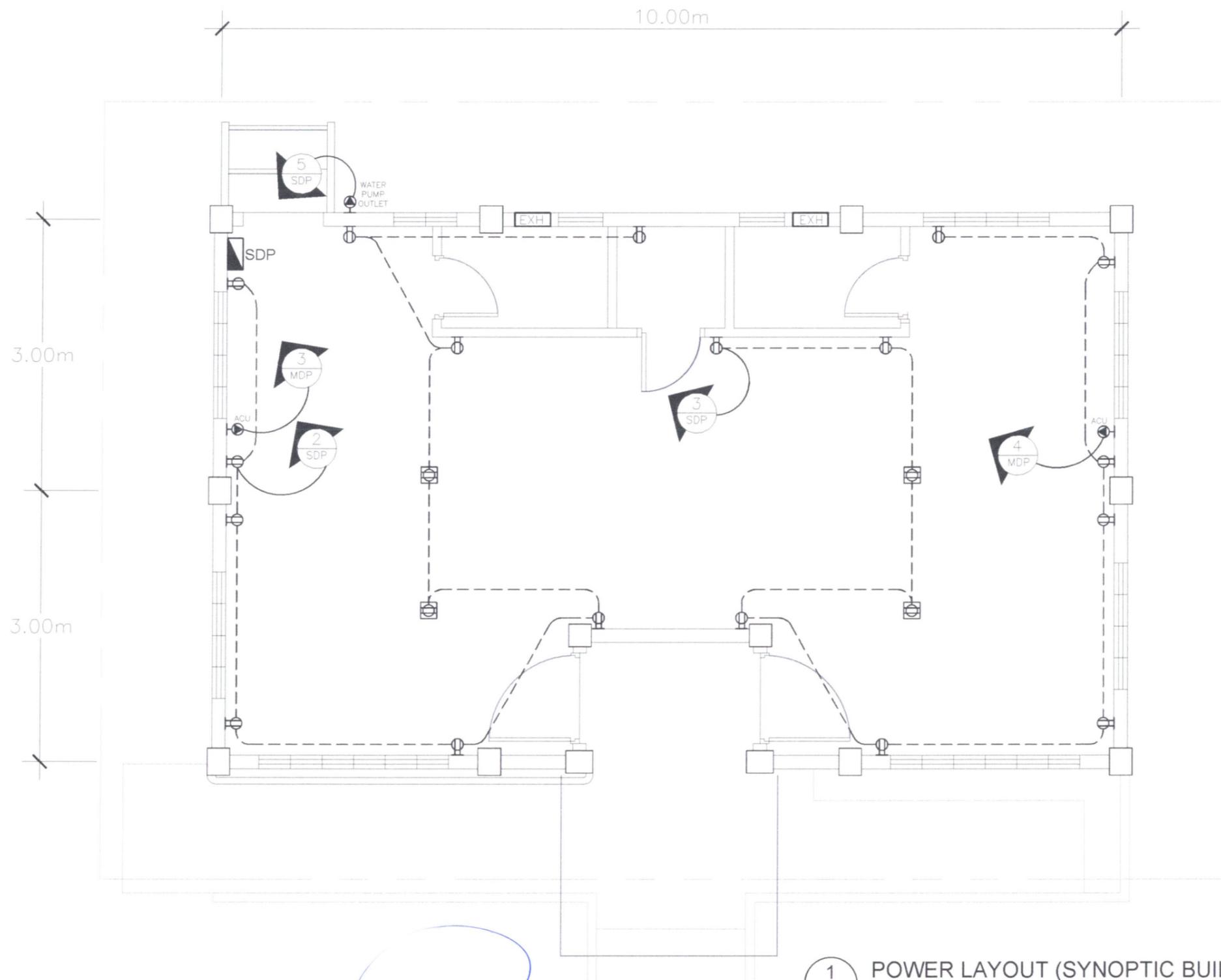

ENGR. VIRGILIO C. SESE
 PROF. ELECTRICAL ENGR. 2-76-24
 PRC REG. NO. 01452/10-10-1980
 VALID UNTIL 11-27-2026
 PTR 5452324D/01-02-2024/Q
 TIN 106-454-406

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.	
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEJES, ETS-D	VALID UNTIL 11-27-2026 PTR 5452324D/01-02-2024/Q TIN 106-454-406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	GENERAL SPECIFICATIONS LEGEND	ARIEL N. GALLEGO JR. CHECKED BY:	DATE:	DATE:	E/1
	LICENSE NO. 0057269 PTR NO.	VALID UNTIL 01/13/2025 DATE ISSUED	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	DATE:	DATE:	DATE:	ELECTRICAL



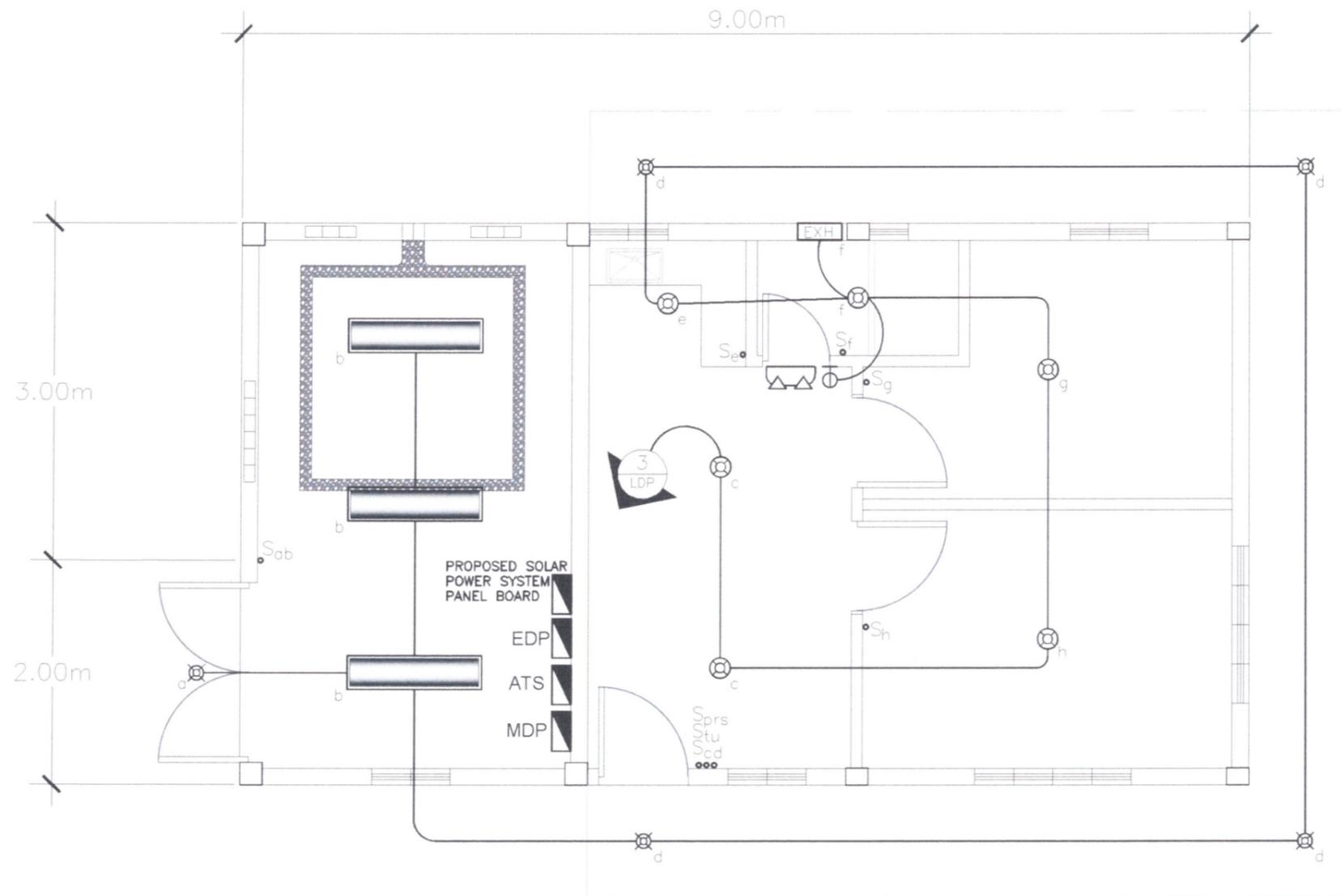
1 LIGHTING LAYOUT (SYNOPTIC BUILDING)
 E-2 SCALE 1:50MTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEI&Z, ETSD	 ENGR. VIRGILIO C. SESE PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 545232/D/01-02-2024/Q	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	LIGHTING LAYOUT OF SYNOPTIC BUILDING	 ARIEL N. GALLEGO JR. CHECKED BY:	DATE:	DATE:



1 POWER LAYOUT (SYNOPTIC BUILDING)
 E-3 SCALE 1:50MTS

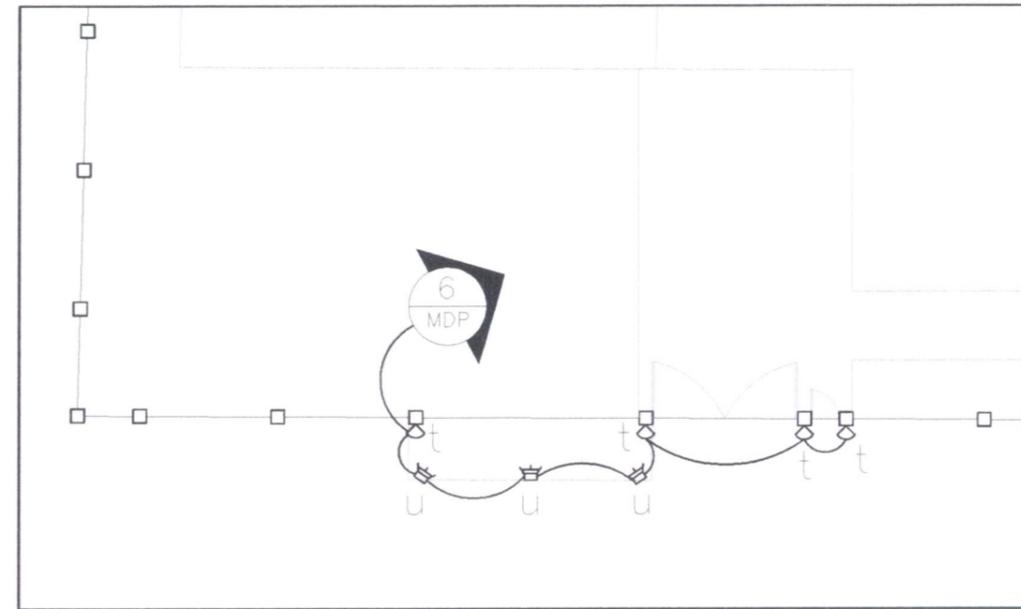
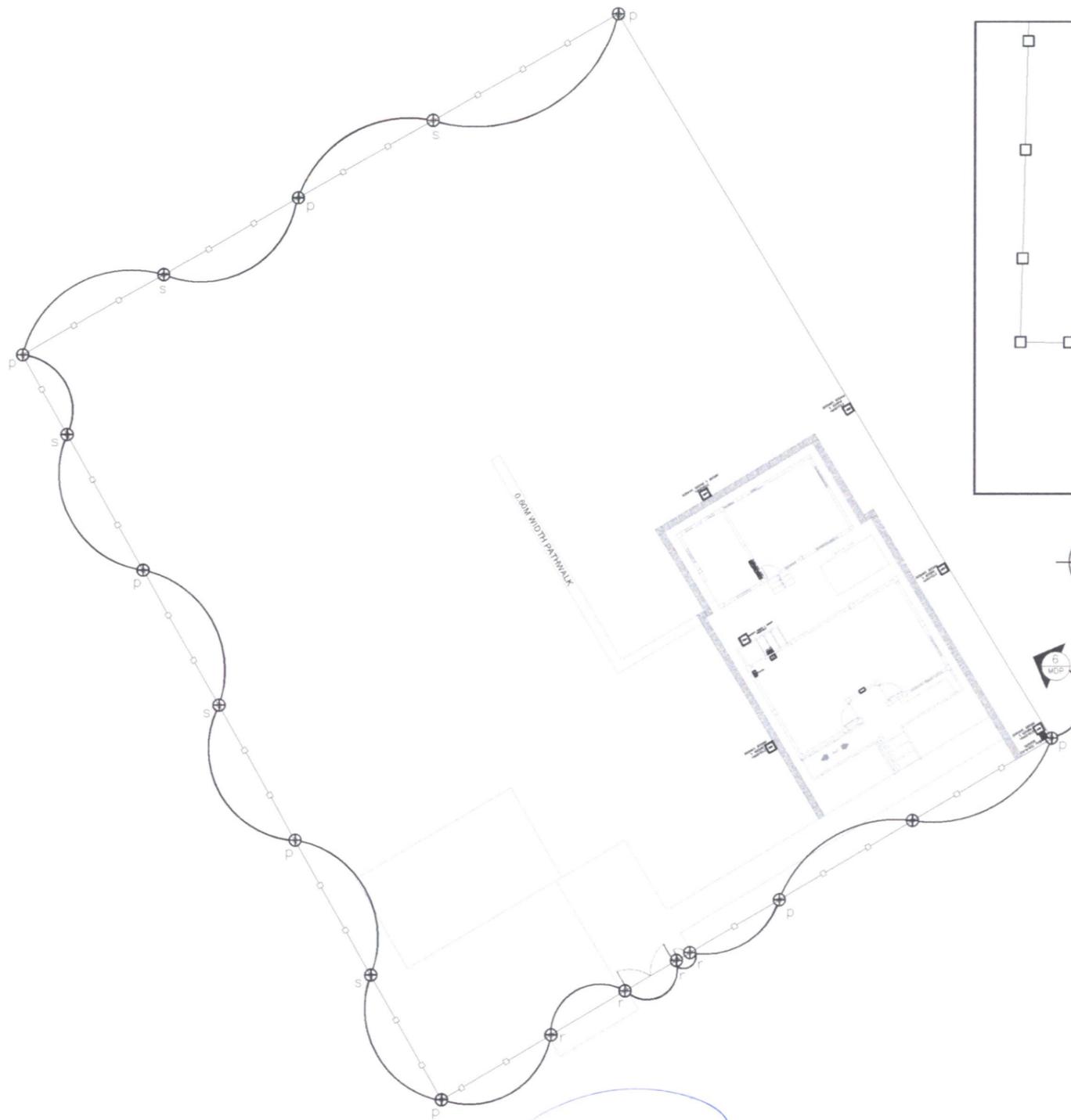
	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.	
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEJES, ETSO	 ENGR. VIRGILIO C. SESE PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01 02 2024/Q.C TIN 106434306	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	POWER LAYOUT OF SYNOPTIC BUILDING	 ARIEL N. GALLEGO JR. CHECKED BY:	DATE:		E/3 ELECTRICAL
							DATE:		



1 LIGHTING LAYOUT (OBSERVER'S QUARTERS)
 E-4 SCALE 1:50MTS

Handwritten signature and date: 2-26-24

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEISS, ETSO	 ENGR. VIRGILIO C. SES, PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C TIN 106-434-406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	LIGHTING LAYOUT OF OBSERVER'S QUARTERS	 ARIEL N. GALLEGO JR. CHECKED BY: DATE:	DATE: DATE:	DATE: DATE:



2 LIGHTING LAYOUT (SIGNAGE AND COLUMNS)
E-5 SCALE NTS

1 LIGHTING LAYOUT (PERIMETER FENCE)
E-5 SCALE NTS

2-26-24



OWNER
NATHANIEL T. SERVANDO, Ph.D.
ADMINISTRATOR

ENGINEER
ARIEL N. GALLEGU JR.
WFS-I, MEMU, MEIES, ETSD
LICENSE NO. 0057269
VALID UNTIL 01/13/2025
PTR NO. DATE ISSUED

ENGINEER
ENGR. VIRGILIO C. SESE
PROF. ELECTRICAL ENGR.
PRC REG. NO. 01452/10-10-1980
VALID UNTIL - 11-27-2026
PTR 5452324D/01-02-2024/Q.C.
LICENSE NO. TIN 106-454-406
PTR NO. DATE ISSUED

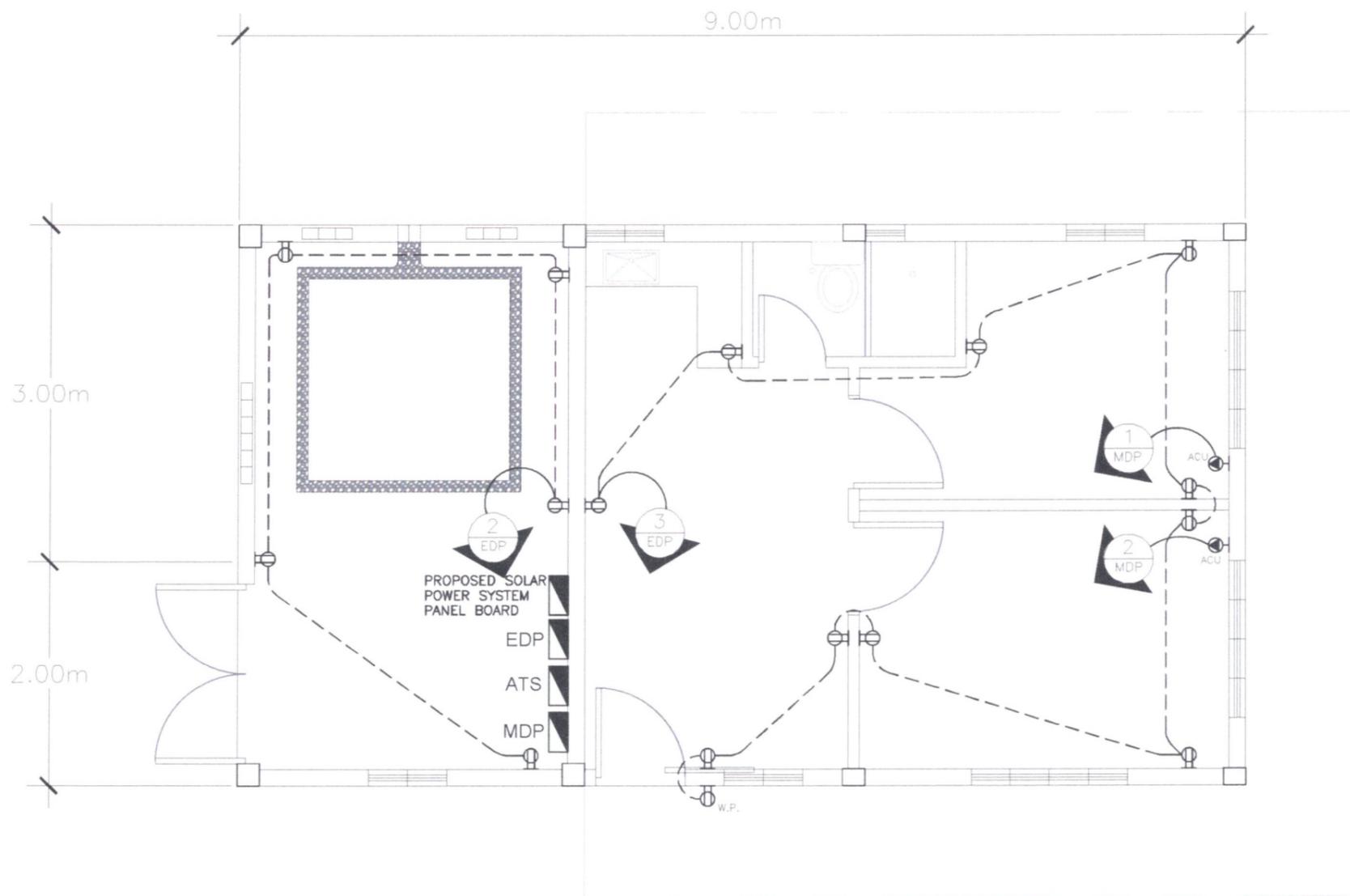
PROJECT TITLE
CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE
LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE

SHEET CONTENT
LIGHTING LAYOUT OF PERIMETER FENCE AND SIGNAGE

DRAWN BY
ARIEL N. GALLEGU JR.
CHECKED BY:
DATE:

REVISIONS	
DATE	

SHEET NO.
E/5
ELECTRICAL



1 POWER LAYOUT (OBSERVER'S QUARTERS)
 E-6 SCALE 1:50MTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEIES, ETSO	 ENGR. VIRGILIO C. SES PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C TIN 106451406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	POWER LAYOUT OF OBSERVER'S QUARTERS	 ARIEL N. GALLEGO JR. CHECKED BY: DATE:	DATE: DATE:	E/6 ELECTRICAL

PANEL: MDP		MAIN: 100AT CB, 2P, 240VAC, 60HZ, 30KAIC, MOLDED CASE CIRCUIT BREAKER, bolt-on															
MOUNTING: SURFACE TYPE		BRANCHES: MCCB & MINIATURE CIRCUIT BREAKERS, 2 POLES, 240VAC, 60HZ, 10KAIC, bolt-on															
ENCLOSURE: NEMA 1		FEEDER: 2-50mm ² + 1-22mm ² (G) THHN WIRE															
LOCATION: GENERATOR ROOM		CONDUIT: 50MMØ RSC & PVC PIPE															
CKT. NO.	DESCRIPTION	SWITCHES				L.O.	C.O.	I	V	VA	WIRE SIZE (THHN)	PIPE (PVC)	CB RATING			LOADS	LOCATION
		S ₁	S ₂	S ₃	S _{3W}								AT	P	KAIC		
1	EDP	11	2	0	4	43	40	65.45	220	12080	2-14mm ² + 1-5.5mm ² (G)	32Ø	60	2	30, MCCB	EDP	GEN SET ROOM
2	1/2HP WINDOW TYPE ACU						1	4.90	220	1078	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	30	2	10, MINI	1/2 HP ACU	OBSERVER'S ROOM
3	1/2HP WINDOW TYPE ACU						1	4.90	220	1078	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	30	2	10, MINI	1/2 HP ACU	OBSERVER'S ROOM
4	2HP WINDOW TYPE						1	12.00	220	2640	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	30	2	10, MINI	2HP ACU	OFFICE AREA
5	2HP WINDOW TYPE						1	12.00	220	2640	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	30	2	10, MINI	2HP ACU	OFFICE AREA
6	PERIMETER FENCE & SINAGE							2.27	220	500	N/A	20Ø	20	2	10, MINI	N/A	GEN SET ROOM
7	SPARE							6.82	220	1500	N/A	20Ø	20	2	10, MINI	N/A	GEN SET ROOM
8	SPARE							6.82	220	1500	N/A	20Ø	20	2	10, MINI	N/A	GEN SET ROOM
TOTAL		11	2	0	4	43	44	115.16	220	23016	2-50mm² + 1-22mm² (G)	50Ø	100	2	30	N/A	GEN SET ROOM
<p>$I_{total} = 115.16A \times 70\%D.F. = 80.61A$</p> <p>Feeder Size: $I_{total} = 80.61A + 25\%(12A) = 83.61A$ PROVIDE: 2-50mm² + 1-22mm² (G) THHN Wire @50mmØ PVC Pipe</p> <p>Circuit Breaker Size: $I_{total} = 80.61A - 12A + 250\%(12A) = 98.61A$ PROVIDE: 100AT CB, 30KAIC, 2P, 240VAC, 60HZ, MOLDED CASE CIRCUIT BREAKER</p>																	

PANEL: EDP		MAIN: 60AT CB, 2P, 240VAC, 60HZ, 30KAIC, MOLDED CASE CIRCUIT BREAKER, bolt-on															
MOUNTING: SURFACE TYPE		BRANCHES: MINIATURE CIRCUIT BREAKERS, 2 POLES, 240VAC, 60HZ, 10KAIC, bolt-on															
ENCLOSURE: NEMA 1		FEEDER: 2-14mm ² + 1-5.5mm ² (G) THHN WIRE															
LOCATION: GEN. SET ROOM		CONDUIT: 32MMØ PVC PIPE															
CKT. NO.	DESCRIPTION	SWITCHES				L.O.	C.O.	I	V	VA	WIRE SIZE (THHN)	PIPE (PVC)	CB RATING			LOADS	LOCATION
		S ₁	S ₂	S ₃	S _{3W}								AT	P	KAIC		
1	SDP	11	2	0	4	43	24	52.36	220	9200	2-8.0mm ² + 1-3.5mm ² (G)	20Ø	50	2	10	SYNOPTIC BUILDING LOADS	SYNOPTIC BUILDING
2	POWER OUTLET						5	4.09	220	900	2-3.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	5-CONVENIENCE OUTLETS	OBSERVER'S QUARTER
3	POWER OUTLET						11	9.00	220	1980	2-3.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	11-CONVENIENCE OUTLETS	OBSERVER'S QUARTER
TOTAL		11	2	0	4	43	40	65.45	220	12080	2-14mm² + 1-5.5mm² (G)	32Ø	60	2	30	N/A	GEN. SET ROOM
<p>$I_{total} = 65.45A \times 70\%D.F. = 45.82A$</p> <p>Feeder Size: $I_{total} = 45.82A + 25\%(4.9A) = 47.82A$ PROVIDE: 2-14mm² + 1-5.5mm² (G) THHN Wire @32mmØ PVC Pipe</p> <p>Circuit Breaker Size: $I_{total} = 45.82A - 8A + 250\%(8A) = 57.82A$ PROVIDE: 60AT CB, 30KAIC, 2P, 240VAC, 60HZ, MOLDED CASE CIRCUIT BREAKER</p>																	

2-26-24
ENGR. VIRGILIO C. SESE

	OWNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. <small>WFS-I, MEMU, MEIES, ETSO</small>	PROE ELECTRICAL ENGR. <small>ENGINEER</small> <small>PRC REG. NO. 01452/10-10-1980</small> <small>VALID UNTIL - 11-27-2026</small> <small>PTR 5452324D/01-02-2024/Q.C</small> <small>TIN 106-454-406</small>	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	SCHEDULE OF LOADS	ARIEL N. GALLEGO JR.	DATE:
			LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE		CHECKED BY:		ELECTRICAL

PANEL:	SDP	MAIN:	50AT CB, 2P, 240VAC, 60HZ, 10KAIC, MINIATURE CIRCUIT BREAKER
MOUNTING:	RECESSED TYPE	BRANCHES:	MINIATURE CIRCUIT BREAKERS, 2 POLES, 240VAC, 60HZ, 10KAIC
ENCLOSURE:	MINIATURE CB ENCLOSURE	FEEDER:	2-8.0mm ² + 1-3.5mm ² (G) THHN WIRE
LOCATION:	SYNOPTIC BUILDING	CONDUIT:	25MMØ PVC PIPE

CKT. NO.	DESCRIPTION	SWITCHES				L.O.	C.O.	I	V	VA	WIRE SIZE (THHN)	PIPE (PVC)	CB RATING			LOADS	LOCATION
		S ₁	S ₂	S ₃	S _{3W}								AT	P	KAIC		
1	LDP	11	2	0	4	43	0	19.55	220	1980	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	43-LIGHTING LOADS	SYNOPTIC BUILDING
2	POWER OUTLET						11	9.00	220	1980	2-3.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	11-CONVENIENCE OUTLETS	OFFICE AREA
3	POWER OUTLET						11	9.00	220	1980	2-3.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	11-CONVENIENCE OUTLETS	OFFICE AREA
4	IDF AND NVR						1	6.82	220	1500	2-3.5mm ² + 1-2.0mm ² (G)	20Ø	20	2	10	MANAGED SWITCH AND NVR	OFFICE AREA
5	1HP WATER PUMP						1	8.00	220	1760	2-5.5mm ² + 1-2.0mm ² (G)	20Ø	30	2	10	1HP WATER PUMP	REAR AREA
TOTAL		11	2	0	4	43	24	52.36	220	9200	3-8.0mm² + 1-3.5mm² (G)	25Ø	50	2	10	N/A	OFFICE AREA

$I_{total} = 52.36A \times 70\%D.F. = 36.65A$

Feeder Size:
 $I_{total} = 36.65A + 25\%(BA) = 38.44A$
PROVIDE: 2-8.0mm² + 1-3.5mm² (G) THHN Wire @25mmØ PVC Pipe

Circuit Breaker Size:
 $I_{total} = 36.65A - BA + 250\%(BA) = 48.65A$
PROVIDE: 50AT CB, 10KAIC, 2P, 240VAC, 60HZ, MINIATURE CIRCUIT BREAKER

PANEL:	LDP	MAIN:	20AT CB, 2P, 240VAC, 60HZ, 30KAIC, MOLDED CASE CIRCUIT BREAKER
MOUNTING:	RECESSED TYPE	BRANCHES:	MINIATURE CIRCUIT BREAKERS, 2 POLES, 240VAC, 60HZ, 10KAIC
ENCLOSURE:	MINIATURE CIRCUIT BREAKER	FEEDER:	2-5.5mm ² + 1-2.0mm ² (G) THHN WIRE
LOCATION:	SYNOPTIC BUILDING	CONDUIT:	20MMØ PVC PIPE

CKT. NO.	DESCRIPTION	SWITCHES				L.O.	C.O.	I	V	VA	WIRE SIZE (THHN)	PIPE (PVC)	CB RATING			LOADS	LOCATION
		S ₁	S ₂	S ₃	S _{3W}								AT	P	KAIC		
1	LIGHTING OUTLET	2			4	14		6.36	220	1400	2-2.0mm ² + 1-2.0mm ² (G)	20Ø	10	2	10	8-LED PANELS, 3-EMERGENCY LIGHTS, 3-DOWNLIGHTS	OFFICE AREA & CANDOPY
2	LIGHTING OUTLET	5	1			14		6.36	220	1400	2-2.0mm ² + 1-2.0mm ² (G)	20Ø	10	2	10	14-DOWNLIGHTS	UTILITY ROOMS & CANDOPY
3	LIGHTING OUTLET	4	1			15		6.82	220	1500	2-2.0mm ² + 1-2.0mm ² (G)	20Ø	10	2	10	3-LED PANEL, 1-EMERGENCY LIGHT, 11-DOWNLIGHTS	BEN.SET ROOM & OBSERVER'S QUARTER
TOTAL		11	2	0	4	43	0	19.55	220	4300	2-5.5mm² + 1-2.0mm² (G)	20Ø	20	2	10	N/A	SYNOPTIC BUILDING

$I_{total} = 19.55A \times 70\%D.F. = 13.68A$

Feeder Size:
 $I_{total} = 13.68A$
PROVIDE: 2-5.5mm² + 1-2.0mm² (G) THHN Wire @20mmØ PVC Pipe

Circuit Breaker Size:
 $I_{total} = 13.68A \times 125\% = 17.10A$
PROVIDE: 20AT CB, 10KAIC, 2P, 240VAC, 60HZ, MINIATURE CIRCUIT BREAKER

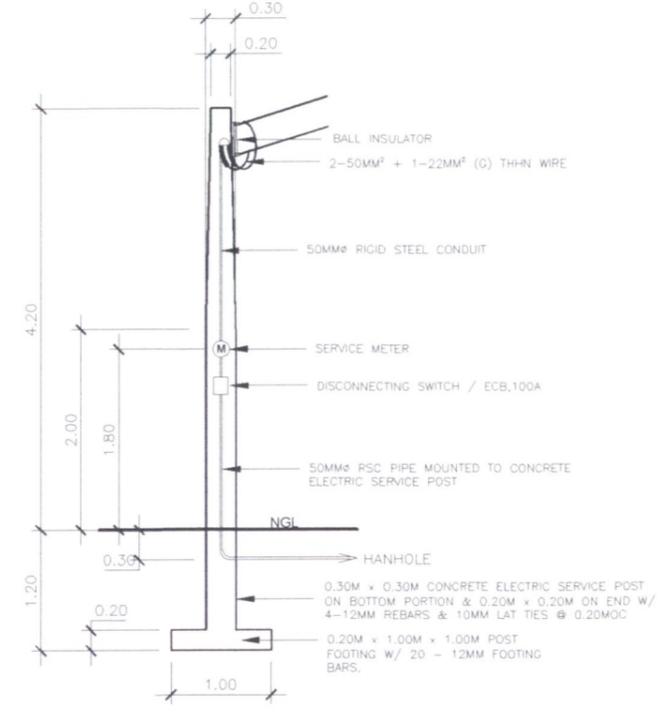
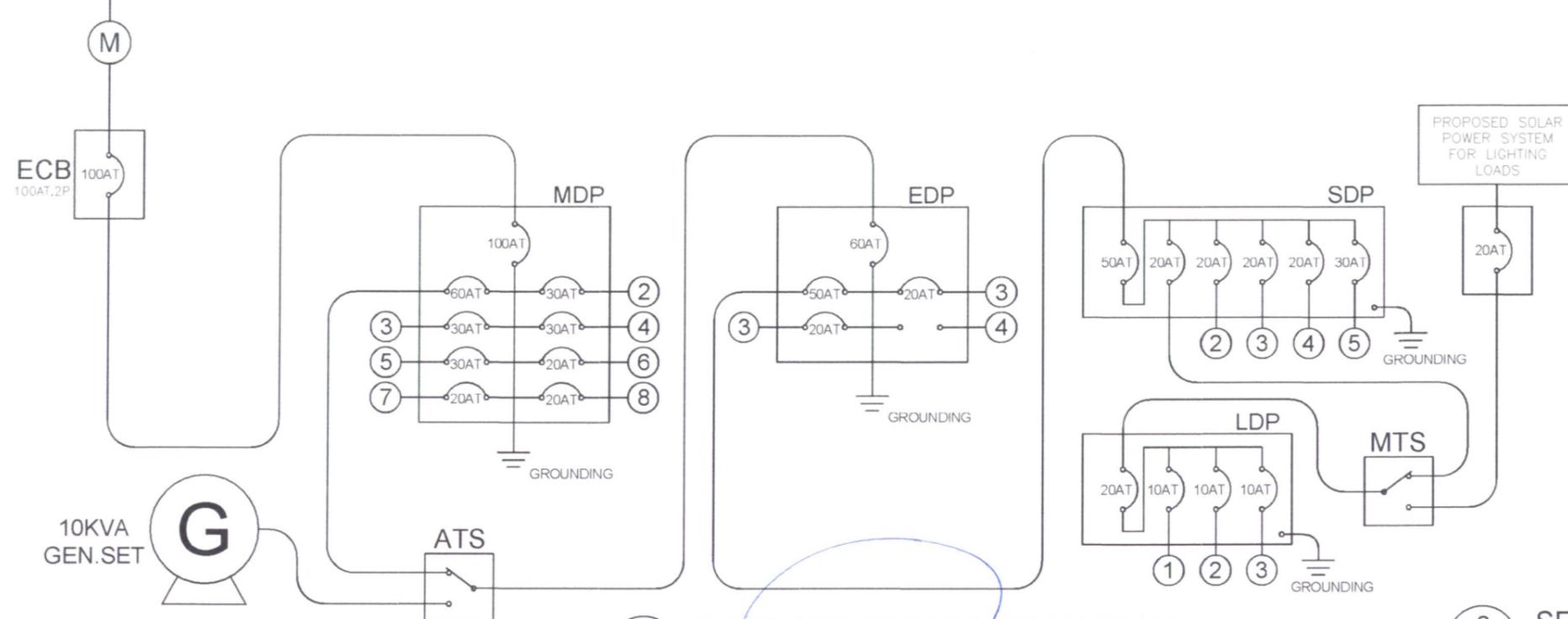
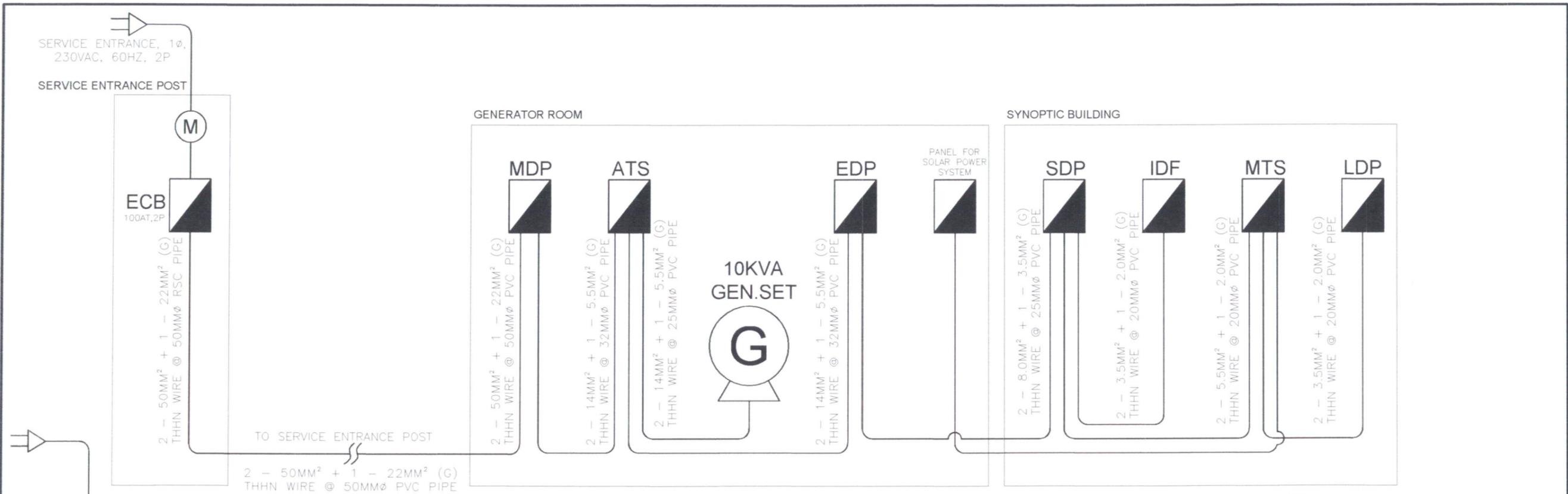
TRANSFORMER RATING COMPUTATION:

$KVA = (E \times I) / 1000$
 $= (220V \times 100A) / 1000$
 $= 22KVA$
Provide: 25KVA, 1Ø, 220V TRANSFORMER

GENERATOR SET RATING COMPUTATION (for Emergency Loads Only):

$KW = KVA \times 0.8 P.F.$
 $= (220V \times 60A) / 1000 \times 0.8 P.F.$
 $= 10.56KW$
Provide: 10KW, 1Ø, 220V GENERATOR SET

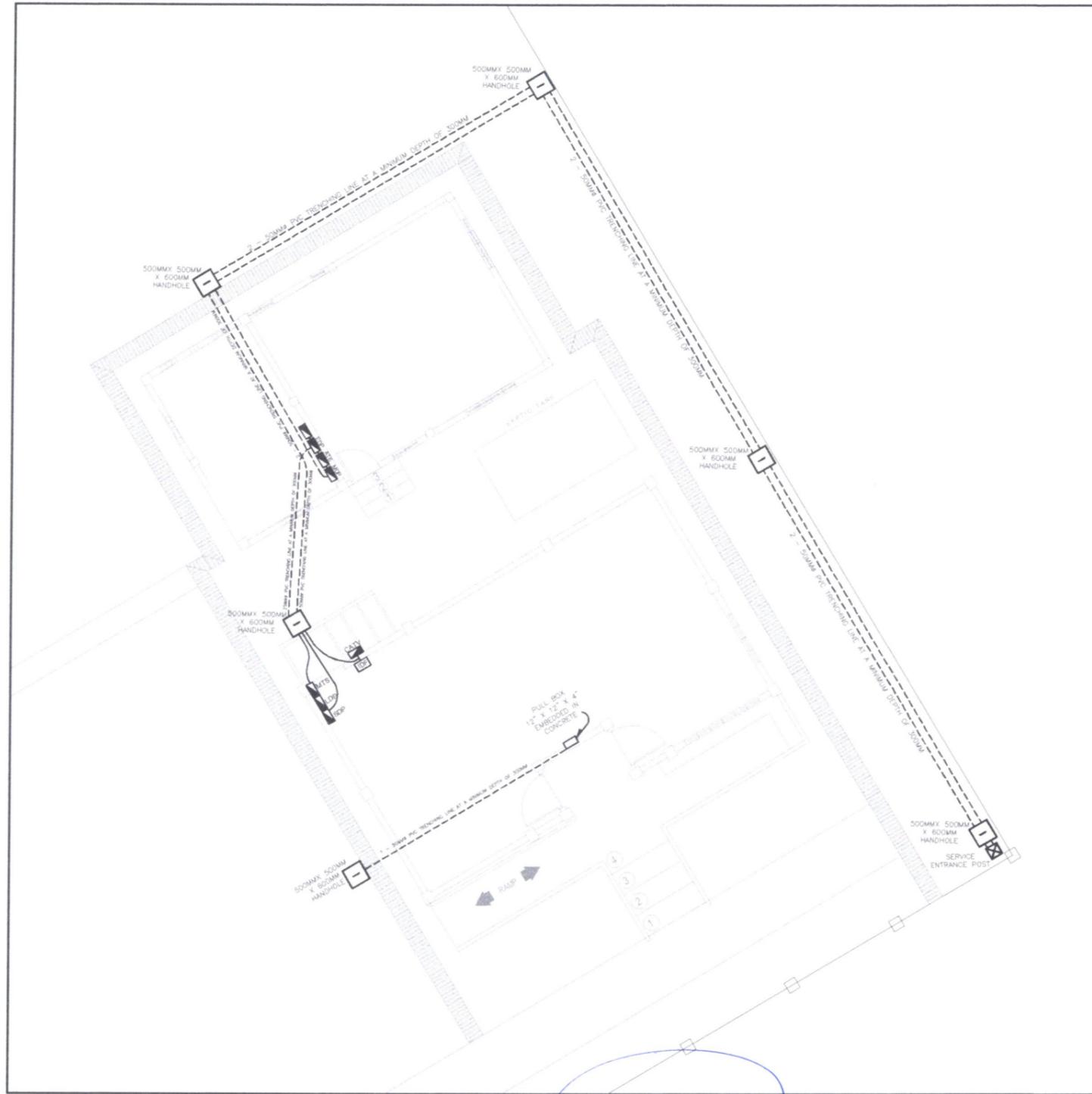
	OWNER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, MEIES, ETSO	 ENGR. VIRGILIO C. SESCA PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C. TIN 100-434-400	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	SCHEDULE OF LOADS	ARIEL N. GALLEGO JR. CHECKED BY:	DATE:
	LICENSE NO. 0057269 DATE ISSUED	LICENSE NO. 01192025 DATE ISSUED	LICENSE NO. 100-434-400 DATE ISSUED	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	DATE:		ELECTRICAL



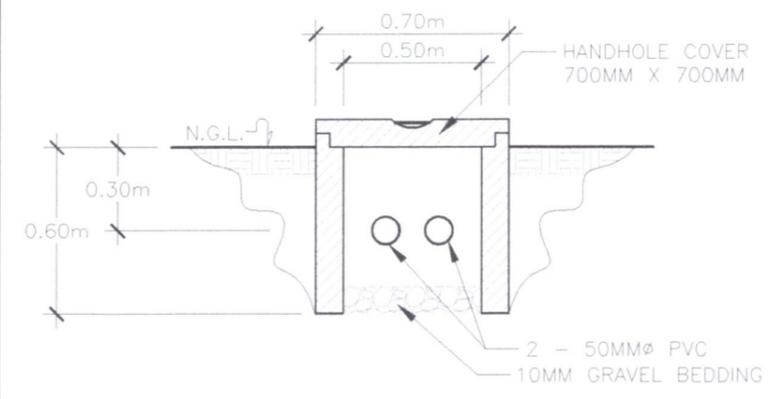
1 RISER AND SINGLE LINE DIAGRAM
E-9 SCALE NTS

2 SERVICE ENTRANCE POST DETAILS
E-9 SCALE NTS

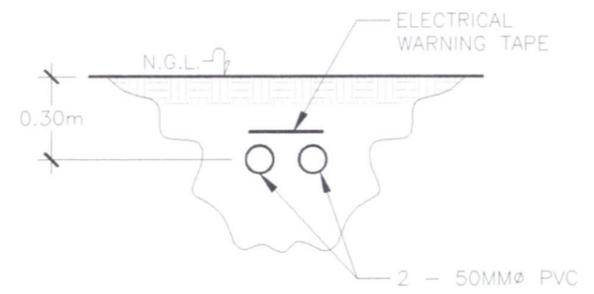
	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	ARIEL N. GALLEGGO JR. WFS-I, MEMU, MEIES, ETSD	ENGR. VIRGILIO C. SESE PRC REG. NO. 01452/10-10-1989 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C TIN 106-454-406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	RISER DIAGRAM SINGLE LINE DIAGRAM SERVICE ENTRANCE POST DETAILS	ARIEL N. GALLEGGO JR. CHECKED BY: DATE:	DATE:	E/9 ELECTRICAL



1 MAIN & SUB-FEEDER TRENCHING PLAN
 E-10 SCALE NTS

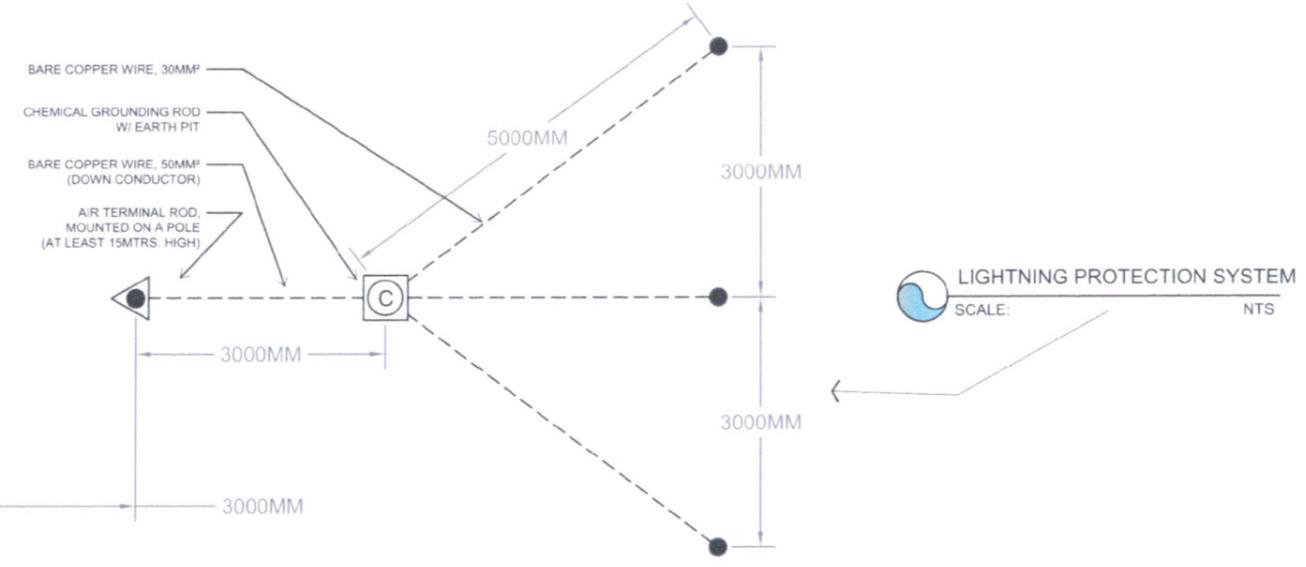
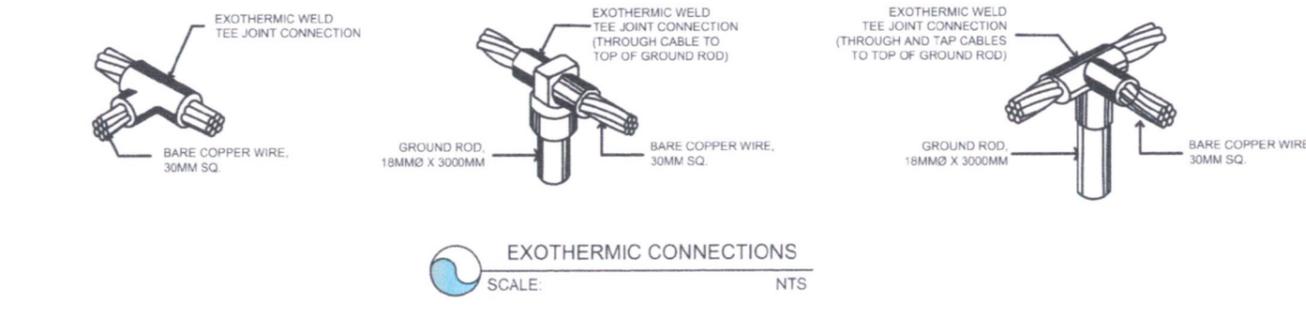
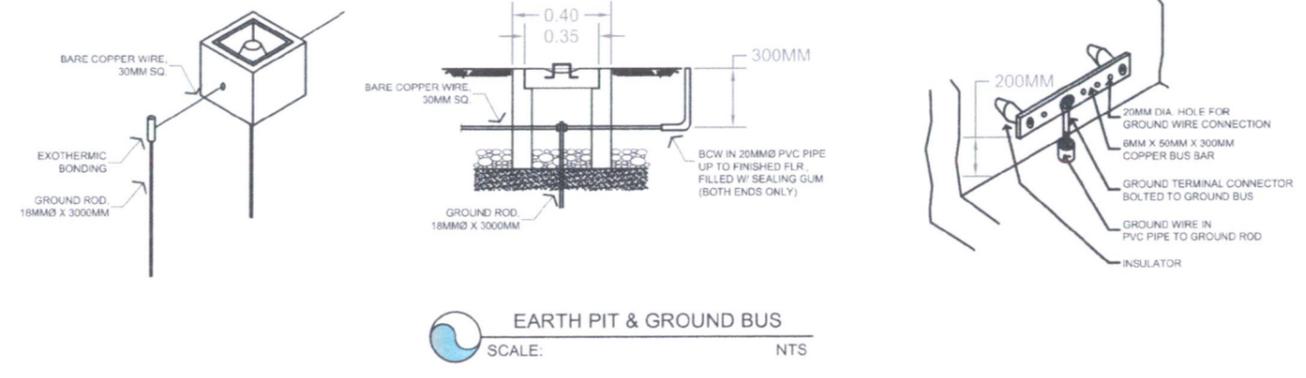
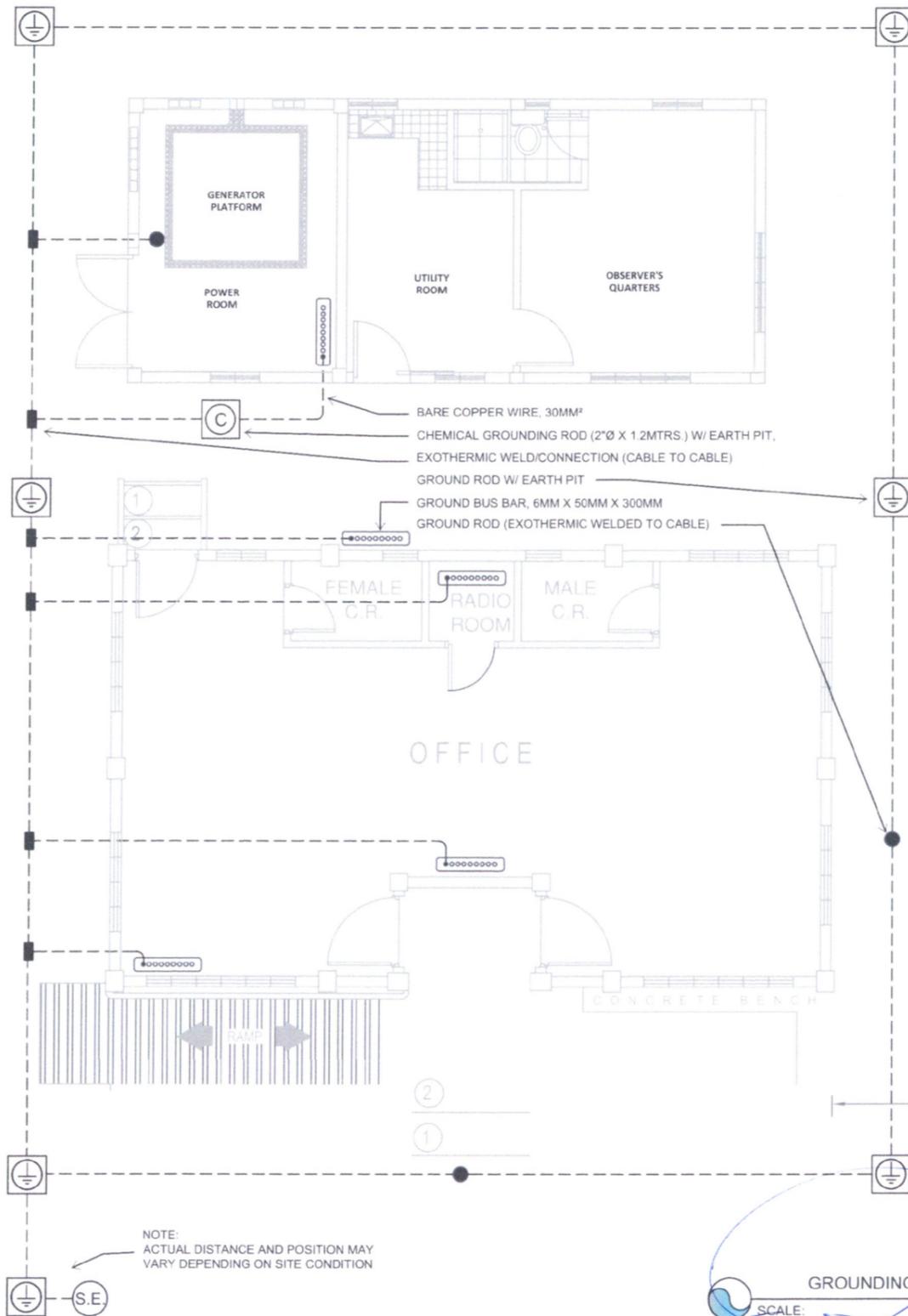


2 HANDHOLE CROSS-SECTIONAL AREA
 E-10 SCALE 1:25MTS



3 TRENCHING CROSS-SECTIONAL AREA
 E-10 SCALE 1:25MTS

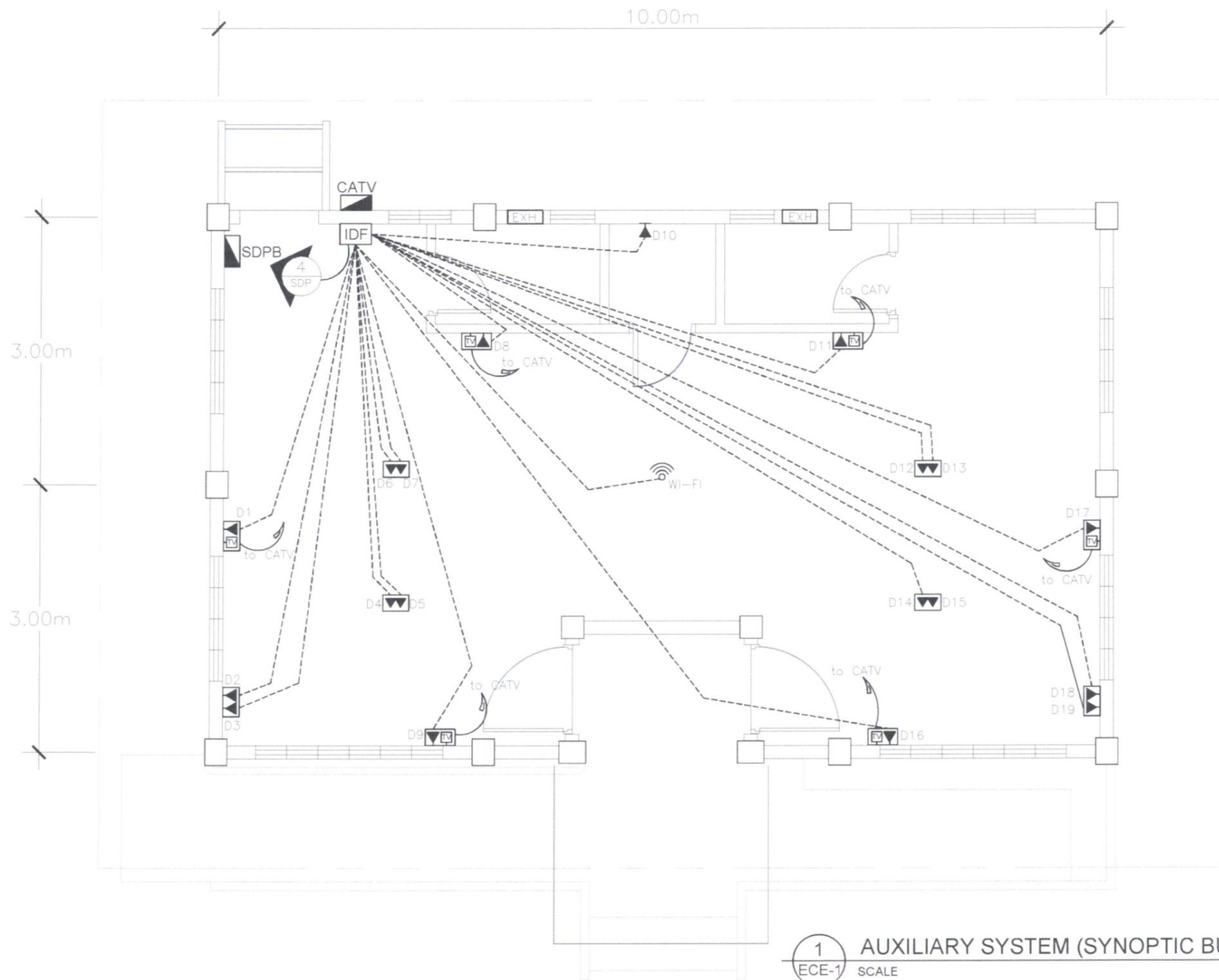
	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ARIEL N. GALLEGO JR. WFS-I, MEMU, M/ES, E/SD	 ENGR. VIRGILIO C. SESE PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C TIN 100-434-406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	TRENCHING LAYOUT OF MAIN FEEDER LINE AND AUXILIARY SYSTEM HANDHOLE DETAILS & TRENCHING	ARIEL N. GALLEGO JR. CHECKED BY: DATE:	DATE: DATE:	DATE: DATE:



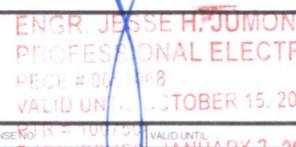
GROUNDING SYSTEM
SCALE: NTS

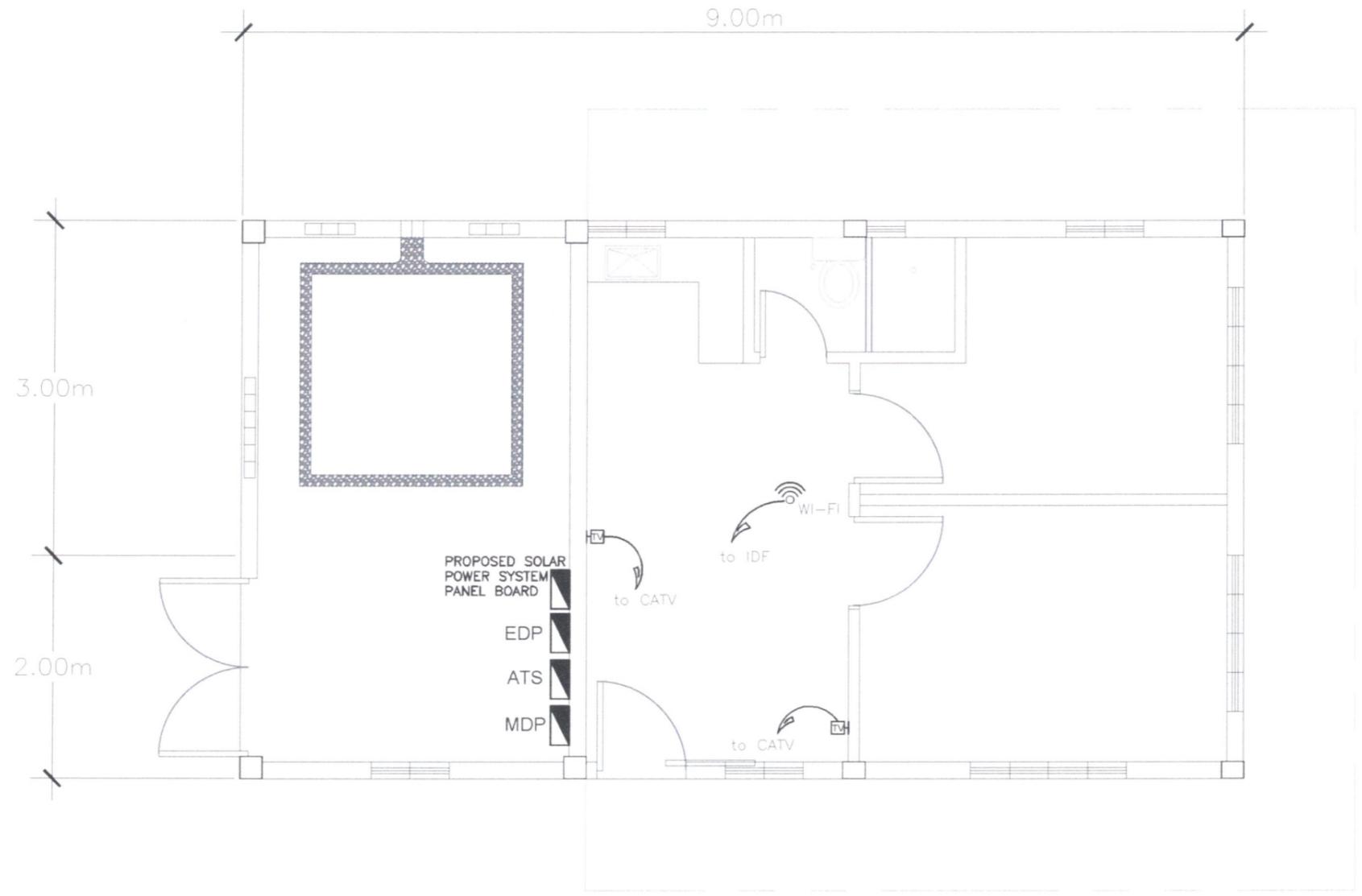
LIGHTNING PROTECTION SYSTEM
SCALE: NTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	DIOSDADO S. ORNUM WFS-III, EPSU-METTS, ETS D	ENGR. VIRGILIO C. SESE PROF. ELECTRICAL ENGR. PRC REG. NO. 01452/10-10-1980 VALID UNTIL - 11-27-2026 PTR 5452324D/01-02-2024/Q.C TIN 106-451-406	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	LIGHTNING PROTECTION AND GROUNDING SYSTEM DETAILS	A.C.M. CRUZ CHECKED BY:	DATE:	E/11
	LICENSE NO. PTR NO.	VALID UNTIL DATE ISSUED	LICENSE NO. PTR NO.			DATE:		ELECTRICAL



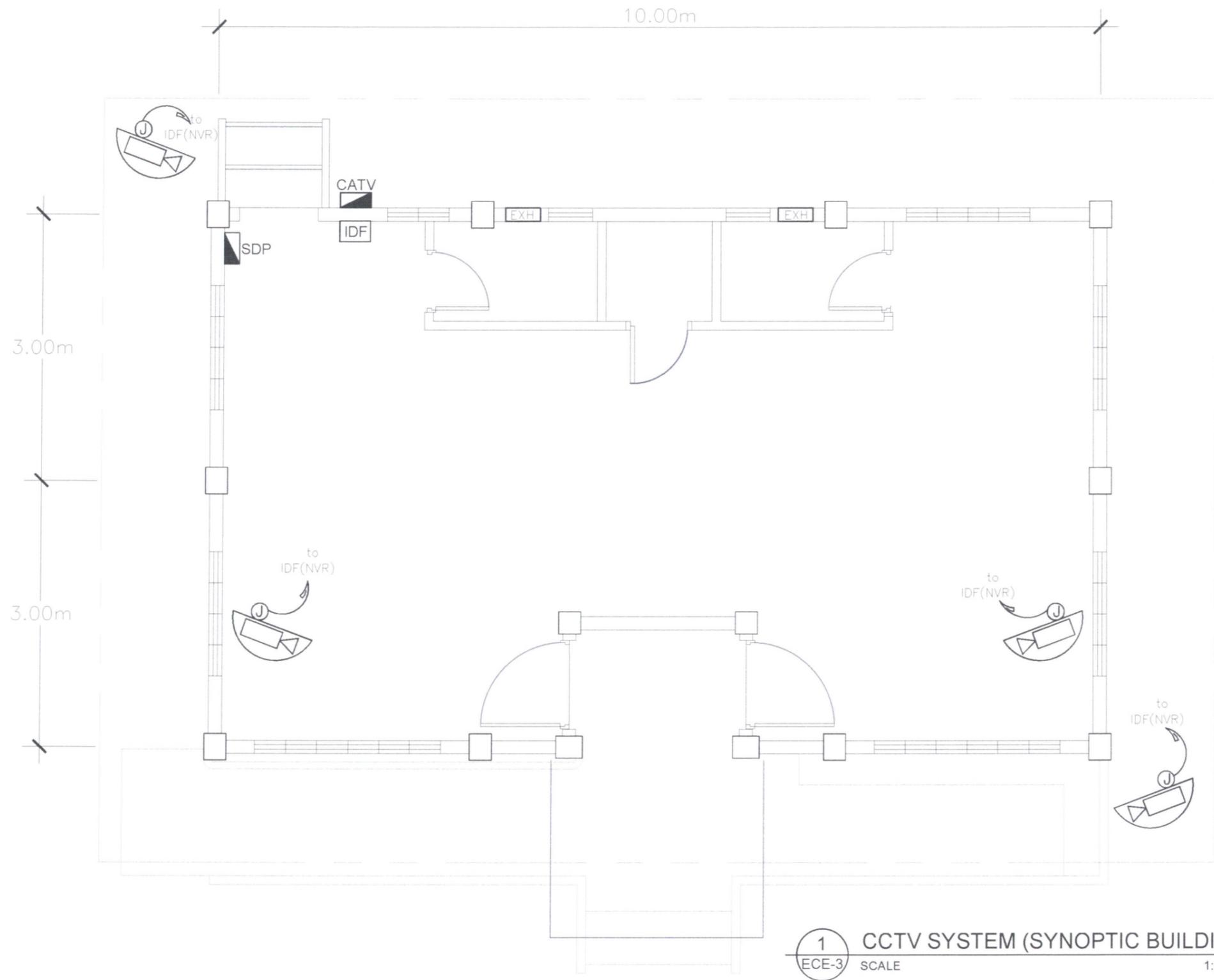
1 AUXILIARY SYSTEM (SYNOPTIC BUILDING)
 ECE-1 SCALE 1:50MTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ENGR. JESSE H. JUMOMONG PROFESSIONAL ELECTRONICS ENGINEER REG. # 0011118 VALID UNTIL OCTOBER 15, 2028 LICENSE NO. 1011118 DATE ISSUED JANUARY 2, 2023 PLACE ISSUED, MAKATI CITY	LICENSE NO. _____ VALID UNTIL _____ PTR NO. _____ DATE ISSUED _____	LICENSE NO. _____ VALID UNTIL _____ PTR NO. _____ DATE ISSUED _____	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	NETWORK CABLING SYSTEM AND CATV SYSTEM OF SYNOPTIC BUILDING	ARIEL N. GALLEGU JR. CHECKED BY: DATE:	DATE: _____ DATE: _____

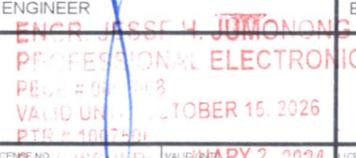
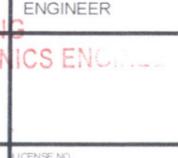


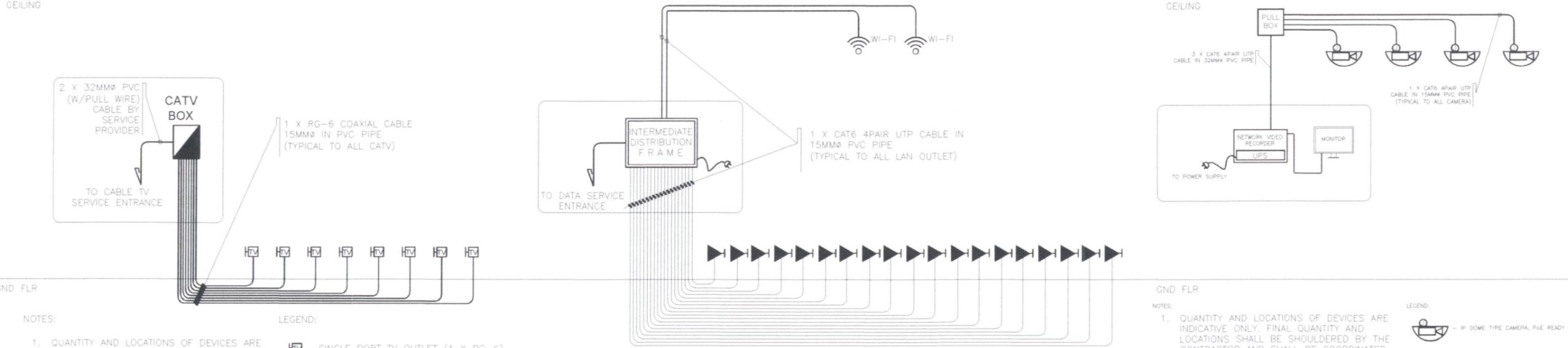
1
ECE-2
AUXILIARY SYSTEM (OBSERVER'S QUARTERS)
 SCALE 1:50MTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	ENGR. JESSE H. JUMONONG PROFESSIONAL ELECTRONICS ENGINEER REG. # 0011983 VALID UNTIL: OCTOBER 15, 2026 PTR # 200253	ENGR. JESSE H. JUMONONG PROFESSIONAL ELECTRONICS ENGINEER REG. # 0011983 VALID UNTIL: OCTOBER 15, 2026 PTR # 200253	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	NETWORK CABLING SYSTEM AND CATV SYSTEM OF OBSERVER'S QUARTERS	ARIEL N. GALLEGU JR. CHECKED BY:	DATE:	DATE:
	LICENSE NO. PTR NO. VALID UNTIL DATE ISSUED	LICENSE NO. PTR NO. VALID UNTIL DATE ISSUED	LICENSE NO. PTR NO. VALID UNTIL DATE ISSUED	LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE		DATE:		



1 CCTV SYSTEM (SYNOPTIC BUILDING)
 ECE-3 SCALE 1:50MTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	 NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	 ENGR. JESSE H. JUMONONG PROFESSIONAL ELECTRONICS ENGINEER REG. # 941018 VALID UNTIL OCTOBER 15, 2026 PTR # 101750	 ENGR. JESSE H. JUMONONG PROFESSIONAL ELECTRONICS ENGINEER REG. # 941018 VALID UNTIL OCTOBER 15, 2026 PTR # 101750	CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE	CCTV SYSTEM OF SYNOPTIC BUILDING	ARIEL N. GALLEGOS JR. CHECKED BY: DATE:	DATE: DATE:	ECE/3 ELECTRONICS & COMMUNICATIONS



- NOTES:
1. QUANTITY AND LOCATIONS OF DEVICES ARE INDICATIVE ONLY. FINAL QUANTITY AND LOCATIONS SHALL BE SHOULDERS BY THE CONTRACTOR AND SHALL BE COORDINATED BY THE MONITORING ENGINEER.
 2. ACTUAL SIZES OF PULL BOXES, TERMINAL BOARDS, CONTROL PANELS, ETC. SHALL BE DETERMINED UPON SUBMISSION OF SHOP DRAWINGS BY THE SPECIALITY OF THE CONTRACTOR.
 3. THE CONTRACTOR AND THE SUPPLIER CAN MODIFIED THE RISER DIAGRAM TO SUIT THE SUPPLIED EQUIPMENT.

LEGEND:

- SINGLE PORT TV OUTLET (1 X RG-6)

- NOTES:
1. QUANTITY AND LOCATIONS OF DEVICES ARE INDICATIVE ONLY. FINAL QUANTITY AND LOCATIONS SHALL BE SHOULDERS BY THE CONTRACTOR AND SHALL BE COORDINATED BY THE MONITORING ENGINEER.
 2. ACTUAL SIZES OF PULL BOXES, TERMINAL BOARDS, CONTROL PANELS, ETC. SHALL BE DETERMINED UPON SUBMISSION OF SHOP DRAWINGS BY THE SPECIALITY OF THE CONTRACTOR.
 3. THE CONTRACTOR AND THE SUPPLIER CAN MODIFIED THE RISER DIAGRAM TO SUIT THE SUPPLIED EQUIPMENT.

LEGEND:

- LAN OUTLET (1 X CAT6)

- WIFI OUTLET (1 X CAT6)

TYPE OF WIRE	TYPE OF WIRE IN PVC CONDUIT		
	15MMØ	20MMØ	25MMØ
CAT6 UTP CABLE	1 - 2	3 - 4	5 - 6

- NOTES:
1. QUANTITY AND LOCATIONS OF DEVICES ARE INDICATIVE ONLY. FINAL QUANTITY AND LOCATIONS SHALL BE SHOULDERS BY THE CONTRACTOR AND SHALL BE COORDINATED BY THE MONITORING ENGINEER.
 2. CCTV MAIN EQUIPMENT SHALL BE CONNECTED TO UPS. UPS RATING SHALL BE CONFIRMED UPON ACTUAL REQUIREMENTS OF APPROVED BRAND/EQUIPMENT/DEVICES TO BE USE.
 3. CCTV CAMERA EXPOSED IN WEATHER CONDITION MUST BE IN WEATHERPROOF ENCLOSURE.
 4. ACTUAL SIZES OF PULL BOXES, TERMINAL BOARDS, CONTROL PANELS, ETC. SHALL BE DETERMINED UPON SUBMISSION OF SHOP DRAWINGS BY THE SPECIALITY OF THE CONTRACTOR.
 5. THE CONTRACTOR AND THE SUPPLIER CAN MODIFIED THE RISER DIAGRAM TO SUIT THE SUPPLIED EQUIPMENT.

LEGEND:

- IP DOME TYPE CAMERA, PGE READY

1 AUXILIARY SYSTEM RISER DIAGRAM
 ECE-4 SCALE NTS

	OWNER	ENGINEER	ENGINEER	PROJECT TITLE	SHEET CONTENT	DRAWN BY	REVISIONS	SHEET NO.
	NATHANIEL T. SERVANDO, Ph.D. ADMINISTRATOR	ENGR. JEROME H. JUMONONG PROFESSIONAL ELECTRONICS ENGR VALID UNTIL: OCTOBER 15, 2026		CONSTRUCTION OF PAGASA SYNOPTIC BUILDING, OBSERVER'S QUARTERS, POWER HOUSE AND PERIMETER FENCE	AUXILIARY SYSTEM RISER DIAGRAM SERVICE ENTRANCE POST DETAILS	ARIEL N. GALLEG0 JR.	DATE:	ECE/4
				LOCATION: VISAYAS STATE UNIVERSITY - INOPACAN ROAD, BAYBAY CITY, LEYTE		CHECKED BY:		
					DATE:			