

Repair/Improvement of San Jose Diversion Dam
 Brgy. San Jose, Talisay, Camarines Norte
Php1,000,000.00
 2021 Quick Response Fund
BILL OF QUANTITIES AND COST PROPOSAL

OF FUND:
 SUBJECT:

PART	DESCRIPTION	UNIT	QUANTITY	UNIT COST (PhP)	AMOUNT (Php)
I	Construction of Camp, Temporary Facilities & Movement of Equipment	L.S.	1.0		
II	Construction Safety and Health	L.S.	1.0		
III	Dam Improvement				
	102(2) Common Excavation	cu.m.	8.00		
	515(3) Structural Backfill/Backfilling	cu.m.	7.00		
	900(1)a Concrete Class "A" w/ Forms	cu.m.	3.39		
	900(1)b Concrete Class "A" w/o Forms	cu.m.	1.25		
	404(1)a Reinforcing Steel Bars	kgs	585.90		
	200(1) Aggregate Sub Base Course	cu.m.	0.55		
	SPL1 2" Ø G.I. Pipe Railings	lot	1.00		
	SPL2 Fabricated Steel Gate (Spillway)	pc	1.00		
	Sub-Total				
IV	Flume 15 m				
	102(2) Common Excavation	cu.m.	8.00		
	515(3) Structural Backfill/backfilling	cu.m.	5.00		
	900(2)a Concrete Class "A" w/ Forms	cu.m.	6.60		
	900(2)b Concrete Class "A" w/o Forms	cu.m.	1.20		
	404(1)a Reinforcing Steel Bars	kgs	640.00		
	200(1) Aggregate Sub Base Course	cu.m.	1.00		
	Sub-Total				
V	Canal Works 222 m				
	102(2) Common Excavation	cu.m.	44.40		
	515(3) Structural Backfill/backfilling	cu.m.	22.20		
	900(2)a Concrete Class "B" With Forms	cu.m.	22.76		
	900(2)b Concrete Class "B" Without Forms	cu.m.	17.76		
	404(1)a Reinforcing Steel Bars	kgs	1665.85		
	200(1) Aggregate Sub Base Course	cu.m.	17.76		
VI	Billboard/ Marker	L.S.	1.00		
	Sub-Total				
	Total Project Cost				
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Note: All Taxes, contractors profit and hauling costs are included in unit cost per item

 Name and Signature of Bidder

DEPARTMENT OF

REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF AGRICULTURE

REGIONAL FIELD UNIT NO.5

SAN AGUSTIN, PILI, CAMARINES SUR.

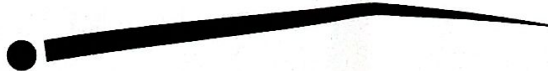
PROJECT TITLE:

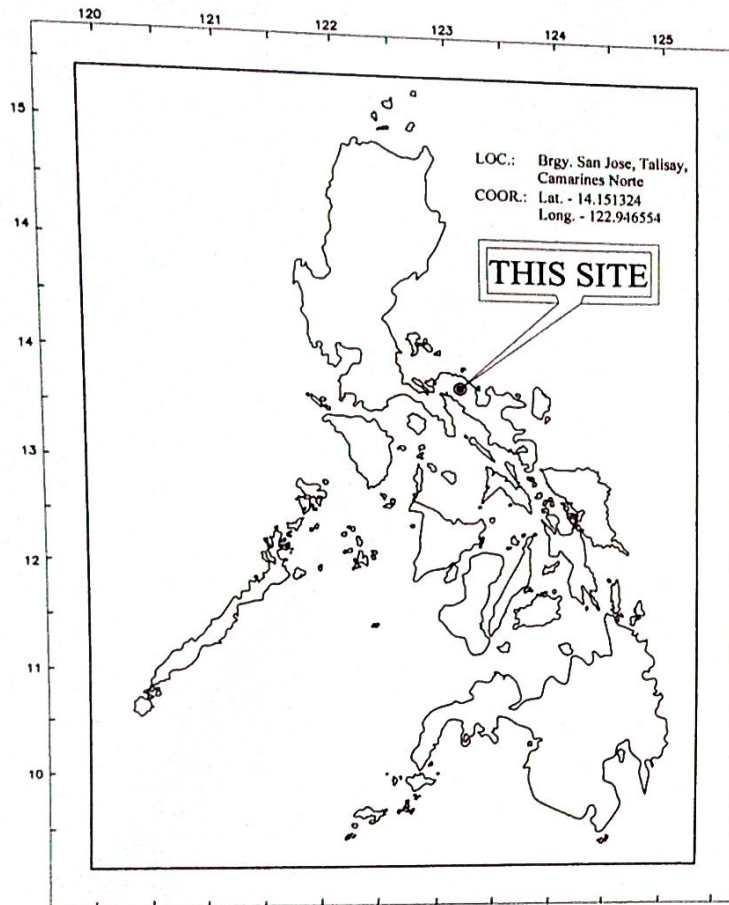
**REPAIR/IMPROVEMENT OF SAN JOSE
DIVERSION DAM**

LOCATION: BRGY. SAN JOSE, TALISAY, CAMARINES NORTE

PREPARED BY:

RAED OFFICE


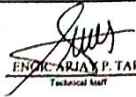
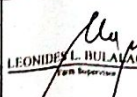
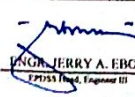
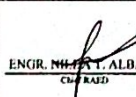





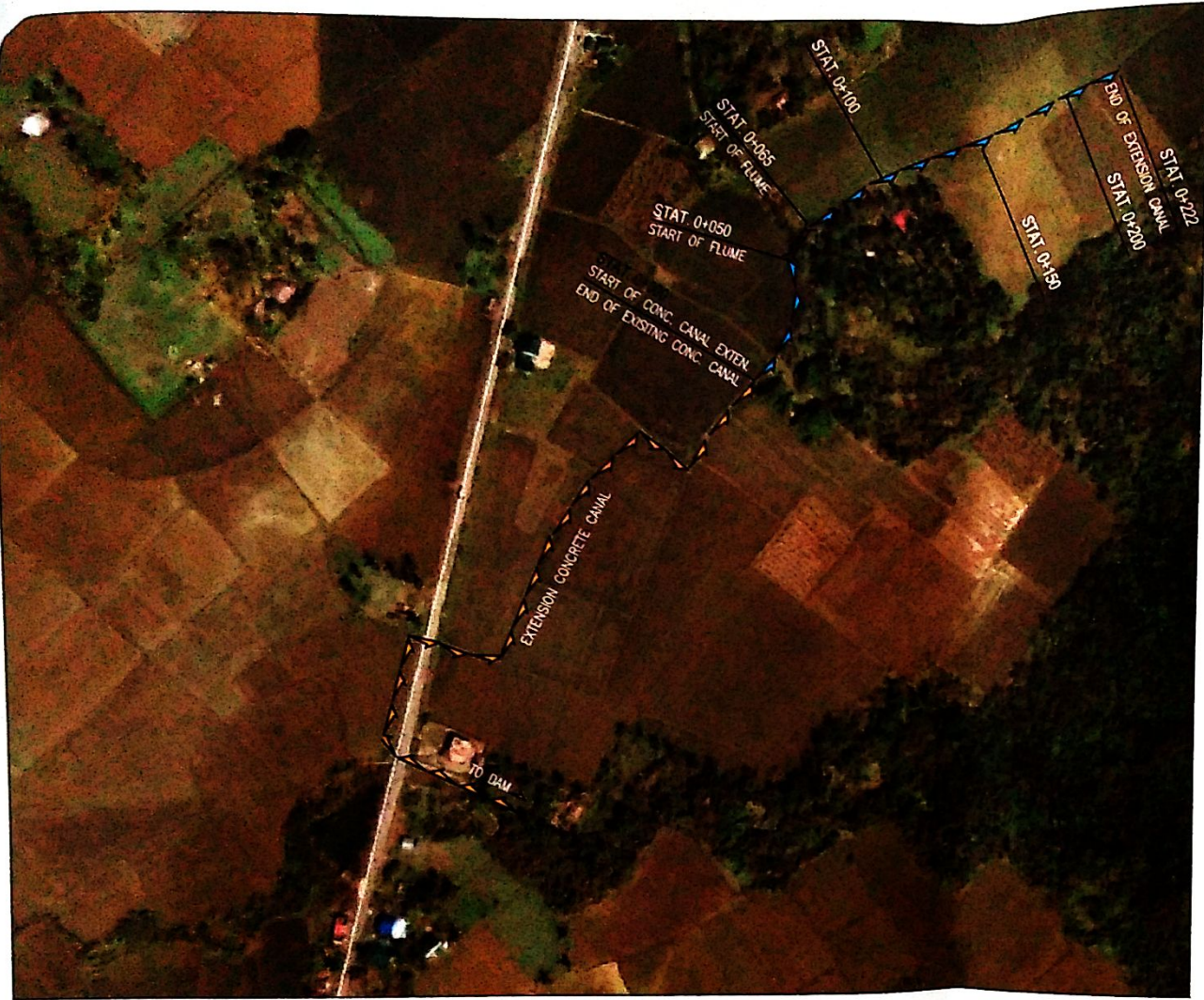


L O C A T I O N M A P

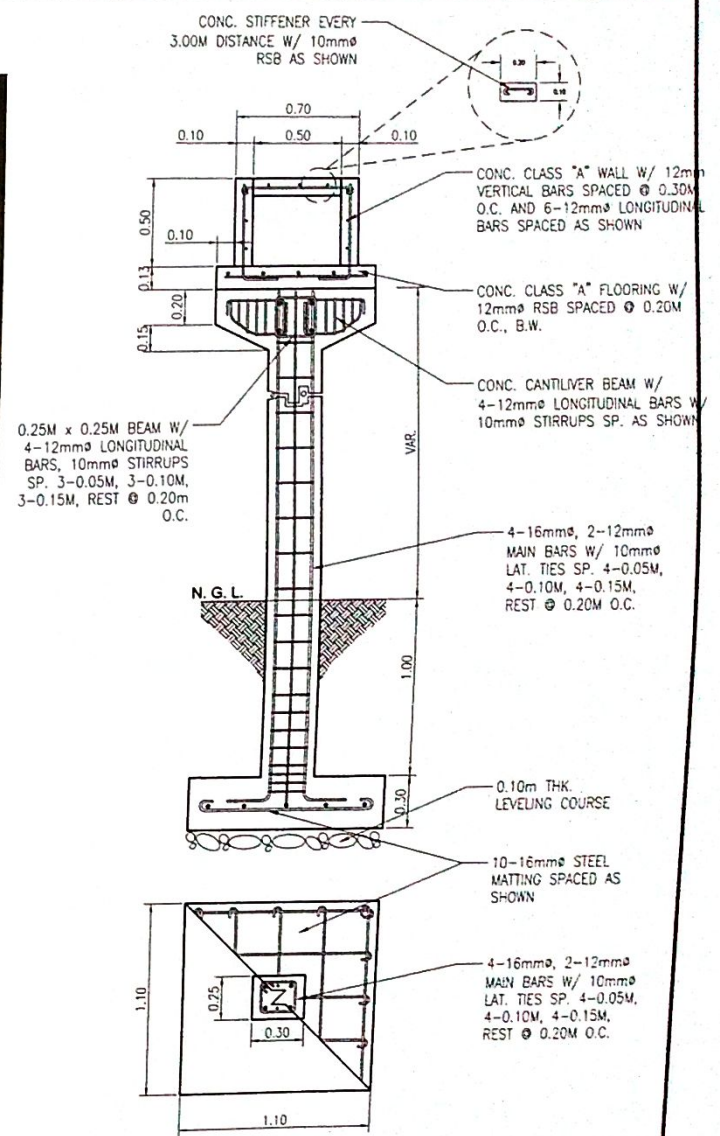
SHEET CONTENT :

⊙ A3 1/7	LOCATION MAP AND SHEET CONTENT
⊙ A3 2/7	FARM PLAN, FLUME COLUMN AND FOOTING DETAIL
⊙ A3 3/7	DAM IMPROVEMENT PLAN
⊙ A3 4/7	SECTION THRU DAM AXIS, DETAIL OF GATE COLUMN TYPICAL CANAL DETAIL, CATWALK END COLUMN DET.
⊙ A3 5/7	PROFILE ALONG CENTERLINE OF PROPOSED FLUME
⊙ A3 6/7	FABRICATED STEEL GATE DETAIL
⊙ A3 7/7	PROJECT BILLBOARD DETAIL CONCRETE MARKER DETAIL

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD UNIT NO. 5 SAN AGUSTIN, PILI, CAMARINES SUR</p>	Name of Project	Prepared by	Checked by	Reviewed by	Submitted by	Recommending Approver	Approved by	CAD by	
	REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM								
	Location	Engr. ARJAY P. TAPIA Technical Staff	LEONIDES L. BULAVACAO Jr. Team Supervisor	ENGR. JERRY A. EBOÑA PROJECT Head, Engineer III	ENGR. MARISSA T. ALBAÑO Chief RAED	LUZ R. MARGELINO RTD, for Operation and Extension	RODELL TORNILLOS, MABE Registered Electrical Engineer		
	Fund Source	AS SHOWN							1/7

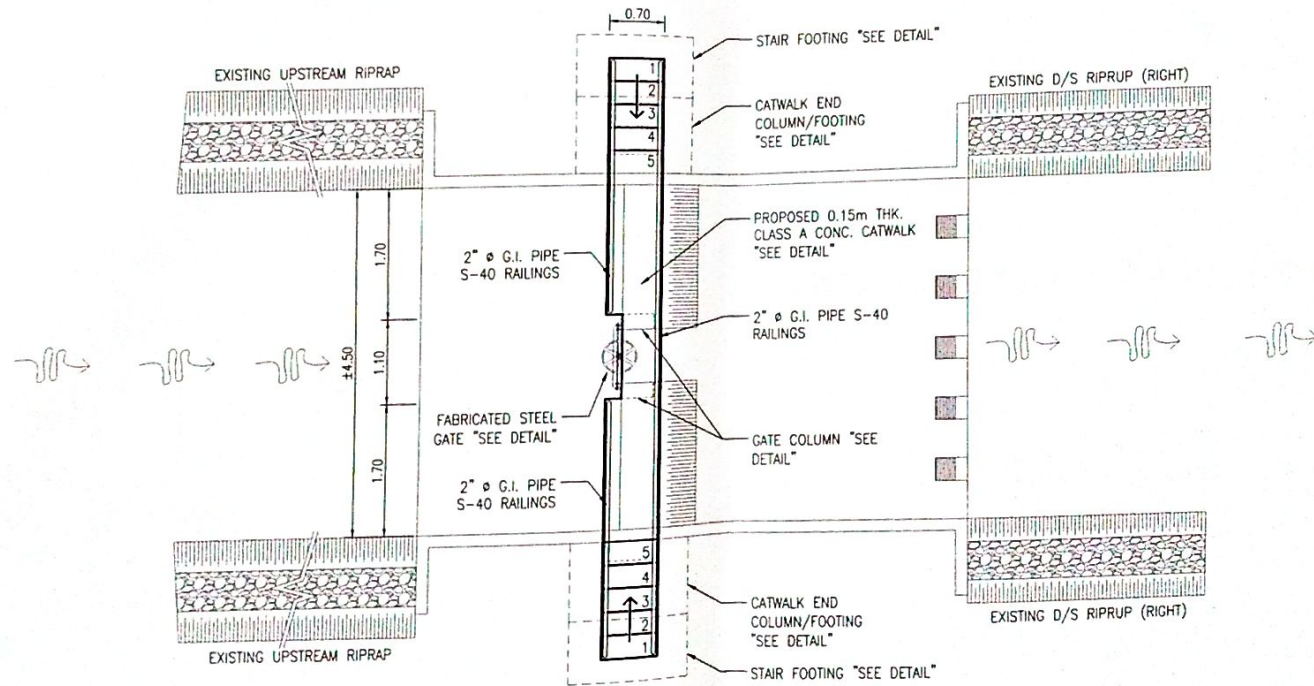
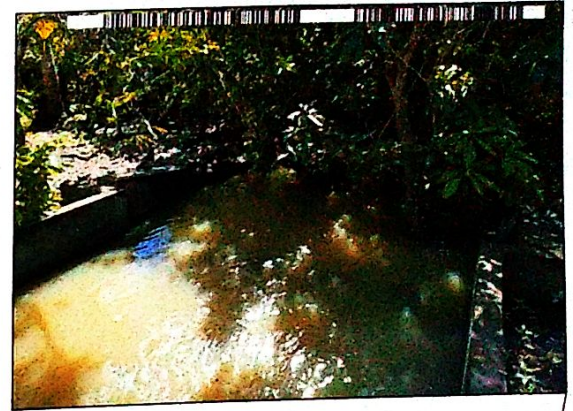


FARM PLAN
NOT TO SCALE



DETAIL OF FLUME COLUMN/FOOTING
SCALE 1:30 mts

<p>DEPARTMENT OF AGRICULTURE 1998</p>	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD UNIT NO. 5 SAN AGUSTIN, PILI, CAMARINES SUR</p>		<p>Name of Project REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM</p>	<p>Prepared by: <i>[Signature]</i> ENGR. ARJAY Y. TAPIA Technical Staff</p>	<p>Checked by: <i>[Signature]</i> LEONIDES L. BULALACAO JR. Asst. Supervisor</p>	<p>Reviewed by: <i>[Signature]</i> ENGR. JERRY A. EBONA EPDAS Head, Engineer III</p>	<p>Submitted by: <i>[Signature]</i> ENGR. NILUAT ALBAÑO CHIEF AED</p>	<p>Recommending Approver: <i>[Signature]</i> LUZ R. MARCELINO AED for Operation and Extension</p>	<p>Approved by: <i>[Signature]</i> RODEL P. TORNICAL MABE Regional Executive Director</p>	<p>CAO by: <i>[Signature]</i></p>
	<p>Location: Brgy. San Jose, Talisay, Camarines Norte</p>	<p>Fund Source: Quick Response Fund</p>	<p>Other Comment: AS SHOWN</p>	<p>DATE 2017</p>	<p>Sheet No. 1/7</p>					
	<p>1998</p>									
	<p>1/7</p>									



IMPROVEMENT PLAN
SCALE 1:150 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD UNIT NO. 5
SAN AGUSTIN, PILI, CAMARINES SUR

Name of Project REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM	
Location Brgy. San Jose, Talisay, Camarines Norte	
Fund Source Quick Response Fund	Chest Content AS SHOWN

Prepared by:
[Signature]
ENGR. ARJAY P. TAPIA
Technical Staff

Checked by:
[Signature]
LEONIDES L. BULALACAO JR.
Farm Supervisor

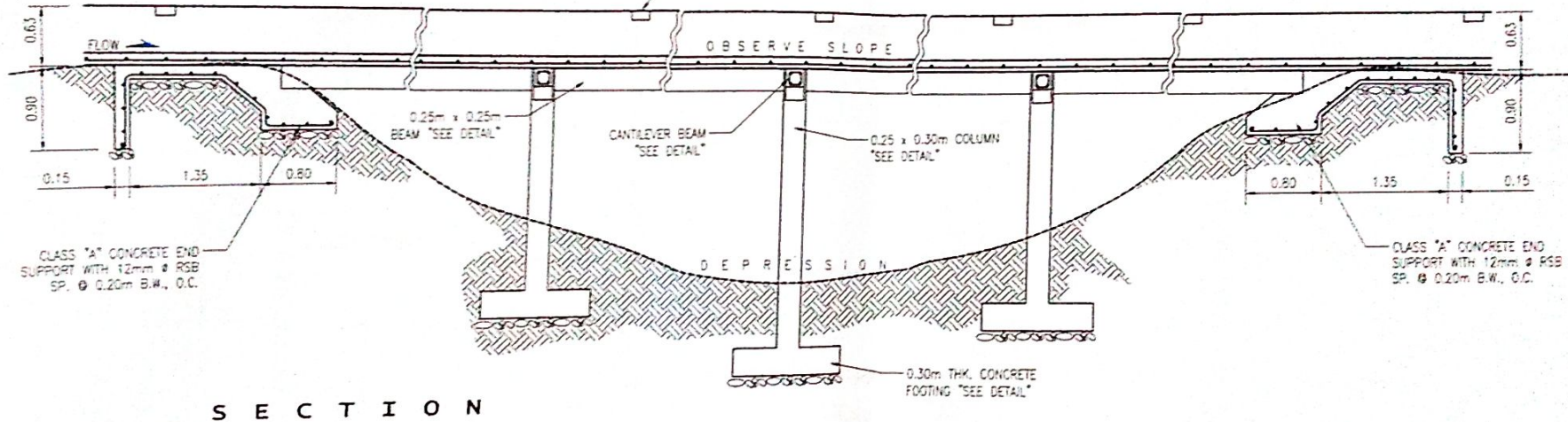
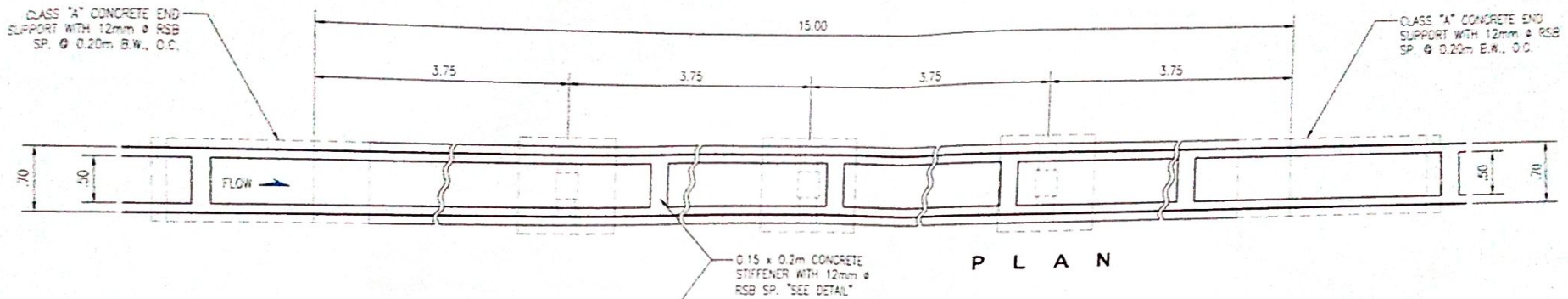
Reviewed by:
[Signature]
ENGR. JERRY A. EBONA
EPDSS III, Engineer III

Submitted by:
[Signature]
ENGR. NIUDA T. ALBAÑO
Field RAED

Recommending Approver:
[Signature]
LUZ R. MARCELINO
RTD for Operation and Extension

Approved by:
[Signature]
RODEL P. BORNILAN, MABE
Regional Extension Director

CD No.	Revision
DATE	2011
Sheet No.	2 / 5



PROFILE ALONG CENTERLINE OF FLUME
SCALE 1:50 MTS

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD UNIT NO. 5 SAN AGUSTIN, PILI, CAMARINES SUR</p>	<p>Name of Project REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM</p>	<p>Prepared by <i>[Signature]</i> ENGR. ARROY P. TAPIA Technical Staff</p>	<p>Checked by <i>[Signature]</i> LEONIDES L. BULACAO Jr. Team Supervisor</p>	<p>Reviewed by <i>[Signature]</i> ENGR. JERRY A. EBOÑA EPDAS Permit, Engineer 02</p>	<p>Submitted by <i>[Signature]</i> ENGR. NILDA T. ALBANO Chief RAED</p>	<p>Person in Charge, Approval <i>[Signature]</i> LUZ Y. MARCELO RTD for Operation and Extension</p>	<p>Approved by <i>[Signature]</i> RODEL P. TORNILA, MABE Regional Director - Camarines</p>	<p>CAD No. Revised Date Sheet No. 5/7</p>
	<p>Location Brgy. San Jose, Talavera, Camarines Norte</p>	<p>Project Source Quick Response Fund</p>	<p>Drawn Contour AS SHOWN</p>					

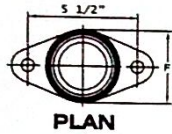
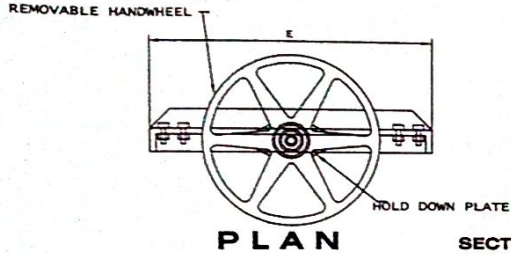
SCHEDULE OF DIMENSIONS
DIMENSIONS (in mm.)

ITEM NO.	QUANTITY	SIZE OF OPENING				GATE SLIDE THICKNESS	LIFTING STEM DIA.	SIZE OF STIFFENER		VERTICAL AND HORIZONTAL FRAME		TOP FRAME	STEM HANGER	COVER PLATE	FILLER BAR
		W _o	H _o	W _s	H _s			VERTICAL	HORIZONTAL	X	Y				
OUTLET	1	680	750	750	800	15	50	9 X 9 X 9	9 X 50 x 60	1800	800				

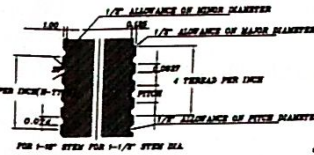
A	B	C	D	E	F	G	LENGTH OF FRAME H	THREAD LENGTH L	DISTANCE OF STIFFENER X	Y	STEM BOLT DIAMETER	FRAME BOLT DIAMETER	ANCHOR BOLT DIAMETER	ARMED TIE OF WPT
800	800	800	400	850			800	8750	1800		1.75	2.54	2.54	

NOTES:
LIFT NUT TREATED WITH ZINC
VARIES WITH THE STEM THREAD DIAMETER

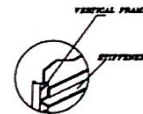
- GENERAL NOTES AND SPECIFICATIONS:**
The gate shall be provided as per dimensions and shape as shown in the plan. The materials to be used shall be of good quality and shall conform to the following features:
1. Gate Slide, Filler Bars, Cover Plates, Gusset Plates and Stopper - Steel Plates Astma 285
2. Angle Iron - Structural Steel Astma A36
3. Lifting Bars - Cold Rolled Steel Astma A108-52T Grade 1045.
4. Lift Nuts and Hold Down Plates - Cast Iron Astma A18 Class 30
5. Handwheel and Nuts - Astma 233
6. Pitting-Up Bolts and Nuts - Astma 233
7. Ball Thrust Bearing - SKF No. 016 or Equivalent
8. Coatings:
a.) All Steel Parts - Hot Dipped Galvanized
b.) All cast iron parts - Coal Tar Epoxy
9. All frictional surfaces of the Gate Assembly shall be Machined accurately to minimize friction.



H-TYPE LIFT SECTION OF LIFT NUT

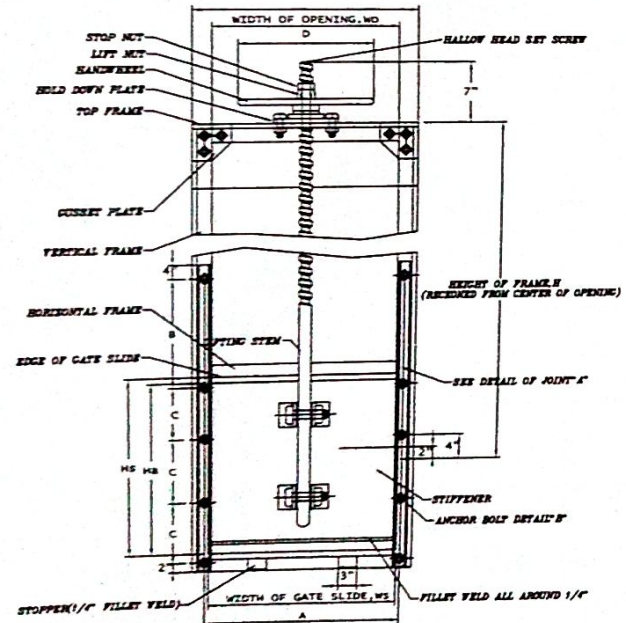


ENLARGED DETAIL OF THREAD

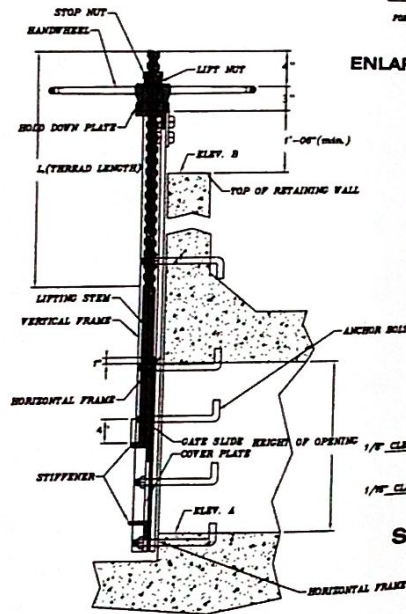


DETAIL OF JOINT 'A' (REAR VIEW)

SECTION THRU 'BB'

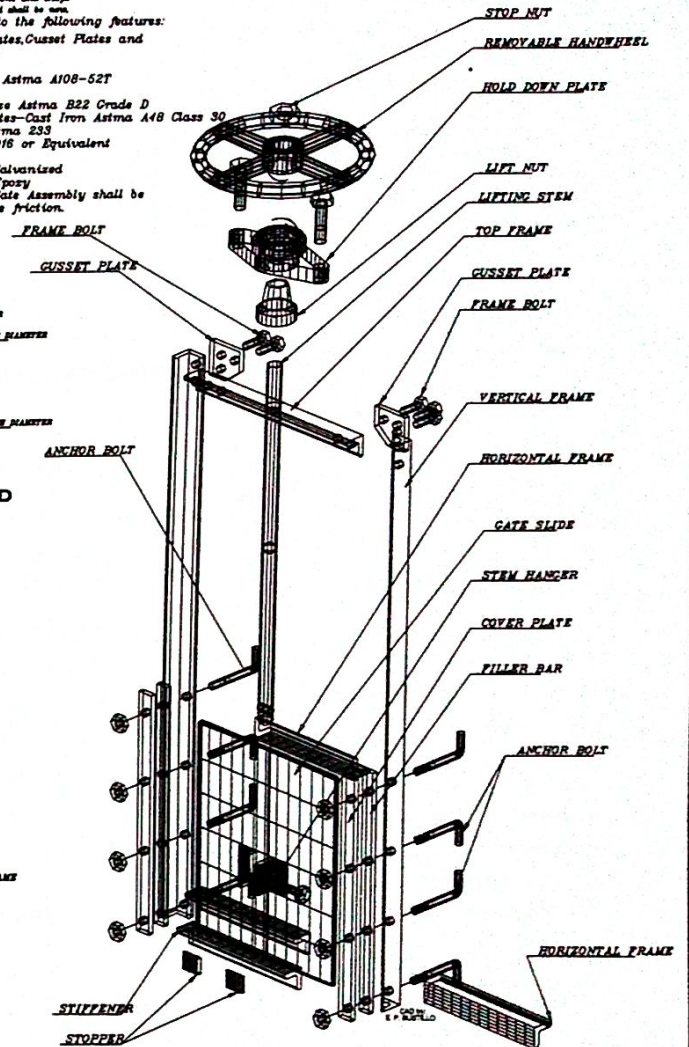


FRONT ELEVATION



SECTION THRU 'AA'

RECTANGULAR SLIDE GATE



PERSPECTIVE ASSEMBLY DETAIL



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD UNIT NO. 5
SAN AGUSTIN, PILI, CAMARINES SUR

Name of Project REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM	Prepared by ENGR. ARJAY P. TAPIA Technical Staff	Checked by LEONIDEA L. BULLACAO JR. Farm Supervisor	Reviewed by ENGR. JERRY A. EBOÑA EPWS Head, Engineer III	Submitted by ENGR. MILDY ALBAÑO Checked	Recommending Approval LUCK MARCELINO RTD for Operation and Maintenance	Approved by RODEL TORREALA MABE Regional Extension Director	CAD by Date E221 Sheet No. 6/7
Location Brgy. San Jose, Talisay, Camarines Norte	Fund Source Quick Response Fund	Draw Content AS SHOWN					

DESIGNER SHOULD ADHERE TO COMMISSION ON AUDIT CIRCULAR 2013-004 PREPARATION AND INSTALLATION GUIDELINES:

- THE NEW BILLBOARD DESIGN LAYOUT AND DIMENSION (SEE ATTACHED DRAWING) SHALL BE INSTALLED ON A STANDARD BILLBOARD MEASURING 2.4m X 2.4m (8ft.X8ft.) USING 12mm (1/2 inch) THICK MARINE PLYWOOD OR TARPULIN POSTED ON 5mm (3/16inch) MARINE PLYWOOD.
- FOR EACH PROJECT, THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE.
- NAME(S) AND/OR PICTURE(S) OF ANY PERSONAGES SHOULD NOT APPEAR IN THE BILLBOARD.

- NO POLITICAL BILLBOARD SHALL BE ALLOWED TO BE INSTALLED 100 METERS BEFORE AND 100 METERS AFTER ALL DA-RFOS PROJECTS AND IN BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT-OF-WAY.
- DEPARTMENT OF AGRICULTURE CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS ON THEIR EQUIPMENT OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.

2.40

DEPARTMENT OF AGRICULTURE
Regional Field Unit No. 5
San Agustin, Pili, Camarines Sur

Project: _____
 Cost: _____
 Location: _____
 Fund Source/s: _____
 Contractor: _____
 Brief Description of Project: _____

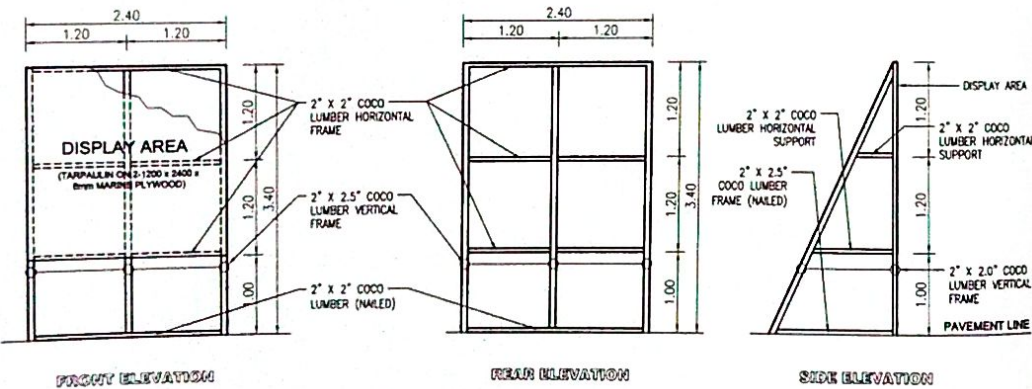
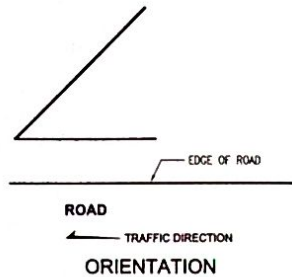
Project Details:

Project Code	Project Name	Type of Contract	Prepared by	Checked by	Date	Remarks

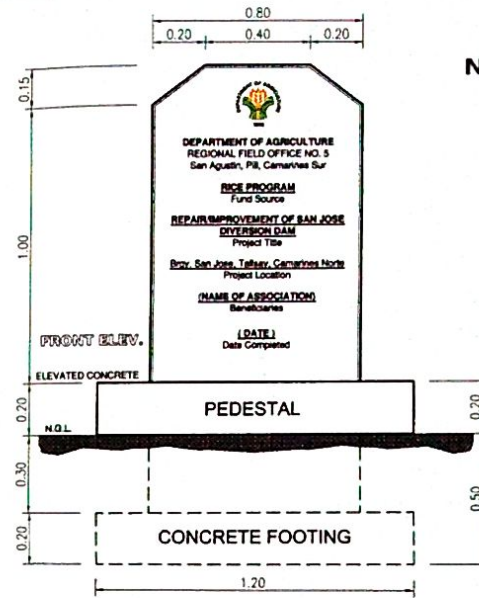
For information & records about this project, please contact the Regional Office or Client and for work procedure in the project.

RD Regional Office No. 5, Client: _____
 Address: _____
 Contact No.: _____

"I had never Philippines with Progression, Justice and Fairness!"

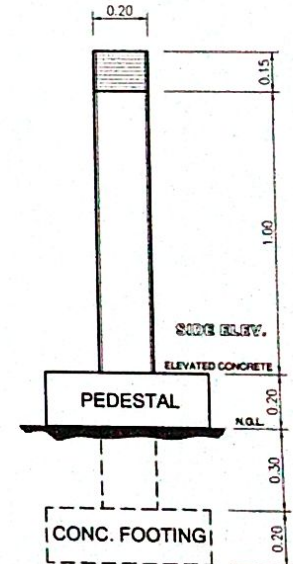
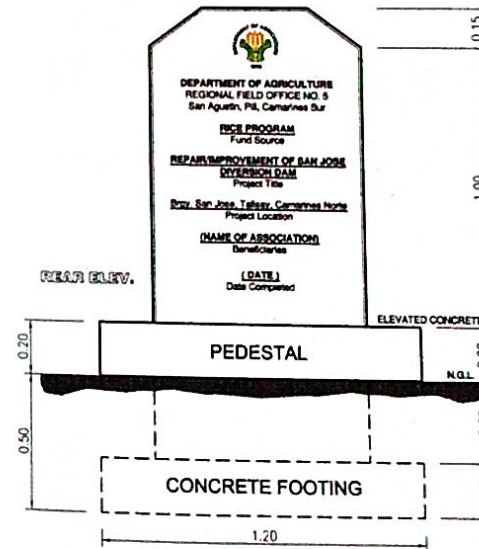


PROJECT BILLBOARD DETAIL
NOT TO SCALE



NOTE:

- PROVIDE CEMENT PLASTER FINISH ON BOTH FACES-
- CONCRETE MARKER SHOULD BE FINISH COATED WITH WHITE ENAMEL PAINT.
- ALL PROJECT INFORMATION AS INDICATED SHOULD BE WRITE IN NEAT AND CLEAR MANNER.
- BE SPECIFIC WITH THE SPELLING OF THE INDICATED NAME OF PERSONS AND THEIR RESPECTIVE DESIGNATION.



CONCRETE MARKER DETAIL
SCALE 1:20 MTS

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD UNIT NO. 5 SAN AGUSTIN, PILI, CAMARINES SUR</p>	Name of Project	Prepared by:	Checked by:	Reviewed by:	Submitted by:	Recommending Approval:	Approved by:	CAD by:
	REPAIR/IMPROVEMENT OF SAN JOSE DIVERSION DAM	ENGR. ARJAY P. TAPIA Technical Staff	LEONIDES L. BULACAO Jr. Farm Supervisor	ENGR. JERRY A. EBONA LPDSS Head, Engineer III	ENGR. NILDA F. ALBARO Civil RAED	LUZ R. MARCELINO ATD, Agr. Operations and Extension	RODEL V. TORNIOLA, MABE Regional Extension Supervisor	Rhysost
	Location							DATE
	Rtry. San Jose, Talisay, Camarines Norte							2021
Fund Source	Sheet Contain							Sheet No.
Quick Response Fund	AS SHOWN							7/7