



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

DETAILED ENGINEERING DESIGN PLANS
ESTABLISHMENT OF BAYUYAN
SOLAR-POWERED IRRIGATION SYSTEM
(HVCDP 2025)

BRGY. BAYUYAN, PRESIDENT ROXAS, CAPIZ

Submitted:


ENGR. MOISES D. MANA-AY, MEE
Engineer V (License No. 00060777)
Chief, RAED

Recommended:

Approved:


DENNIS R. ARPILA
Regional Executive Director

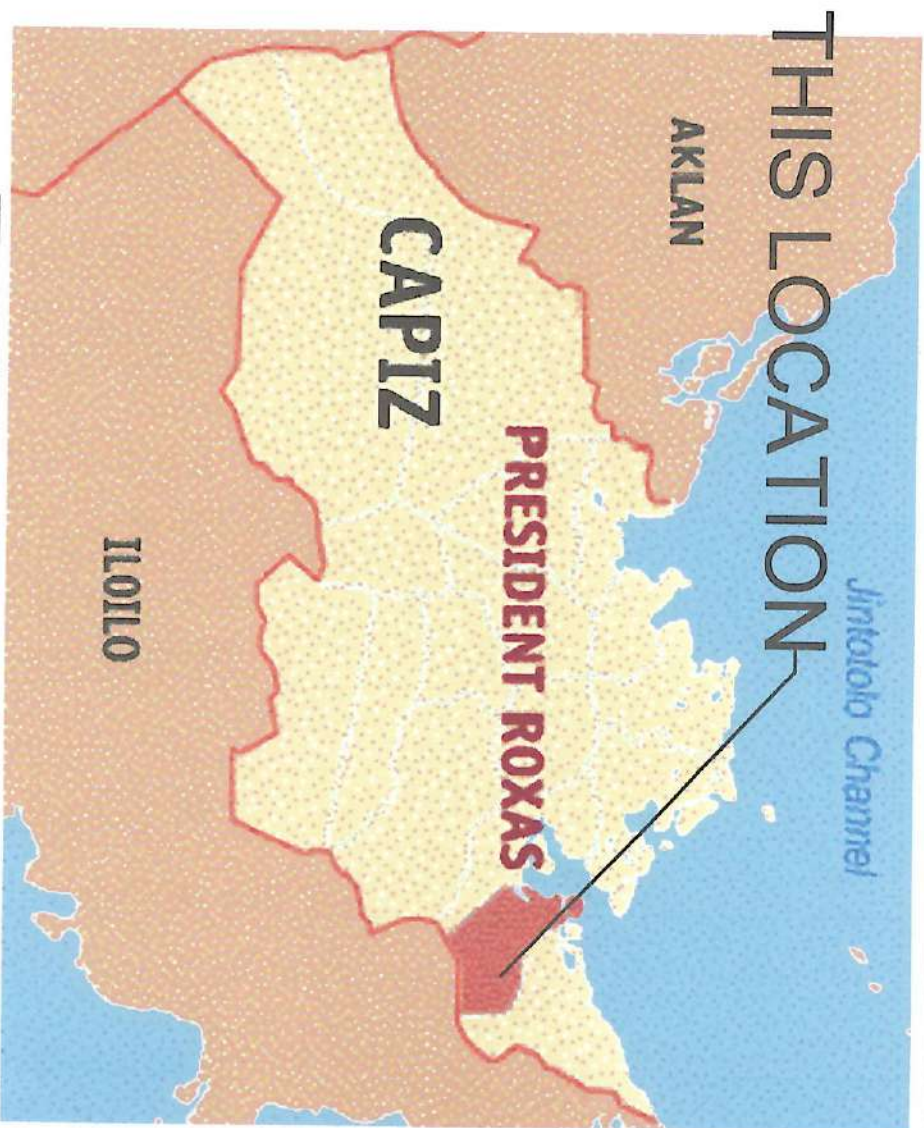


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LOCATION MAP	

TECHNICAL DATA
PUMP: 1 UNIT 4hp SUBMERSIBLE PUMP
INVERTER/CONTROLLER: 1 UNIT 4kw
SOLAR PANEL: 10 SOLAR MODULES (550 WATT-PEAK/MODULE)
TOTAL POWER: 5,500 watt-peak
CONVEYANCE: 55 meters - 3" dia. HDPE PIPE SDR 11 (PE100) from Pump to Tank 170 meters - 3" dia. HDPE SDR 17 (PE100) Distribution Pipe.
SERVICE AREA: 3 ha.
DISCHARGE: 41.12 cu.m./hr.

BUREAU/INCHARGE AGENCY		PROJECT NAME & LOCATION :		SHEET CONTENTS :		PREPARED BY :		REVIEWED BY :		CHECKED/SUBMITTED BY :		RECOMMENDING APPROVAL :		APPROVED BY :		SHEET NO. :	
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY		ESTABLISHMENT OF BAYUVAN SPIS BRGY. BAYUVAN, PRESIDENT ROXAS, CAPIZ		TABLE OF CONTENTS -LOCATION MAP -TECHNICAL DATA		JHONALYN B. BAUTISTA, ABE Engineer (License No. 0005731)		YVONNE GRACE A. SUR, ABE Head Engineer (License No. 0005970) Specialized Section		ENGR. MOISES D. MANA-AY, MEE Engineer (License No. 0006077) Chief, Field				JANIS R. ARPIA Regional Executive Director		1 9	



Item No.	Scope of Works	Quantity	Unit
SPL1	TEMPORARY FACILITY	1.00	lot
B.16 & B.5	PROJECT MARKER & SIGNBOARD/BILLBOARD (1.4'x8' and 1.8'x8')	1.00	lot
B.9	MOBILIZATION/DEMOBILIZATION	1.00	lot
B.7 (2)	OCCUPATIONAL SAFETY AND HEALTH	1.00	lot
I	SOLAR PUMP/ARRAY/MOUNTING STRUCTURE		
803	STRUCTURE EXCAVATION (FOR FOUNDATION/PEDESTAL)	2.09	m3
1708	LEVELLING COURSE	0.40	m3
404	REINFORCING STEEL BARS	128.46	kg
414	FORMWORK	15.36	m2
405	CONCRETE FOUNDATION/PEDESTAL (Class B)	1.92	m3
1705	STRUCTURE BACKFILL	1.50	m3
1	SOLAR POWER MODULE MOUNTING STRUCTURE	1.00	lot
2	SOLAR POWER MODULES (Mono-crystalline-5,500 watt-peak)	1.00	lot
3	INVERTER & CONTROLLER - 4 KW	1.00	unit
4	SOLAR PUMP (SUBMERSIBLE) - 4 HP	1.00	unit
5	INVERTER & CONTROLLER BOX	1.00	lot
III	ELEVATED TANK		
803	STRUCTURE EXCAVATION	1.44	m3
405	CONCRETE WORKS (Class A)	0.72	m3
404	REINFORCING STEEL BAR	94.32	kg
SPL2	STORAGE TANK METAL FRAME	1.00	lot
1201 (8), 1602 & 1613	INSTALLATION OF WATERTANK, PIPES, VALVES & FITTINGS	1.00	lot
1705	STRUCTURAL BACKFILL	0.72	m3

PERSPECTIVE VIEW

SCALE:

1:500

DESIGNING AGENCY:



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

PROJECT NAME & LOCATION:

ESTABLISHMENT OF
BAYUVAN SPIS
BRGY. BAYUVAN, PRESIDENT
ROXAS, CAPIZ

SHEET CONTENTS:

PERSPECTIVE VIEW
SUMMARY OF QUANTITIES

PREPARED BY:

Josephine R. Bautista
JOSEPHINE R. BAUTISTA, ABE
Engineer (License No. 005573)

REVIEWED BY:

Yvonne Grace L. Borja
YVONNE GRACE L. BORJA, ABE
Engineer (License No. 005570)
Head, Engineering Planning Division, and
Special Services Section

CHECKED/SUBMITTED BY:

Engr. Moises D. Manaya, Jr.
ENGR. MOISES D. MANAYA, JR., MEE
Engineer (License No. 005577)
Chief, Field

RECOMMENDING APPROVAL:

APPROVED BY:

Dr. R. Arpia
DR. R. ARPJA
Regional Executive Director

SHEET NO.:

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PAGE NO.:





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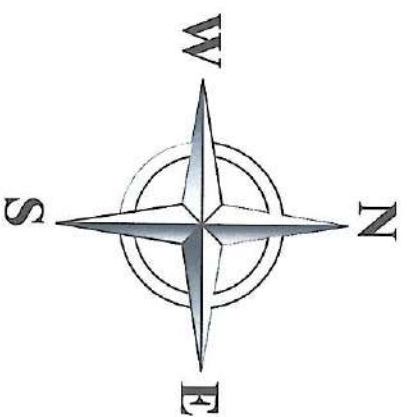
VICINITY MAP

SCALE: N T S

LEGEND :

-  BARANGAY ROAD
-  CREEK
-  BRGY. HALL
-  PROJECT SITE

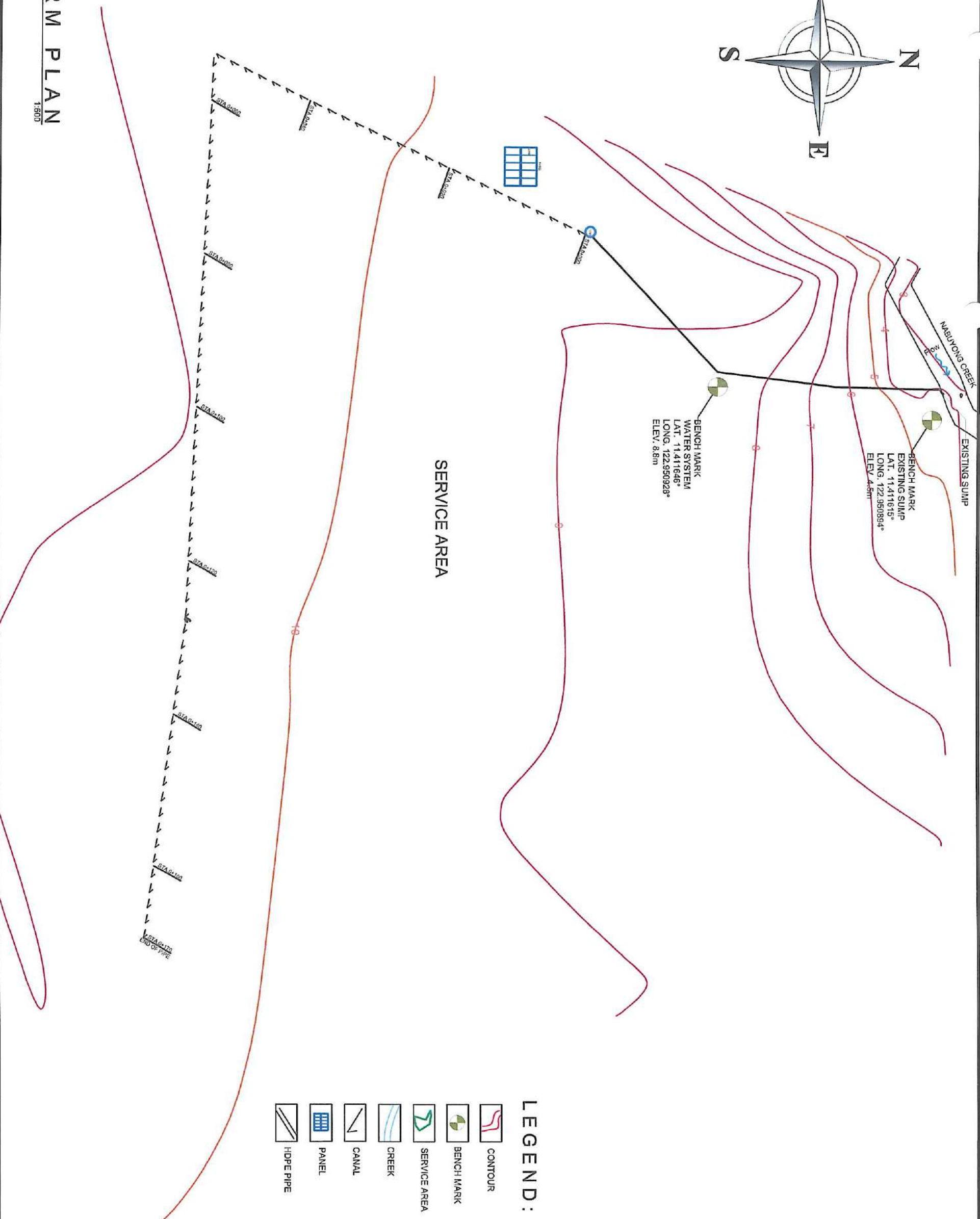
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILO ILO CITY		PROJECT NAME & LOCATION: ESTABLISHMENT OF BAYUYAN SPIS		SHEET CONTENTS: VICINITY MAP		PREPARED BY: JHONATHAN B. BAUTISTA, ABE Engineer (License No. 003573)		REVIEWED BY: YVONNE GRACE A. SIK, ABE Head, Engineer, and Designer, and Special Projects Section		CHECKED / SUBMITTED BY: ENGR. MOSES D. MANAAY, MEE (Engineer V (License No. 0006077)) Chief, MEE		RECOMMENDING APPROVAL:		APPROVED BY: DENNIS R. ARPIA Regional Executive Director		SHEET NO.: A PAGE NO.: 3 9	
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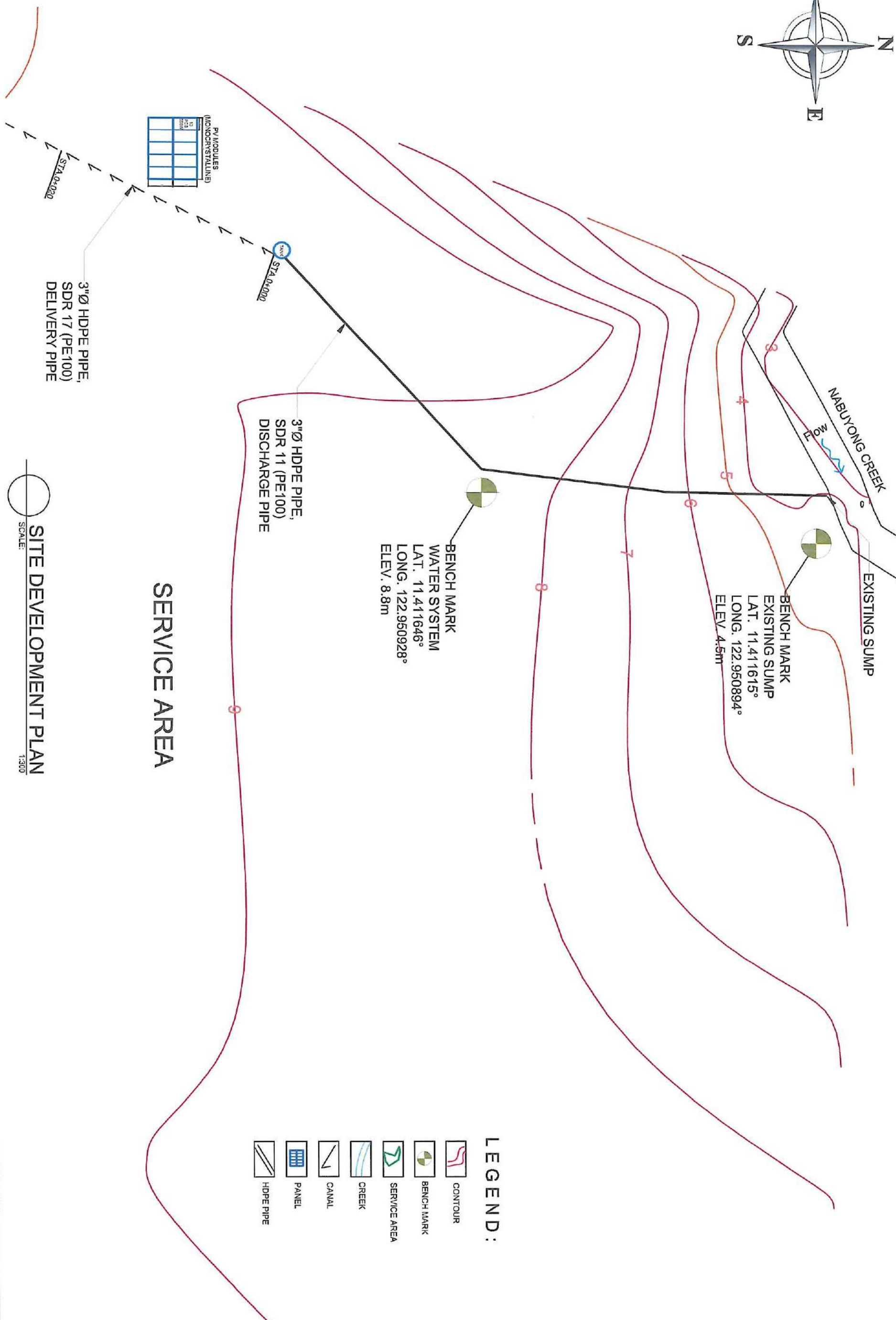
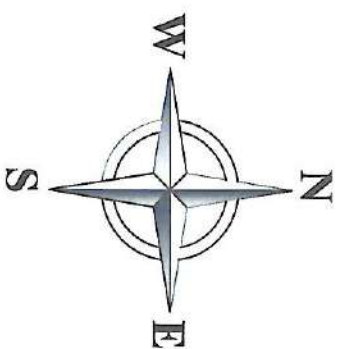
FARM PLAN

SCALE: 1:600

- LEGEND:**
- CONTOUR
 - BENCH MARK
 - SERVICE AREA
 - CREEK
 - CANAL
 - PANEL
 - HDPF PIPE



REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY		PROJECT NAME & LOCATION: ESTABLISHMENT OF BAYUVAN SPIS BRGY. BAYUVAN, PRESIDENT ROXAS, CAPIZ		SHEET CONTENTS: FARM PLAN		PREPARED BY: ENGR. B. BAUTISTA, A/E Engineer (License No. 003518)		REVIEWED BY: ENGR. MOISES D. MANA-AY, MEE Engineer V (License No. 0035077) Head, Engineering, Planning, and Specifications Section		CHECKED/SUBMITTED BY:		RECOMMENDING APPROVAL:		APPROVED BY: Regional Executive Director		PAGE NO.: 4 9	
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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY		PROJECT NAME & LOCATION ESTABLISHMENT OF BAYUVAN SPIS BRGY. BAYUVAN, PRESIDENT ROXAS, CAPIZ		SHEET CONTENTS: SITE DEVELOPMENT PLAN		PREPARED BY: JHONNIE B. BALITISTA, ABE Engineer (License No. 0035731)		REVIEWED BY: YVONNE GRACE H. SUR, ABE Engineer (License No. 0005970) Head, Engineering and Design, and Specifications Section		CHECKED/SUBMITTED BY: ENGR. MOISES D. MANAAY, MEE Engineer V (License No. 0006077) Chief, Head		RECOMMENDING APPROVAL:		APPROVED BY: DENNIS R. ARPILA Regional Executive Director		SHEET NO.: A 3 PAGE NO.: 5 9	
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BENCH MARK 1
EXISTING SLUMP
LAT. 11.411615°
LONG. 122.950894°
ELEV. 4.5m

BENCH MARK 2
WATER SYSTEM
LAT. 11.411616°
LONG. 122.950928°
ELEV. 8.6m

PROPOSED
ELEVATED
TANK

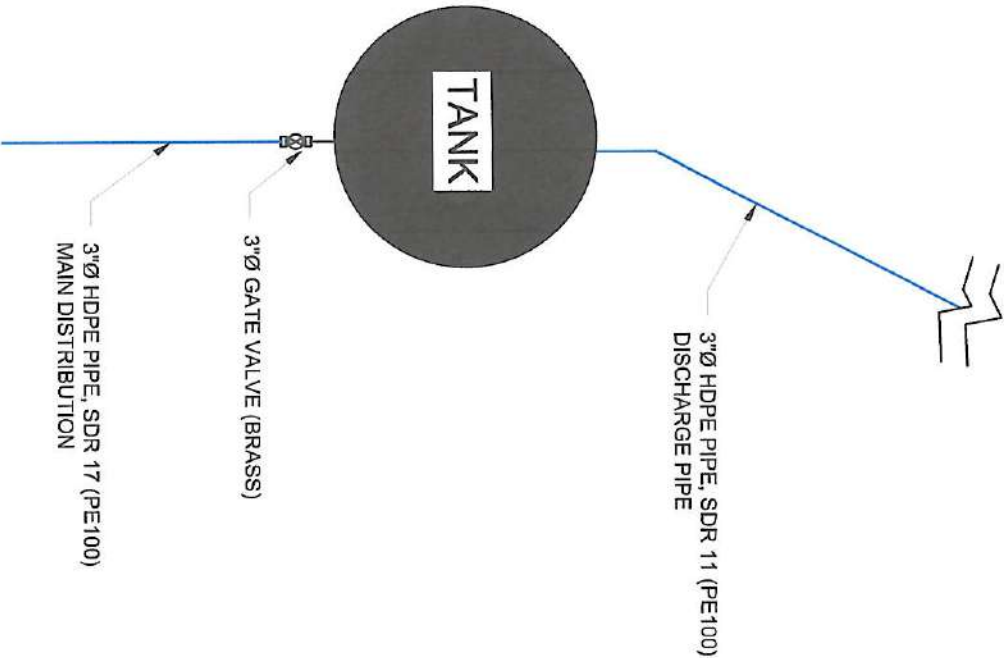
DESCRIPTIONS		
LINE	BEARING	DISTANCE (m)
BM1 TO TANK	S28°32'51.38"W	50.609
BM2 TO TANK	S50°20'49.47"W	26.092

REFERENCE LINES
SCALE: 1:500

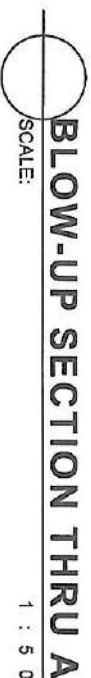
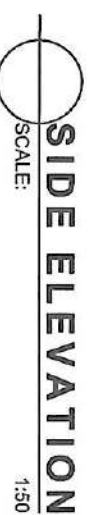
	GATE VALVE THREADED
	HDPE PIPE

LEGEND

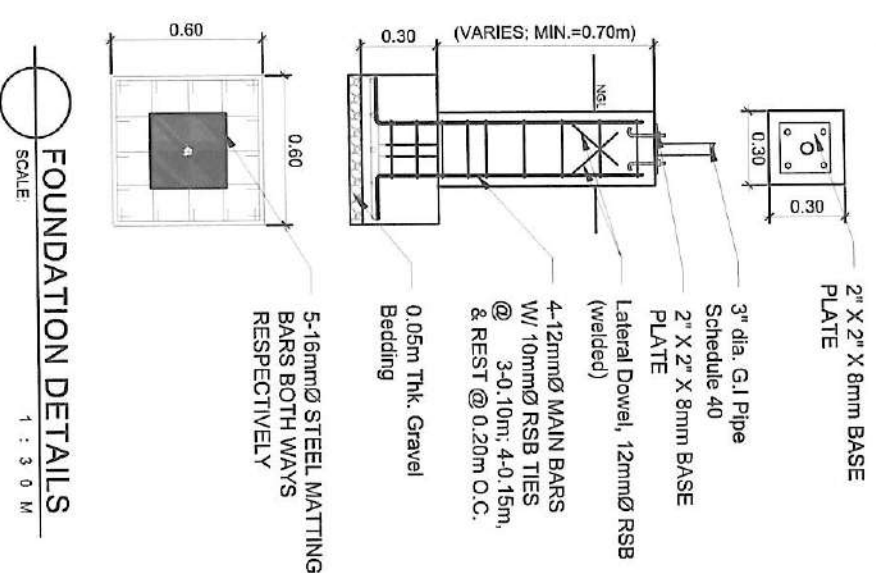
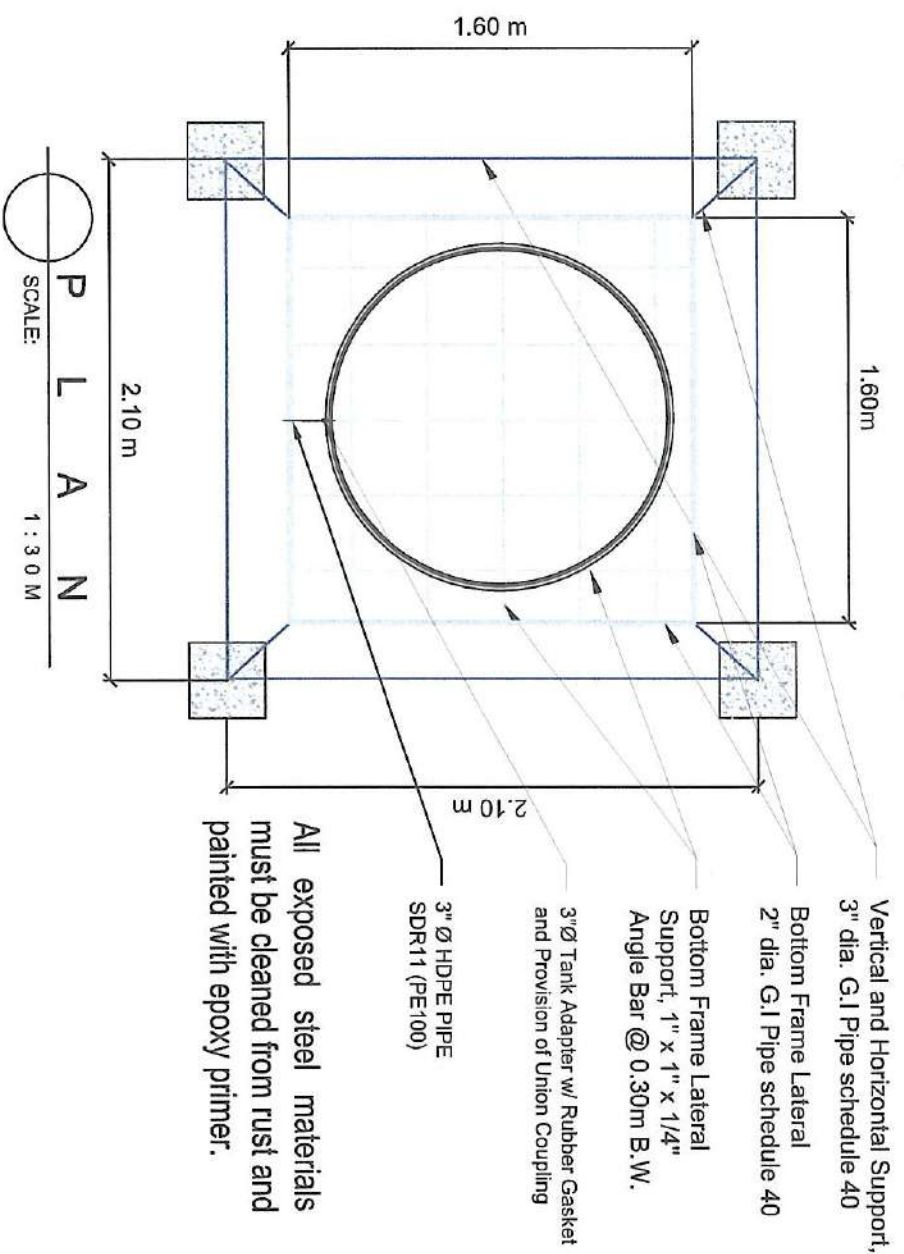
NOTE:
Discharge Pipe - 3"Ø HDPE Pipe SDR 11 PE100, Irrigation Pipe (55 meters)
Delivery Pipe - 3"Ø HDPE Pipe SDR 17 PE100, Irrigation Pipe(170 meters)
with 1 pieces - 3"Ø Gate Valve (Brass).



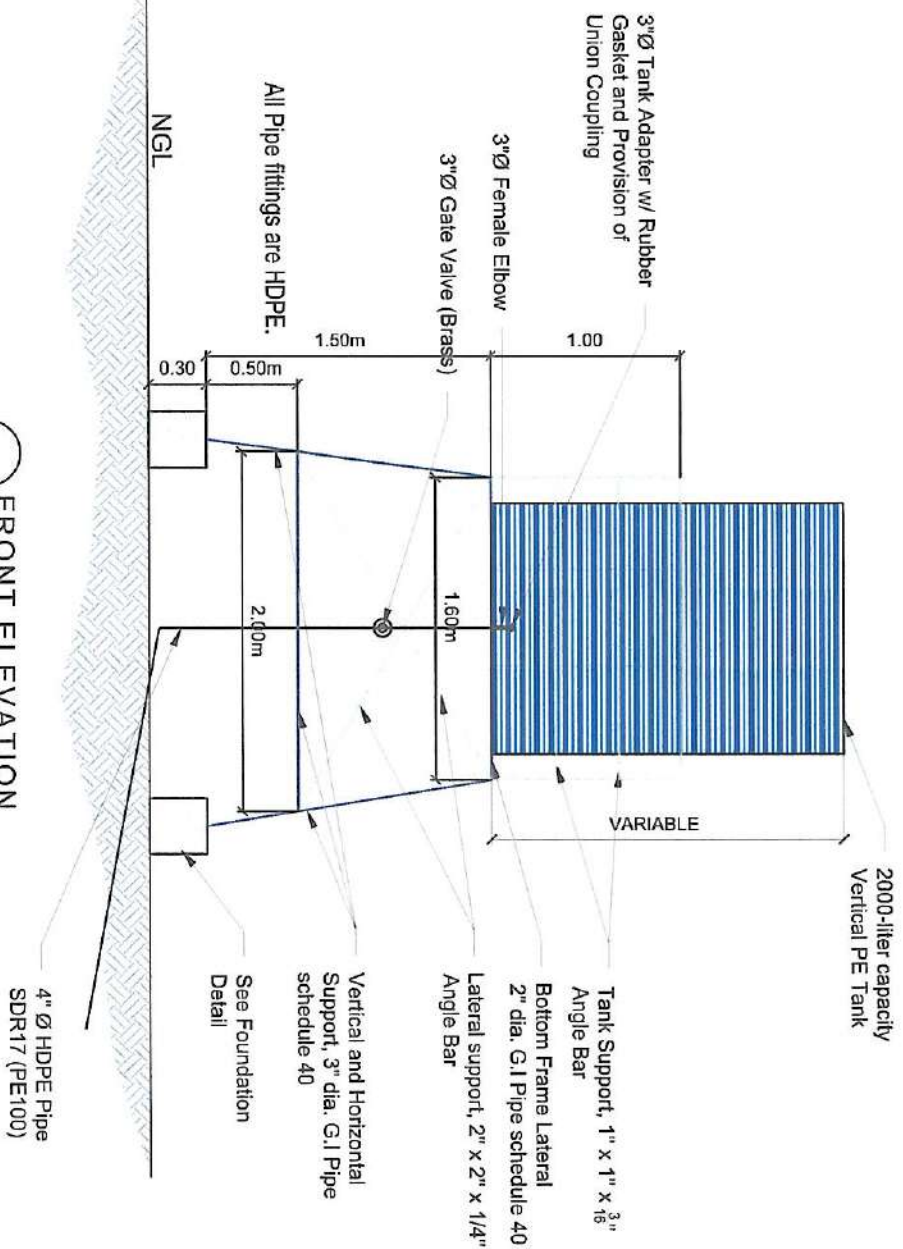
DISTRIBUTION PLAN
SCALE: N T S



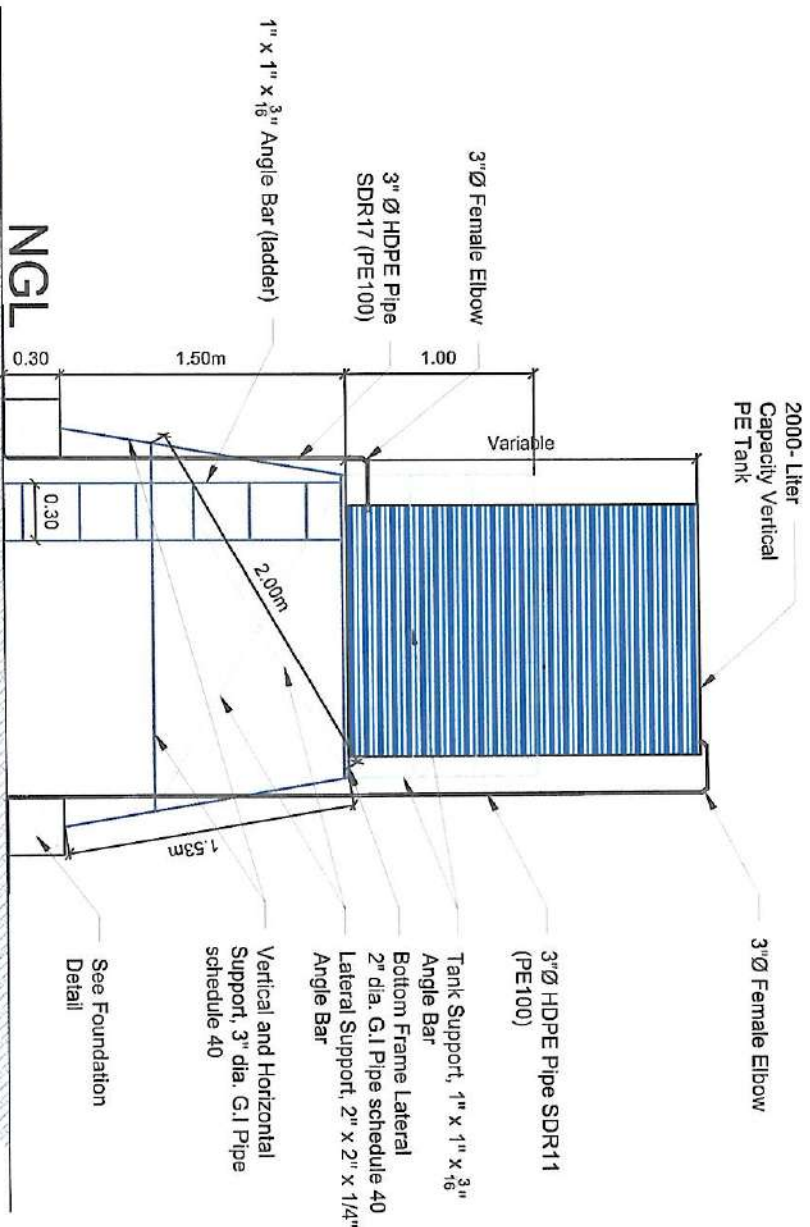
NOTE:
C1F1 - PV ARRAY



FOUNDATION DETAILS
SCALE: 1 : 3 0 M



FRONT ELEVATION
SCALE: 1 : 4 0 M



SIDE ELEVATION
SCALE: 1 : 4 0 M



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PROJECT NAME & LOCATION:
ESTABLISHMENT OF
BAYUYAN SPIS
BRGY. BAYUYAN, PRESIDENT
ROXAS, CAPIZ

SHEET CONTENTS:
ELEVATED WATER TANK
- TOP VIEW
- FOUNDATION DETAILS
- FRONT & SIDE ELEVATIONS

PREPARED BY:
Jhon R. Bautista
Engineer (License No. 008573)

REVIEWED BY:
Yvonne Grace A. Sur, ABCE
Engineer (License No. 00039701)
Head, Engineering, Design, and
Construction Section

CHECKED/SUBMITTED BY:
Engr. WILSON D. MANAY-MEE
Engineer (License No. 0006077)
Chief, R&D

RECOMMENDING APPROVAL:
Regional Executive Director

SHEET NO.:
PAGE NO.:
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Name of Project:
Location:

CONTRACTOR :
DATE STARTED :
CONTRACT COMPLETION DATE :
CONTRACT COST :
IMPLEMENTING OFFICE :
SOURCE OF FUND :
DEPARTMENT OF AGRICULTURE FIELD OFFICE VI

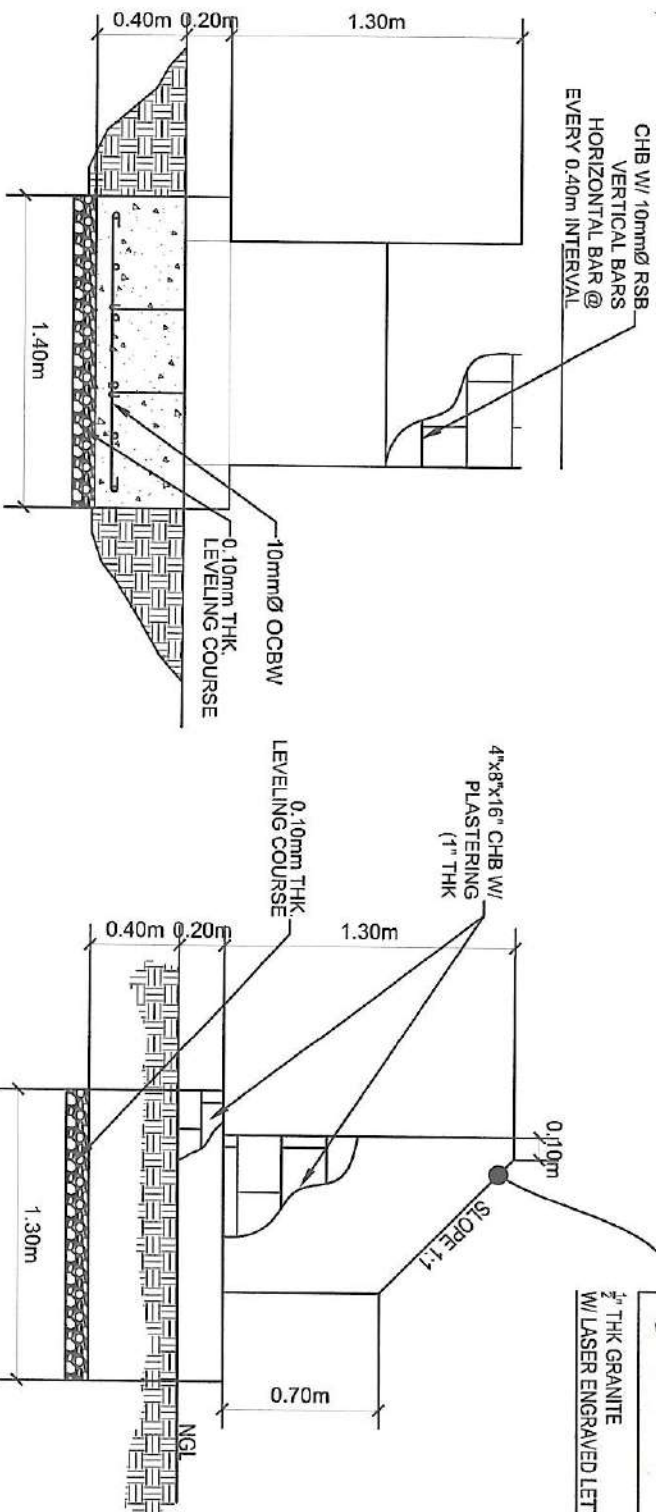


- THE BILLBOARD DESIGN LAYOUT AND DIMENSION SHALL BE ON A STANDARD BILLBOARD MEASURING 1200 mm x 2400 mm (4FT x 8FT.) USING 12 mm (½ INCH) THICK MARINE PLYWOOD OR TARPULIN POSTED ON 5 mm (⅜ INCH) MARINE PLYWOOD.

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

PROJECT SIGNBOARD

SCALE: NTS

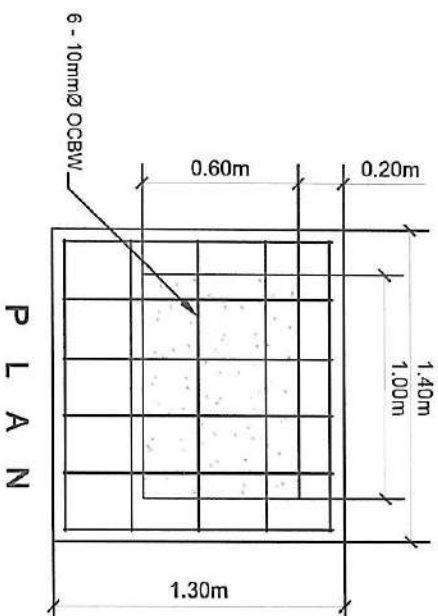


1/2" THK GRANITE
W/ LASER ENGRAVED LETTERING

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

PROJECT PROFILE

NAME OF PROJECT : ESTABLISHMENT OF JOLONGAJOG SPIS
LOCATION : BRGY. JOLONGAJOG, PONTEVEDRA, CAPIZ
FUNDING SOURCE : MCRARP 2025
BENEFICIARIES :
SERVICE AREA :
PROJECT COST (P) :



P L A N

COA BILLBOARD

SCALE: NTS

TARPULIN, WHITE, 8 FT x 8 FT
RESOLUTION: 70 DPI
FONT: HELVETICA
FONT SIZE: MAIN INFORMATION - 3"
SUB INFORMATION - 1"
FONT COLOR: BLACK

FOR PARTICULARS OR COMPLAINTS ABOUT THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

COA REGIONAL OFFICE NO./CLUSTER :
ADDRESS :
CONTACT NO. : OR TEXT COA CITIZENS DESK AT 0915-5391957



PROJECT : ESTABLISHMENT OF JOLONGAJOG SPIS
LOCATION : BRGY. JOLONGAJOG, PONTEVEDRA, CAPIZ
FUND SOURCES : DA-MCRARP (2025)

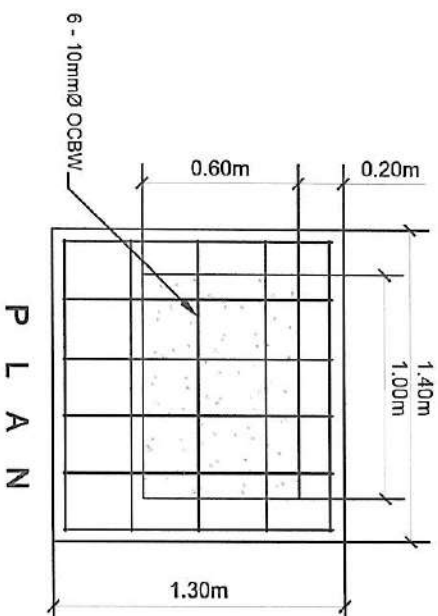
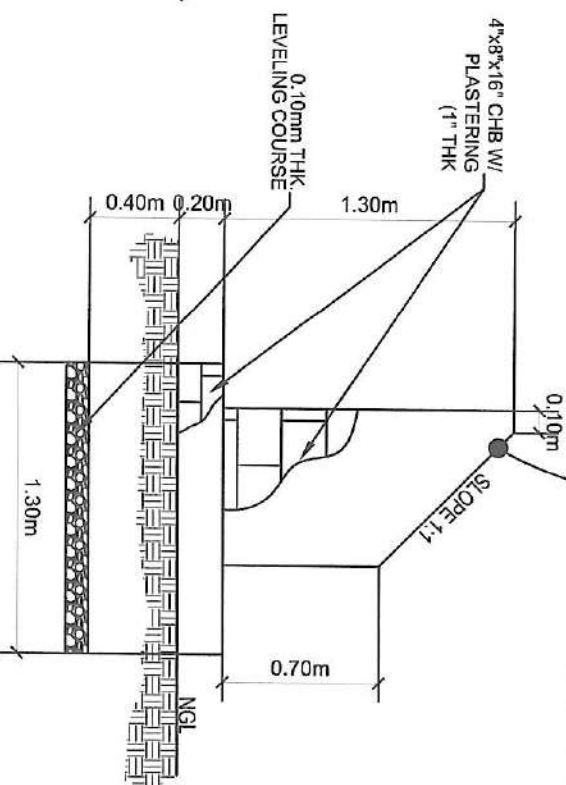
IMPLEMENTING AGENCY : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI
DEVELOPMENT PARTNERS :
CONTRACTOR SUPPLIER :
BRIEF DESCRIPTION OF PROJECT :

PROJECT DETAILS :

PROJECT DATE		PROJECT STATUS			REMARKS
DURATION	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF (DATE) INCURRED TO DATE	

PROJECT MARKER

SCALE: NTS



P L A N

COA BILLBOARD

SCALE: NTS

TARPULIN, WHITE, 8 FT x 8 FT
RESOLUTION: 70 DPI
FONT: HELVETICA
FONT SIZE: MAIN INFORMATION - 3"
SUB INFORMATION - 1"
FONT COLOR: BLACK

FOR PARTICULARS OR COMPLAINTS ABOUT THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

COA REGIONAL OFFICE NO./CLUSTER :
ADDRESS :
CONTACT NO. : OR TEXT COA CITIZENS DESK AT 0915-5391957



PROJECT : ESTABLISHMENT OF JOLONGAJOG SPIS
LOCATION : BRGY. JOLONGAJOG, PONTEVEDRA, CAPIZ
FUND SOURCES : DA-MCRARP (2025)

IMPLEMENTING AGENCY : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI
DEVELOPMENT PARTNERS :
CONTRACTOR SUPPLIER :
BRIEF DESCRIPTION OF PROJECT :

PROJECT DETAILS :

PROJECT DATE		PROJECT STATUS			REMARKS
DURATION	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF (DATE) INCURRED TO DATE	

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



ESTABLISHMENT OF
BAYUVAN SPIS
BRGY. BAYUVAN, PRESIDENT
ROXAS, CAPIZ

PROJECT MARKER &
SIGNBOARD
COA BILLBOARD
PROJECT SIGNBOARD
PROJECT MARKER

PREPARED BY:
J. BAUTISTA

REVIEWED BY:
YVONNE GRACE B. SUR, ABE
Head, Engineering Section

CHECKED/SUBMITTED BY:
ENGR. MOISES B. MANABAT-MIE
Engineer, Civil, RCE

APPROVED BY:
RANIS R. ARPIA
Regional Executive Director

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