

REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
REGION IV-B, MIMAROPA  
OFFICE OF THE DISTRICT ENGINEER  
BOAC, MARINDUQUE

C.Y. 2023 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR  
**CONSTRUCTION OF WATER SUPPLY SYSTEM,**  
**BARANGAY APITONG, BOAC, MARINDUQUE**

BOAC, MARINDUQUE


SUBMITTED:

  
**FERNAN S. DIAZ**  
CHIEF, PLANNING AND DESIGN SECTION  
DATE:

RECOMMENDED:

  
**ARISTEO L. LINGA**  
ASSISTANT DISTRICT ENGINEER  
DATE:

APPROVED:

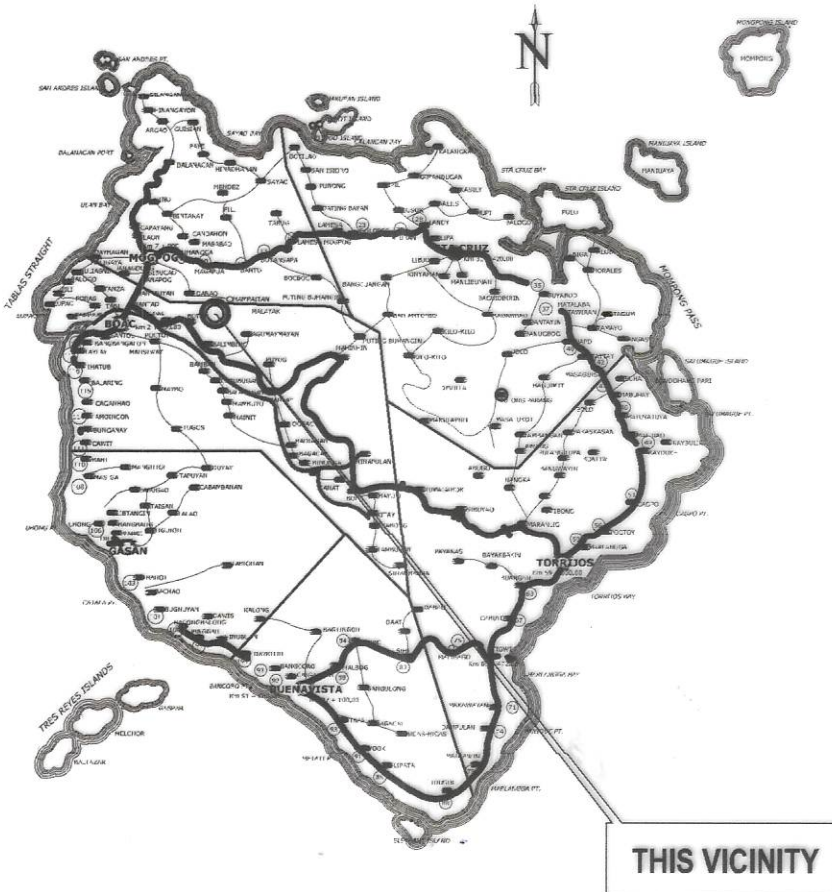
  
**EVELYN R. PUERTOLLANO**  
DISTRICT ENGINEER  
DATE:

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CATEGORY	DESCRIPTION	SHEET NO.
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SUMMARY OF QUANTITIES				
ITEM NO.	DESCRIPTION	ORIGINAL QUANTITY	UNIT	REMARKS
PART A:	FACILITIES FOR THE ENGINEER			
A.1.1(8)	PROVISION OF FIELD OFFICE FOR THE ENGINEER ( RENTAL BASIS)	3.17	mos.	
A.1.2(2)	PROVISION OF 4x4 PICK UP TYPE SERVICE VEHICLE FOR THE ENGINEER ON BARE RENTAL BASIS	3.17	mos.	
PART B:	OTHER GENERAL REQUIREMENTS			
B.4 (10)	MISCELLANEOUS SURVEY AND STAKING	1.00	LS	Staked Plan To be submitted by the contractor
B.5	PROJECT BILLBOARD / SIGNBOARD	1.00	each	DPWH Standard Billboard
B.7(2)	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	1.00	LS	Includes Personal Protective Equipment (PPE), Safety Signages and Health Program
B.9	MOBILIZATION / DEMOBILIZATION	1.00	LS	
PART C:	EARTHWORKS			
803(1)a	STRUCTURE EXCAVATION ( COMMON SOIL)	16.78	m³	For Foundation and Pipelines
804(4)	GRAVEL FILL	2.33	m³	For Concrete Foundation
PART D:	PLAIN AND REINFORCED CONCRETE WORKS			
900(1)c2	STRUCTURAL CONCRETE FOR FOOTING AND SLAB (CLASS A, 28 DAYS)	34.95	m³	For Elevated Water Tank & Pump Motor House
902(1)a	REINFORCING STEEL (DEFORMED), GRADE 40	3,044.61	kgs	For Pump Motor House
104(1)a	FORMWORKS AND FALSEWORKS	123.08	m2	For Water Tank
PART E:	FINISHING WORKS			
1027(1)	CEMENT PLASTER FINISH	160.20	m²	For Elevated Water Tank & Pump Motor House
1046(2)a1	100MM CHB NON-LOAD BEARING (INCLUDING REINFORCING STEEL)	21.60	m²	For Elevated Water Tank & Pump Motor House
1032(1)a	PAINTING WORKS (MASONRY CONCRETE)	140.05	m²	For Elevated Water Tank & Pump Motor House
1032(1)c	PAINTING WORKS (STEEL)	18.80	m²	For Elevated Water Tank & Pump Motor House
1018(1)	GLAZED TILES AND TRIMS	45.00	m²	For Elevated Water Tank & Pump Motor House
1047(1)	STRUCTURAL STEEL	1.00	LS	For Elevated Water Tank & Pump Motor House
PART F:	PLUMBING WORKS			
1201(1)	WATER PUMPING SYSTEM	1.00	LS	For Pipe Drilling & Pump Motor House
1001(10)	PIPES WITH FITTINGS CONNECTION	1.00	LS	
1602(5)	POLYETHYLENE PLASTIC PIPE (HDPE)	1.00	LS	For Distribution Line
1603(1)	VALVE	1.00	LS	
1002(27)	PLUMBING WORKS	1.00	LS	
PART G:	ELECTRICAL WORKS			
1100(10)	CONDUIT, BOXES, AND FITTINGS (CONDUIT WORKS/CONDUIT ROUGH-IN)	1.00	LS	For Pump Motor House
1101(33)	WIRES AND WIRING DEVICES	1.00	LS	For Pump Motor House
1102(1)	PANEL BOARD WITH MAIN & BRANCHES BREAKERS	1.00	LS	For Pump Motor House
1103(1)	LIGHTING FIXTURES AND LAMPS	1.00	LS	For Pump Motor House

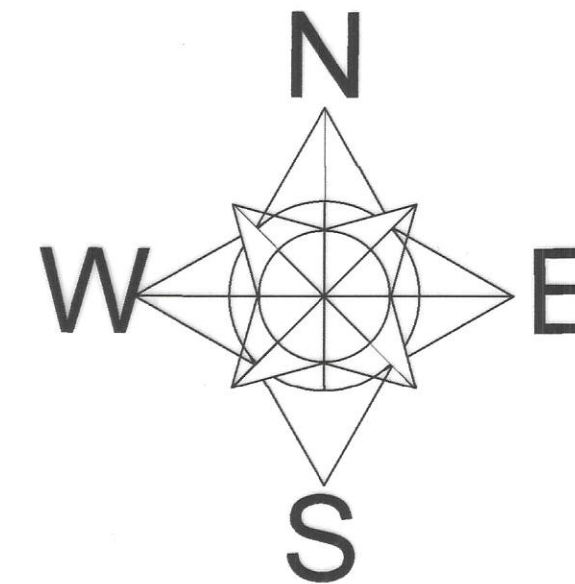
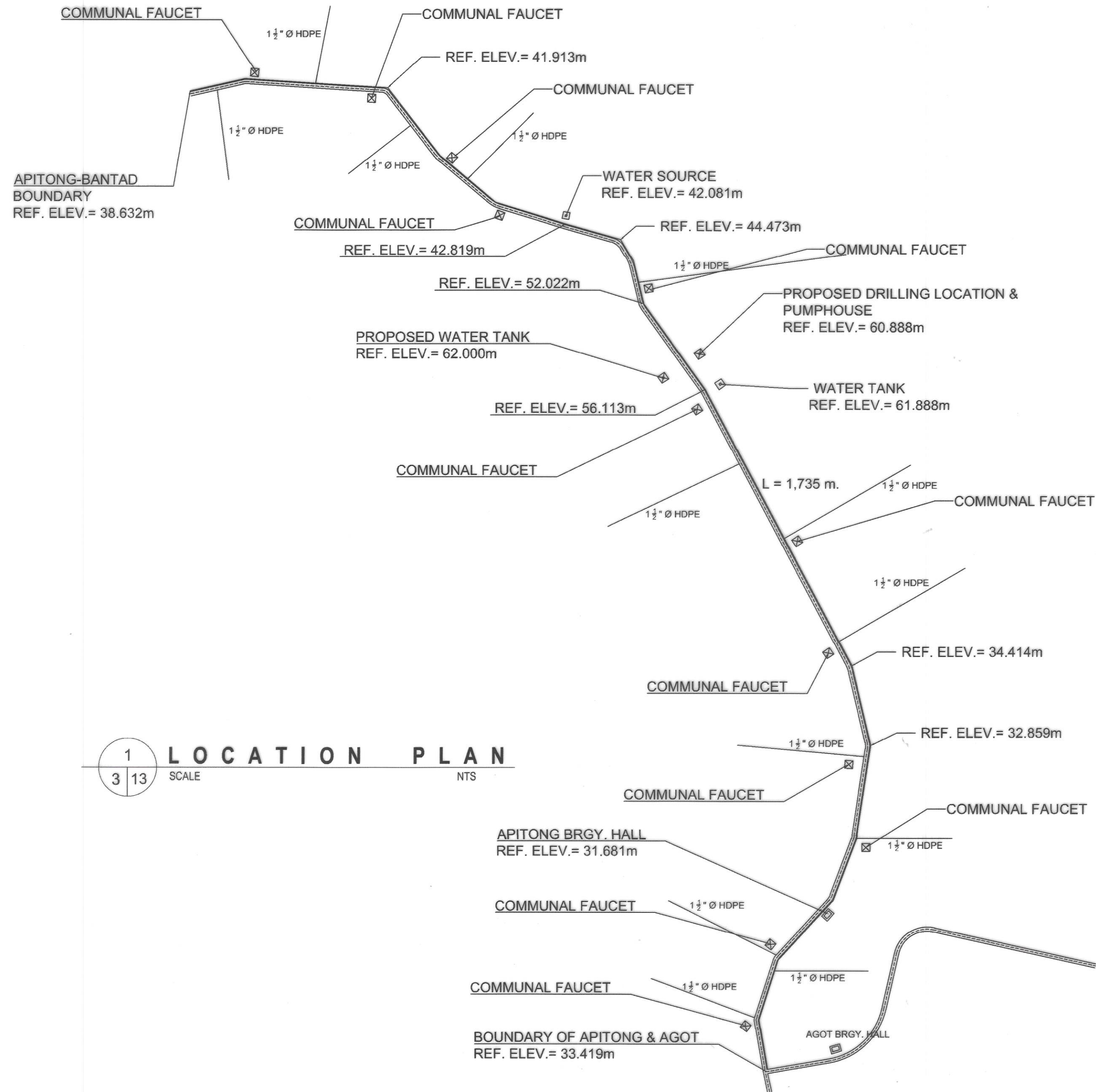


KEY MAP



LOCATION MAP

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION IV - B , MIMAROPA OFFICE OF THE DISTRICT ENGINEER BOAC , MARINDUQUE	PROJECT NAME AND LOCATION :  CONSTRUCTION OF WATER SUPPLY SYSTEM, BARANGAY APITONG, BOAC, MARINDUQUE  BOAC, MARINDUQUE	SHEET CONTENTS :  INDEX OF SHEETS SUMMARY OF QUANTITIES KEY MAP LOCATION MAP	DRAFTED :  ARTHUR N. JARDELEZA ENGINEERING ASSISTANT  PREPARED :  MICHAEL E. MALITAO ENGINEER II	REVIEWED :  JERSON O. MONTERA ENGINEER II DATE :  FERNAN S. DIAZ CHIEF, PLANNING AND DESIGN SECTION DATE :	SUBMITTED :  ARISTEO L. LINGA ASSISTANT DISTRICT ENGINEER DATE :	RECOMMENDED :  EVELYN R. PUERTOLLANO DISTRICT ENGINEER DATE :	APPROVED :  DATE :	SET NO.  MQ	SHEET NO.  2 12
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1 LOCATION PLAN  
3 13 SCALE NTS



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGION IV - B, MIMAROPA  
OFFICE OF THE DISTRICT ENGINEER  
BOAC, MARINDUQUE

PROJECT NAME AND LOCATION :  
CONSTRUCTION OF WATER SUPPLY SYSTEM,  
BARANGAY APITONG, BOAC, MARINDUQUE  
BOAC, MARINDUQUE

SHEET CONTENTS :  
TYPICAL ROADWAY SECTION

DRAFTED :  
ARTHUR L. ARDELEZA  
ENGINEERING ASSISTANT  
PREPARED :  
MICHAEL P. MALITAB  
ENGINEER II

REVIEWED :  
JERSON O. MONTERA  
ENGINEER II  
DATE :

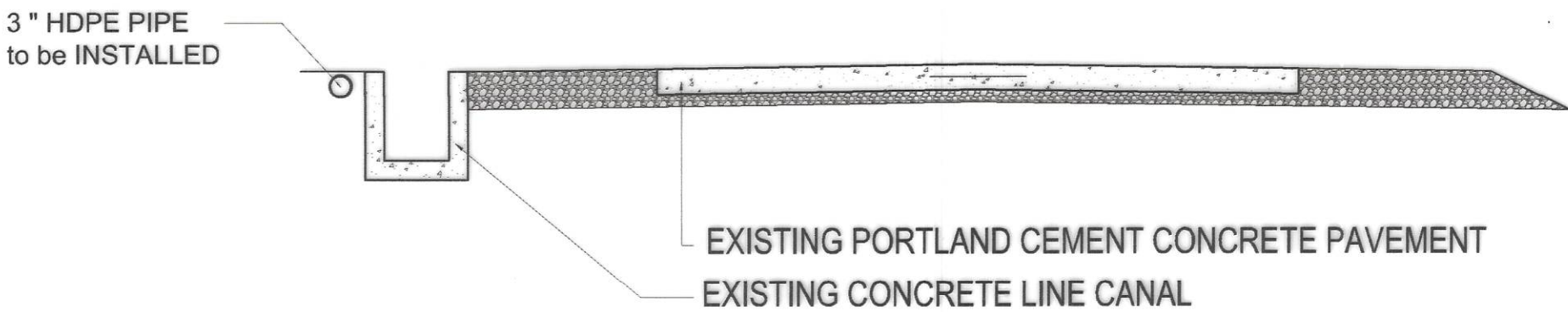
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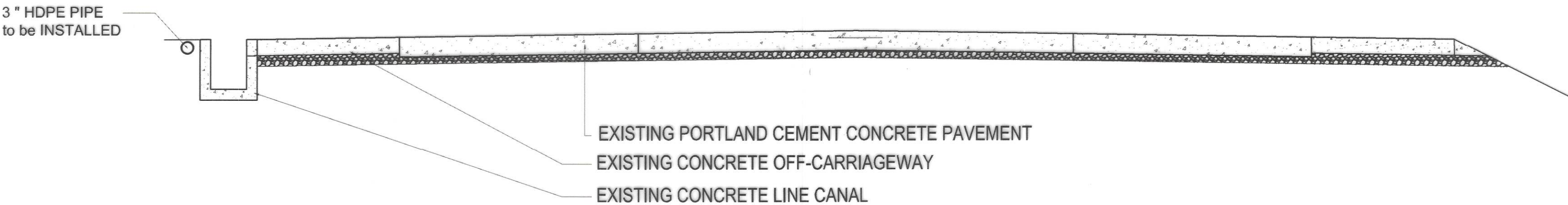
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3 12

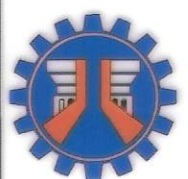
TYPICAL ROADWAY SECTION



1  
4 13 SECTION THRU FARM TO MARKET ROAD  
SCALE 1: 50m



1  
4 13 SECTION THRU NATIONAL ROAD  
SCALE 1: 50m



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DRAFTED :  
ARTHUR M. JARDELEZA  
ENGINEERING ASSISTANT  
PREPARED :  
MICHAEL P. PALITAO  
ENGINEER II

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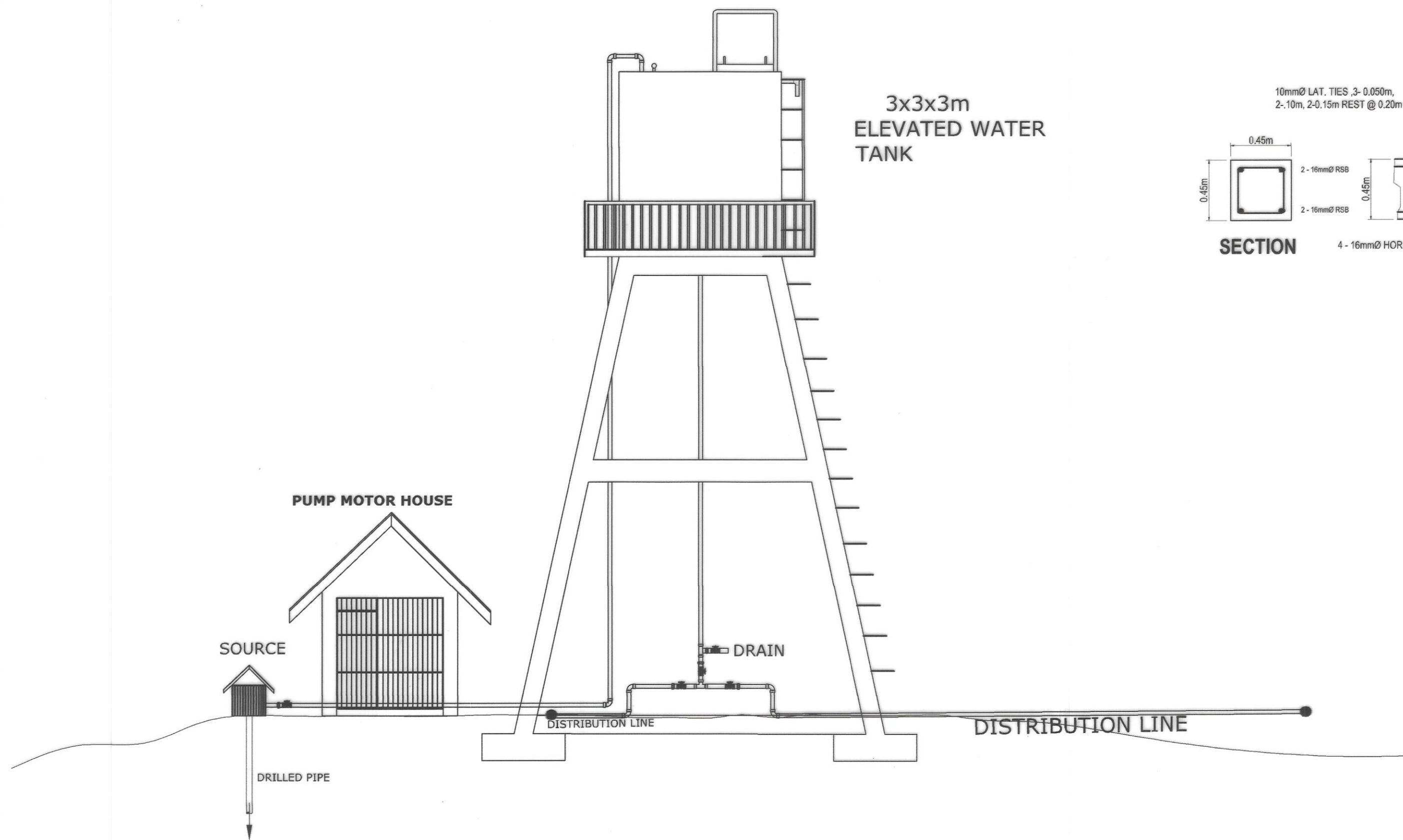
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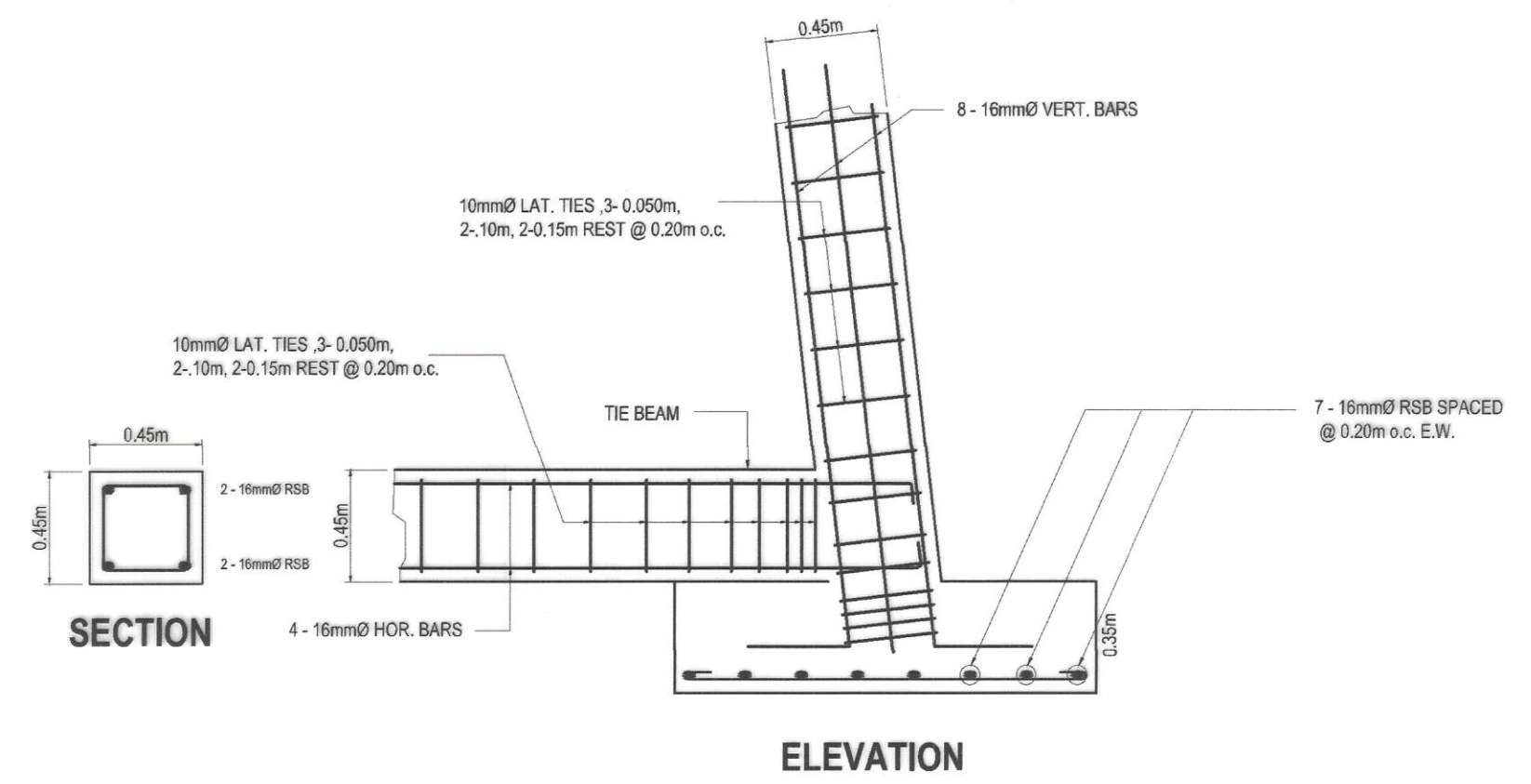
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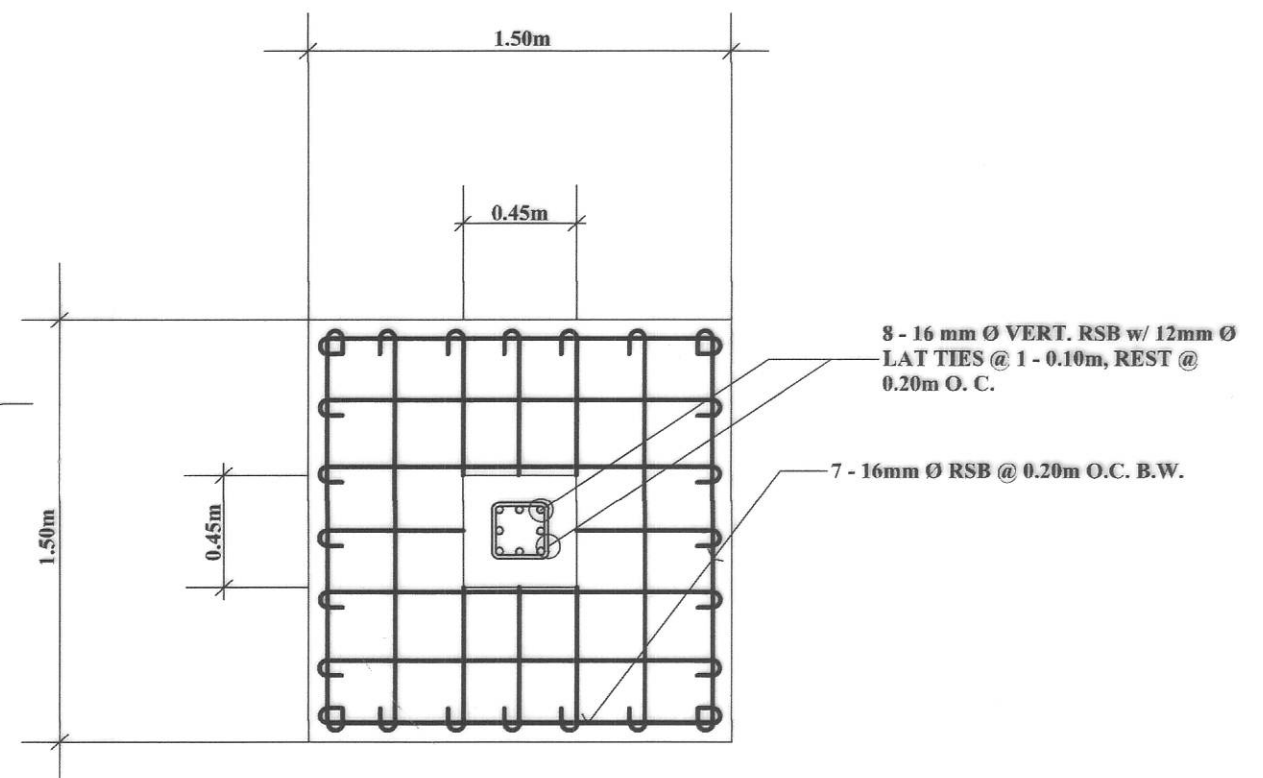


1  
5 13  
E L E V A T I O N  
SCALE NTS

3x3x3m  
ELEVATED WATER  
TANK



3  
5 13  
COULUMN FOOTING DETAIL  
SCALE 1:20m



2  
5 13  
P L A N  
SCALE 1:20m



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SHEET CONTENTS :  
ELEVATED WATER TANK  
TYPICAL DRAWINGS

DRAFTED :  
ARTHUR M. MANDELEZA  
ENGINEERING ASSISTANT  
PREPARED :  
MICHAEL P. MALITAD  
ENGINEER II

REVIEWED :  
JERSON O. MONTERA  
ENGINEER II  
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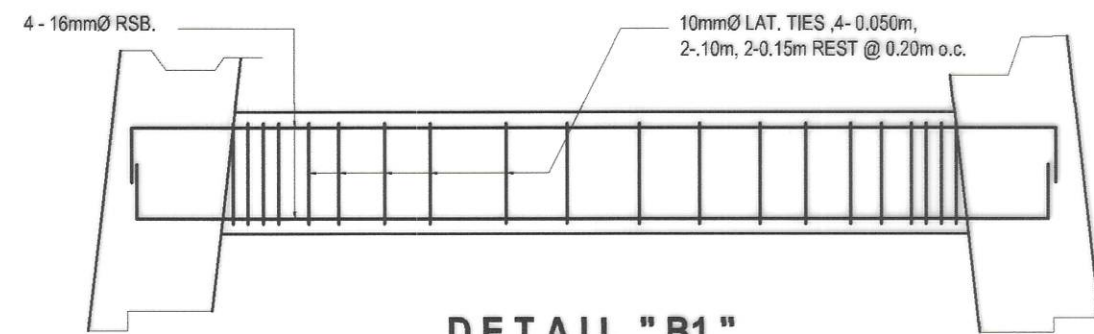
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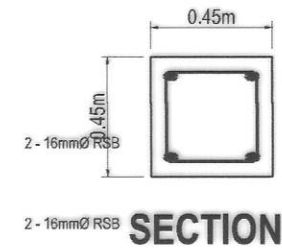
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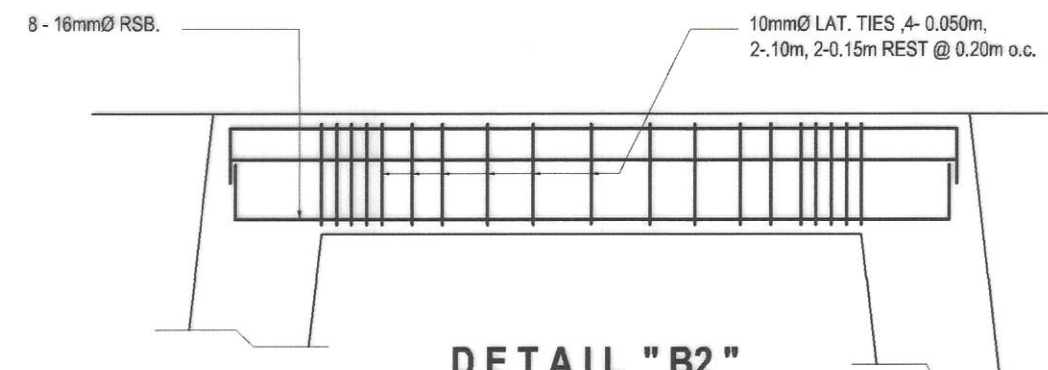
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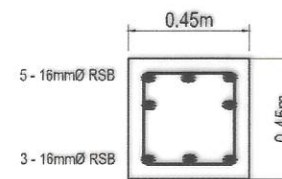
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SCALE 1:25m



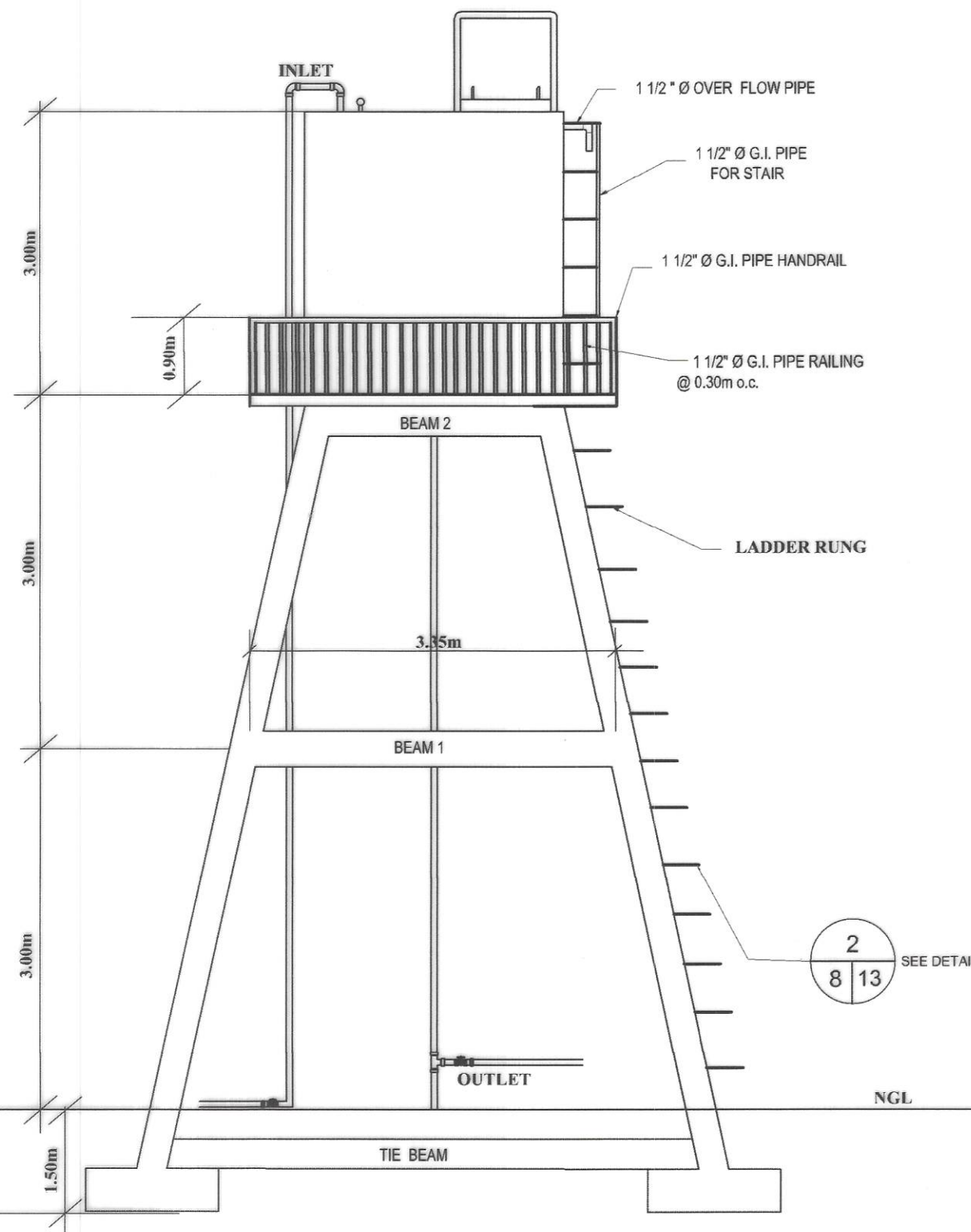
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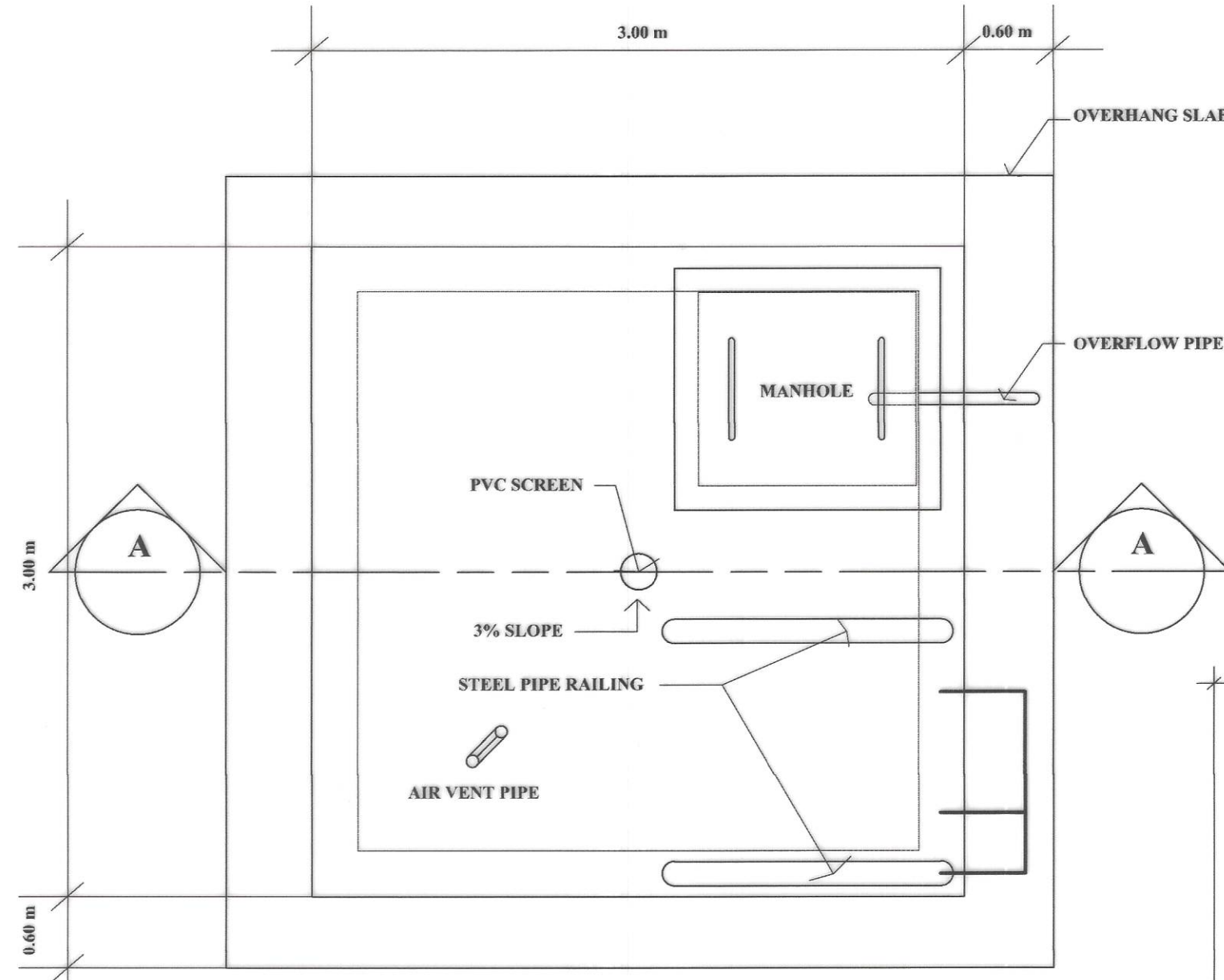
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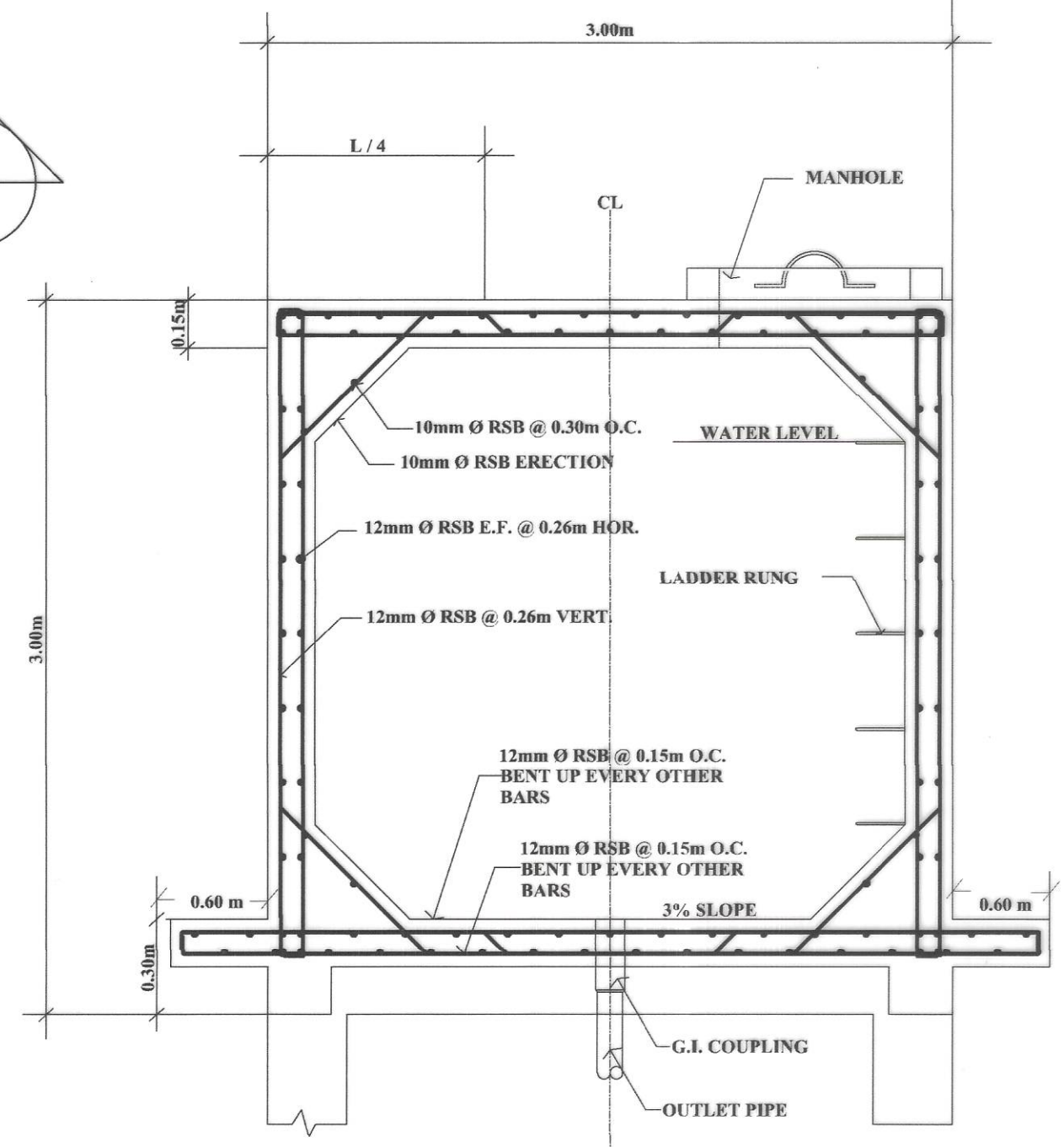
**SECTION**



**ELEVATION**  
SCALE NTS



**PLAN**  
SCALE 1:20m



**SECTION A-A**  
SCALE 1:20m



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**ELEVATED WATER TANK  
TYPICAL DRAWINGS**

DRAFTED :  
**ARTHUR M. JANDOLEZA**  
ENGINEERING ASSISTANT  
PREPARED :  
**MICHAEL P. MALITAO**  
ENGINEER II

REVIEWED :  
**JERSON O. MONTERA**  
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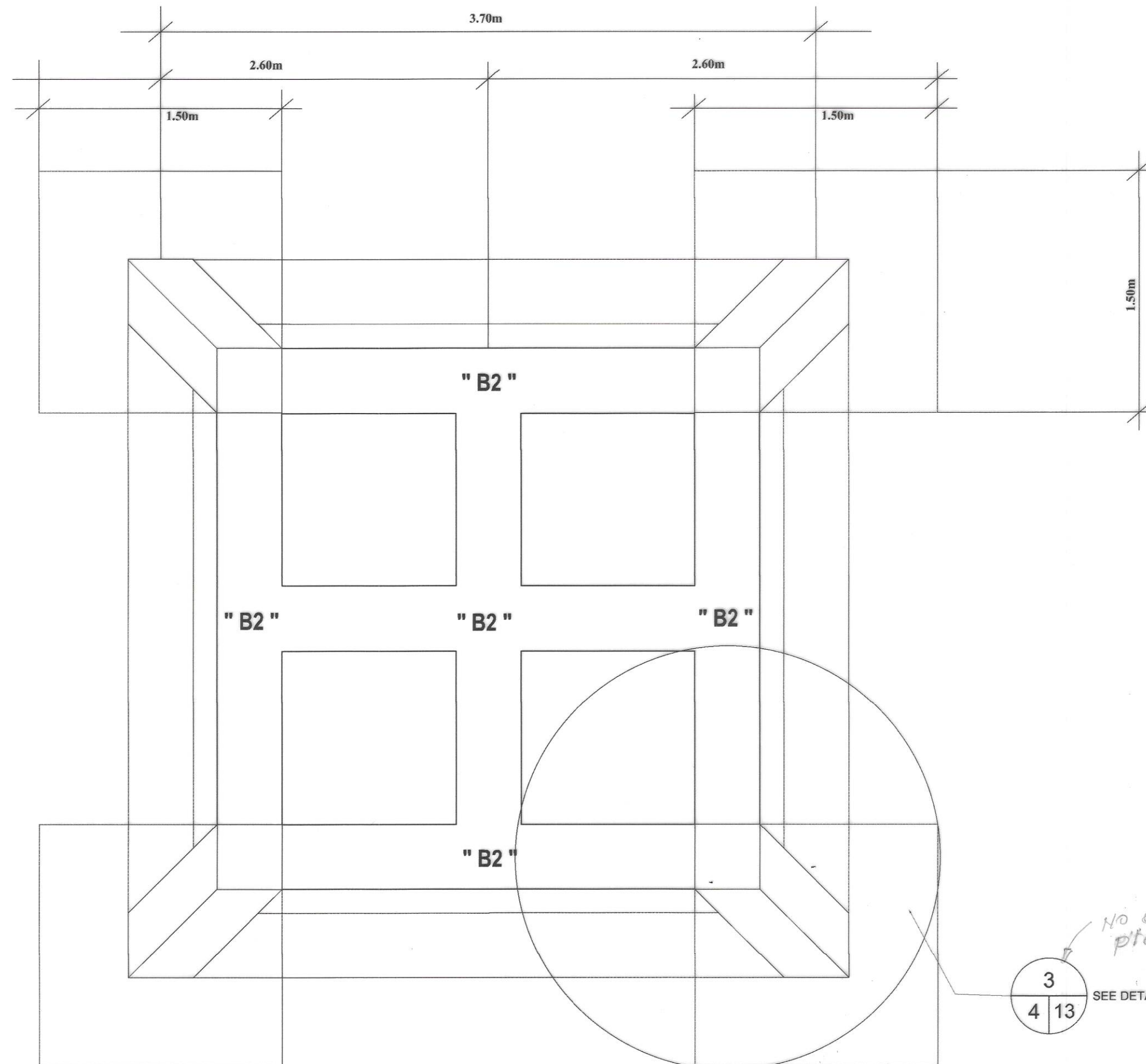
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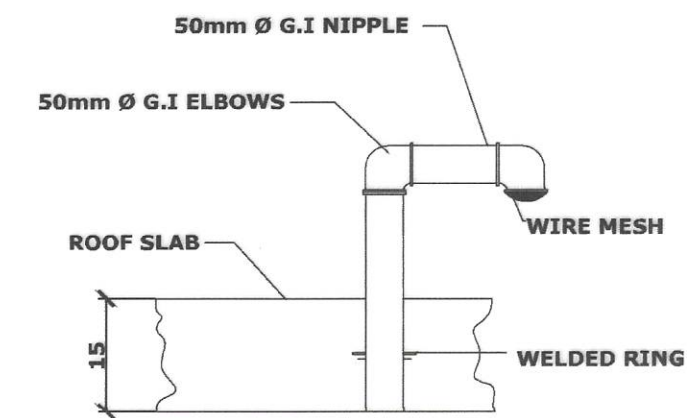
APPROVED :  
**EVELYN R. PUERTOLLANO**  
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SHEET NO. **12**

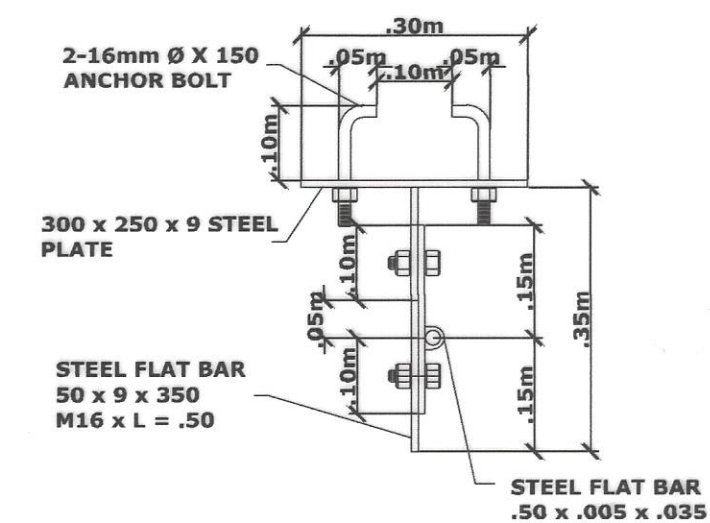
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REGION IV-B  
01-2023  
**MQ**



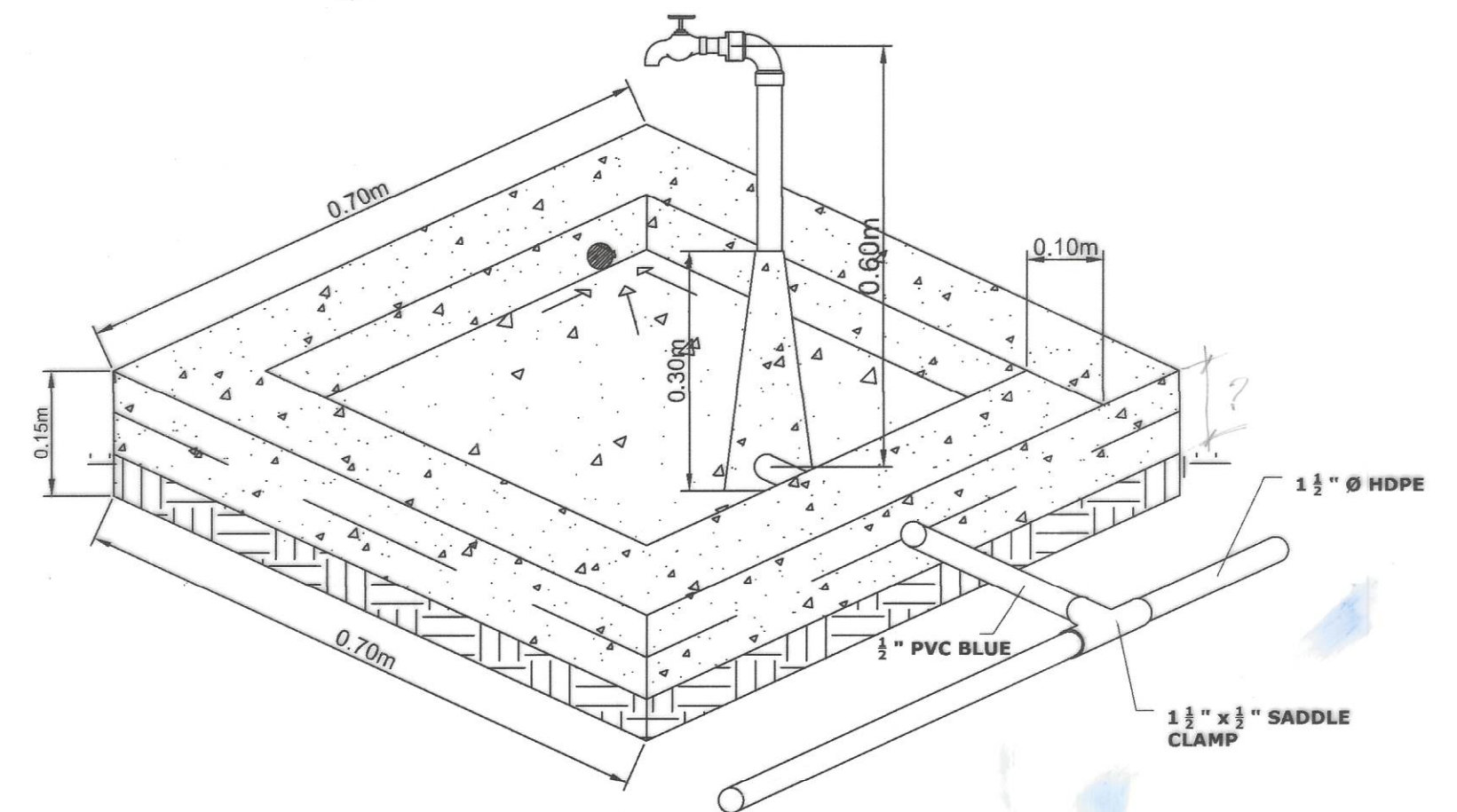
**1 FOUNDATION PLAN**  
7 13 SCALE 1:20m



**B AIR VENT DETAIL**  
7 13 SCALE 1:10m



**C DETAIL OF PIPE HOLDER**  
7 13 SCALE 1:10m



**D DETAIL OF COMMUNAL FAUCET**  
7 13 SCALE 1:10m

NO detailed plan  
3  
4 13 SEE DETAIL



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TYPICAL DRAWINGS

DRAFTED :  
ARTHUR S. DELEZA  
ENGINEER ASSISTANT  
PREPARED :  
MICHAEL S. MALITAO  
ENGINEER II

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JERSON O. MONTERA  
ENGINEER II  
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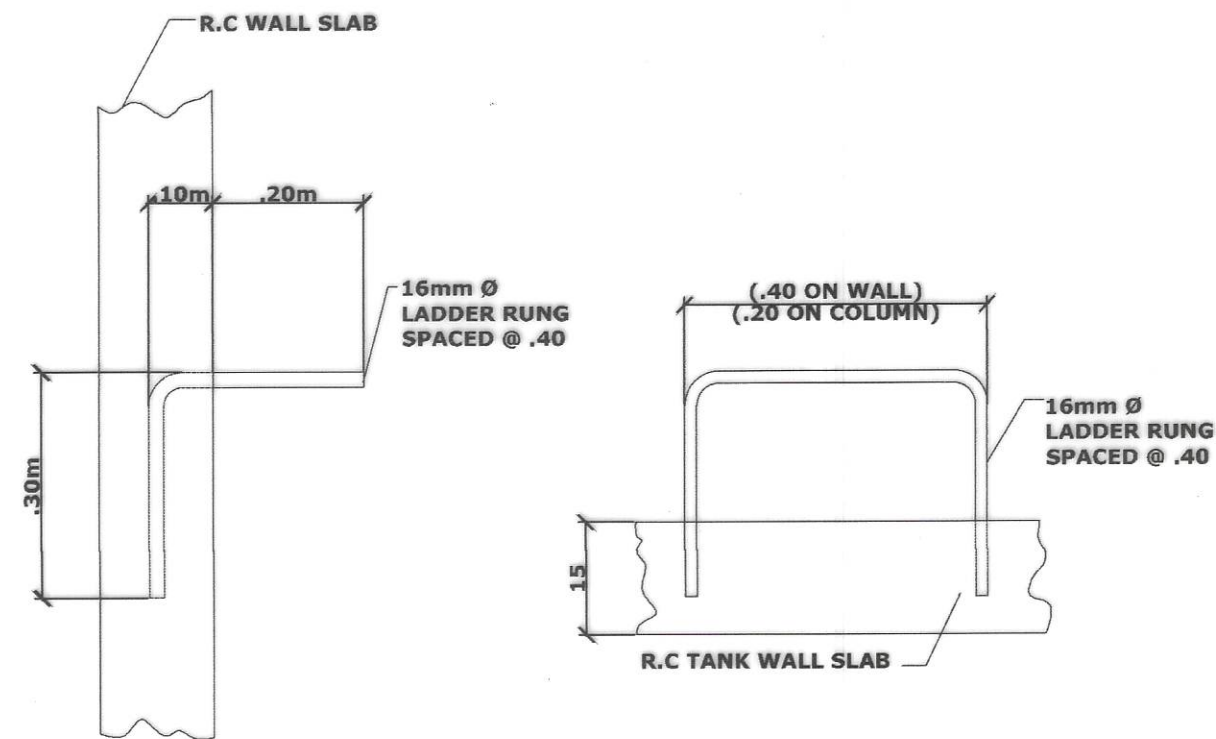
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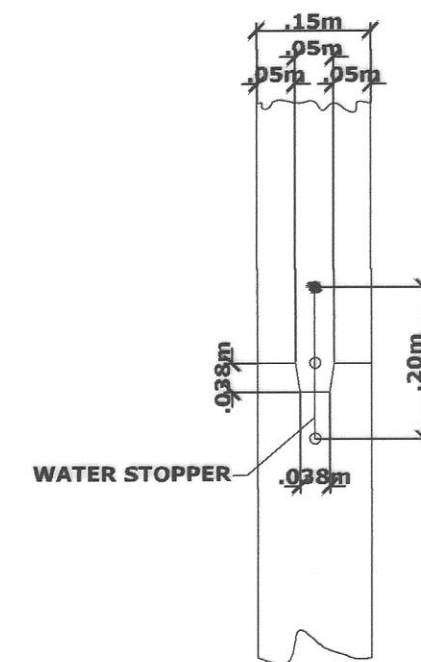
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CT - 2023  
MQ

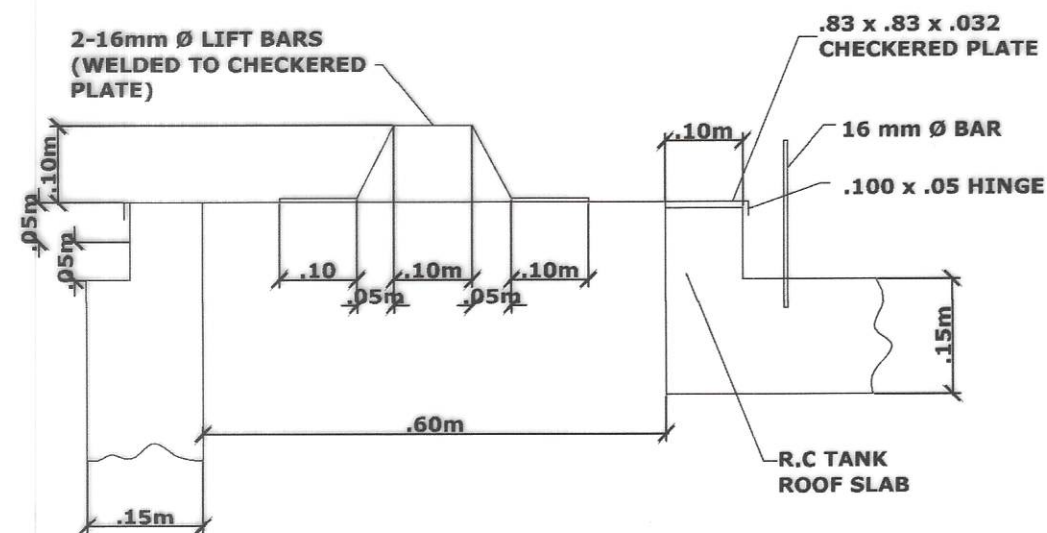
SHEET NO.  
7  
12



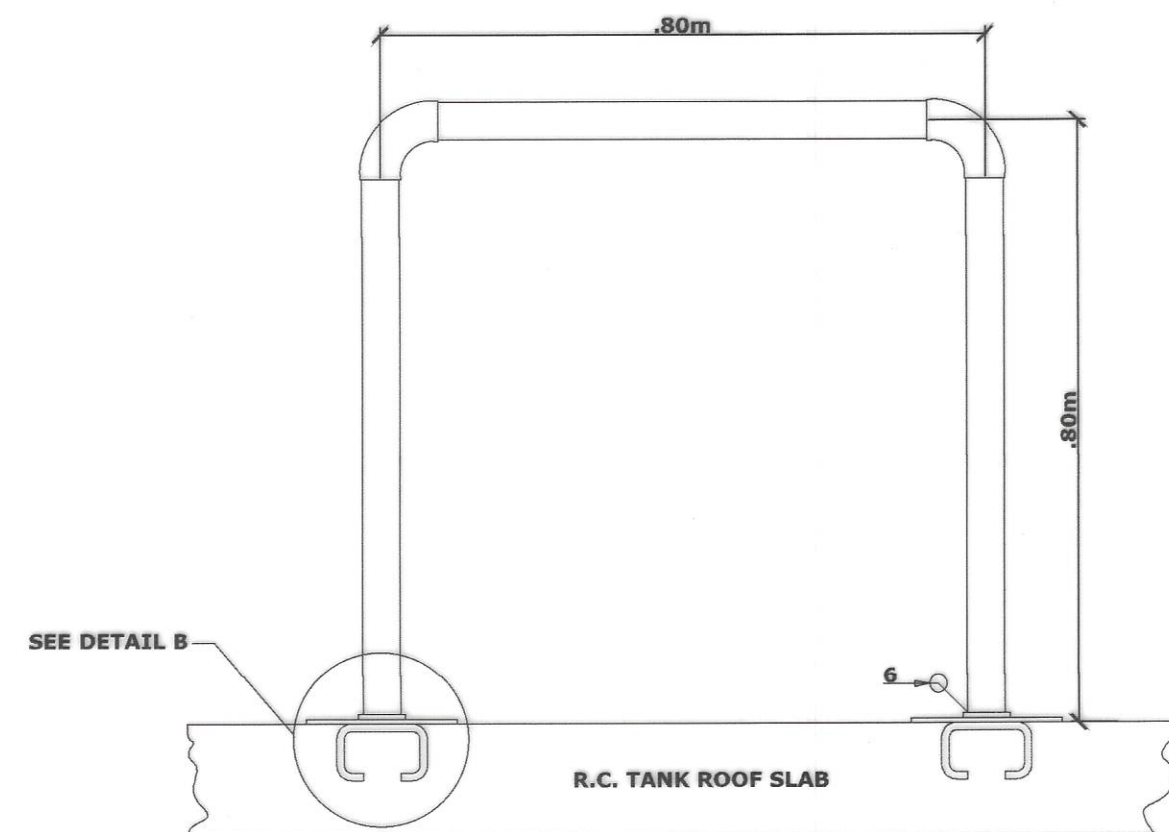
2  
8 13  
SCALE 1:10m  
DETAIL OF LADDER RUNG



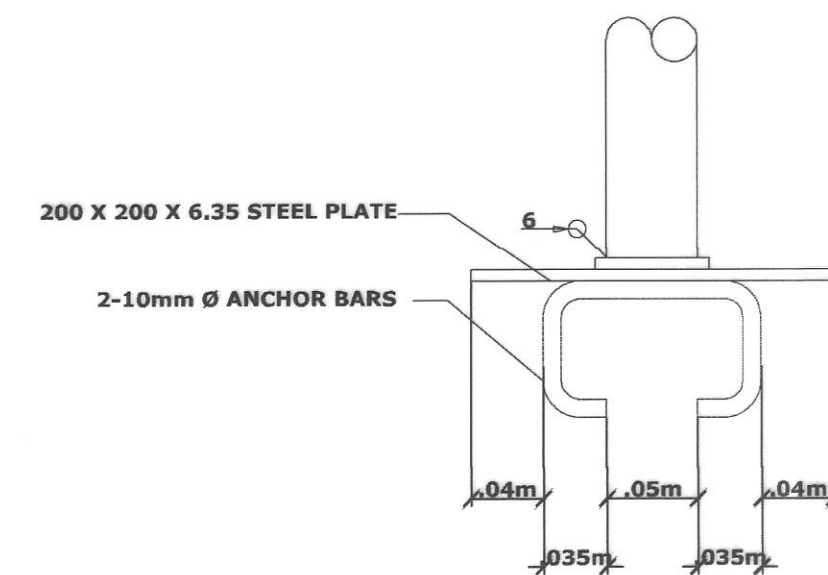
A  
8 13  
SCALE 1:10m  
CONST. JOINT DETAIL



1  
8 13  
SCALE 1:10m  
DETAIL OF MANHOLE



3  
8 13  
SCALE 1:10m  
DETAIL OF STEEL PIPE RAILING



B  
8 13  
SCALE NTS  
DETAIL B



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SHEET CONTENTS :  
ELEVATED WATER TANK  
TYPICAL DRAWINGS

DRAFTED :  
ARTHUR M. SANCHEZ  
ENGINEERING ASSISTANT  
PREPARED :  
MICHAEL P. MALITAO  
ENGINEER II

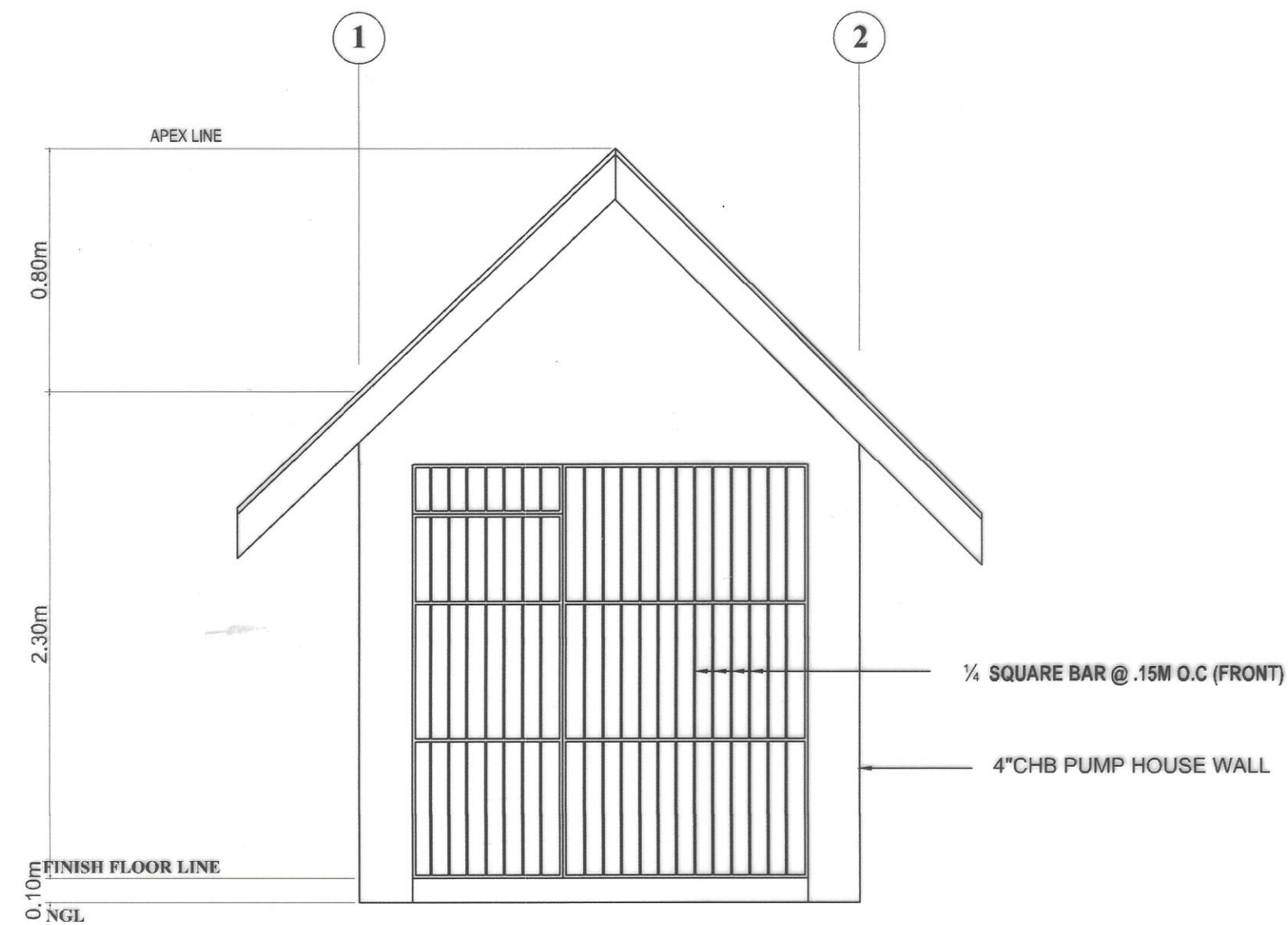
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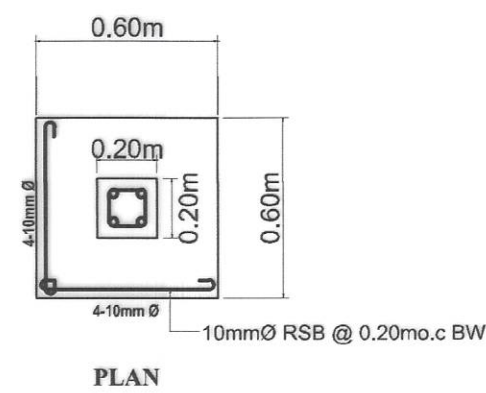
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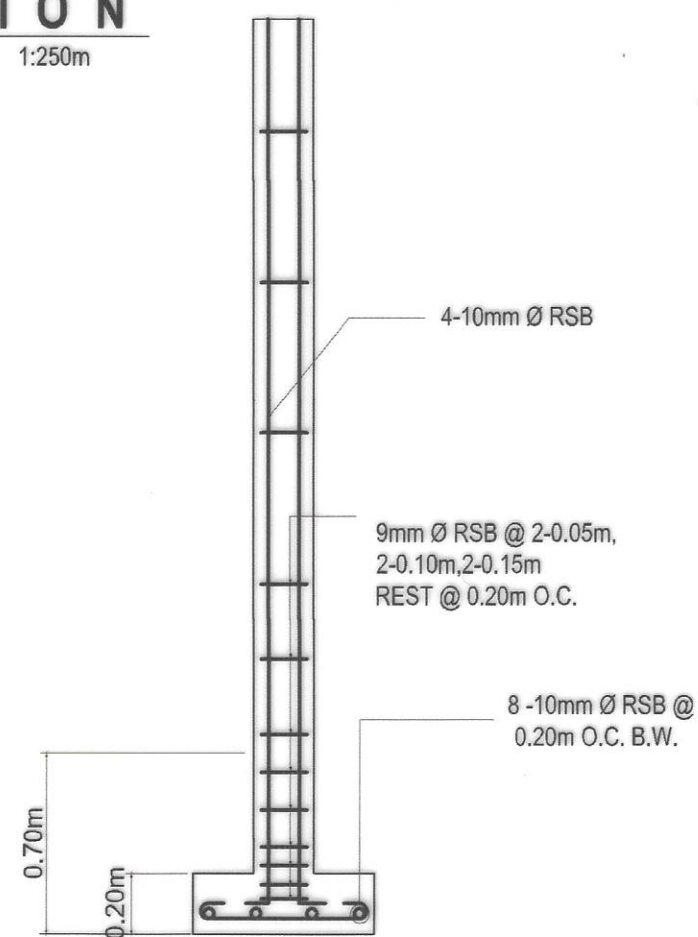
SET NO.  
SHEET NO.  
8  
12



1  
9 13  
SCALE 1:250m  
**FRONT ELEVATION**

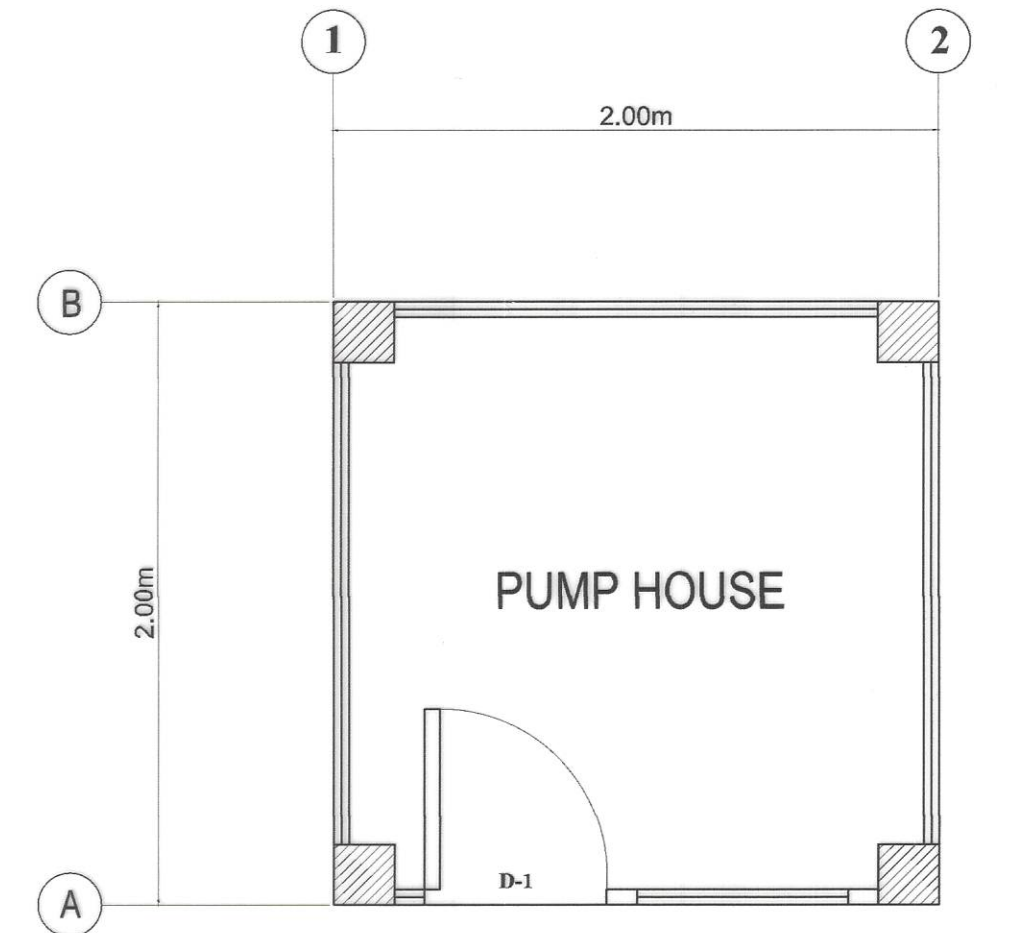


PLAN

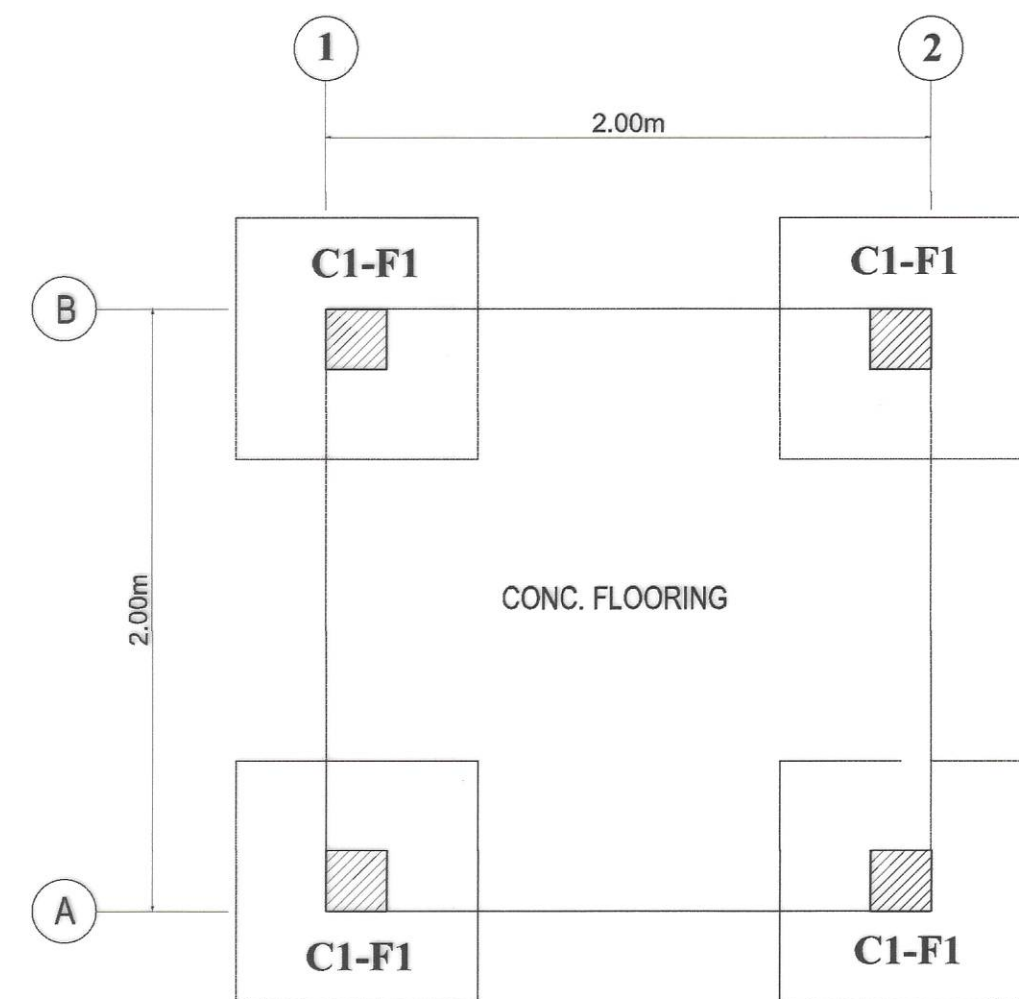


C1-F1

4  
9 13  
SCALE 1:20m  
**DETAIL OF C1-F1**



2  
9 13  
SCALE 1:250m  
**FLOOR PLAN**



3  
9 13  
SCALE 1:250m  
**FOUNDATION PLAN**



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BOAC, MARINDUQUE

SHEET CONTENTS :  
PUMP HOUSE  
TYPICAL DRAWINGS

DRAFTED :  
ARTHUR S. S. DELEZA  
ENGINEER II  
PREPARED :  
MICHAEL R. ALVARADO  
ENGINEER II

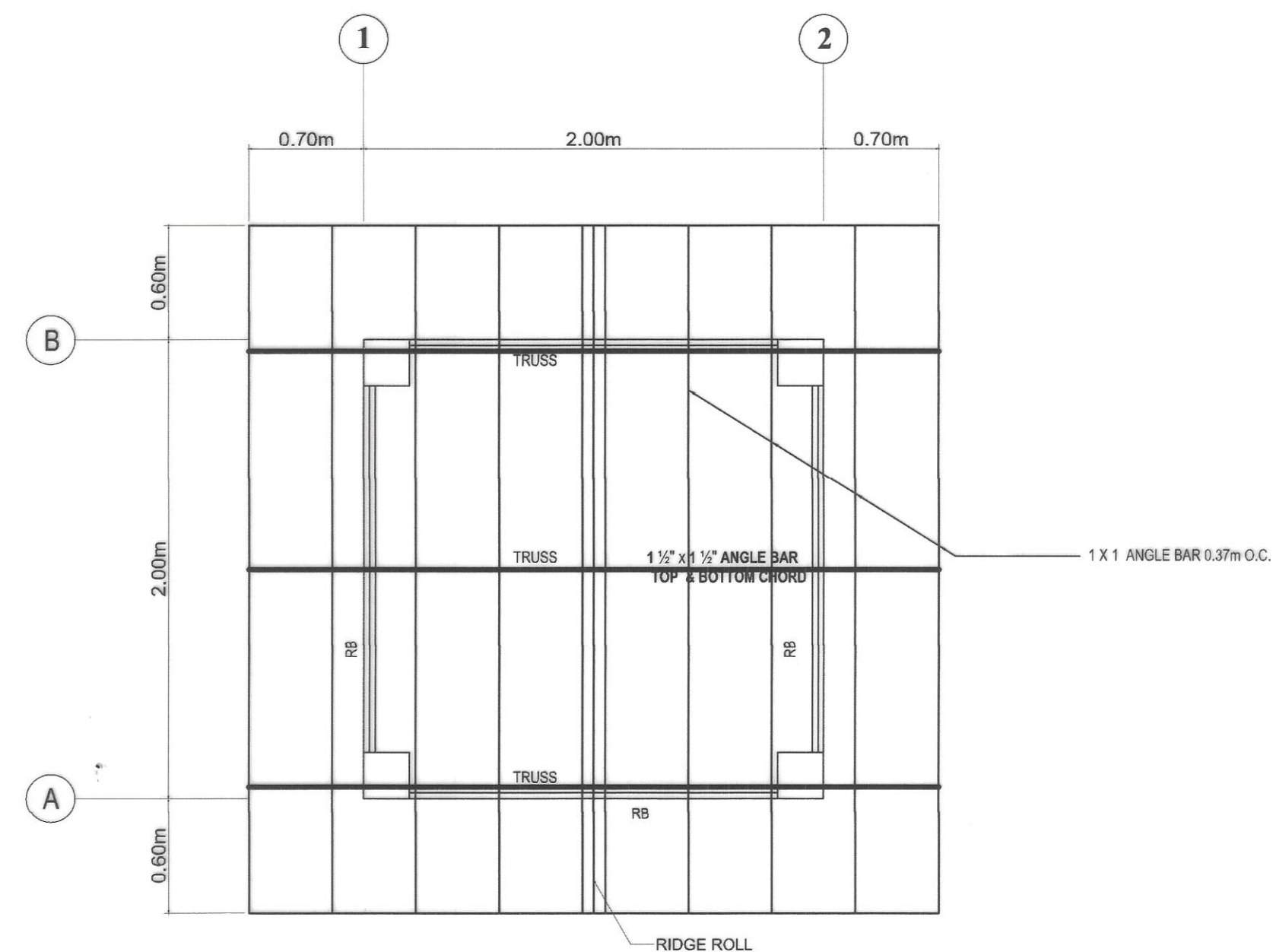
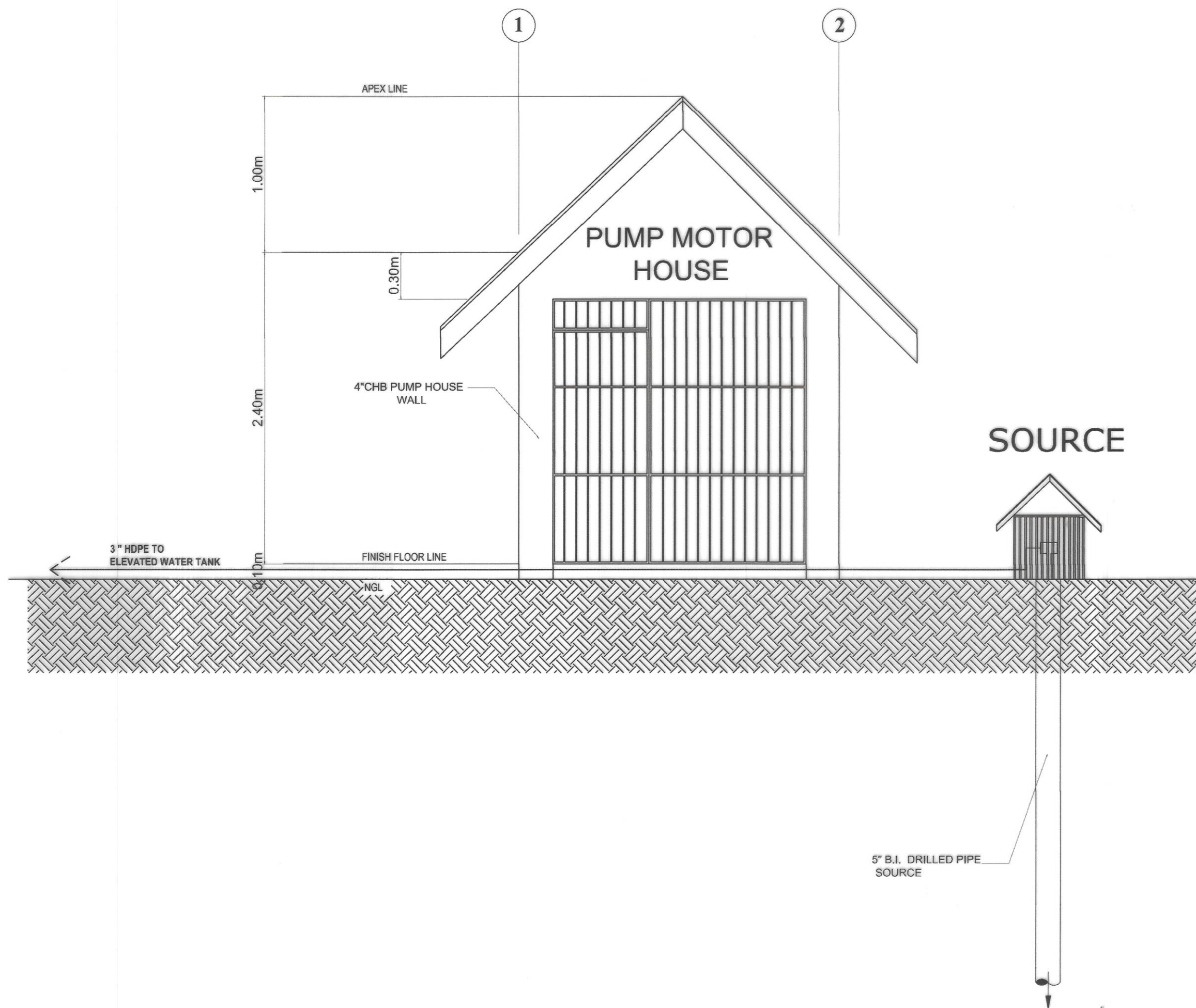
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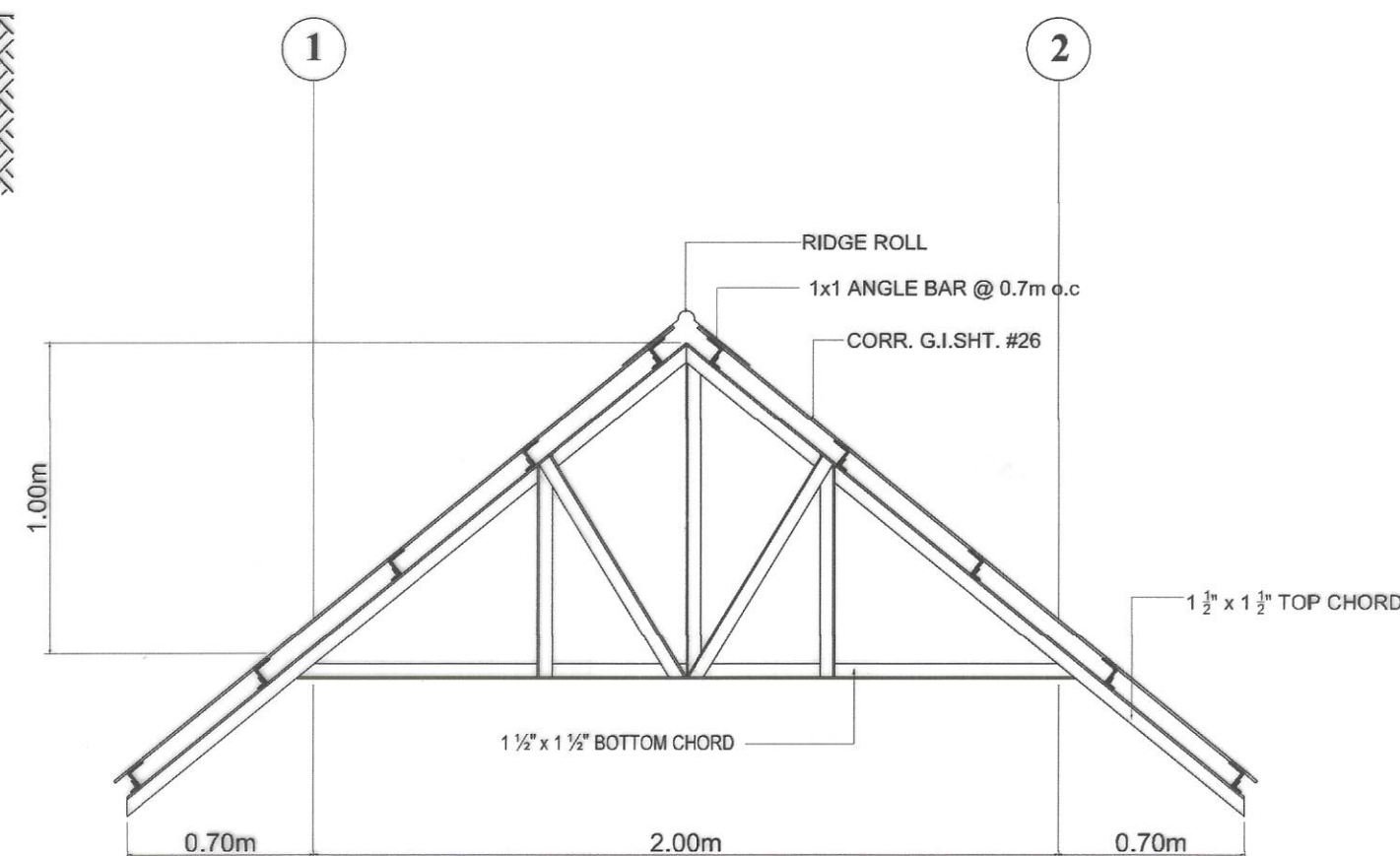
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9 12



**1 ROOF FRAMING PLAN**  
SCALE 1:250m



**2 TRUSS DETAIL**  
SCALE 1:20m



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DRAFTED :  
ARTHUR M. GARCIA  
ENGINEERING ASSISTANT  
PREPARED :  
MICHAEL R. TALITAO  
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DPWH  
REGION IV-B  
CY - 2023  
MQ

SHEET NO.  
10  
12

SCHEDULE OF LOADS																							
CIRCUIT NUMBER	LOAD DESCRIPTION	HP	OUTLETS				SWITCHES				VOLT. AMP.	AMP.	VOLTS	OCPD BOLT-ON				CONDUCTORS	CONDUIT	AREA SERVED			
			O.L.	MOTOR	C.O.	L.O.	S	S2	S3	S3W				AF	P	AT	KAIC				THHN CU STRANDED		
1	LIGHTING POINTS AND CONVENIENCE OUTLET							1			380	1.652	230V	50	2	20	10	2 # 3.5 mm <sup>2</sup> E= 1 # 2.0 mm <sup>2</sup>	20 MMØ	COMMERCIAL BLDG. INSIDE			
2	WATER PUMP	3HP		1							3910	17.0	230V	50	2	40	10	2 # 5.5 mm <sup>2</sup> E= 1 # 3.5 mm <sup>2</sup>	20 MMØ	COMMERCIAL BLDG. INSIDE			
3	SPARE										1500	6.26	230V	50	2	20	10			SPARE			
4	SPARE										1500	6.26	230V	50	2	20	10			SPARE			
TOTAL											7290												
MAXIMUM DEMAND IN KVA:			7,290		O . C . P . D											SERVICE ENTRANCE CONDUCTOR:				2 # 14MM <sup>2</sup> THHN WIRE			
MAXIMUM DEMAND IN AMP:		57.19			BREAKER		QTY.	TYPE	AT	AF	P	KAIC	GROUNDING CONDUCTOR:							1 # 8.0MM <sup>2</sup> TW WIRE			
					MAIN		1	MCCB	60	100	2	10	MAIN CONDUIT:							25MMØ RSC CONDUIT			
					BRANCHES		1	MCB	40	50	2	10											
							3	MCB	20	50	2	10											

COMPUTATONS

FOR MAIN SERVICE ENTRANCE CONDUCTOR

$$I_T = \frac{7,290VA + (3910VA \times 0.25)}{230V}$$

$$= 35.94A$$

USE 2NOS. 14.0mm<sup>2</sup> THHN WIRE  
1NO. 8.0mm<sup>2</sup> TW WIRE (G)  
IN 1Ø 25mm<sup>2</sup>

COMPUTATONS

FOR MAIN DISCONNECTION EQUIPMENT

$$I_T = \frac{7,290VA + (3910VA \times 1.50)}{230V}$$

$$= 57.19A$$

USE ONE 60AT, 100AF, 2P, 230V, MCCB  
WITH GROUND BUS AND  
BRANCHES:  
1NO-40AT, 50AF, 2P

LEGEND :

➤ SERVICE ENTRANCE

⊕ THREE GANG CONVINIENCE OUTLET

⊗ CEILING LIGHT OUTLET WITH 9W LED BULB

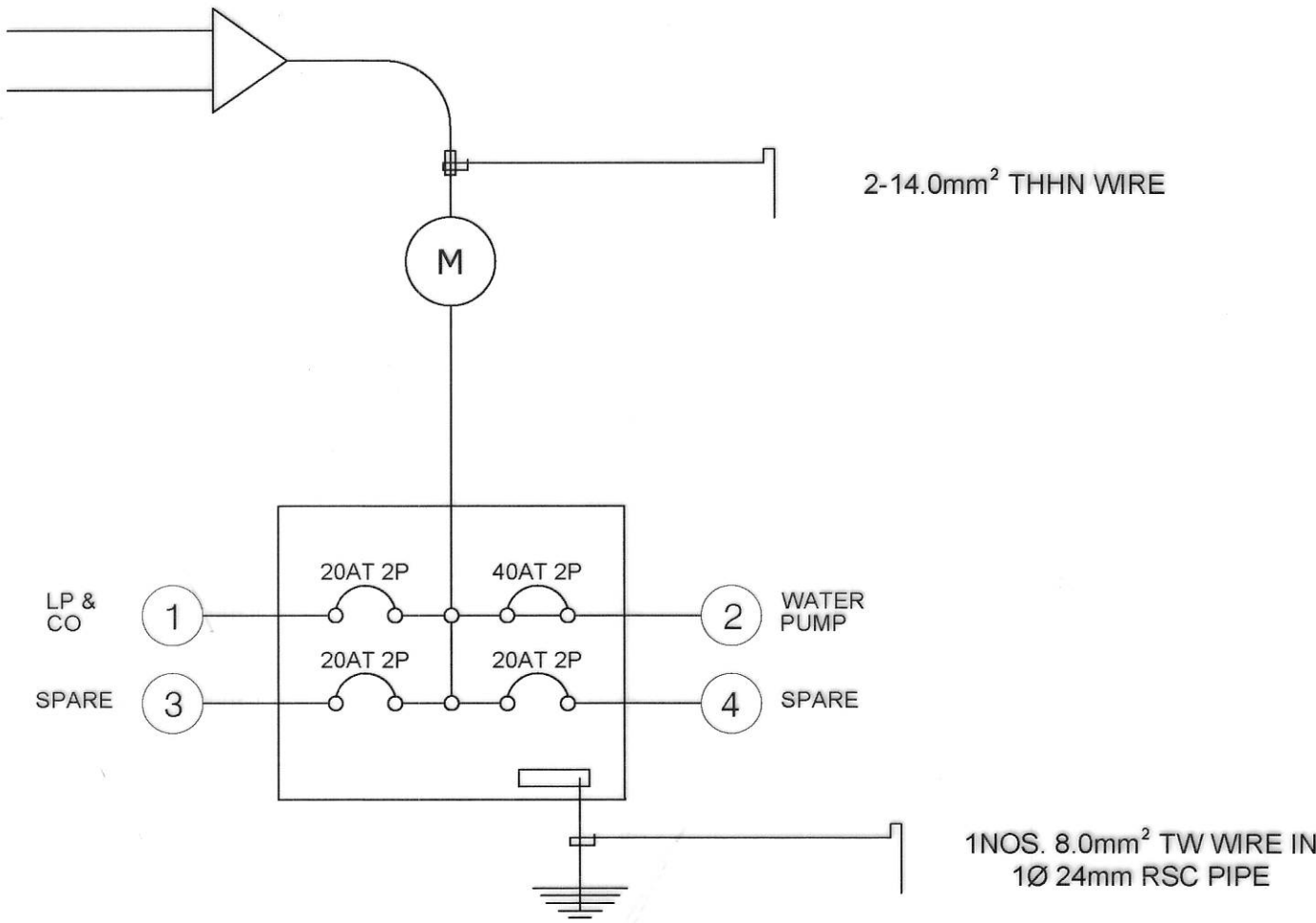
MC MOTOR CONTROL

▮ PANEL BOARD

⊞ KWHR METER

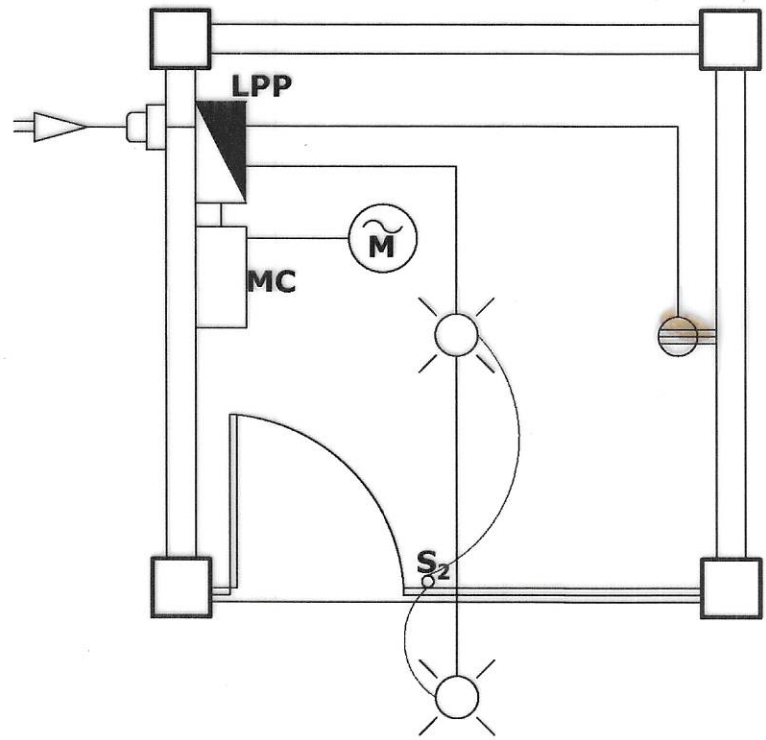
Ⓜ 3HP, 230V, 60HZ, 1PHASE WATER PUMP MOTOR

Ⓢ₂ TWO WAY SWITCH



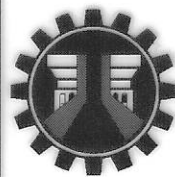
1 SINGLE LINE DIAGRAM

12/12 SCALE NTS



2 PUMP HOUSE

12/12 SCALE NTS



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGION IV - B, MIMAROPA  
OFFICE OF THE DISTRICT ENGINEER  
BOAC, MARINDUQUE

PROJECT NAME AND LOCATION :

CONSTRUCTION OF WATER SUPPLY SYSTEM,  
BARANGAY APITONG, BOAC, MARINDUQUE  
BOAC, MARINDUQUE

SHEET CONTENTS :

SCHEDULE OF LOADS - PUMP HOUSE  
ELECTRICAL - PUMP HOUSE  
TYPICAL DRAWING

DRAFTED :

ARTHUR M. JARDELEZA  
ENGINEERING ASSISTANT

PREPARED :

ADRIAN V. LOZANO  
ENGINEER II

REVIEWED :

MICHAEL P. MALITAO  
ENGINEER II

DATE :

SUBMITTED :

FERNAN S. DIAZ  
CHIEF, PLANNING AND DESIGN SECTION  
DATE :

RECOMMENDED :

ARISTEO L. LINGA  
ASSISTANT DISTRICT ENGINEER  
DATE :

APPROVED :

EVELYN R. PUERTOLLANO  
DISTRICT ENGINEER  
DATE :

SET NO.

MQ

SHEET NO.

11

12

THIS IS WHERE YOUR TAXES GO

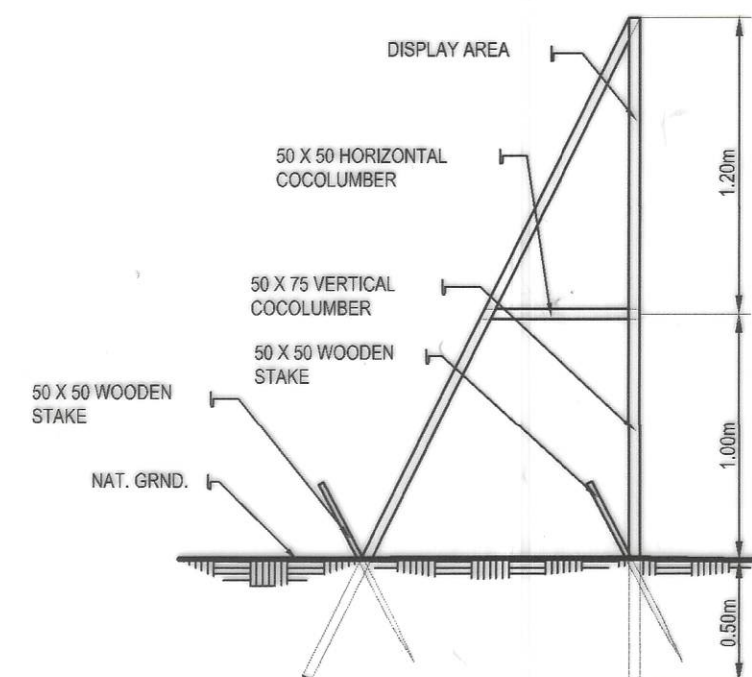
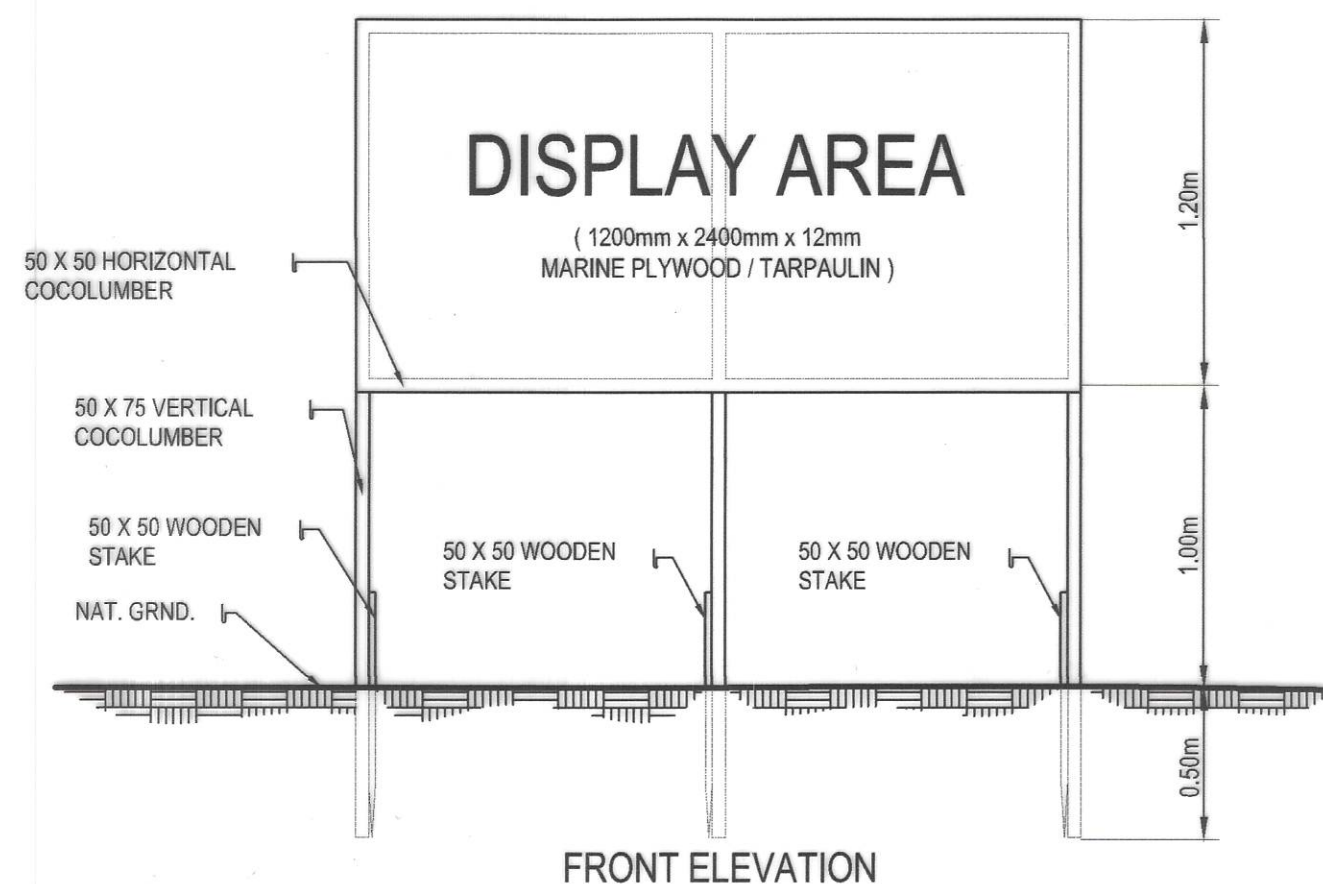
NAME OF PROJECT:  
 LOCATION:  
 NAME OF CONTRACTOR:  
 DATE STARTED:  
 CONTRACT COMPLETION DATE:  
 CONTRACT COST:  
 IMPLEMENTING OFFICE:  
 SOURCES OF FUND:

Department of Public Works and Highways  
 Text 2920 or call (02) 165-402 for any concern on this project  
 www.dpw.gov.ph

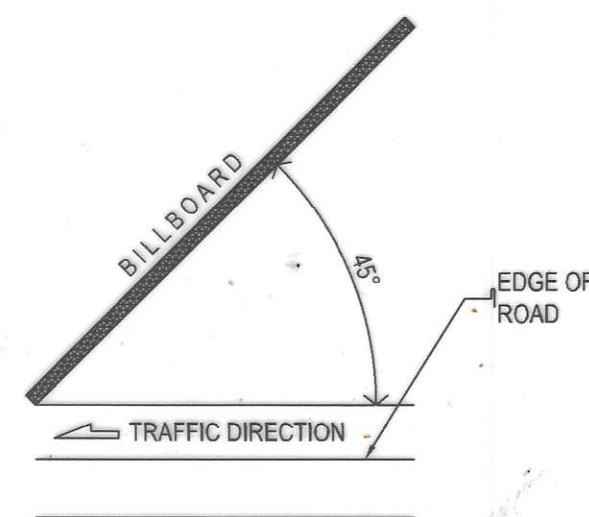
# 1 14 13 DETAIL OF BILLBOARD

## NOTES :

1. THE INSTALLATION OF THE REQUIRED STANDARD BILLBOARD SIZE ( 1200MM X 2400MM / 4 FT. X 8FT. ) FOR ALL PROJECTS SHALL BE STRICTLY ENFORCED.
2. NO POLITICAL BILLBOARDS SHALL BE ALLOWED TO BE INSTALLED 100 METERS BEFORE AND 100 METERS AFTER ALL DPWH PROJECTS AND IN BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT OF WAY.
3. DPWH CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS ON THEIR EQUIPMENT OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.



TYPICAL FRAME ELEVATION

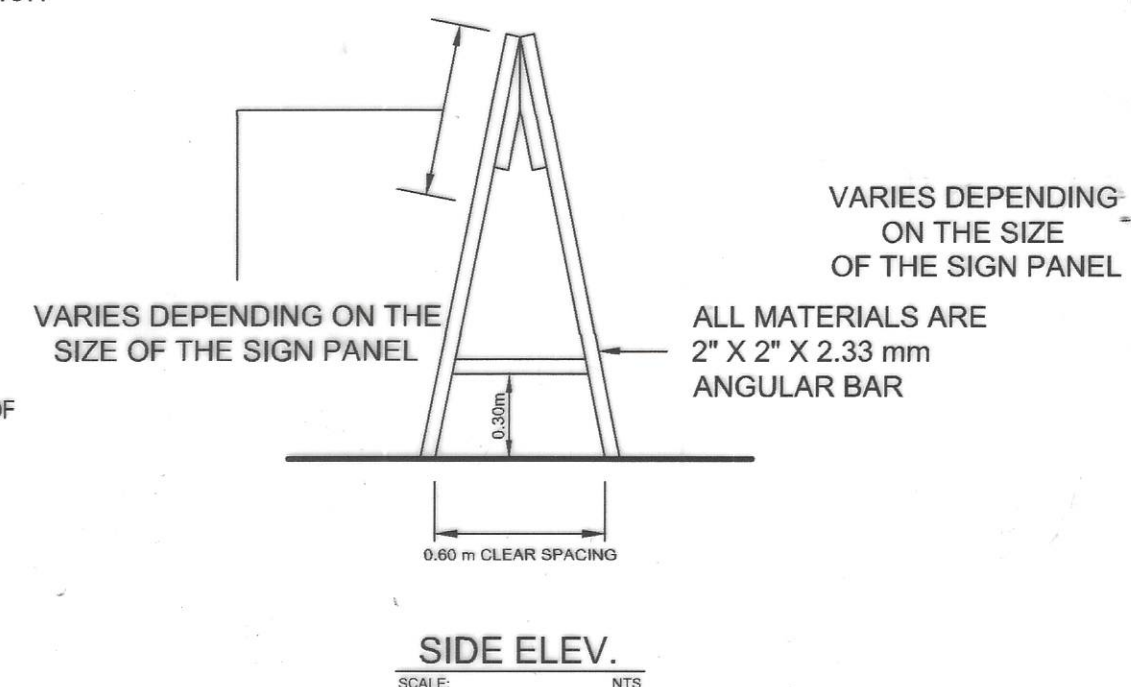


ORIENTATION



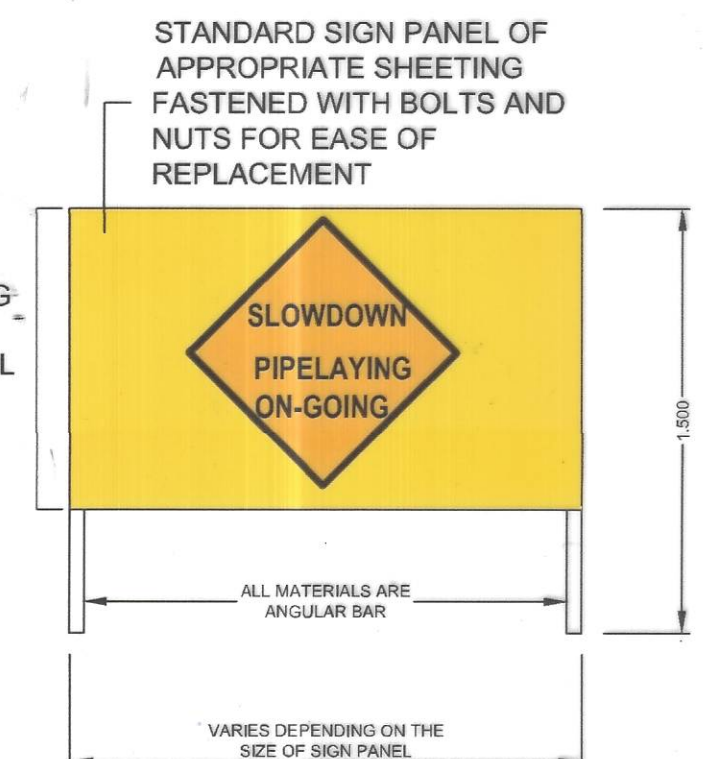
# 2 14 13 WATERWORKS CONSTRUCTION SIGNAGE

NOTE : SIGNS SHALL BE MADE FROM RETROREFLECTIVE SIGN FACE MATERIAL AS PER DO 13 SERIES OF 2018



SIDE ELEV.  
SCALE: NTS

SIGNAGE INSTALLATION DETAIL  
SCALE: NTS



FRONT ELEVATION  
SCALE: NTS

<p>REPUBLIC OF THE PHILIPPINES          DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS          REGION IV - B, MIMAROPA          OFFICE OF THE DISTRICT ENGINEER          BOAC, MARINDUQUE</p>	PROJECT NAME AND LOCATION :	SHEET CONTENTS :	DRAFTED :	REVIEWED :	SUBMITTED :	RECOMMENDED :	APPROVED :	SET NO.	SHEET NO.
	CONSTRUCTION OF WATER SUPPLY SYSTEM, BARANGAY APTONG, BOAC, MARINDUQUE BOAC, MARINDUQUE	TYPICAL DRAWINGS	ARTHUR M. JARDELEZA ENGINEERING ASSISTANT MICHAEL P. MALITAO ENGINEER II	JERSON O. MONTERA ENGINEER II	FERNAN S. DIAZ CHIEF, PLANNING AND DESIGN SECTION	ARISTEO L. LINGA ASSISTANT DISTRICT ENGINEER	EVELYN R. PUERTOLLANO DISTRICT ENGINEER	DPWH REGION IV-B CY-2023 MQ	12 12