



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

DETAILED ENGINEERING DESIGN PLANS


**ESTABLISHMENT OF DASAL SOLAR-POWERED
IRRIGATION SYSTEM**
(HVCDP 2025)

BRGY. DASAL, SIBUNAG, GUIMARAS

Submitted by:


MOISES D. MANA-AY, ABE
Engineer V (License No. 0006077)
Chief, RAED

Recommending Approval:


MARIA TERESA T. SOLIS
OIC RTD for Operations

Approved by:


DENNIS R. ARPJA
Regional Executive Director

THE SITE

Brgy. Dasal, Sibunag, Guimaras

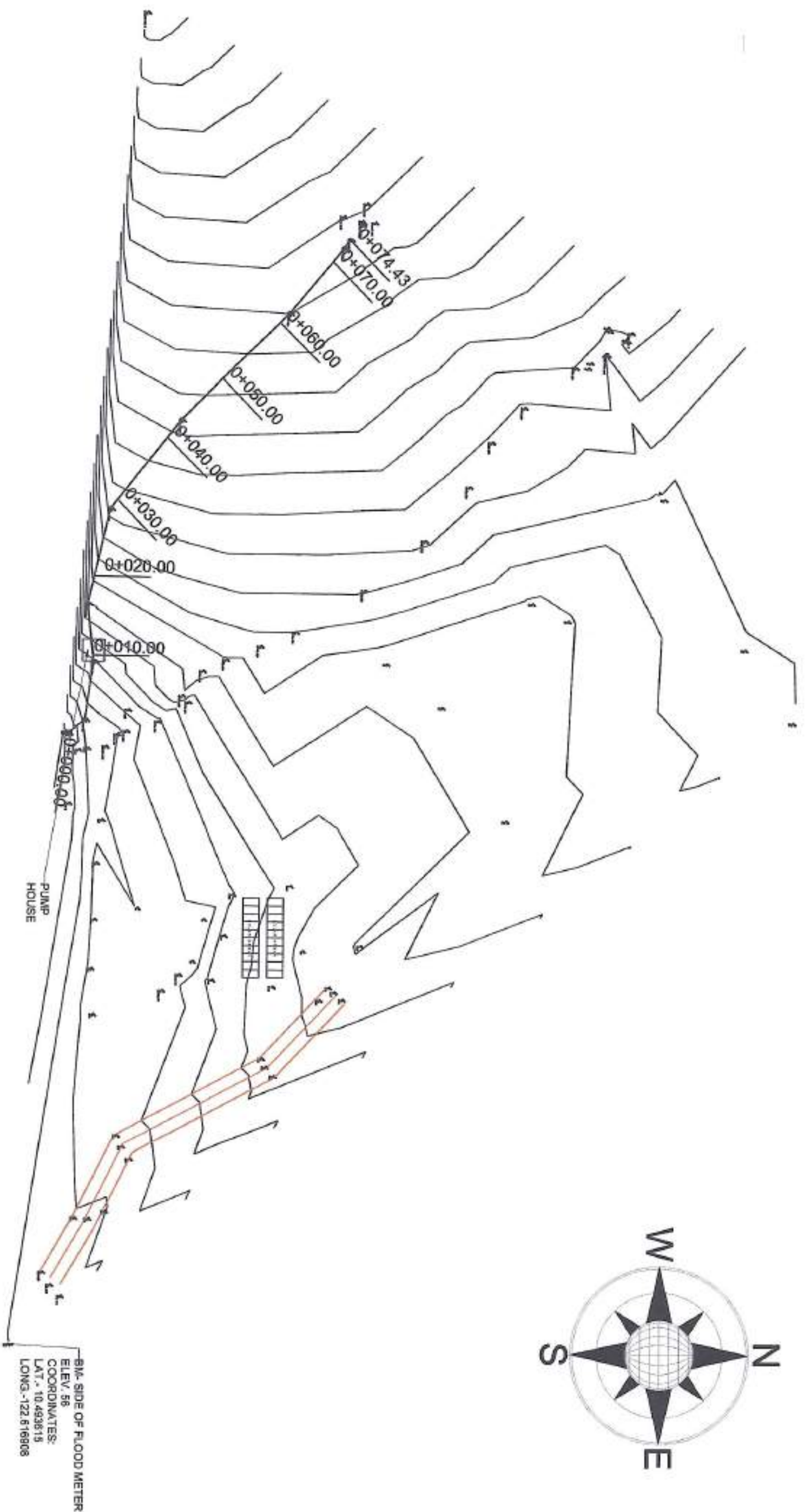
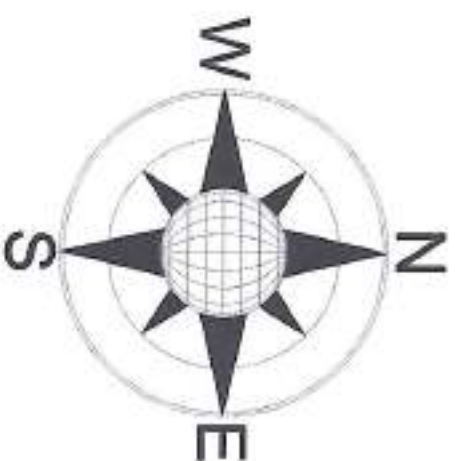


LOCATION MAP



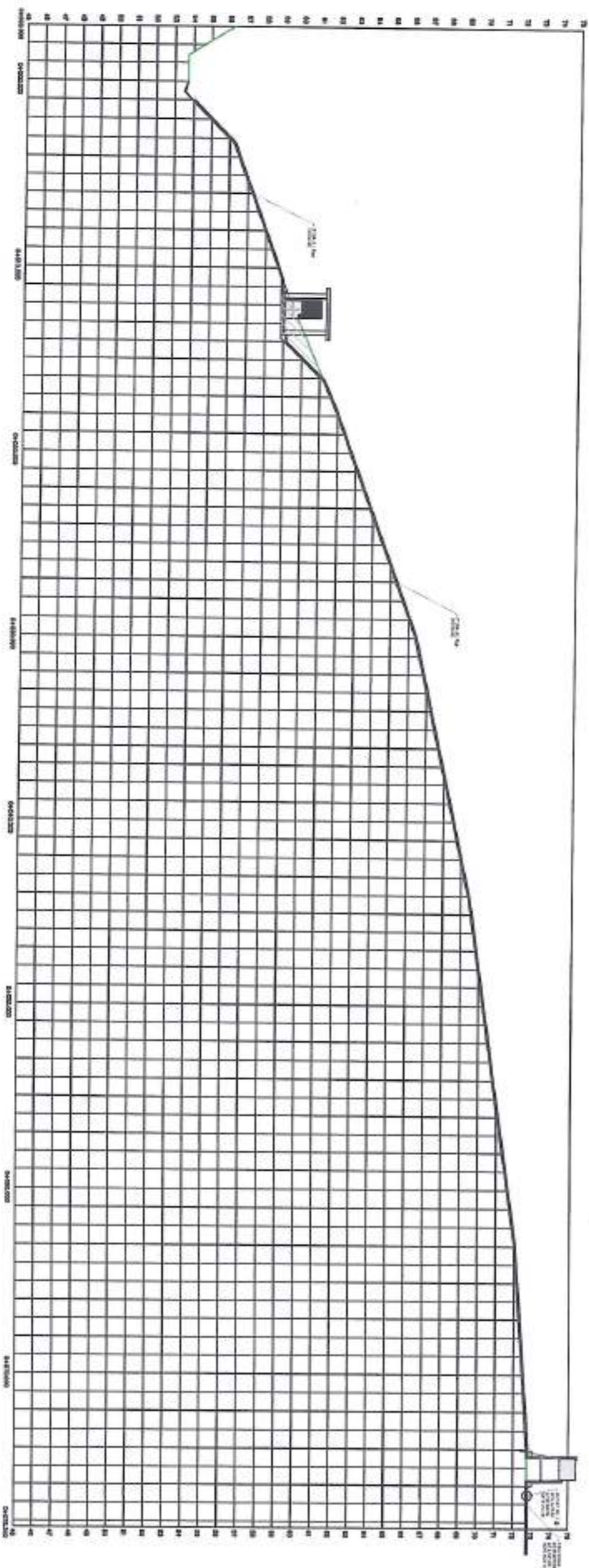
PERSPECTIVE

Item No	Scope of Works	Quantity	Unit
I GENERAL ITEM			
SPL 1	TEMPORARY FACILITY	1.00	lot
SPL 2	PROJECT MARKER & SIGNBOARD/BILLBOARD (1.4'x8' and 1.8'x8') and Project Marker	1.00	lot
SPL 3	MOBILIZATION / DEMOBILIZATION	1.00	lot
II POWER HOUSE			
803	STRUCTURE EXCAVATION	12.64	cum
1707	GRAVEL BEDDING	0.40	cum
404	REINFORCING STEEL BARS	605.51	kg
414	FORMWORKS	36.23	sqm
405	CONCRETE WORKS (Class A)	4.50	cum
1046	MASONRY WORKS	13.14	sqm
1027	PLASTERING	38.18	sqm
1006	PRE-FABRICATED DOOR	1.00	lot
1801	STRUCTURE BACKFILL	2.40	cum
III MOUNTING STRUCTURES, SOLAR MODULES, INVERTERS & CONTROLLER AND PUMP			
803	STRUCTURE EXCAVATION	0.76	cum
1707	GRAVEL BEDDING	0.13	cum
404	REINFORCING STEEL BARS	146.09	kg
414	FORMWORKS	16.80	sqm
405	CONCRETE WORKS (CLASS B)	0.88	cum
SPL 4	SOLAR POWER MODULE MOUNTING STRUCTURE	1.00	lot
SPL 5	SOLAR POWER MODULES (9900WP - minimum)	1.00	lot
SPL 6	INVERTER & CONTROLLER - (7.5KW minimum)	1.00	unit
SPL 7	SOLAR PUMP (SURFACE, 7.5HP)	1.00	unit
IV ELEVATED TANK			
803	STRUCTURE EXCAVATION	1.58	cum
404	REINFORCING STEEL BAR	117.21	kg
405	CONCRETE WORKS - Class A	1.33	cum
403	STORAGE TANK METAL FRAME	1.00	lot
1201 (8)	INSTALLATION OF WATER TANK, PIPES, VALVES & FITTINGS	1.00	lot
1801	STRUCTURAL BACKFILL	0.25	cum



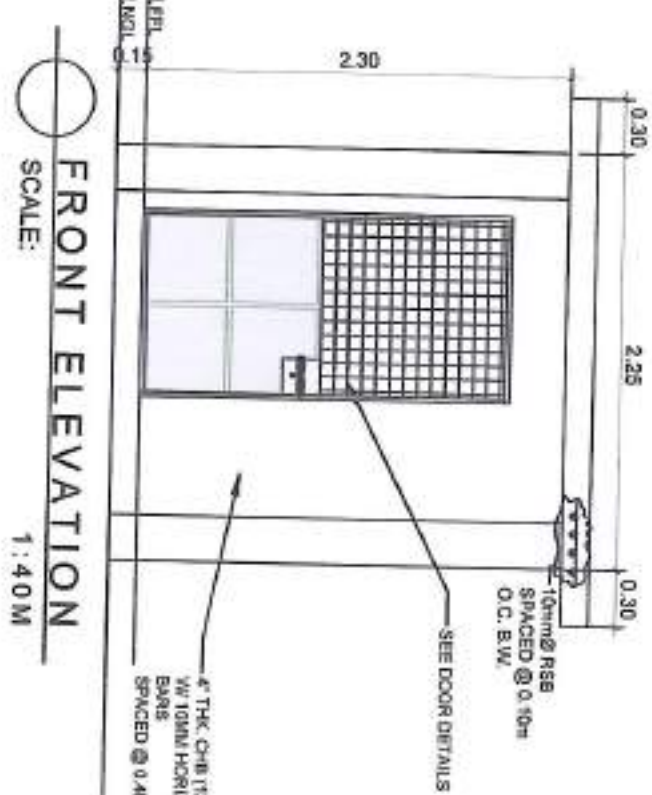
FARM PLAN
SCALE: 1:500M

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM BRGY. DASAL, SIBUNAG, GUIMARAS</p>	<p>FARM PLAN</p>	<p>DESIGNED BY: <i>[Signature]</i> ENGINEER IN AGRICULTURE</p>	<p>YVONNE GRACE S. ABLE Head of the Office of the Agricultural Extension</p>	<p>MOISES D. MANAAY ABLE The State Engineer in Agriculture District Office</p>	<p><i>[Signature]</i> MARIA TERESA T. SOTOS Head of the Office of the Agricultural Extension</p>	<p><i>[Signature]</i> JAMES R. ABRA District Office of the Agricultural Extension</p>	<p>SHEET NO. 2 OF 10</p>
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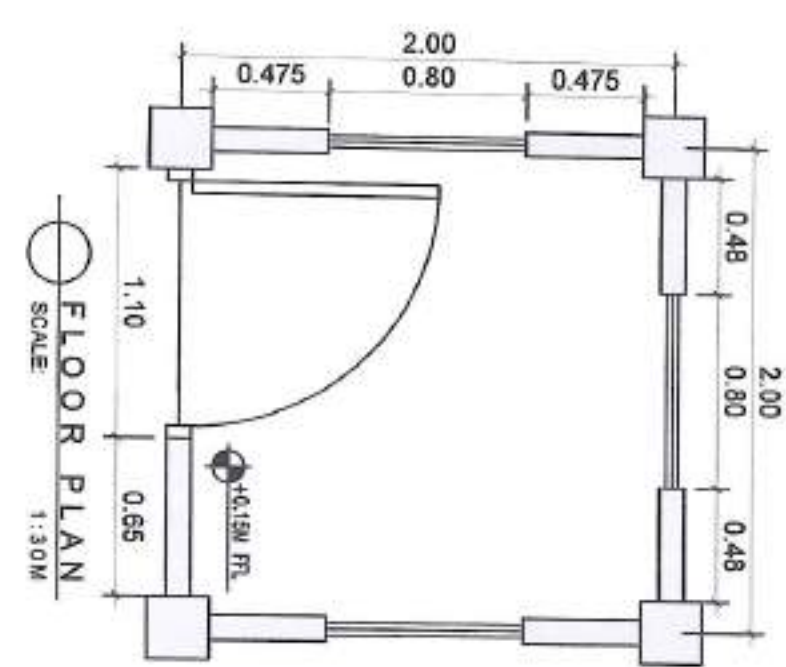



P I P E P R O F I L E
SCALE: 1:250M

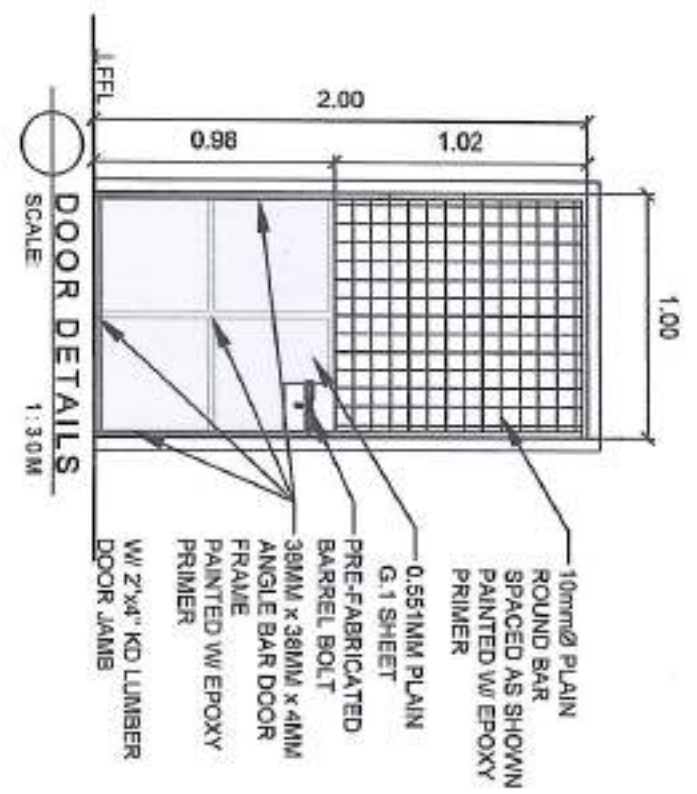
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PANOLA, ILOILO CITY		PROJECT TITLE: ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM BRGY. DASAL, SIBUNAG, GUIMARAS		SHEET NO.: PIPE PROFILE		DESIGNED BY:  Dicerac M. Aristocillo Registered Professional Engineer		CHECKED BY:  YVONNE D. MANGANAY, ABE Registered Professional Engineer		NOTED BY:  MOISES D. MANGANAY, ABE Registered Professional Engineer		REVIEWED BY:  MARIA TERESA T. SOLIS Registered Professional Engineer		APPROVED BY:  JOSEPH N. ARPJA Registered Professional Engineer		SHEET NO.: 3 OF 10	
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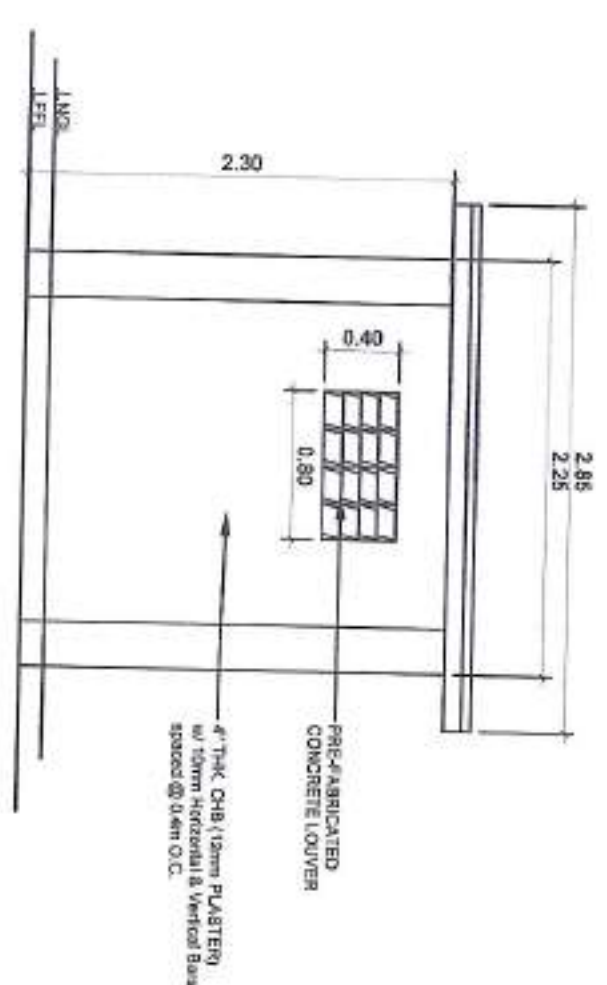
FRONT ELEVATION
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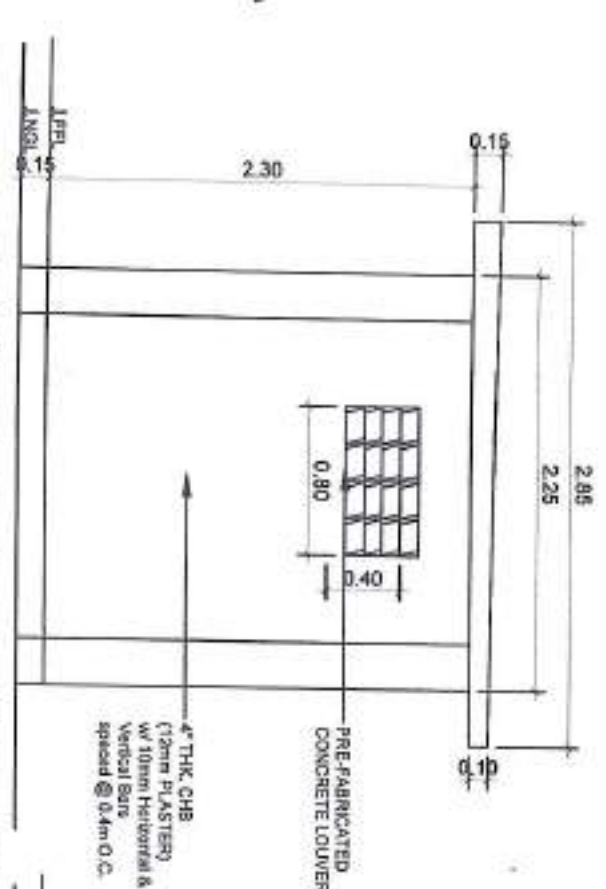
FLOOR PLAN
SCALE: 1:30M



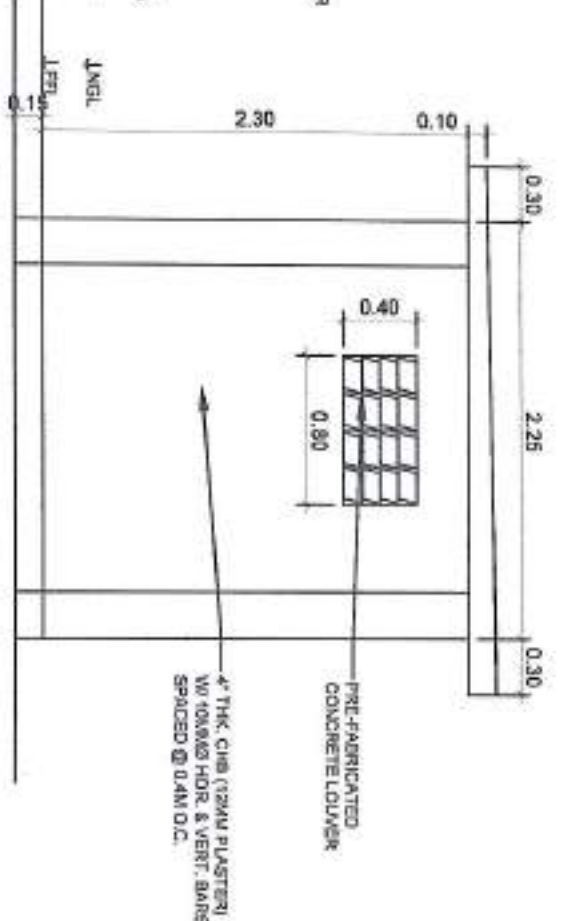
DOOR DETAILS
SCALE: 1:30M



REAR ELEVATION
SCALE: 1:40M



RIGHT SIDE ELEVATION
SCALE: 1:40M



LEFT SIDE ELEVATION
SCALE: 1:40M



REPUBLIC OF THE PHILIPPINES
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WESTERN VISAYAS
PANOLA, ILOILO CITY

ESTABLISHMENT OF
SOLAR-POWERED
IRRIGATION SYSTEM
BRGY. DASAL, SIBUNWAG,
GUINABAT

DESIGNED BY
YVONNE G. MAMAY-AY
ARCHITECT

CHECKED BY
MARGES D. MAMAY-AY
ARCHITECT

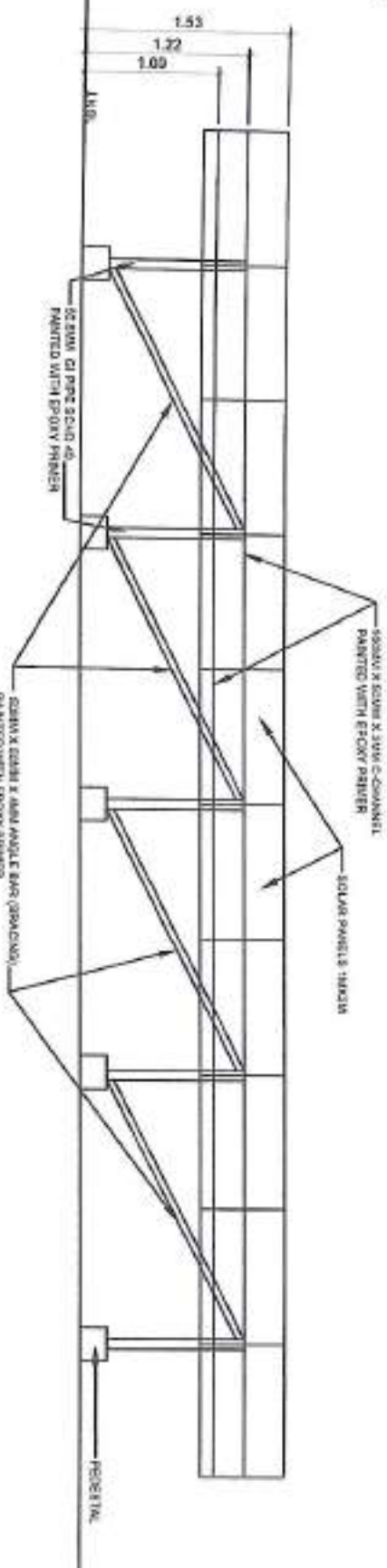
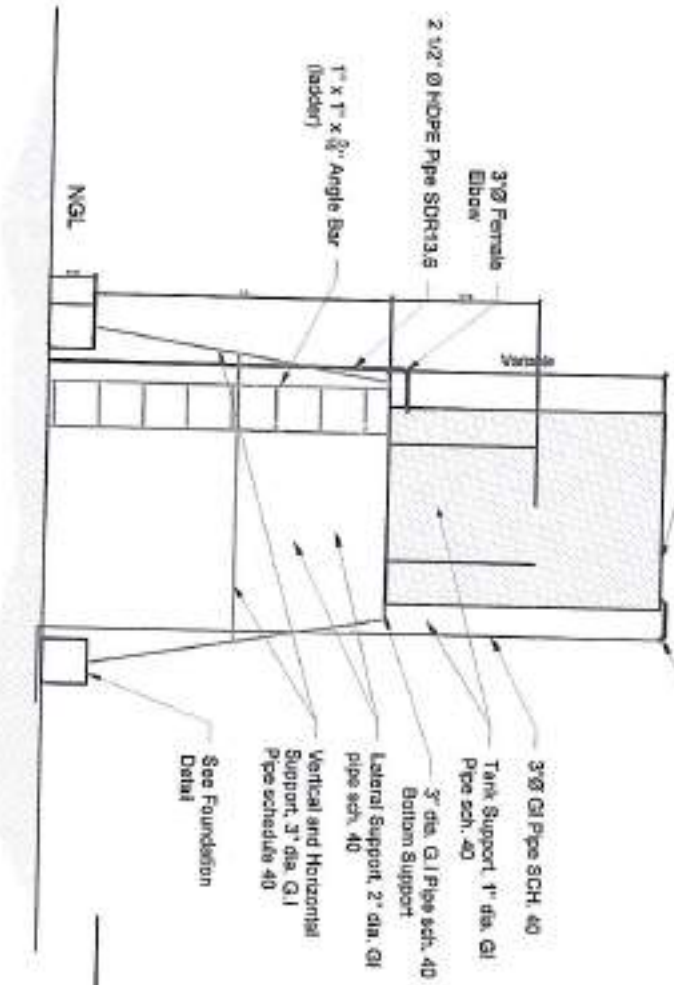
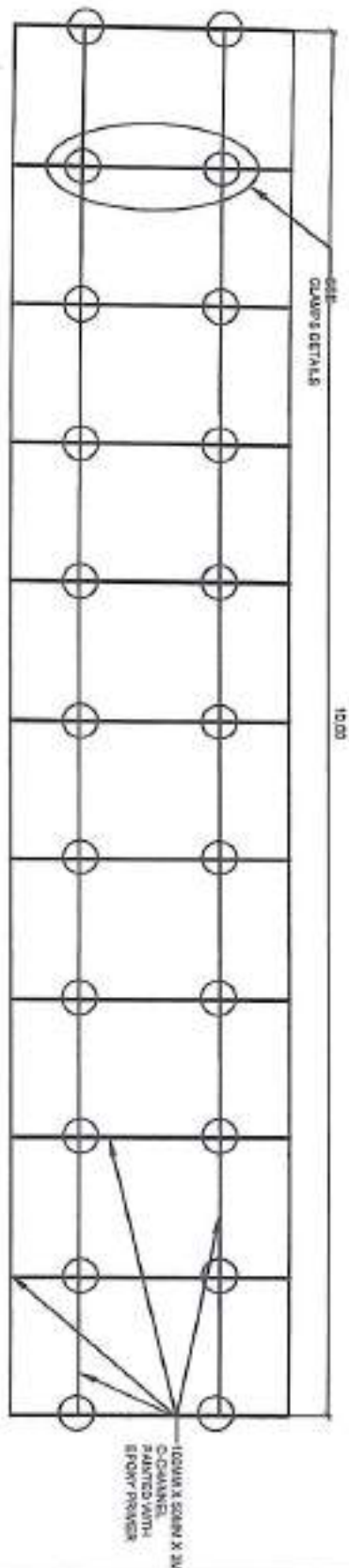
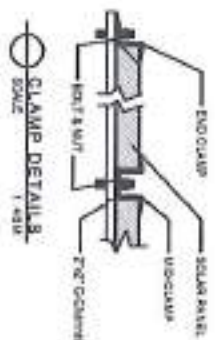
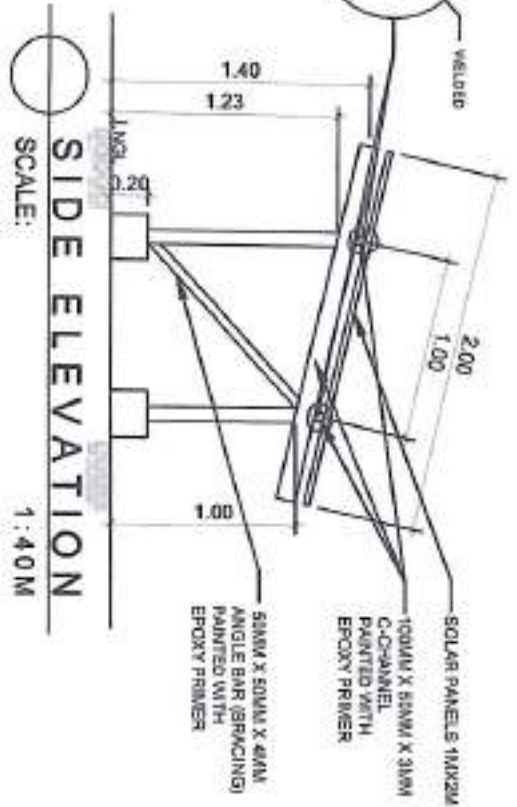
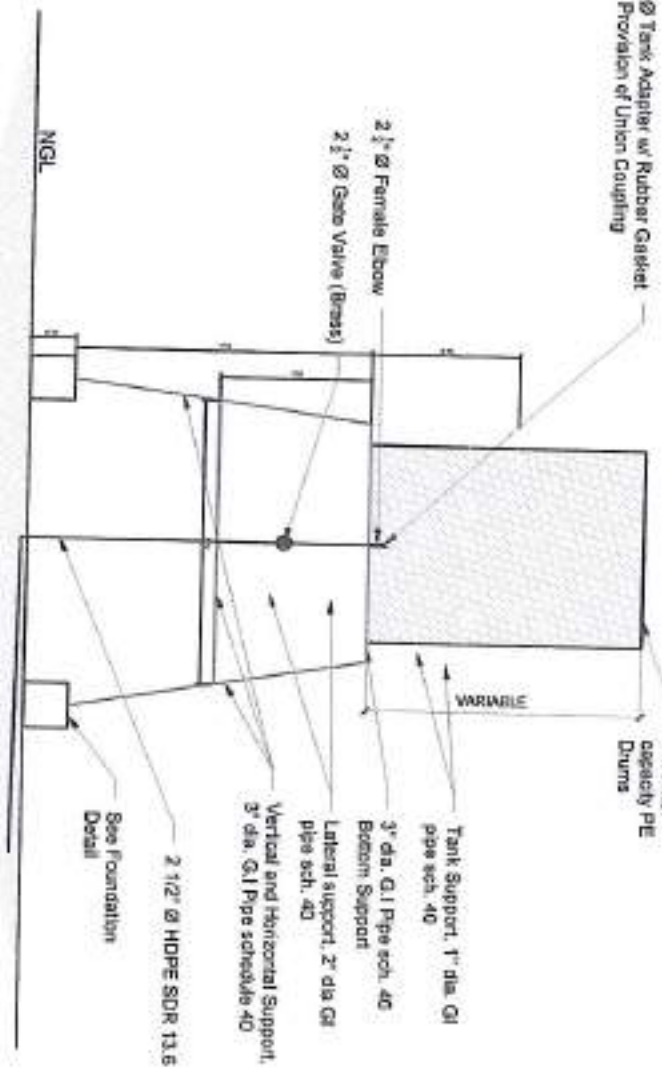
APPROVED BY
MARIA TERESA T. SOLIS
ARCHITECT

DATE
4/10/2024

SCALE
1:40M

2" Ø Tank Adapter w/ Rubber Gasket and Provision of Union Coupling

2000-Liter Capacity PE Drums



REPUBLIC OF THE PHILIPPINES
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WESTERN VISAYAS
PAROLA, ILOILO CITY

ESTABLISHMENT OF
SOLAR-POWERED
IRRIGATION SYSTEM
BRGY. DASAL, SIBUNAG,
GUIMARAS

DESIGNED BY:
ELEVATED TANK DETAILS
-ELEVATIONS
-ELEVATIONS
-TOP VIEW
-CLAMP DETAILS

DESIGNED BY:
ELEVATED TANK DETAILS
-ELEVATIONS
-ELEVATIONS
-TOP VIEW
-CLAMP DETAILS

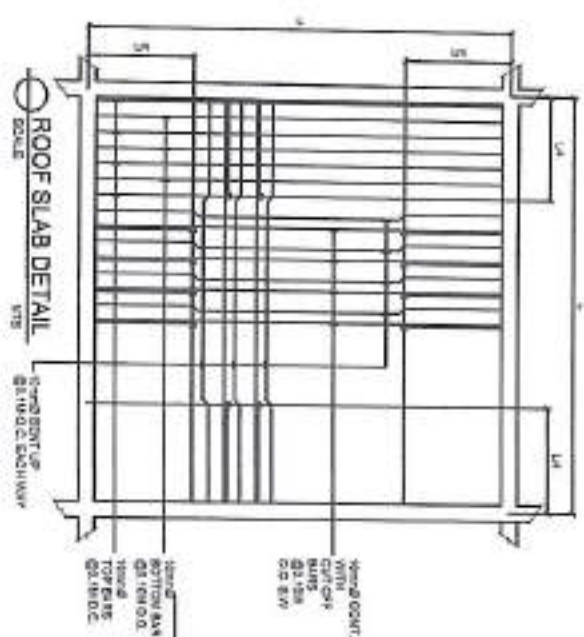
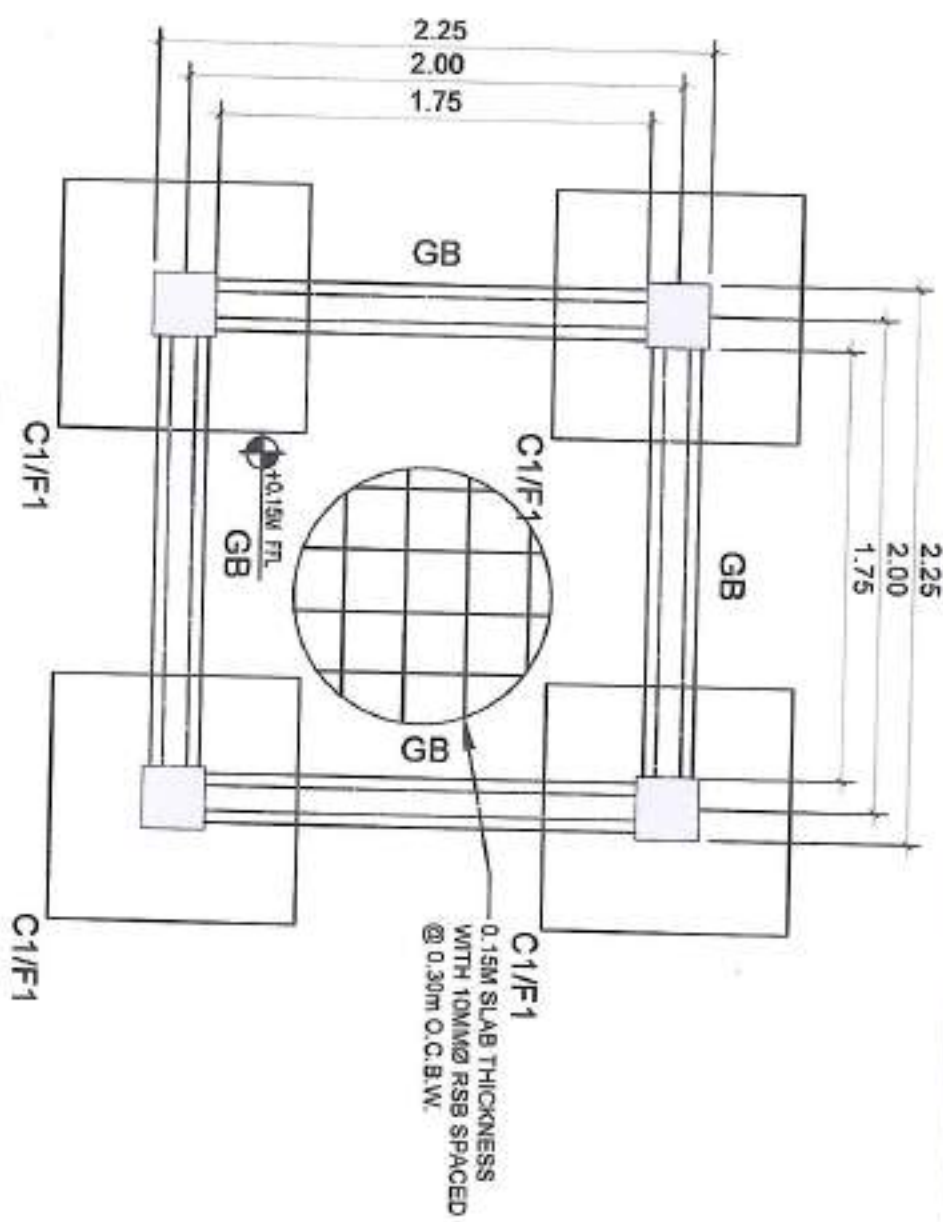
DESIGNED BY:
ELEVATED TANK DETAILS
-ELEVATIONS
-ELEVATIONS
-TOP VIEW
-CLAMP DETAILS

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ELEVATED TANK DETAILS
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DESIGNED BY:
ELEVATED TANK DETAILS
-ELEVATIONS
-ELEVATIONS
-TOP VIEW
-CLAMP DETAILS

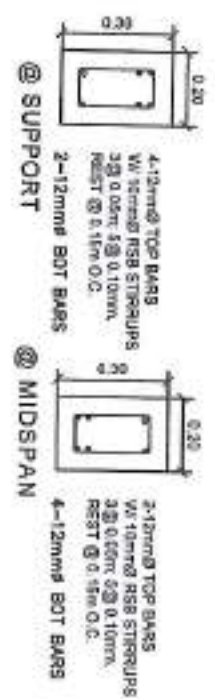
DESIGNED BY:
ELEVATED TANK DETAILS
-ELEVATIONS
-ELEVATIONS
-TOP VIEW
-CLAMP DETAILS



FOUNDATION PLAN
SCALE: 1:30M



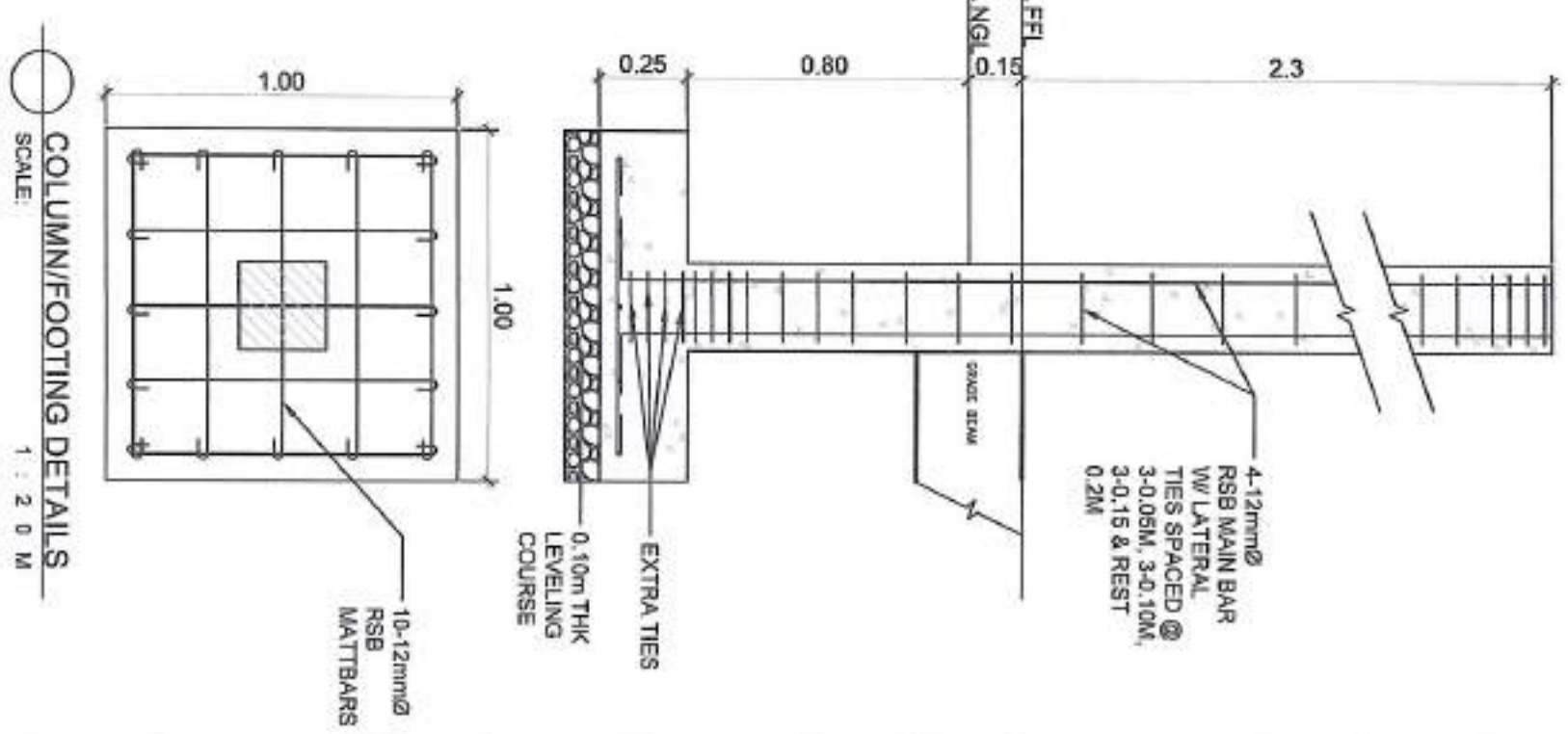
ROOF BEAM DETAILS
SCALE: 1:20M



GRADE BEAM DETAILS
SCALE: 1:20M



TYPICAL BEAM SECTION
SCALE: NTS



PROJECT NAME: ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM, BRGY. DASAL, SIBUNAG, GUIMARAS



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

ESTABLISHMENT OF
SOLAR-POWERED
IRRIGATION SYSTEM
BRGY. DASAL, SIBUNAG,
GUIMARAS

PROJECT NO. 1
SUBJECT: FOUNDATION PLAN, ROOF AND GRADE BEAM DETAILS, TYPICAL BEAM DETAILS, COLUMN FOOTING DETAILS, ROOF SLAB DETAILS

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APPROVED BY: [Signature]

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CHECKED BY: [Signature]
APPROVED BY: [Signature]

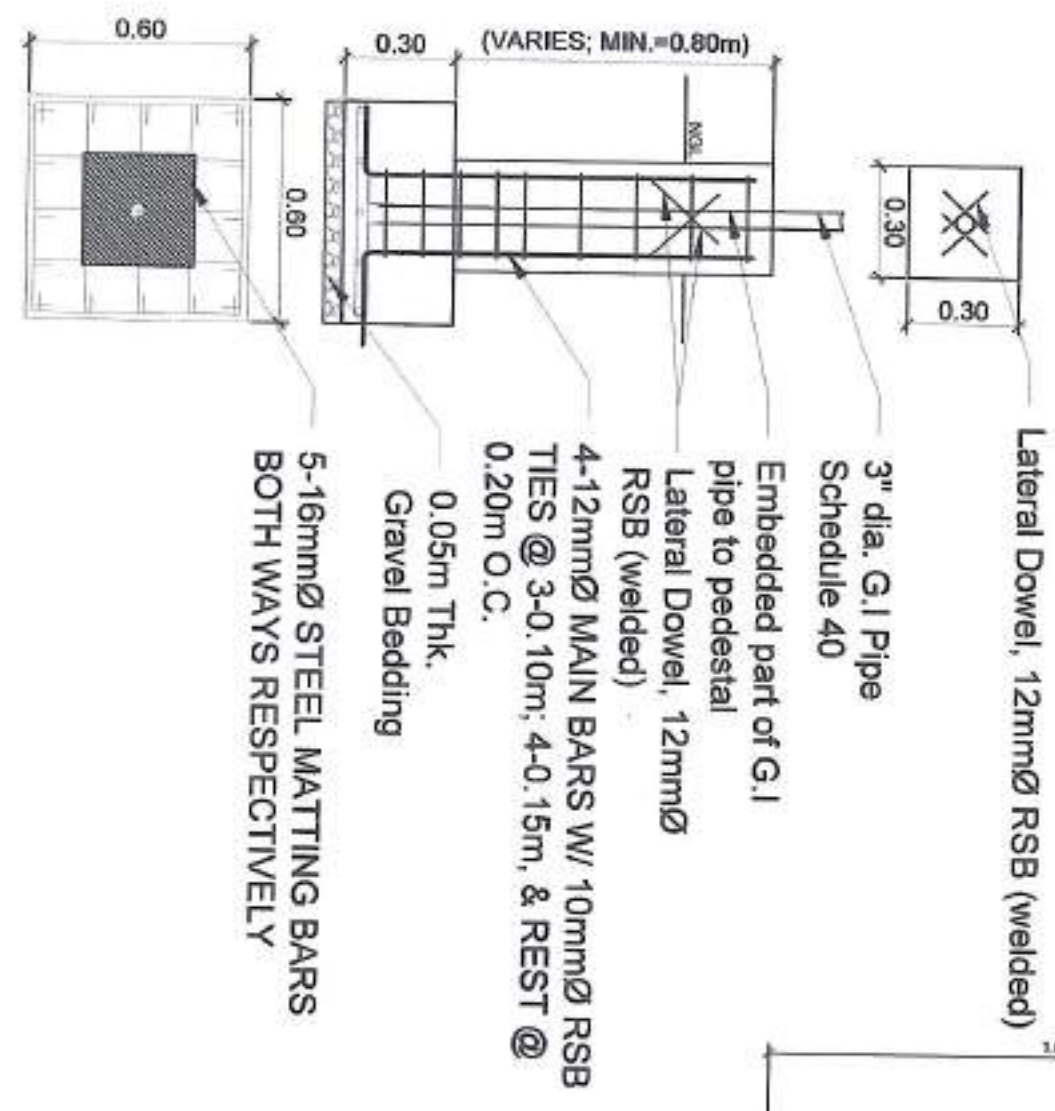
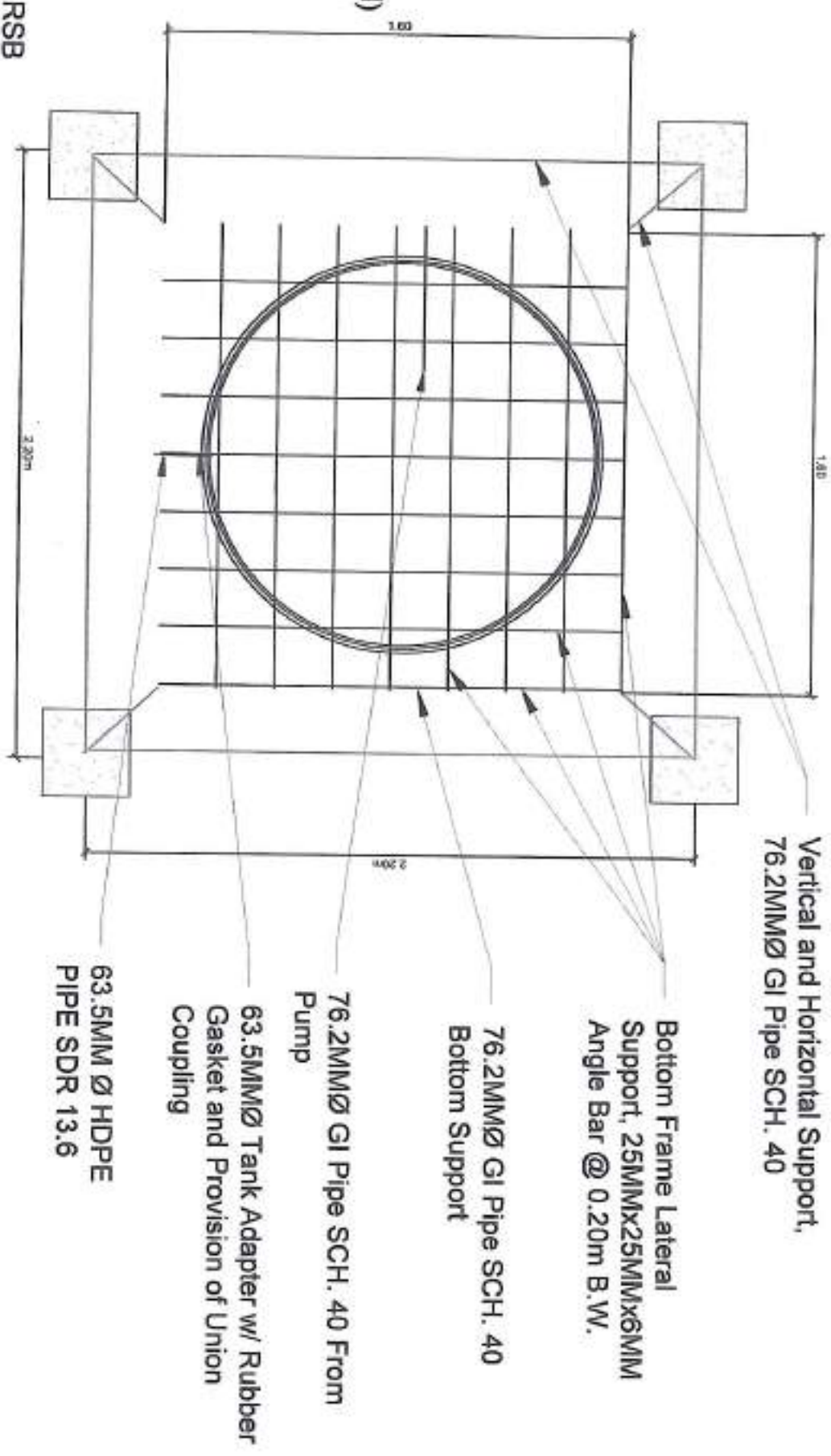
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CHECKED BY: [Signature]
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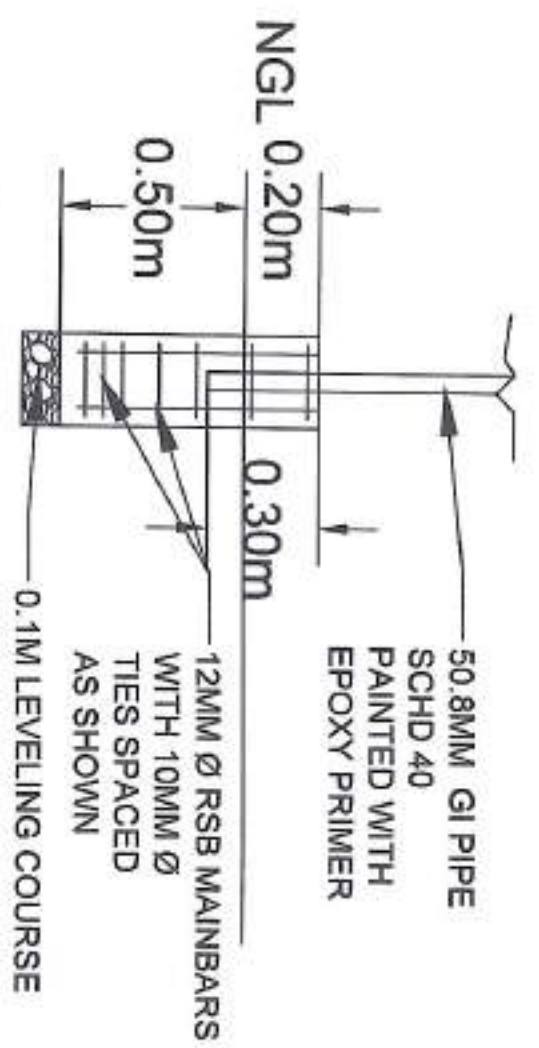
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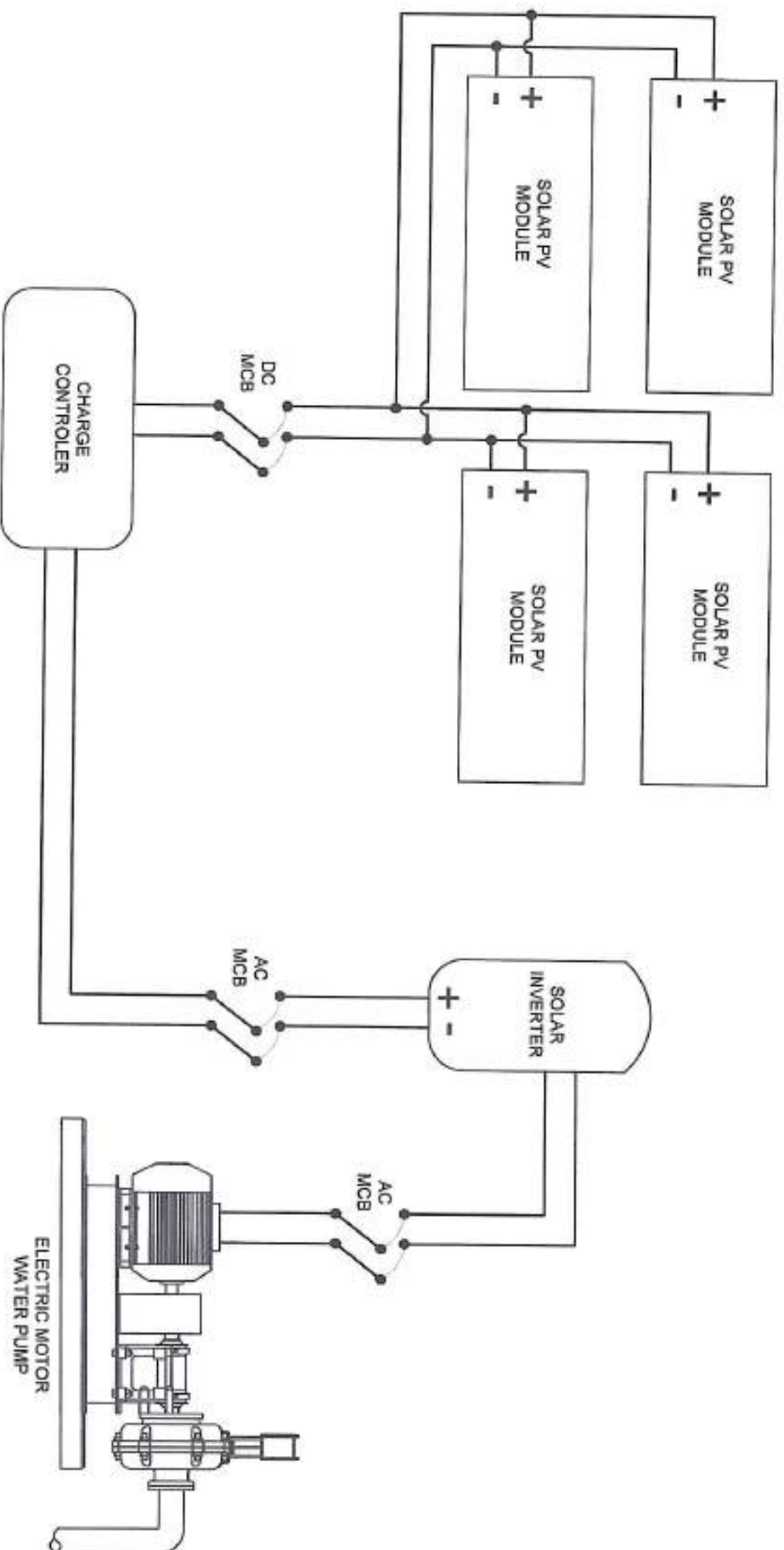
FOUNDATION DETAILS

SCALE: 1 : 3 0 M



PEDESTAL DETAILS

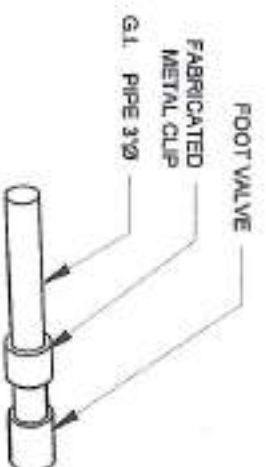
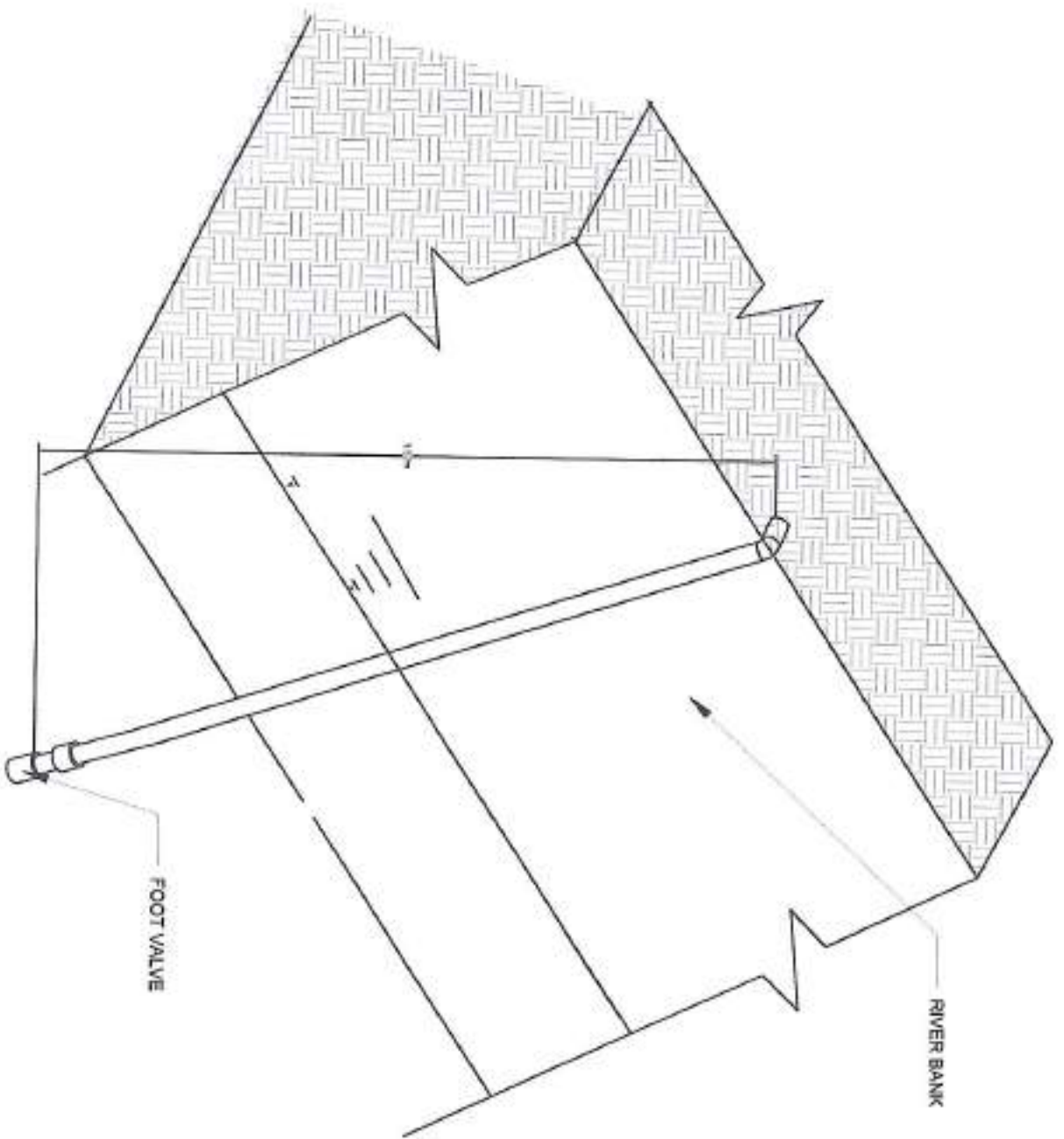
SCALE: 1 : 2 0 M



SOLAR POWER SCHEMATIC DIAGRAM

LEGEND:
 DC - DIRECT CURRENT
 AC - ALTERNATING CURRENT
 MCB - MINITURE CIRCUIT BREAKER
 SOLAR VP - SOLAR PHOTOVOLTAIC

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM BRGY. DASAL, SIRUNAG, GUILMARAS</p>	<p>SHEET NO. 3</p>	<p>DESIGNED BY: DIEGO RAE M. ARDSTON, ABIE</p>	<p>CHECKED BY: YVONNE LOMAYAN, ABIE</p>	<p>NOTED BY: MOISES D. MANAYAN, ABIE</p>	<p>RECOMMENDING APPROVAL: MARIA TERESA T. SOLIS</p>	<p>APPROVED: DANIEL ANITA</p>	<p>SHEET NO. 8 OF 10</p>
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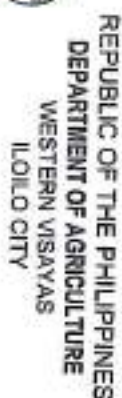


 **TYPICAL RIVER BANK & SUCTION DETAILS**

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PANDA, KILLO CITY		PROJECT NAME & LOCATION ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM BRGY. DASAL, SIBUNAG, GUIMARAS		PROJECT CONTENTS TYPICAL RIVER BANK AND SUCTION DETAILS -TRANSPIRATION DETAILS		DESIGNED BY  DR. RAE M. AROSTIGAL, MSc Regional Extension Specialist		CHECKED BY  YVONNE GARCIA, MSc, ASE Chief, Planning and Design Section		NOTED BY  MERISES D. MANABAY, ASE Chief, Field Extension Section		APPROVED BY  MARIA TERESA T. SOLIS District Extension Specialist		APPROVED BY  JUAN R. ARRA District Extension Specialist		PROJECT NO. 4 SCALE 9 10	
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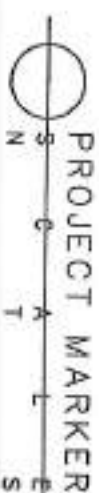
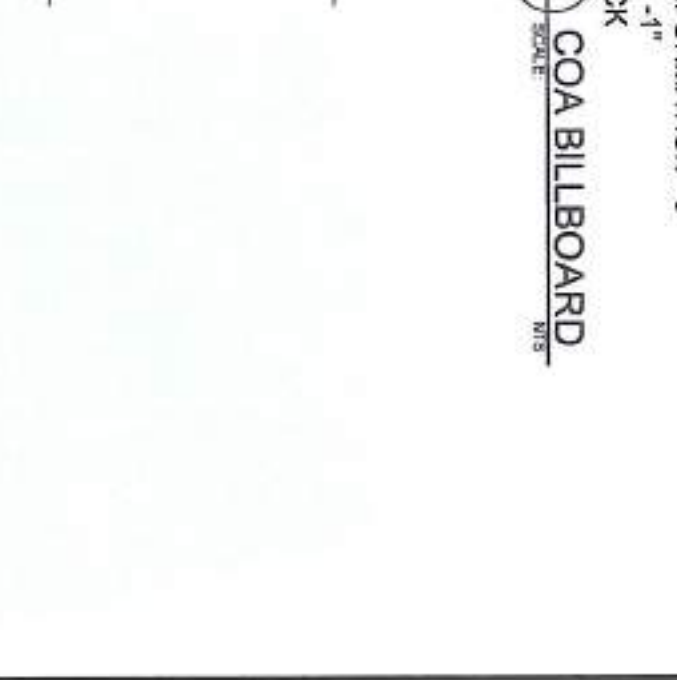
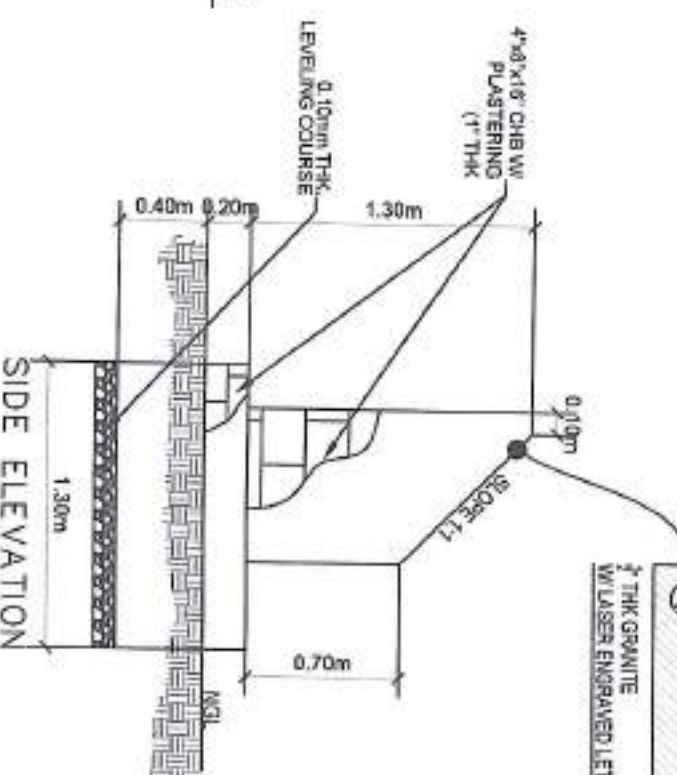
Location

DEPARTMENT OF AGRICULTURE FIELD OFFICE V
HWCDF (2025)



- THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE

SCALE	NTS
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 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAOALA, ILOILO CITY	
PROJECT PROFILE	
NAME OF PROJECT	ESTABLISHMENT OF SRS
LOCATION	BRGY. DALA, MARIANA, GUIMBARRAS
FUNDING SOURCE	HRDP (DAR)
BENEFICIARIES	
SERVICE AREA	
PROJECT COST (P)	

 <p style="text-align: center;">REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS SIOLO CITY</p>	
PROJECT :	ESTABLISHMENT OF SOLAR-POWERED IRRIGATION SYSTEM FUND SOURCES : HMOP (2025)
LOCATION :	SAGY, DASA, SIBUNAO, GUIMBARRA
IMPLEMENTING AGENCY :	DEPARTMENT OF AGRICULTURE FIELD OFFICE VI
DEVELOPMENT PARTNERS :	
CONTRACTOR/SUPPLIER :	
BRIEF DESCRIPTION OF PROJECT :	

TARPAULIN, WHITE, 8 FT x 8 FT
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FONT: HELVETICA
FONT SIZE: MAIN INFORMATION - 3"
SUB INFORMATION - 1"
FONT COLOR: BLACK

TABLE 1