



REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF AGRICULTURE**

WESTERN VISAYAS  
PAROLA, ILOILO CITY

DETAILED ENGINEERING DESIGN PLANS

**EXPANSION OF WORKING AREA OF BOKASHI  
FACILITY WITH GENDER SENSITIVE COMFORT  
ROOM**

Brgy. Jolongajog, Pontevedra, Capiz

MAINSTREAMING CLIMATE RESILIENT AGRICULTURE  
IN REGIONAL PROGRAMS(MCRARP) 2025

Submitted by:

**MOISES D. MANAAY, ABE, MEE-**  
Engglicer V (License No. 0006077)  
Chief, RAED

Recommending Approval:

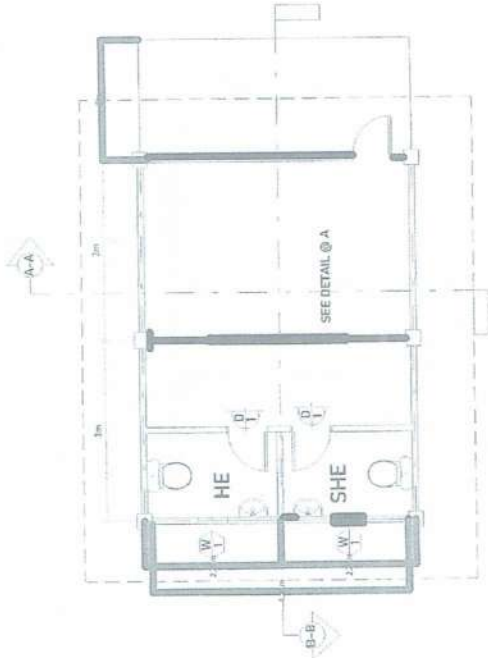
**ENGR. JOSE ALBERT A. BARROGO**  
RTD for Operations & Extension

Approved by:

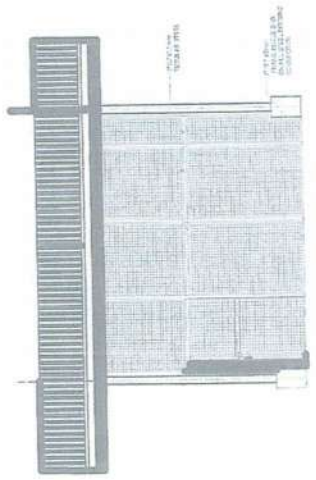
**DEMMIS R. ARPILA**  
Regional Executive Director



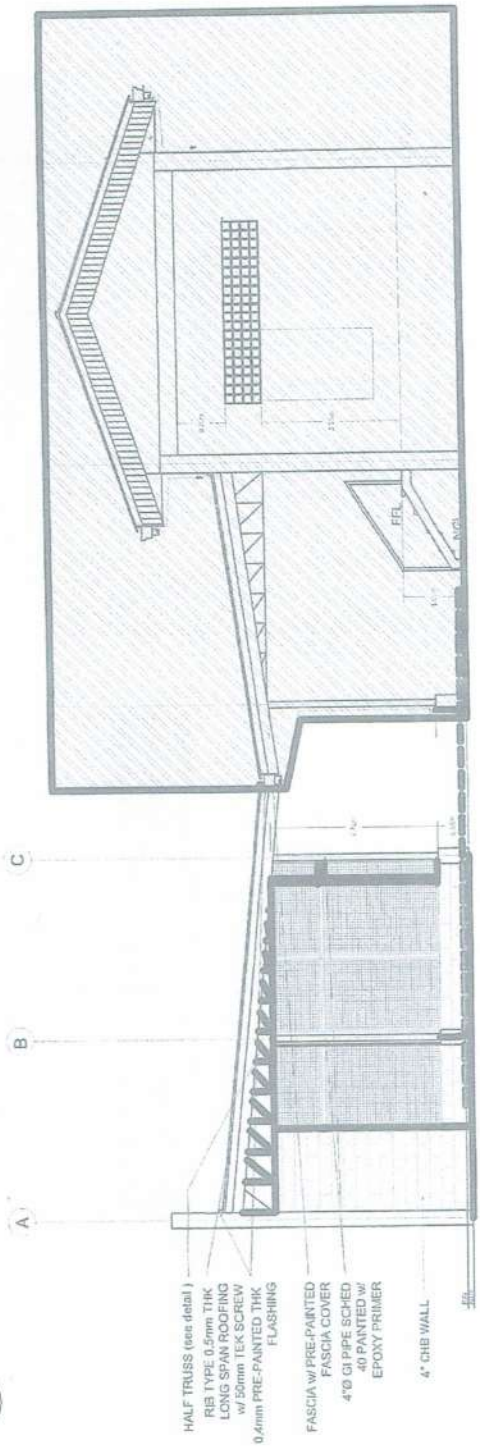




**FLOOR PLAN**  
SCALE: 1:80 mts



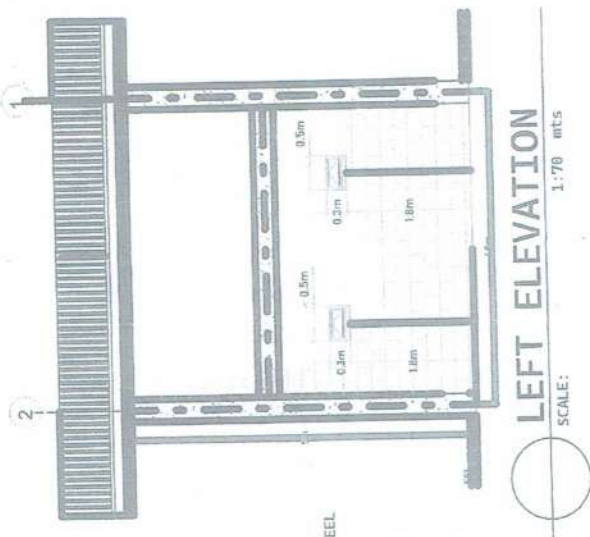
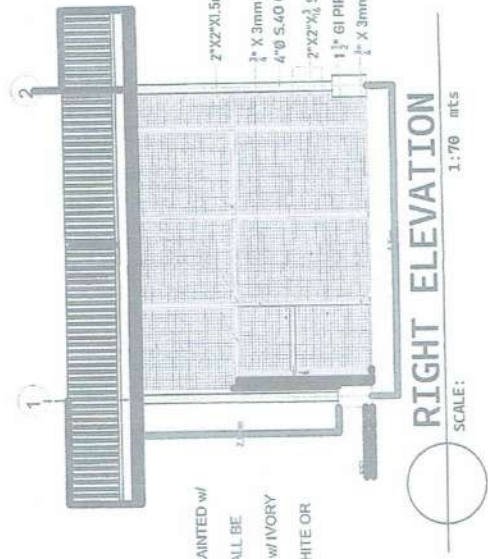
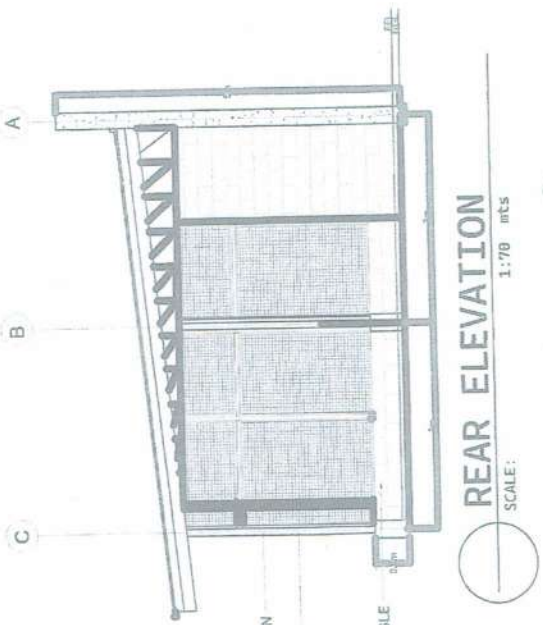
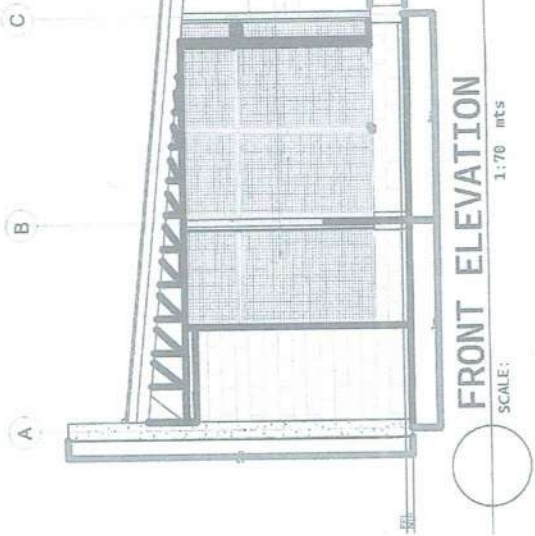
**SECTION A-A**  
SCALE: 1:80 mts



**SECTION B-B**  
SCALE: 1:80 mts

- HALF TRUSS (see detail)
- REB TYPE 0.5mm THK
- LONG SPAN ROOFING
- w/ 50mm TEK SCREW
- 0.4mm PRE-PAINTED THK
- FLASHING
- FASCIA w/ PRE-PAINTED
- FASCIA COVER
- 4"Ø GI PIPE SCHED
- 40 PAINTED w/
- EPOXY PRIMER
- 4" CHB WALL

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS ILOILO CITY	PROJECT: EXPANSION OF WORKING AREA IN BOYASHI FACILITY WITH GENDER SENSITIVE COMFORT ROOM PROJECT LOCATION:	CHECKED BY: [Signature] DATE: 05/10/2024	DESIGNED BY: [Signature] DATE: 05/10/2024	DRAWN BY: [Signature] DATE: 05/10/2024	CHECKED BY: [Signature] DATE: 05/10/2024	DESIGNED BY: [Signature] DATE: 05/10/2024	PROJECT NO.: 12 SHEET NO.: 2
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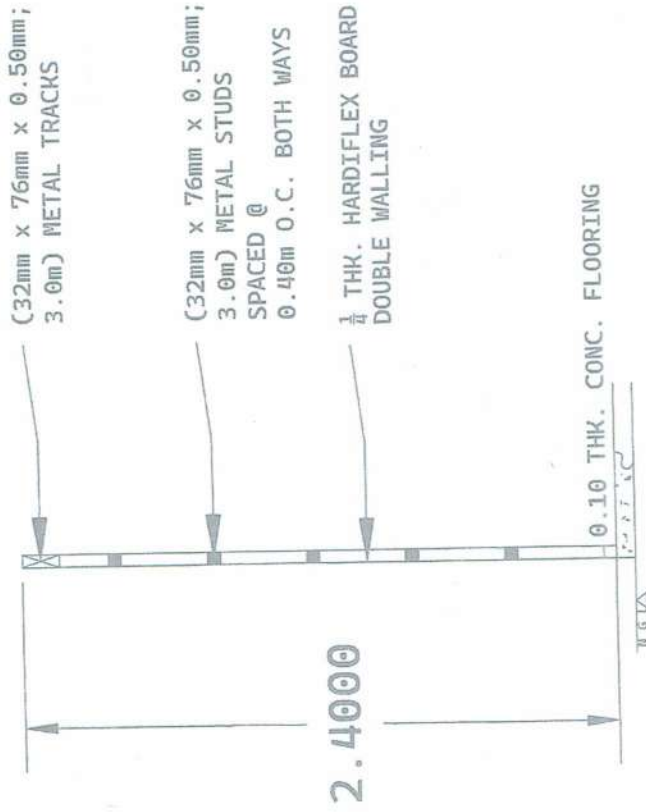
- NOTE:
1. ALL COLUMNS AND PEDESTAL SHALL BE PAINTED w/ FOREST GREEN.
  2. ALL PLINTH BEAMS AND ROOF BEAMS SHALL BE PAINTED w/ MANGO YELLOW.
  3. ALL EXTERIOR WALLS SHALL BE PAINTED w/ IVORY (#FFBF00).
  4. PRE-PAINTED ROOF SHEETS SHALL BE WHITE OR BEIGE IN COLOR.

4"Ø S.40 GI PIPE COLUMN  
2"X2"X $\frac{3}{8}$ " STEEL MATTING

1" X 1" 3mm FRAME ANGLE  
BAR ON ALL STEEL  
MATTING CONNECTION

2"X2"X1.5mm TUBULAR STEEL  
3" X 3mm ANGLE BAR  
4"Ø S.40 GI PIPE COLUMN  
2"X2"X $\frac{3}{8}$ " STEEL MATTING  
1 1/2" GI PIPE DOOR FRAME  
1" X 3mm ANGLE BAR

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	EXPANSION OF WORKING AREA IN BORIASHI FACILITY WITH GENDER SENSITIVE COMFORT ROOM PROJ. ILOILO-DANAGUIG, SUBDIVISION, CARZ PROJECT LOCATION	ELEVATIONS	DECE 1916, ARDSON, JR. ARCHITECT	YVONNE GRACE V. SAKA, ARE ARCHITECTS 1001 N. 10th Street, 10th Floor Manila, Philippines	MOSES D. MAMA-A, ARE, MEE ARCHITECTS 1001 N. 10th Street, 10th Floor Manila, Philippines	JACR, JOE ARBERT A. BARRERO ARCHITECTS 1001 N. 10th Street, 10th Floor Manila, Philippines	DESA ARRIA ARCHITECTS	PAGE NO. 3 PAGE NO. 12
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DETAIL @ A  
SCALE: 1:50 m/s



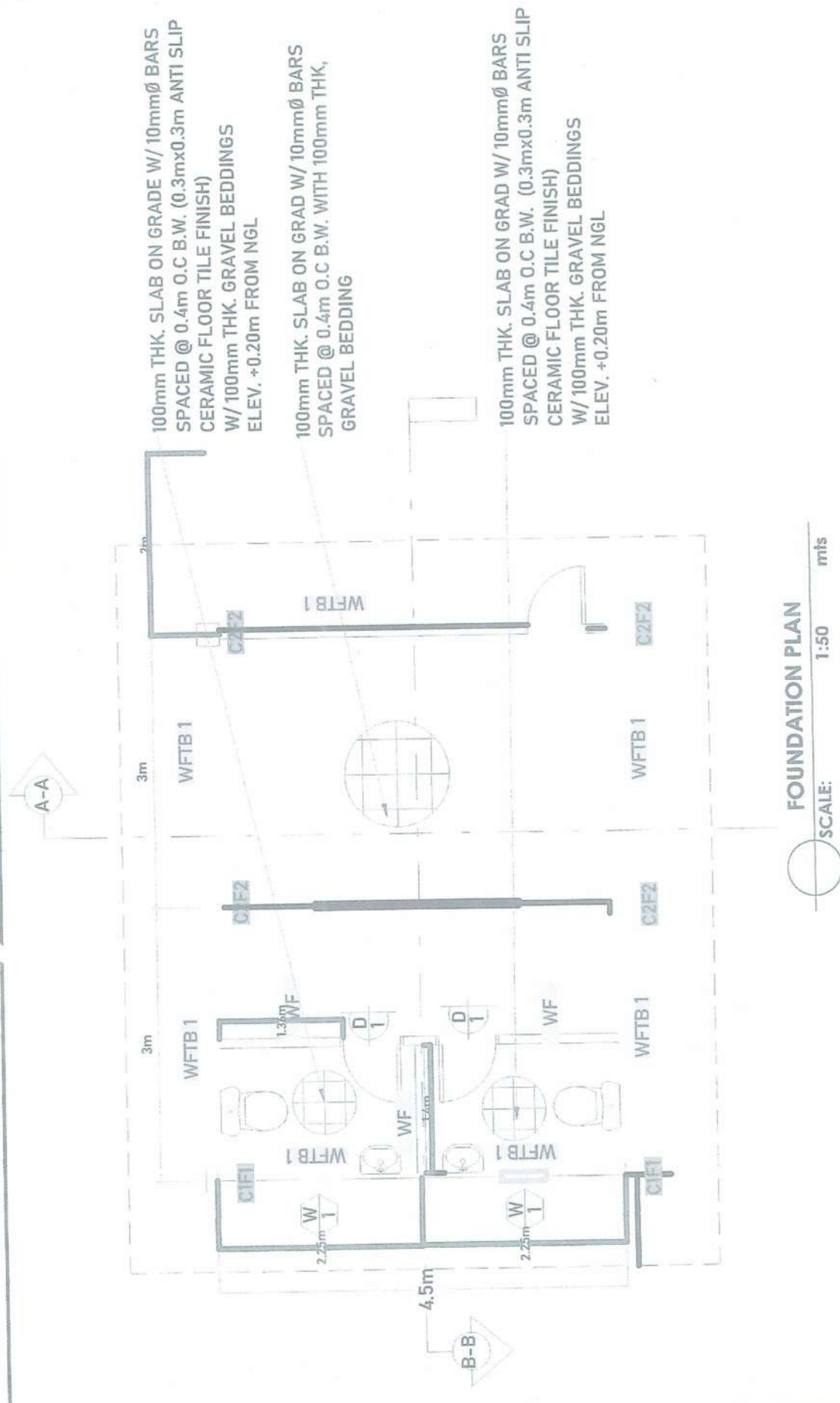
NO. QUANTITY		DESCRIPTION		MATERIALS		NO. QUANTITY		DESCRIPTION		MATERIALS	
D1	2	SKING DOOR		UPVC DOOR AND JAMB		W1	2	AWNING WINDOW		6mm THK. CLEAR GLASS W/ ALUMINUM FRAME	

LOCATION: COMFORT ROOM

SCHEDULE OF DOORS AND WINDOWS  
SCALE: 1:50 m/s

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>EXPANSION OF WORKING AREA IN BOX/ASH FACILITY WITH GENDER SENSITIVE COMFORT ROOM PROJECT LOCATION</p>	<p>SCHEDULE OF DOOR / WINDOW - DRY WALL PARTITION (DETAIL @ A)</p>	<p>DESIGNED BY YVONNE GRACE A. LACAY, AEC PROJECT ENGINEER</p>	<p>DESIGNED BY MOSES O. MARALAY, AEC PROJECT ENGINEER</p>	<p>DESIGNED BY ENRIL JOSE ALBERT A. BAUTOGGO PROJECT ENGINEER</p>	<p>DESIGNED BY JAMES R. ARDA PROJECT ENGINEER</p>
<p>NO. 1</p>	<p>NO. 2</p>	<p>NO. 3</p>	<p>NO. 4</p>	<p>NO. 5</p>	<p>NO. 6</p>	<p>NO. 7</p>





100mm THK. SLAB ON GRADE W/ 10mmØ BARS  
SPACED @ 0.4m O.C B.W. (0.3m x 0.3m ANTI SLIP  
CERAMIC FLOOR TILE FINISH)  
W/ 100mm THK. GRAVEL BEDDINGS  
ELEV. +0.20m FROM NGL

100mm THK. SLAB ON GRADE W/ 10mmØ BARS  
SPACED @ 0.4m O.C B.W. WITH 100mm THK.  
GRAVEL BEDDING

100mm THK. SLAB ON GRADE W/ 10mmØ BARS  
SPACED @ 0.4m O.C B.W. (0.3m x 0.3m ANTI SLIP  
CERAMIC FLOOR TILE FINISH)  
W/ 100mm THK. GRAVEL BEDDINGS  
ELEV. +0.20m FROM NGL

**FOUNDATION PLAN**  
SCALE: 1:50 mts

PROJECT NAME EXPANSION OF WORKING AREA IN DUKASU FACILITY WITH GENDER SENSITIVE COMFORT ROOM	SHEET NO. 1/1 FOUNDATION PLAN	PROJECT NO. 1 DATE 12/12/2023	DRAWN BY DECE RILE M. ARDOSTONE, JR. ENGINEER	CHECKED BY YVONNE GRACE V. SORIANO, JR. ENGINEER	APPROVED BY MOSES D. MANI-AY, JR., MEE PROFESSIONAL ENGINEER	PROJECT NO. 1 DATE 12/12/2023	PAGE NO. 5 TOTAL PAGES 12
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12mm THK x 250mm x  
250mm BASE PLATE w/ 5/8"  
ANCHOR BOLT

0.4mm  
PRE-PAINTED  
THK  
FLASHING

0.56m 0.56m 7.02m

0.52m

2 - 38.1mm x 38.1mm x  
4.76mm THK ANGLE BAR

0.50m 0.50m

1.00m

6.00m

7.00m

HALF TRUSS DETAILS

SCALE: 1:16 mts

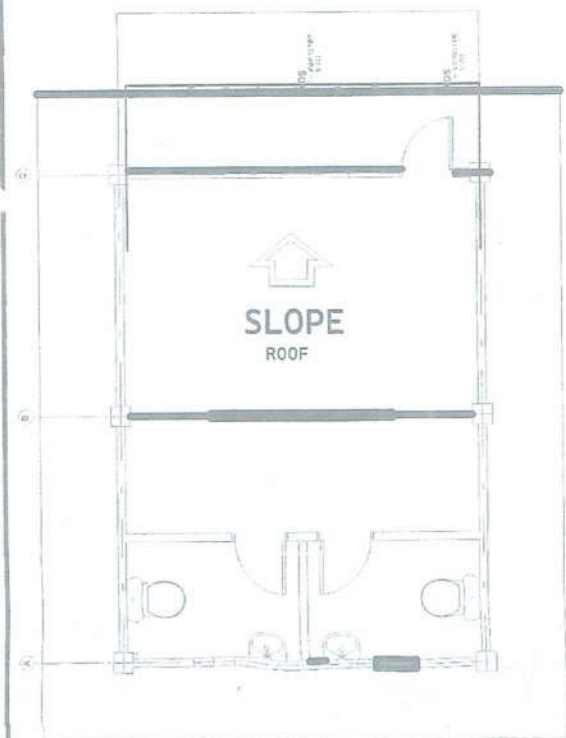
2 - 38.1mm x 38.1mm x 4.76mm THK ANGLE BAR

10mm RSB SPACED @  
0.30m

GIRT DETAILS

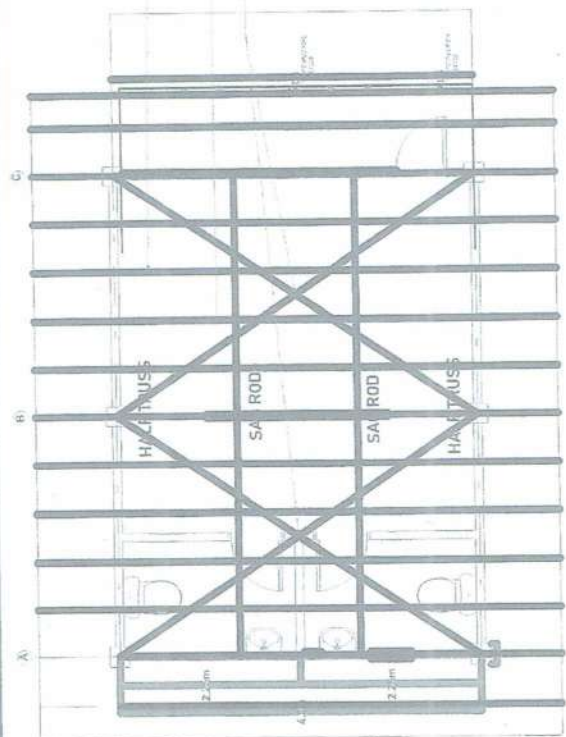
SCALE: 1:20 mts





**ROOF PLAN**

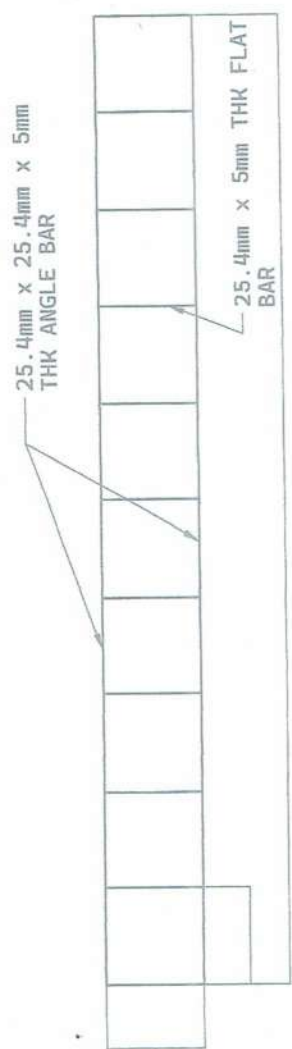
SCALE: 1:60 mts



**ROOF FRAMING**

SCALE: 1:60 mts

50mm x 125mm x 1.5mm THK  
C-CHANNEL (PURLINS)  
SPACED @ 0.60M O.C.  
12mm Ø PLAIN BAR SAG ROD  
12mm Ø PLAIN MAIN  
BAR CROSS BRACING  
EYE-YO-EYE WITH TURN  
BUCKLE



**FASCIA FRAME**

SCALE: 1:15 mts

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>EXPANSION OF WORKING AREA IN BODASMI FACILITY WITH GENDER SENSITIVE COMFORT ROOM</p> <p>BRGY. ALONCAYAN, SOUTHERN CANTON PROJECT LOCATION</p>	<p>ROOF PLAN ROOF FRAMING FASCIA FRAME</p>	<p>DESIGNED BY DECELA M. ARISTOTELE, RME PROJECT ENGINEER</p>	<p>CHECKED BY YVONNE M. SORIANO, RME PROJECT ENGINEER</p>	<p>APPROVED BY MODESTO D. MANA-AY, AEE, MEE PROJECT ENGINEER</p>	<p>APPROVED BY ENGR. JOSE ALBERT A. BARRIGO PROJECT ENGINEER</p>	<p>APPROVED BY ENGR. R. ARIPA PROJECT ENGINEER</p>	<p>DATE: 12/12/2023</p> <p>SCALE: 1:60 mts</p> <p>SCALE: 1:15 mts</p>
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## PLUMBING NOTES:

1. ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL PLUMBING CODE, AND THE RULES AND REGULATIONS OF THE CITY.

2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND HEREIN.

3. PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH THE PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.

4. SANITARY AND DRAINAGE LINES SHALL HAVE A MINIMUM SLOPE OF 1%.

5. ALL INDIVIDUAL BRANCHES SHALL BE VENTED UNLESS OTHERWISE NOTED.

6. DIMENSIONS ARE IN MILLIMETER (mm) UNLESS OTHERWISE INDICATED.

7. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

8. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH SEWER EFFLUENT DISPOSAL AND WATERLINE SERVICES CONNECTING POINT.

9. THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST AND MOST THOROUGH MANNER KNOWN TO SATISFACTION OF ARCHITECT OR ENGINEER.

10. PIPES FOR COLD WATER LINES SHALL BE POLYPROPYLENE PH10 FUSION WELD PIPES, INCLUDE TRIMS AND FITTINGS. PIPES FOR HOT WATER LINES (OPTIONAL) SHALL BE POLYPROPYLENE PH20 FUSION WELD PIPES, INCLUDE TRIMS AND FITTINGS.

11. PIPES FOR SANITARY LINES SHALL BE UPVC EXTRA SERIES 1000, INCLUDING TRIMS AND FITTINGS.

12. PIPES FOR VENT LINES SHALL BE UPVC EXTRA SERIES 1000, INCLUDING TRIMS AND FITTINGS.

13. CONCEAL ALL PIPES, WATER LINES AND VENTS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE APPROVED WORKMANSHIP. ALL MOTOR PUMPS TECHNICAL BROCHURE & PERFORMANCE, SAMPLE OF PLUMBING FIXTURES, FLOOR DRAINS, ROOF DRAINS, GUTTER DRAINS AND CLEAN OUTS MUST BE APPROVED BY THE ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

NOTE: ALL COMPUTATIONS, SIZES AND DIMENSIONS ARE BASED ON THE REVISED NATIONAL PLUMBING CODE OF THE PHILIPPINES (RNP/CP)

COLD WATER LINE SHALL BE POLYPROPYLENE RANDOM PIPE (PPR-PN10)

SEWER LINE FOR VINYL CHLORIDE (PVC) PIPE SERIES 1000 HIGH IMPACT SIMILAR TO NELLETEX, EMERALD, CROWN BRAND OR APPROVED EQUAL.

VENT LINE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 600 SIMILAR TO NELLETEX, EMERALD, CROWN BRAND

DRAINAGE LINE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000 HIGH IMPACT SIMILAR TO NELLETEX, EMERALD, CROWN BRAND

WATER METER BADGER, ARAD ASANI

6" UNIFORM KITZ, CRANE, NIBCO, OR APPROVED EQUAL.

SITE STORM DRAINAGE LINE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000 (250mm)

P-TANK SHALL BE STAINLESS STEEL AND/OR DURABLE CHROME PLATED

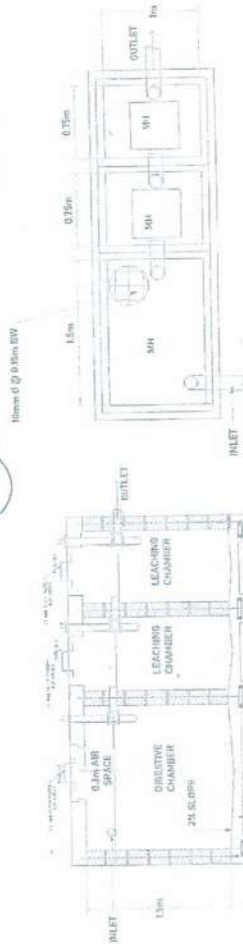
W/SHALL BE DUAL FLUSH TYPE AND HAS ANTI-BACTERIAL SEAT

FAUCET SHALL BE LEVER TYPE STAINLESS STEEL

100mm Ø PVC S-1000  
SOIL PIPE



## 1 SANITARY LINE LAYOUT P-1 SCALE: 1:50 mts



## 2 SEPTIC TANK SECTION P-1 SCALE: 1:50 mts

## 3 SEPTIC TANK PLAN P-1 SCALE: 1:50 mts

## MOUNTING 4 HEIGHTS P-1 SCALE: 1:50 mts



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SEPTIC TANK SECTION  
MOUNTING HEIGHTS

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REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF AGRICULTURE  
WESTERN VISAYAS  
PAROLA, LOLO CITY



PROJECT LOCATION  
BIO-AGRICULTURE HUB/AGRICULTURE  
CENTRE

PLUMBING NOTES  
SECTION TANK SECTION  
SEPTIC TANK SECTION  
MOUNTING HEIGHTS

EXPANSION OF WORKING AREA IN  
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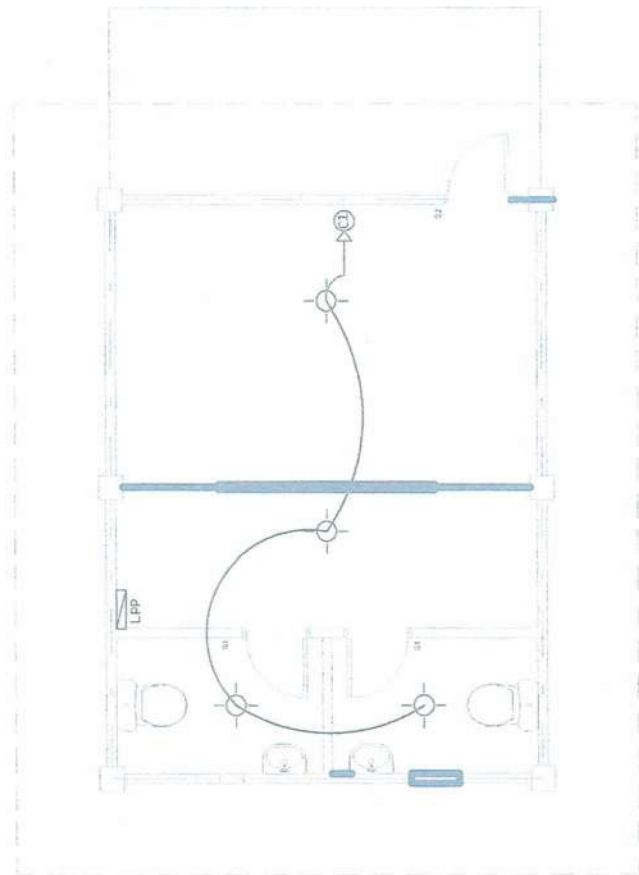


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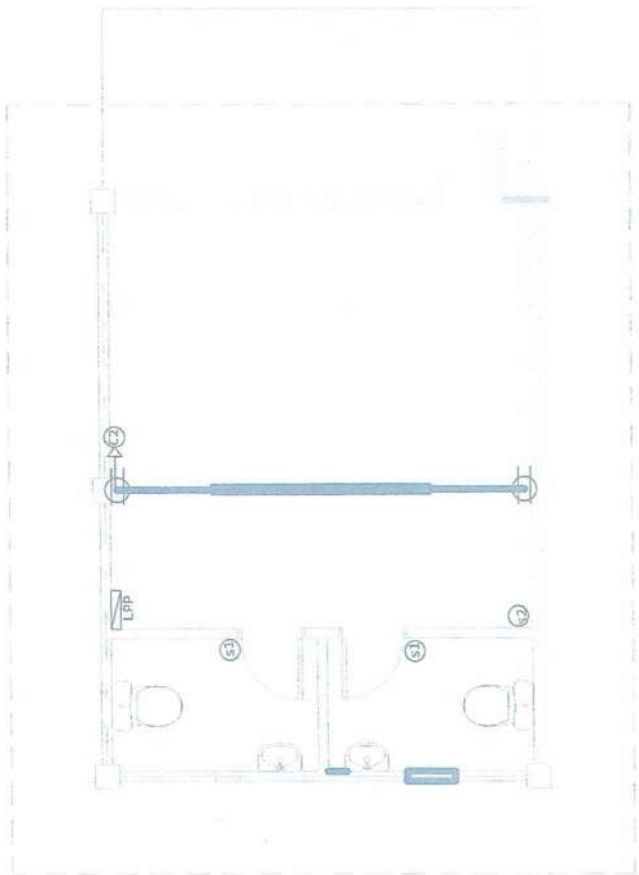
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# 1 LIGHTING LAYOUT

E-1 SCALE:

1:50 mts



# 2 POWER LAYOUT

E-1 SCALE:

1:50 mts

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PANOLA ILOLO CITY</p>	<p>PROJECT: EXPANSION OF WORKING AREA IN BUCKASH FACILITY WITH SENIOR SENSITIVE COMFORT ROOM</p>	<p>PROJECT LOCATION: ETOY, BOLSONGUE, MONTENEGRO, CAGAI</p>	<p>DESIGNED BY: DECE RAE IM, ANOSTIC ULL, NIE</p>	<p>DESIGNED BY: WYONNE M. BACAY, LUIS A. BACAY</p>	<p>DESIGNED BY: JACKSON D. MANALAY, JOE NIE</p>	<p>DESIGNED BY: ENGR. ALBERT A. BARROD</p>	<p>DESIGNED BY: DR. R. ARRIA</p>	<p>PROJECT NO. 10 PAGE NO. 12</p>
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# SCHEDULE OF LOADS FOR LPP

NO.	LOAD DESCRIPTION	VOLTAGE (V)	POWER (VA)	CURRENT (AMP)	CIRCUIT PROTECTION	SIZE OF WIRE AND CONDUIT
C1	4- LIGHTING OUTLETS	240	48	0.20	15AT, 1P	3.5mm <sup>2</sup> THHN WIRE IN 20mmØ uPVC PIPE
C2	2- CONVENIENCE OUTLETS	240	360	1.50	20AT, 1P	3.5mm <sup>2</sup> THHN WIRE IN 20mmØ uPVC PIPE
C3	SPARE	240	1500	6.25	20AT, 1P	5.5mm <sup>2</sup> THHN WIRE IN 20mmØ uPVC PIPE
C4	SPARE	240	1500	6.25	30AT, 1P	5.5mm <sup>2</sup> THHN WIRE IN 20mmØ uPVC PIPE
TOTAL CONNECTED LOAD			3,408	14.20		

## DESIGN ANALYSIS

CIRCUIT 1  
LOAD: 4-12W (MAX.) LED LIGHT BULBS

I =  $(12W(4))/240 = 0.20A$   
USE: 15 AT, 1P, 240V CIRCUIT BREAKER  
3.5mm<sup>2</sup> THHN COPPER WIRE  
IN 20mmØ uPVC PIPE

CIRCUIT 2

2-180W (MAX.)  
I =  $180W(2)/240 = 1.50A$   
USE: 20 AT, 1P, 240V CIRCUIT BREAKER  
5.5mm<sup>2</sup> THHN COPPER WIRE  
IN 20mmØ uPVC PIPE

CIRCUIT 3

LOAD: 1-1500W (MAX.) SPARE  
USE: 30 AT, 1P, 240V CIRCUIT BREAKER  
I =  $1500W(1)/240 = 6.25A$

5.5mm<sup>2</sup> THHN COPPER WIRE  
IN 20mmØ uPVC PIPE

CIRCUIT 4

LOAD: 1-1500W (MAX.) SPARE  
I =  $1500W(1)/240 = 6.25A$   
USE: 30 AT, 1P, 240V CIRCUIT BREAKER  
5.5mm<sup>2</sup> THHN COPPER WIRE  
IN 20mmØ uPVC PIPE

## SPECIFICATIONS

THE WORK AND WIRING SHALL BE PATTERNED ON ALBRI, TO LINE SYSTEM AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND WITH THE RULES & REGULATIONS OF THE NATIONAL ELECTRIFICATION ADMINISTRATION AND THE LOCAL AUTHORITY & THE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY COMPANY.

TYPE OF WIRING SHALL BE IN TV ON NONMETALLIC CONDUIT PIPE FOR LIGHTING OUTLETS, SPECIAL PURPOSE OUTLETS, LIGHTING SWITCHES & SERVICE ENTRANCE CONCEALED IN EITHER CONCRETE WALLS, STRUCTURES OR CEILING.

WIRES TO BE USED SHOULD NOT BE LESS THAN AS FOLLOWS:

SERVICE ENTRANCE No. 22mm<sup>2</sup> THW

LIGHTING OUTLETS No. 5.0mm<sup>2</sup> THW

CONVENIENCE OUTLETS No. 3.5mm<sup>2</sup> THW

MOUNTING HEIGHT OF THE FOLLOWING SHOULD NOT BE LESS THAN AS FOLLOWS:

SERVICE ENTRANCE 1.85 A.F.F.L.

LIGHTING OUTLET 1.40 A.F.F.L.

CONVENIENCE OUTLET 0.30 A.F.F.L.

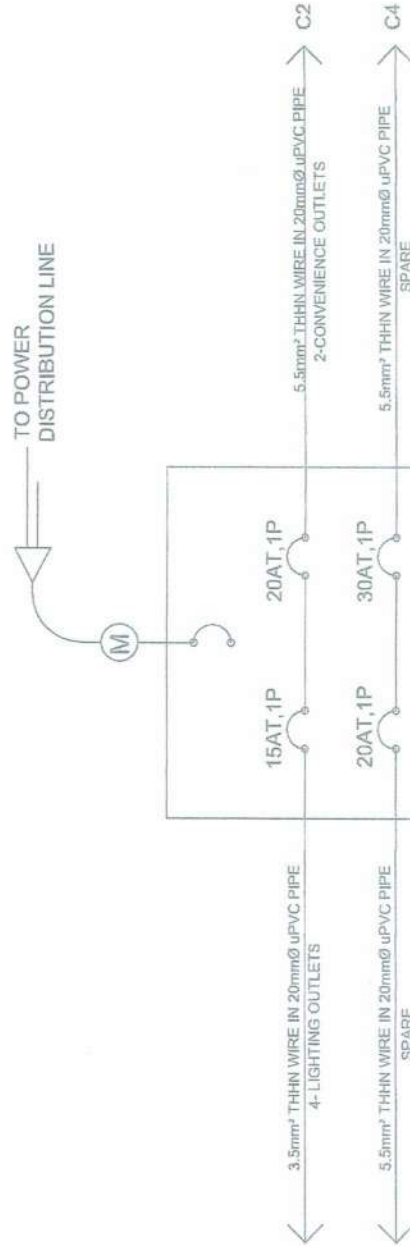
ELECTRICAL MATERIALS TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR LOCATION & PURPOSE.

PULL BOXES, JUNCTION/UTILITY BOXES SHALL BE PROVIDED EVEN IF NOT SHOWN IN THE DRAWING TO ACCOMMODATE THE NUMBER OF SPICES OF WIRES.

ALL WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

NO REVISION SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE OF THE DESIGNER. ANY SUCH ACTION WITHOUT SUCH APPROVAL SHALL CAUSE THE RESPONSIBILITY OF THE DESIGNER TO CEASE AS A WHOLE.

TO POWER  
DISTRIBUTION LINE



## SINGLE LINE DIAGRAM

	EXPANSION OF WORKING AREA IN BOZASHI FACILITY WITH GENDER SENSITIVE COMFORT ROOM	GENERAL NOTES -SCHEDULE OF LOADS -PANEL BOARD DIAGRAM	DESIGNED BY DECORAE M. AROSTIGUE, EIT CHECKED BY YVONNE GRACIA, EIT	APPROVED BY MIGUEL D. MANAAY, ABE, MEE (SEAL)	ENGINEER ALBERT A. BARRIDO (SEAL)	<div> <div> E </div> <div>2</div> </div> <div> <div>11</div> <div>12</div> </div>
	PROJECT LOCATION BINO, JONSONGARGO, PORTIVISION, CAGAI	PROJECT NO. 2024-0001	SHEET NO. 11	DATE 2024-00-00	SCALE 1:1	PROJECT NO. 2024-0001

SPUR NO.		SPUR NO. :	
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