



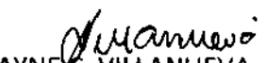
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE

WESTERN VISAYAS
PAROLA, ILOILO CITY

DETAILED ENGINEERING DESIGN PLAN

**REHABILITATION OF
NATO SOLIGUEN IRRIGATION PROJECT**

BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL
(RICE PROGRAM 2023)

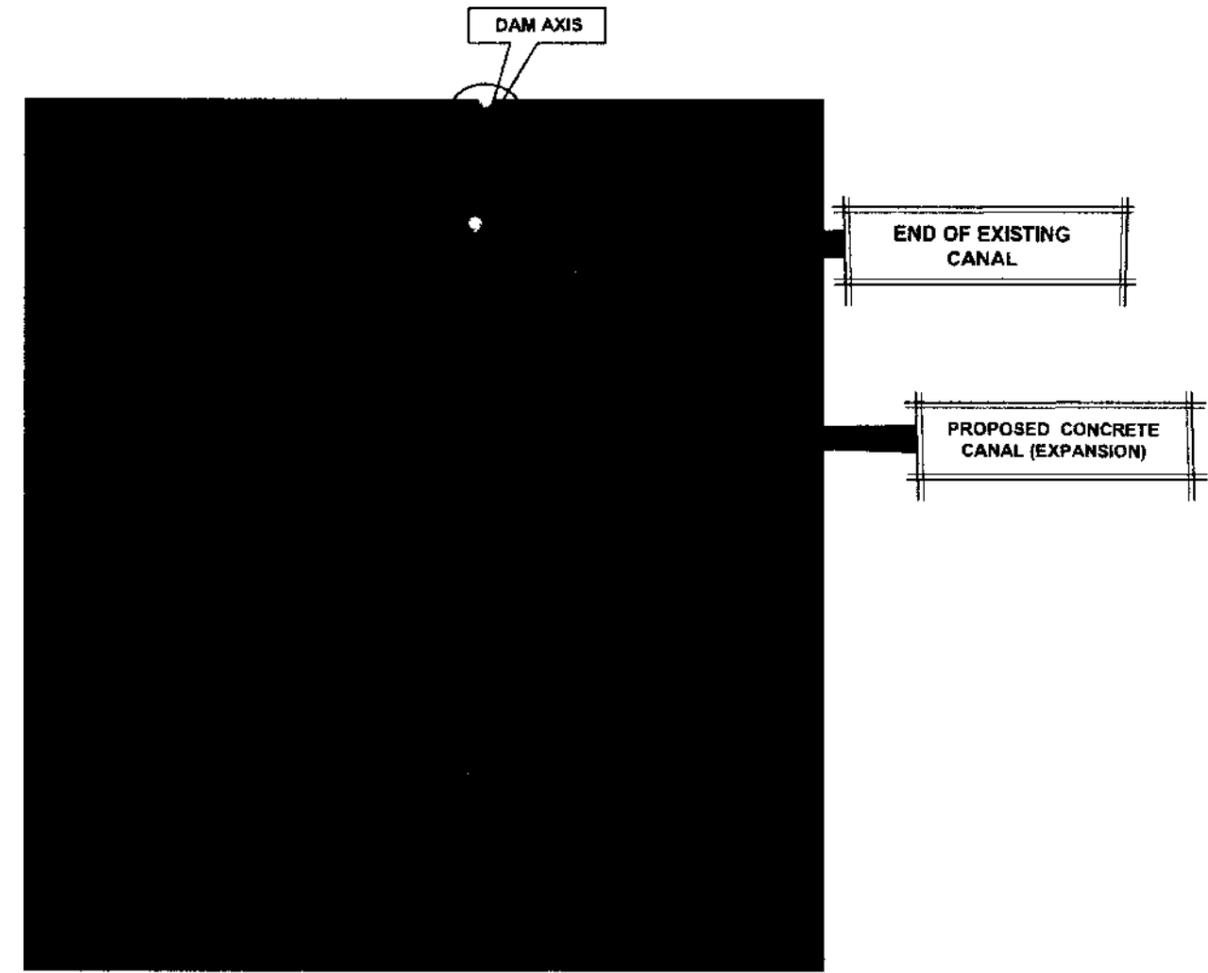

SHAYNE C. VILLANUEVA, ABE
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Head, Engineering Plans, Designs, and
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OIC-Chief, RAED

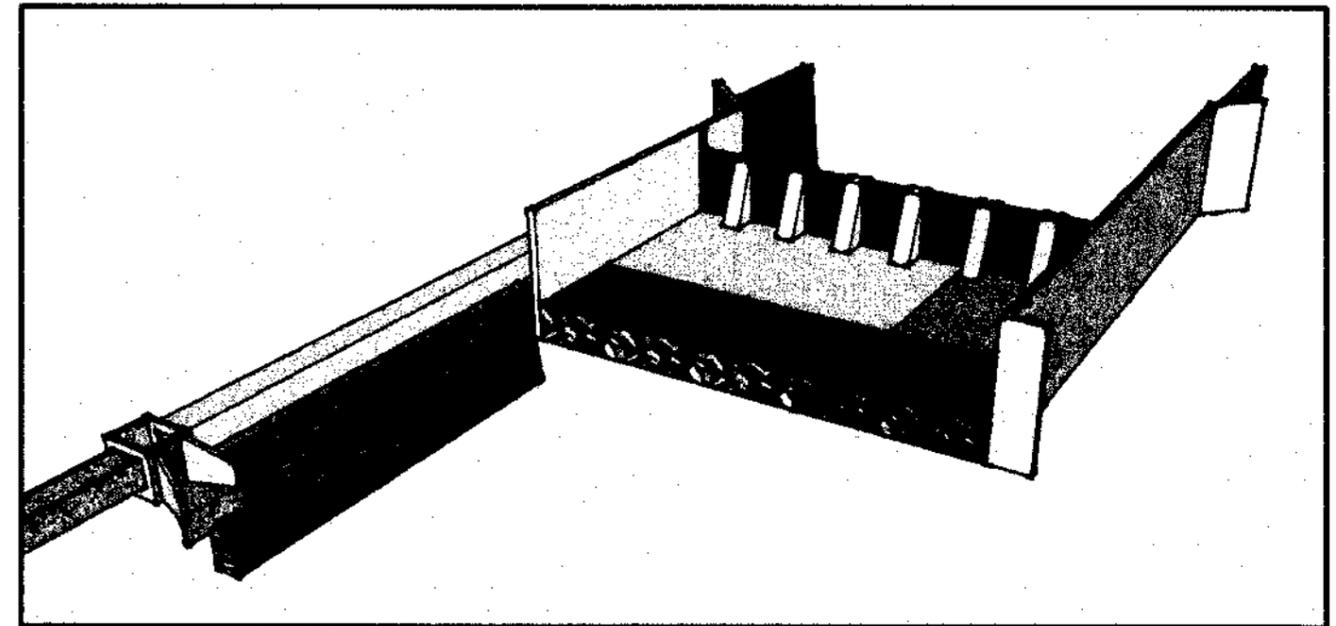

DOMINADOR A. MARQUEZ, MPA
OIC-RTD for Operations & Extension

Item No.	Scope of Works	Quantity	Unit
SPL1	Mobilization/Demobilization	1.00	lot
SPL2	Temporary Facility/Field Office	1.00	lot
SPL3	Project Marker & Signboard/Billboard (1-4'x8' and 1-8'x8')	1.00	lot
DAM			
SPL4	Coffer Damming	1.00	lot
712.0	Installation of Slide Gate	2.00	set
800	Clearing, Lay-out & Staking	200.00	sq.m.
801	Demolition of Wall Structure for dam widening	6.20	cu.m.
1703	Desilting	750.00	cu.m.
1701	Structure Excavation	92.00	cu.m.
1707	Gravel Bedding	10.58	cu.m.
404	Reinforcing Steel Bars	961.86	kgs.
414	Formworks	109.02	sq.m.
405	3000 psi Reinforced Concrete	26.47	cu.m.
1601	Structure Backfill	79.31	cu.m.
1713	Rubble Masonry (Grout mixture Class B)	12.26	cu.m.
1710	Grouted Riprap (Grout mixture Class B)	6.75	cu.m.
1711	Stone Masonry	11.39	cu.m.
1719(1)	Non-perforated PVC Pipe (Filter Drain)	28.00	l.m.
1719(2)	Perforated PVC Pipe (Filter Drain)	63.00	l.m.
1719(3)	Gravel(Reversed Filter Drain)	5.66	cu.m.
1719(4)	Sand(Reversed Filter Drain)	16.98	cu.m.
1	Wooden Flashboard (Yakal)	1.00	lot
CANAL WORKS (544 meters)			
800	Clearing, Lay-out & Staking	544.00	sq.m.
1701	Excavation	563.65	cu.m.
1707	Gravel Bedding	48.96	cu.m.
404	Reinforcing Steel Bars	7573.10	kgs.
414	Formworks	1126.22	sq.m.
405	2400 psi Reinforced Concrete	105.00	cu.m.
1601	Backfill	123.14	cu.m.



SITE DEVELOPMENT PLAN
SCALE: N.T.S.

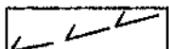
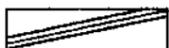
PROGRAM OF WORKS
SCALE: N.T.S.



DAM PERSPECTIVE VIEW

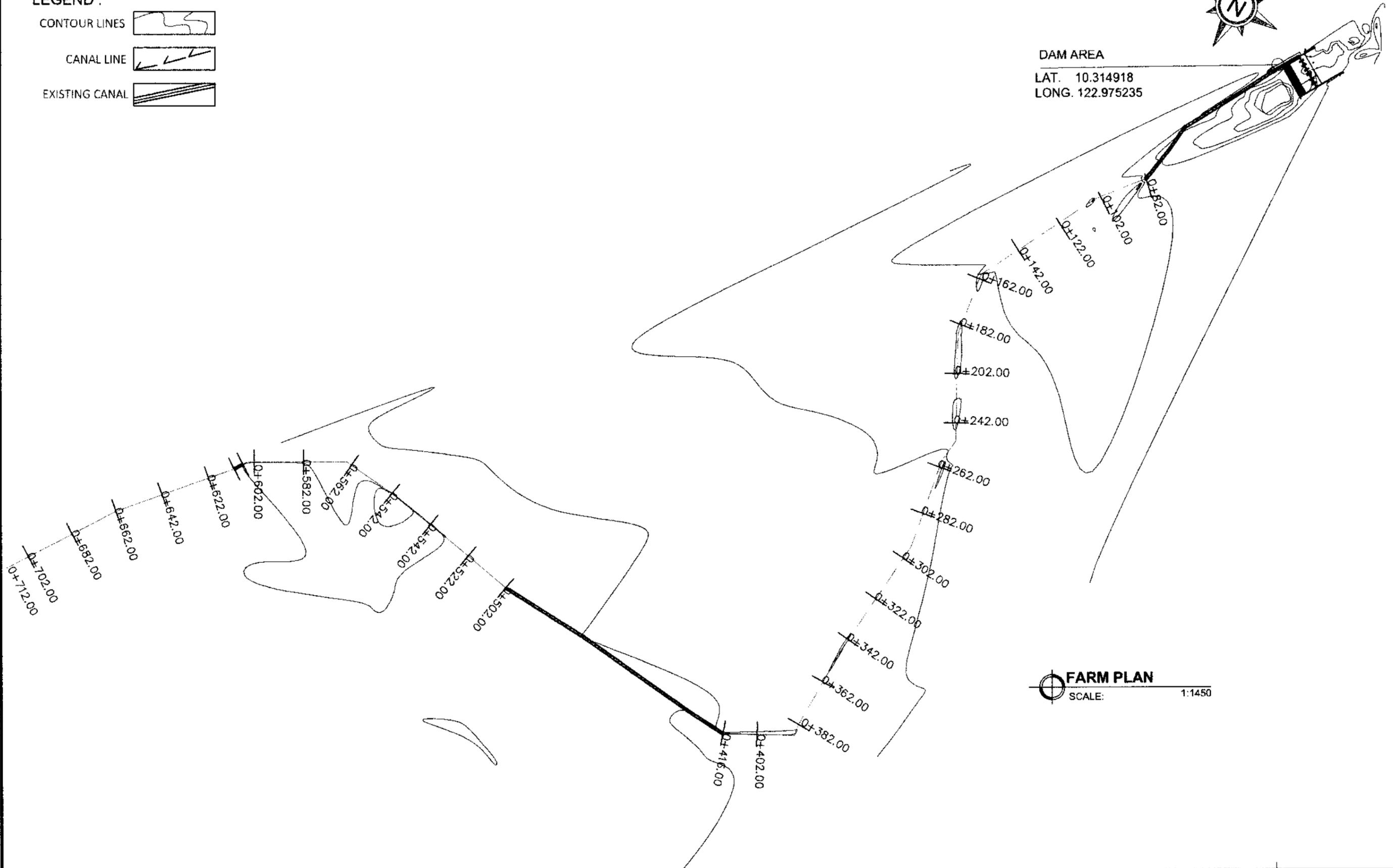
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT</p>	<p>SHEET CONTENTS: DAM PERSPECTIVE VIEW SITE DEVELOPMENT PLAN POW</p>	<p>PREPARED BY: <i>Shayne C. Millanueva</i> SHAYNE C. MILLANUEVA, ABE Engineer III (License No. 0028033)</p>	<p>REVIEWED BY: <i>Yvonne Grace M. Sur</i> YVONNE GRACE M. SUR, ABE Engineer III (License No. 005970) Head, Engineering Plans, Design, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: <i>Moises D. Manay</i> MOISES D. MANAY, ABE, MEE Engineer IV (License No. 0006077) Chief, EACD</p>	<p>APPROVED BY: <i>Dominador A. Marquez</i> DOMINADOR A. MARQUEZ, MPA OIC-RTD for Operations & Extension</p>	<p>SHEET NO.: PAGE NO.: 1 16</p>
	<p>BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL</p>	<p>CAD BY:</p>					

LEGEND :

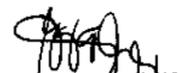
- CONTOUR LINES 
- CANAL LINE 
- EXISTING CANAL 

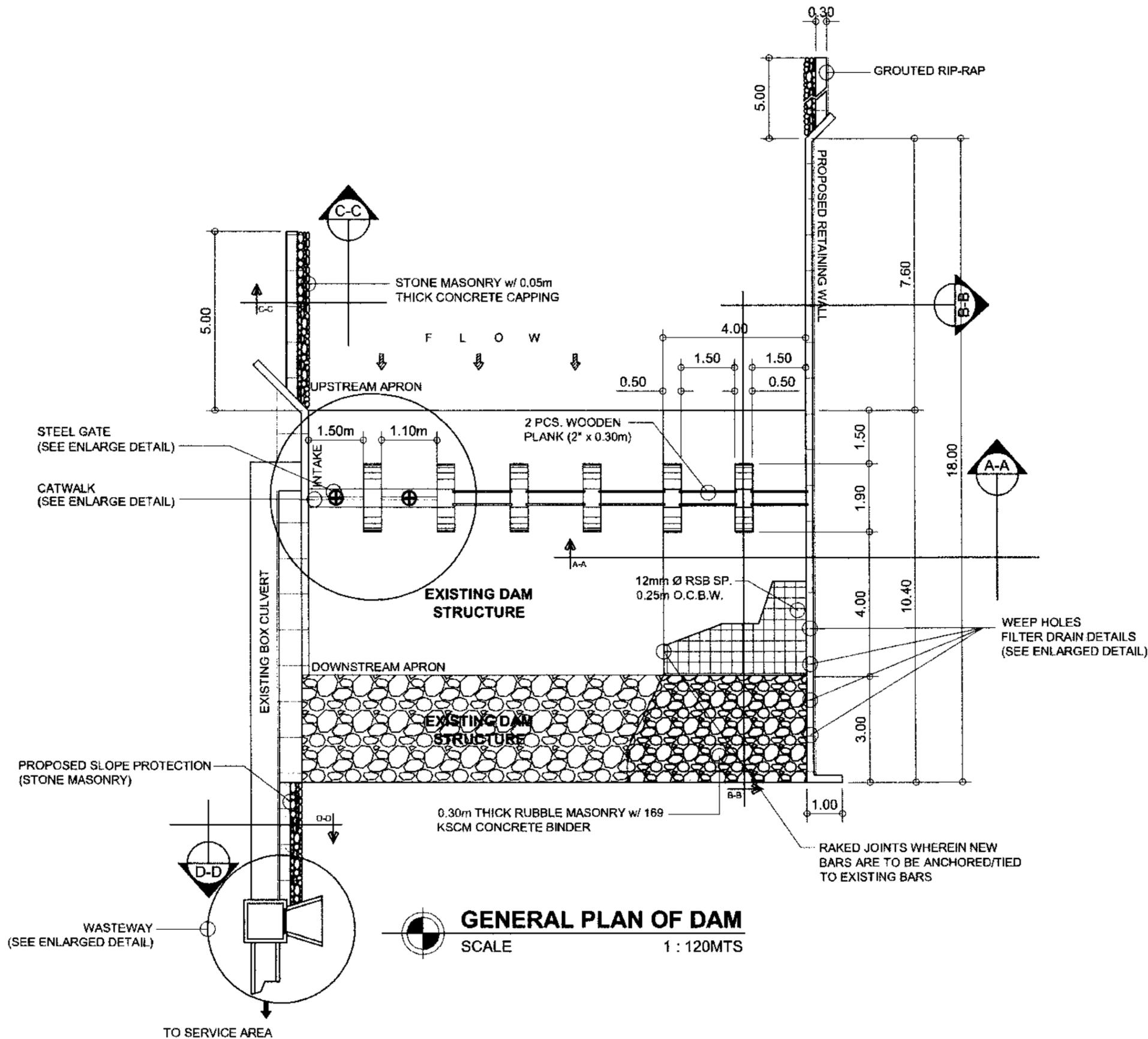


DAM AREA
 LAT. 10.314918
 LONG. 122.975235



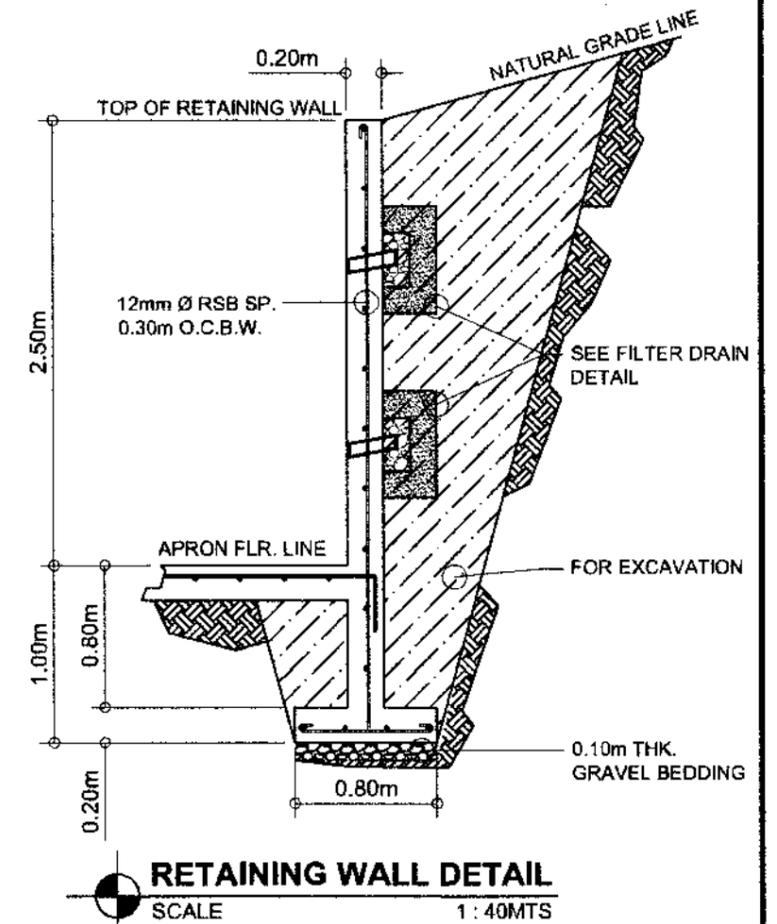
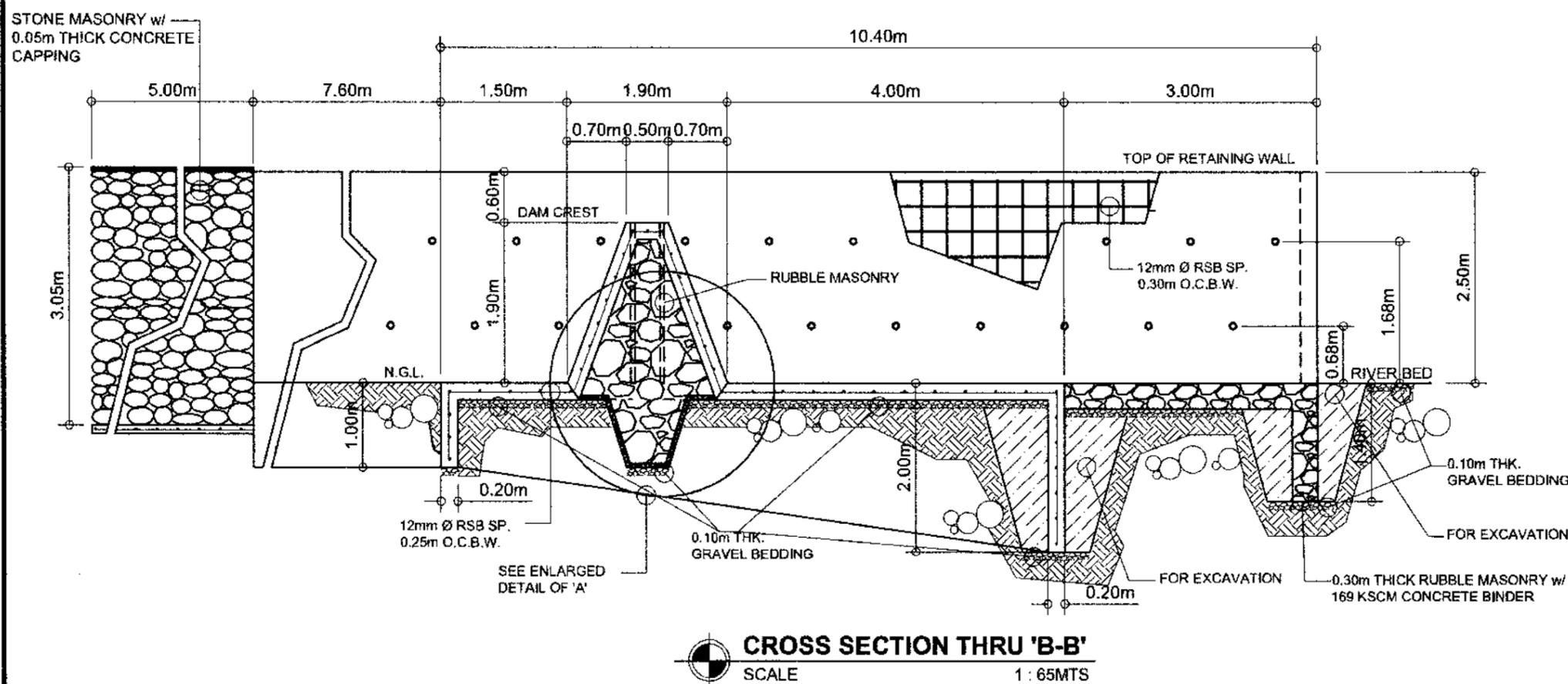
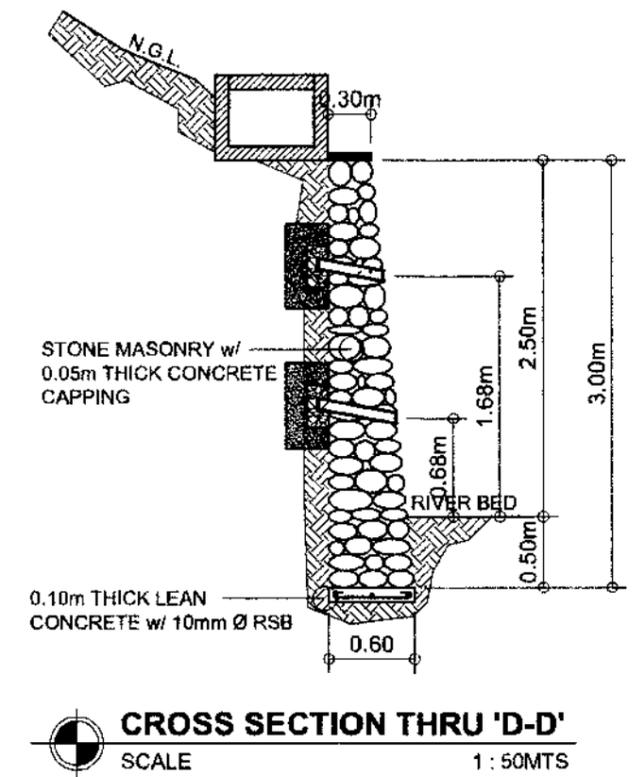
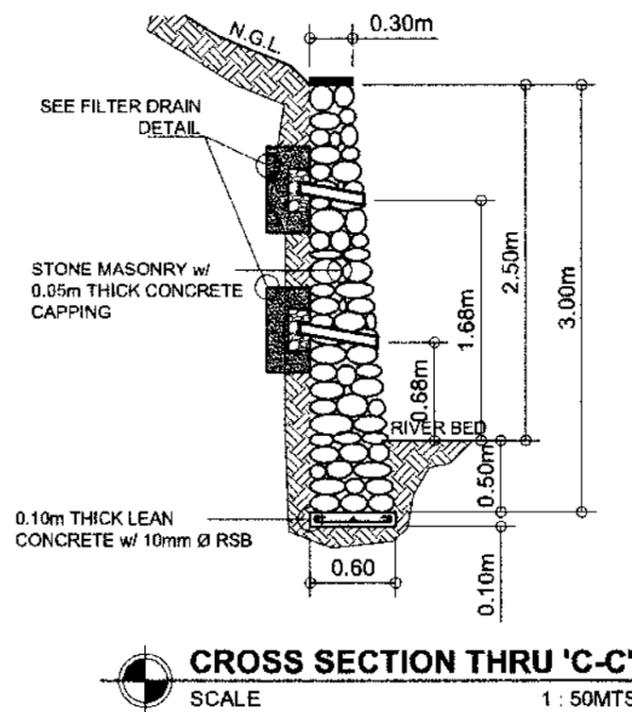
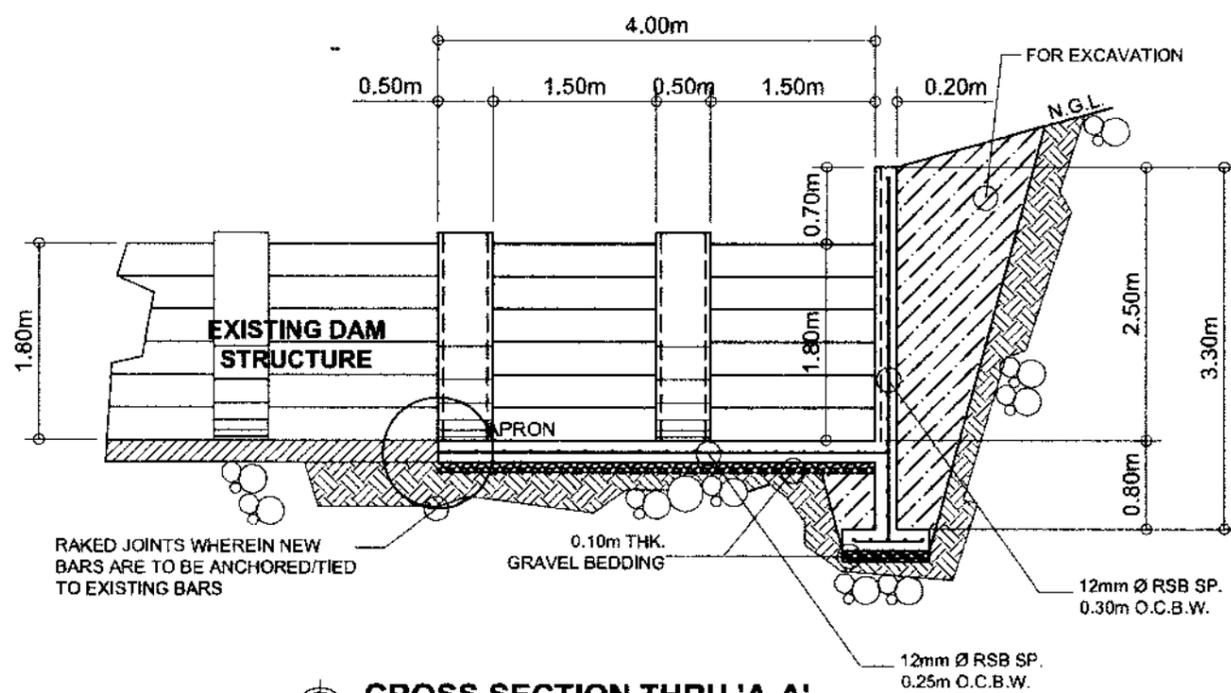
FARM PLAN
 SCALE: 1:1450

IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: FARM PLAN	PREPARED BY:  SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0008933)	REVIEWED BY:  YVONNE GRACE W. SUR, ABE Engineer II (License No. 0008970) Head, Engineering Plans, Designs, and Specifications Section	RECOMMENDING APPROVAL:  MOSES D. MANAY, ABE, MEE Engineer IV (License No. 0009077) DIC-Chief RAC	APPROVED BY:  DOMINADOR A. MARQUEZ, MPA DIC-NTO for Operations & Extension	SHEET NO.:  PAGE NO.: 2 16
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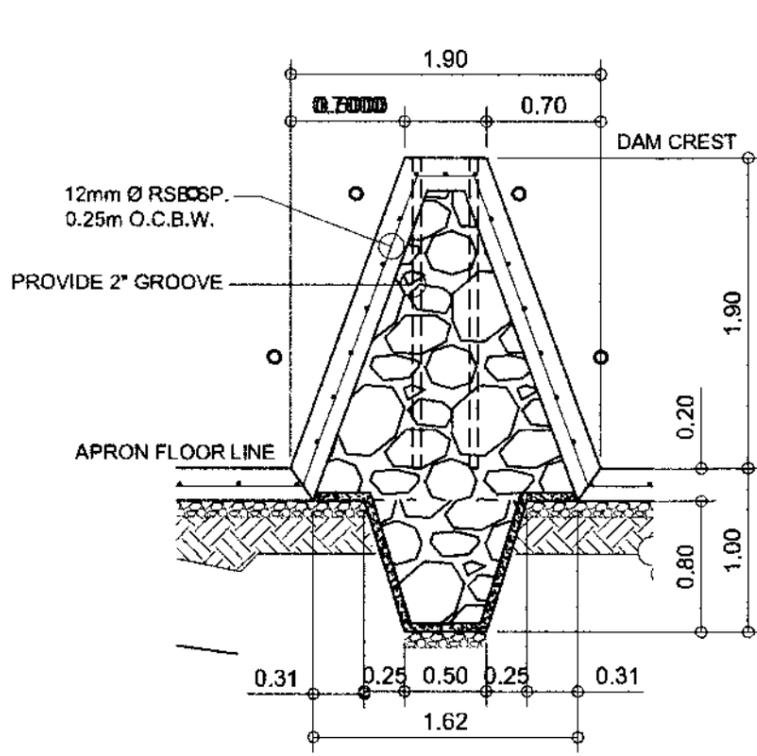


GENERAL PLAN OF DAM
SCALE 1 : 120MTS

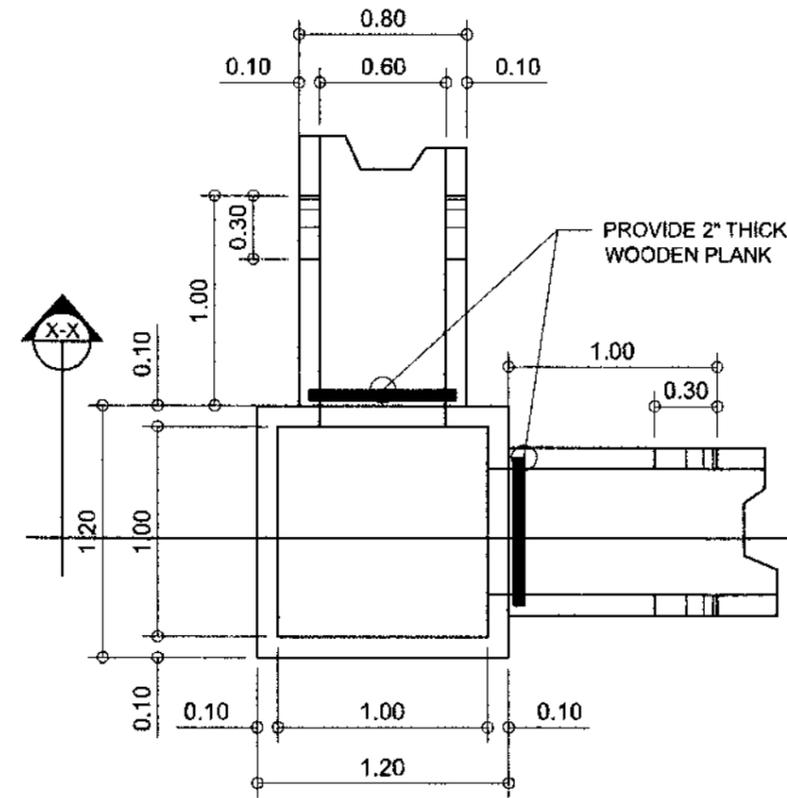
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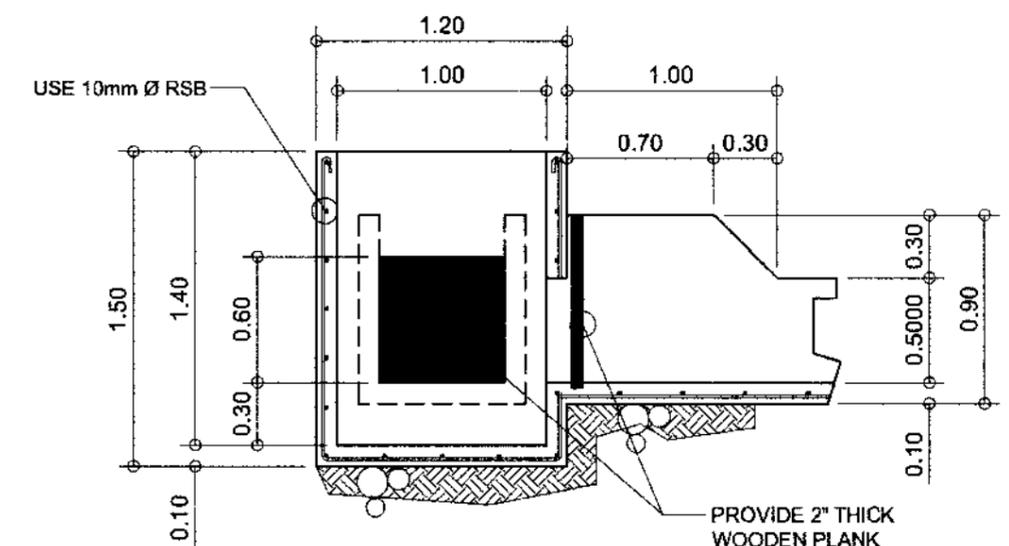
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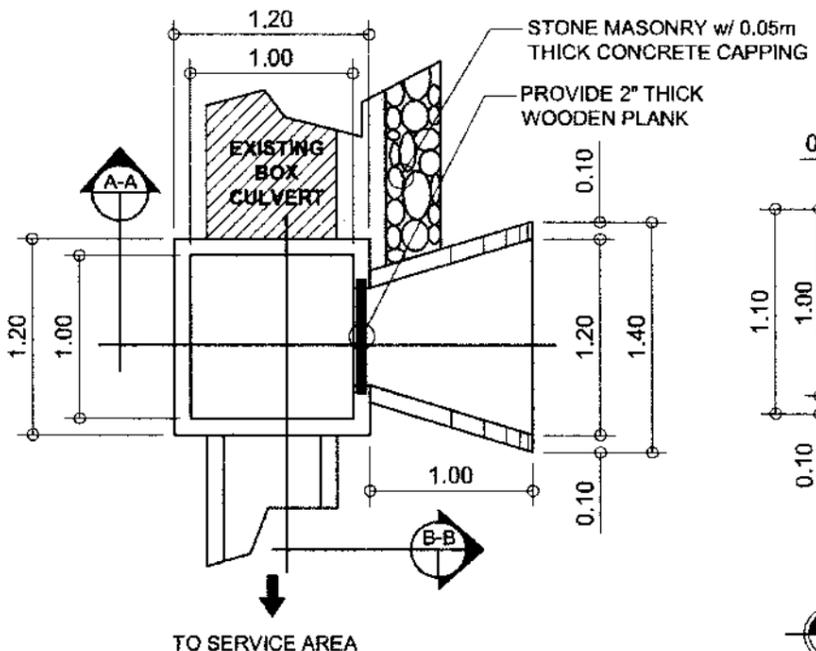
ENLARGED DETAIL OF 'A'
SCALE 1 : 45MTS



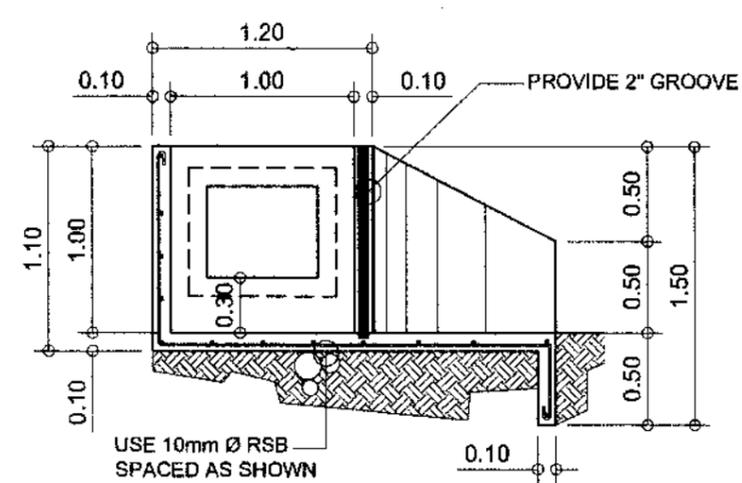
DIVISION BOX TOP VIEW
SCALE 1 : 35MTS



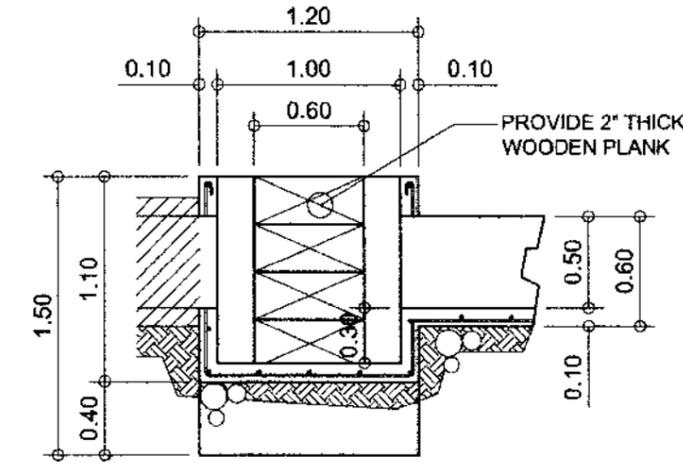
CROSS SECTION THRU 'X-X'
SCALE 1 : 35MTS



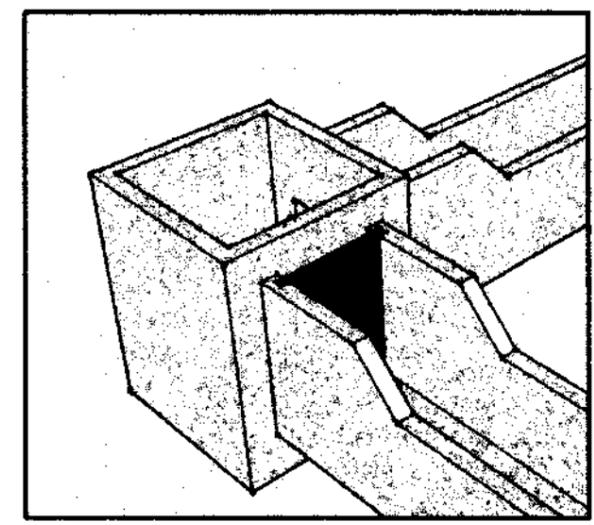
WASTEWAY TOP VIEW
SCALE 1 : 45MTS



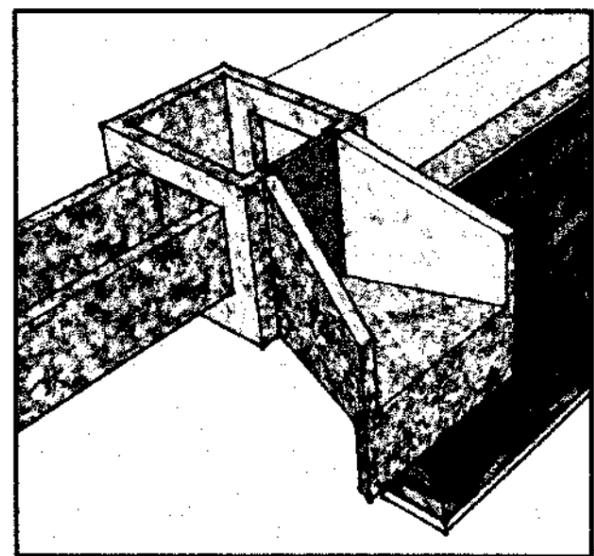
CROSS SECTION THRU 'A-A'
SCALE 1 : 40MTS



CROSS SECTION THRU 'B-B'
SCALE 1 : 40MTS



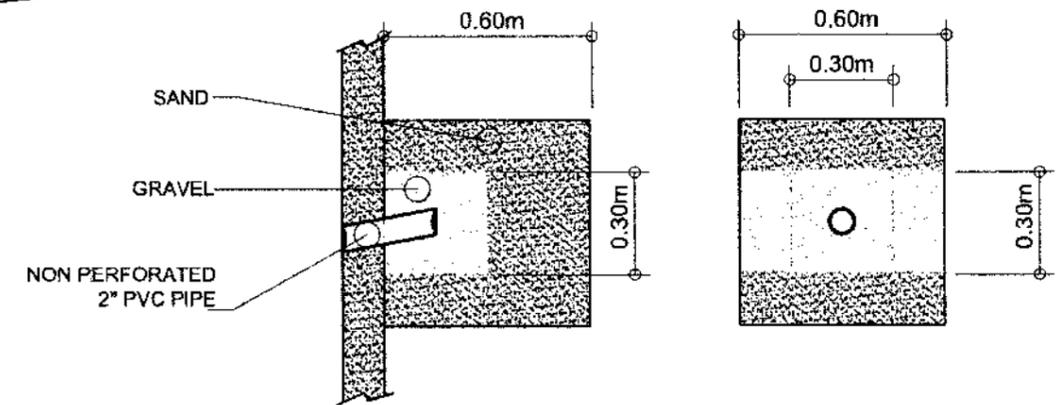
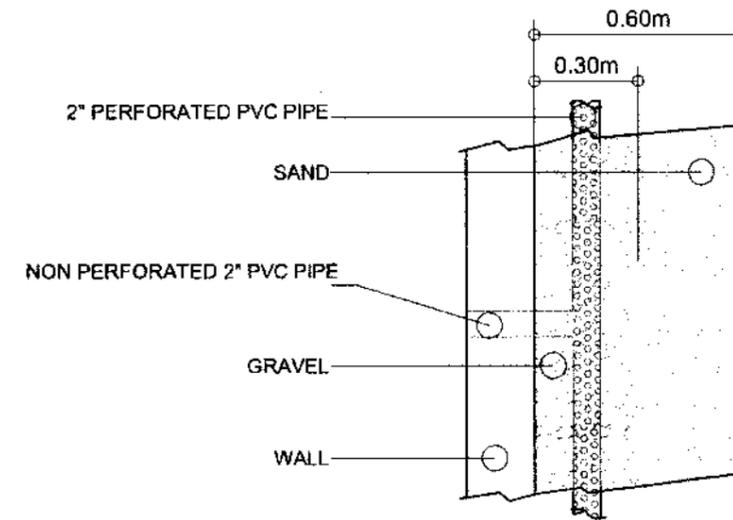
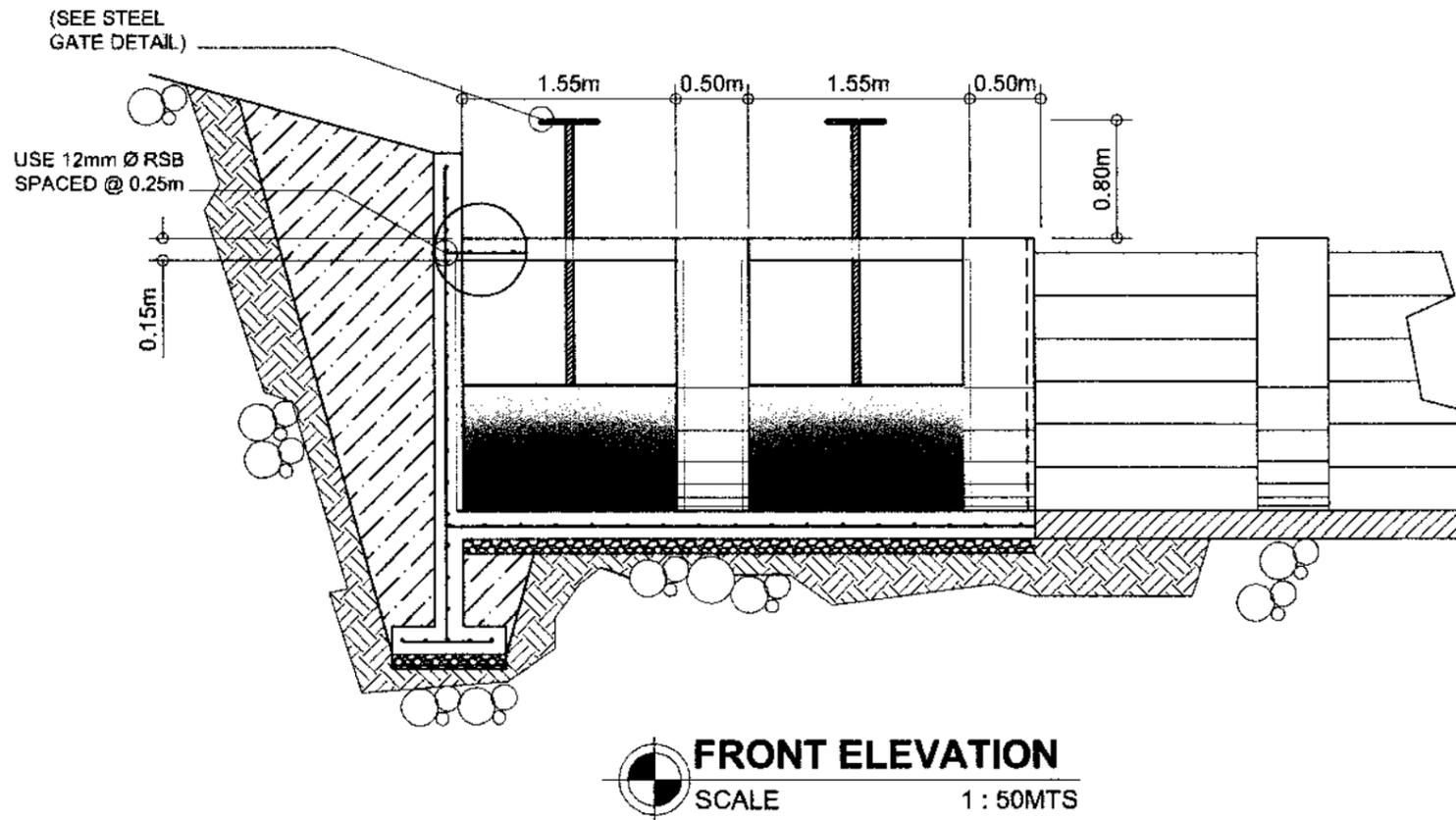
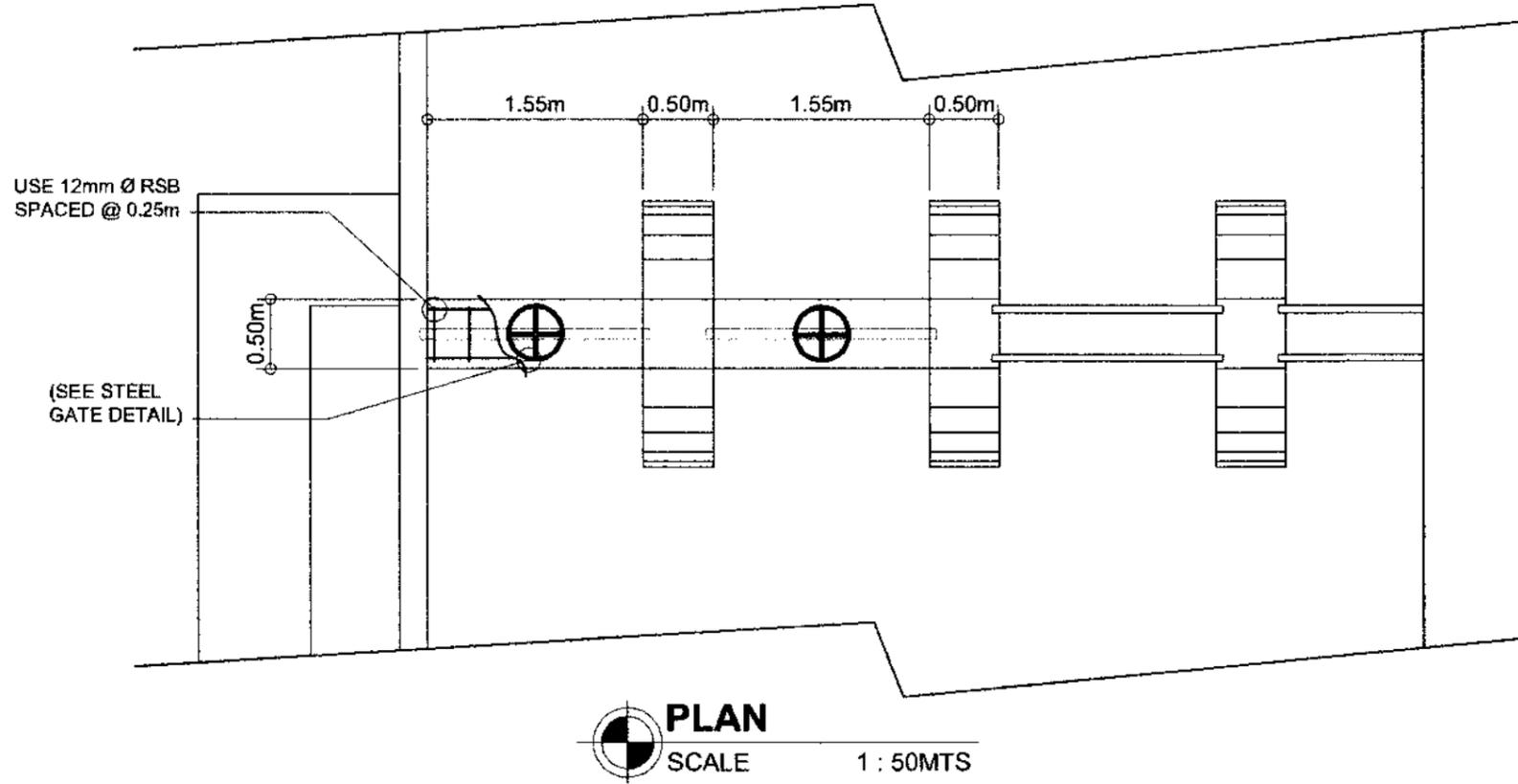
DIVISION BOX PERSPECTIVE VIEW



WASTEWAY PERSPECTIVE VIEW

	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: DIVISION BOX TOP VIEW CROSS SECTION THRU 'X-X' WASTEWAY TOP VIEW CROSS SECTION THRU 'A-A' CROSS SECTION THRU 'B-B' PERSPECTIVE VIEW	PREPARED BY: SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0008933)</small>	REVIEWED BY: YVONNE GRACE H. SUR, ABE <small>Engineer II (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</small>	RECOMMENDING APPROVAL: MOISES Q. MANAY, ABE, MEE <small>Engineer IV (License No. 0006077) DIC-Construction</small>	APPROVED BY: DOMINADOR A. MARQUEZ, MPA <small>DIC-4 (LIC) Operations & Extension</small>	SHEET NO.: PAGE NO.: 16
	IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY						

CATWALK DETAIL



GRAVEL FILTER DRAIN
SCALE 1 : 170MTS

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SCHEDULE OF DIMENSIONS

QUANTITY	DIMENSIONS (INCHES)												
	SIZE OF OPENING		SIZE OF GATE SLIDE		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				X	Y				
INLET SLUICE WAY					5/16	1 1/8	1/4 X 3 X 3	1/4 X 3 X 3	1/4 X 4 X 4	1/4 X 4 X 4	1/4 X 2 X 2	1/4 X 2 X 1/2	3/8 X 2
					5/16	1 1/8	1/4 X 3 X 3	1/4 X 3 X 3	1/4 X 4 X 4	1/4 X 4 X 4	1/4 X 2 X 2	1/4 X 2 X 1/2	3/8 X 2

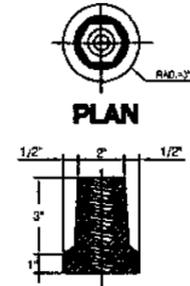
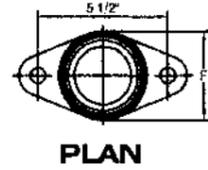
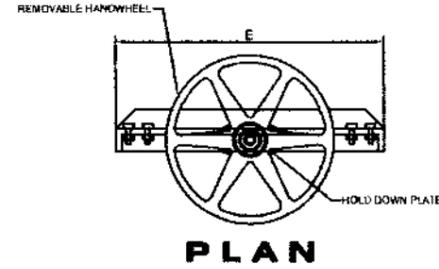
A	B	C	D	E	F	G	HEIGHT OF FRAME H	THREAD LENGTH L	DISTANCE OF STIFFENER X	DISTANCE OF STIFFENER Y	STEM BOLT DIAMETER	FRAME BOLT DIAMETER	ANCHOR BOLT DIAMETER	AFRICO TYPE OF LIFT
17	2 @ 17	14		3 3/4	2 3/4				17		3/8	1/2	5/8	HPB-24
17	2 @ 17	14		3 3/4	2 3/4		VARIBLE		17		3/8	1/2	5/8	HPB-24

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 new, good quality and shall conform to the following features:

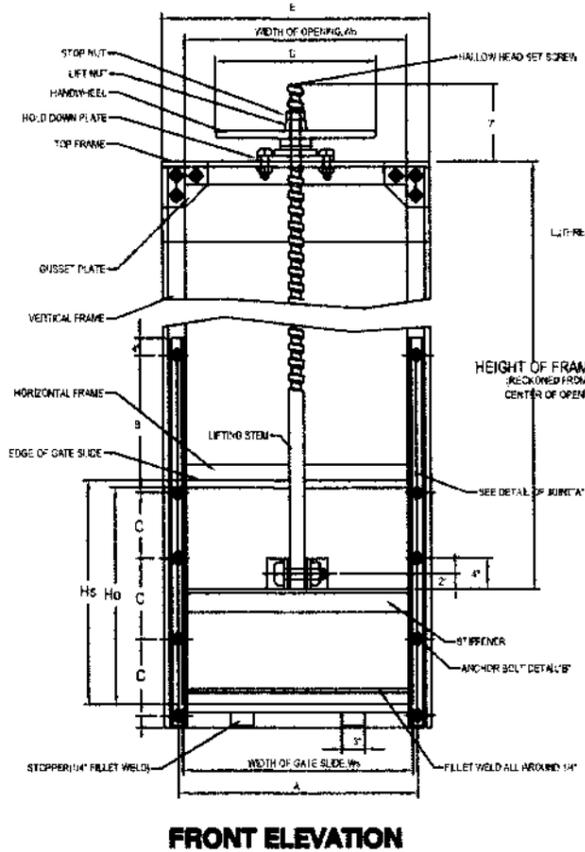
- Gate Slide, Filter Bars, Cover Plates, Gusset Plates and Stopper-Steel Plates Astma 285
- Angle Bars-Structural Steel Astma A36
- Lifting Bars-Cold Rolled Steel Astma A108-52T Grade 1045.
- Lift Nuts and Stop Nuts-Bronze Astma B22 Grade D
- Handwheel and Hold Down Plates-Cast Iron Astma A48 Class 30
- Fitting-Up Bolts and Nuts-Astma 233
- Ball Thrust Bearing-SKF No. 016 or Equivalent
- Coatings:
 - All Steel Parts-Hot Dipped Galvanized
 - All cast iron parts-Coaltar Epoxy
- All frictional Surfaces of the Gate Assembly shall be Machined accurately to minimize friction.

NOTES:
LIFT NUT THREADED HOLE DIAMETER VARIES WITH THE STEM THREAD DIAMETER.

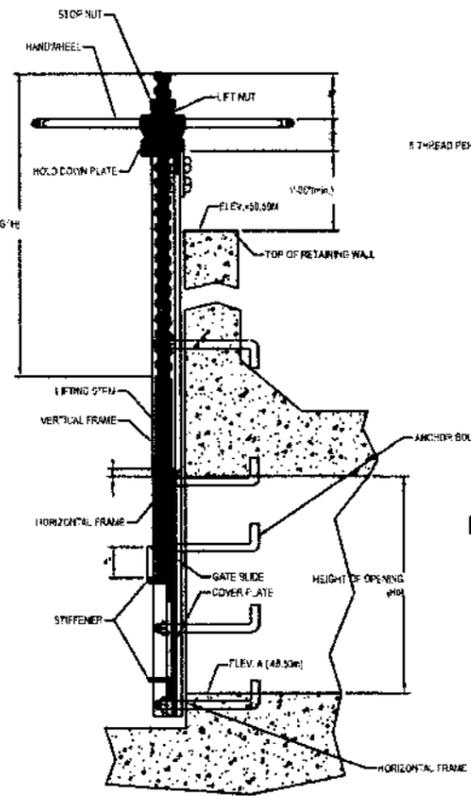


SECTION OF HOLD DOWN PLATE

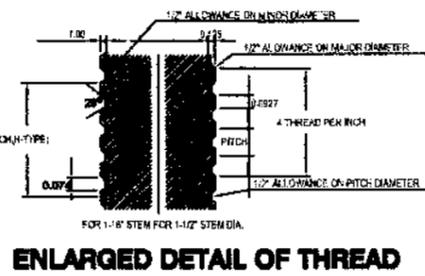
H-TYPE LIFT SECTION OF LIFT NUT



FRONT ELEVATION

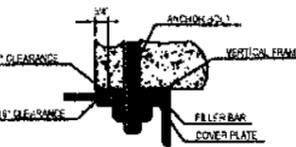
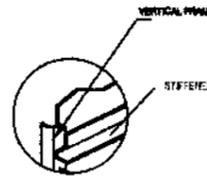


SECTION THRU-'AA'

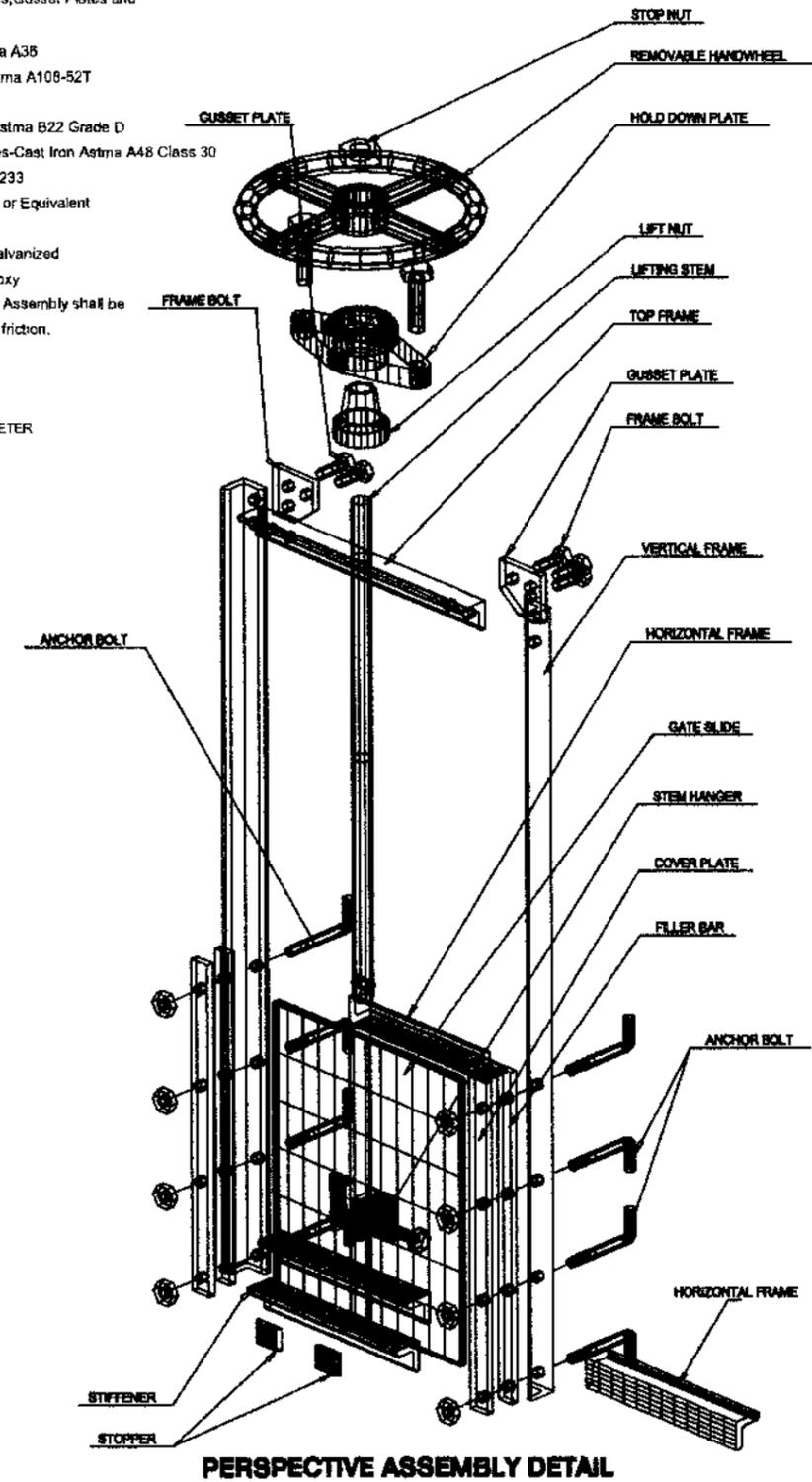


ENLARGED DETAIL OF THREAD

DETAIL OF JOINT-'A' (REAR VIEW)



SECTION THRU-'BB'

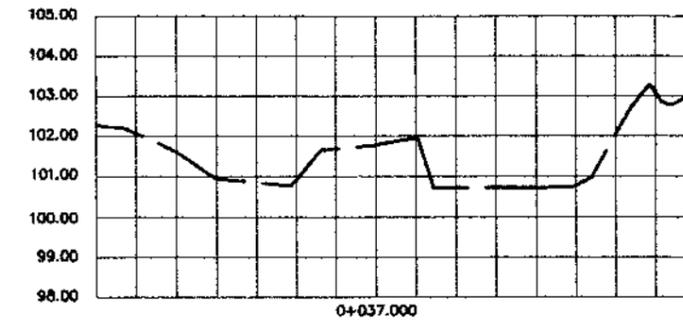
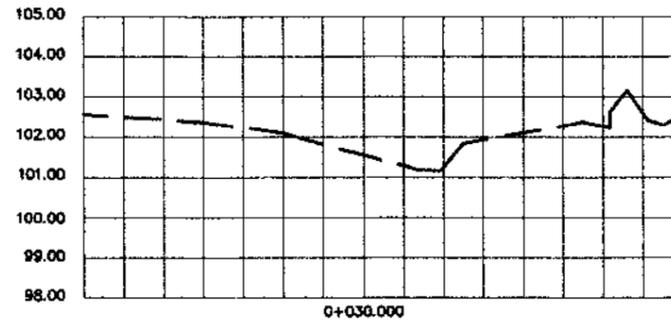
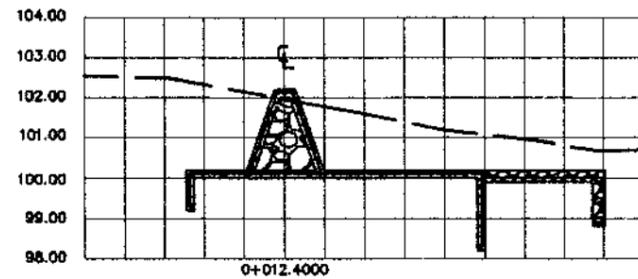
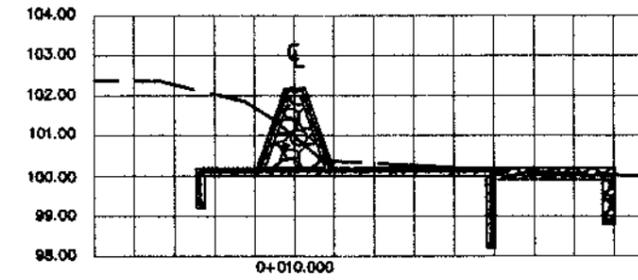
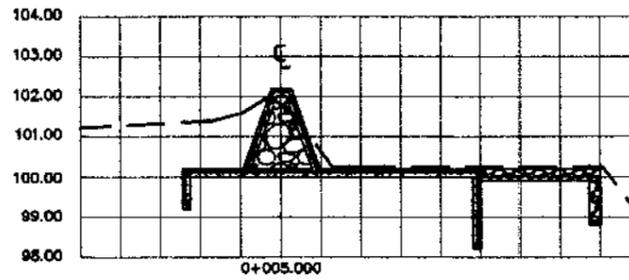
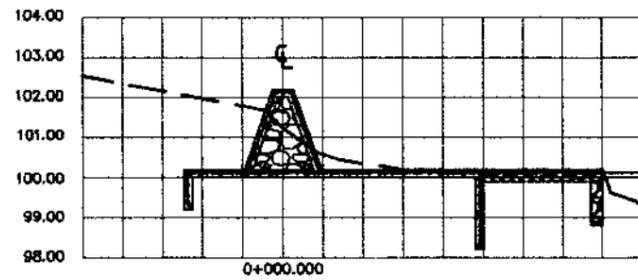
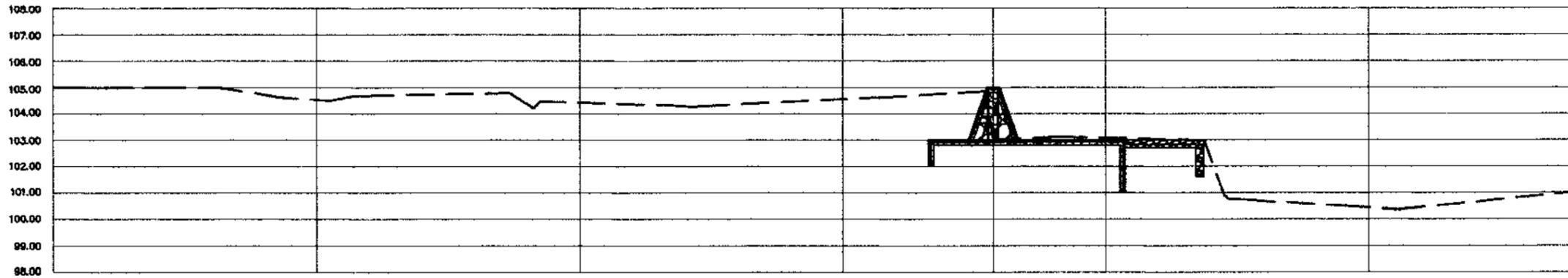


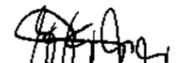
PERSPECTIVE ASSEMBLY DETAIL

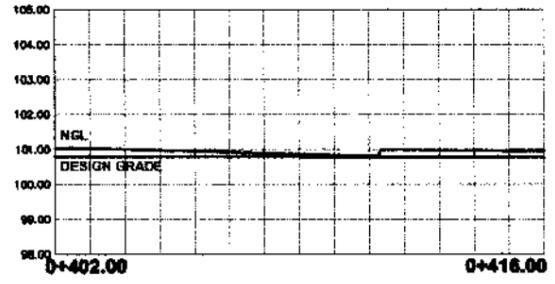
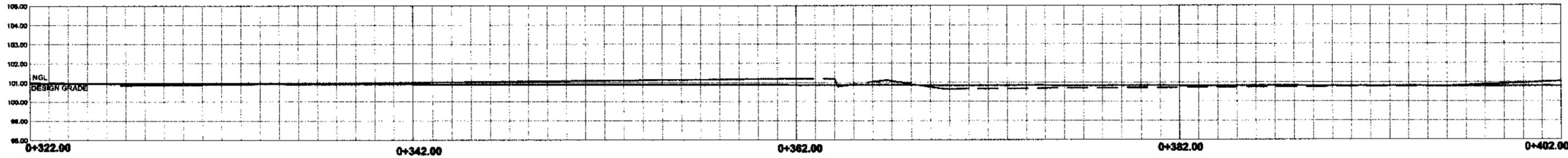
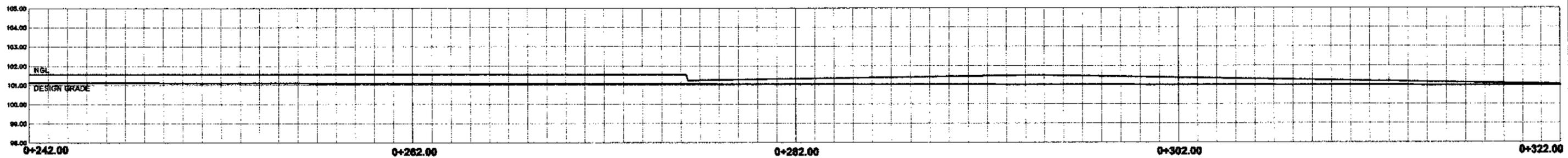
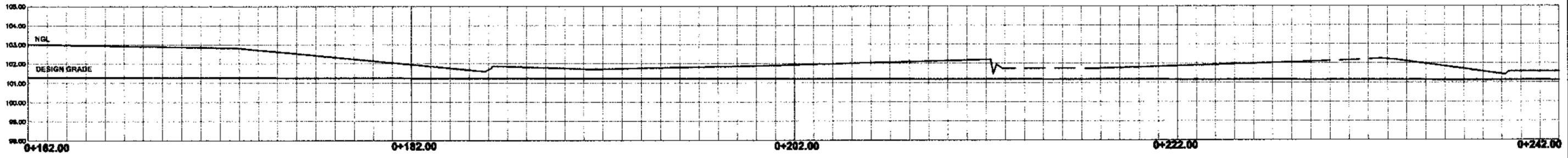
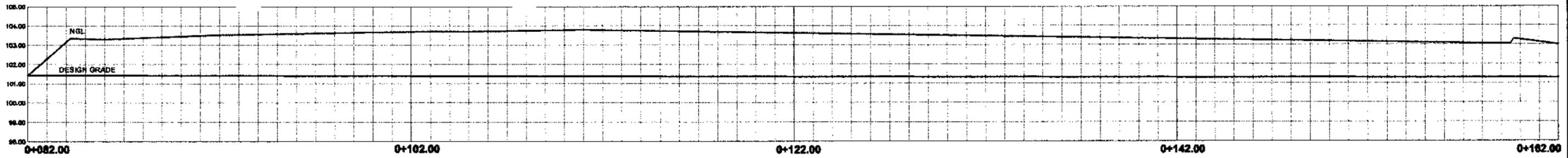
STEEL GATE DETAIL
SCALE NTS

DAM PROFILE

SCALE 1 : 200MTS

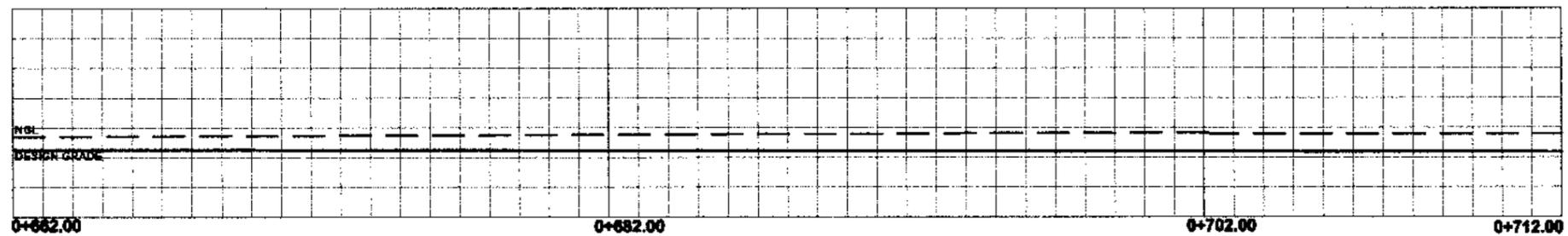
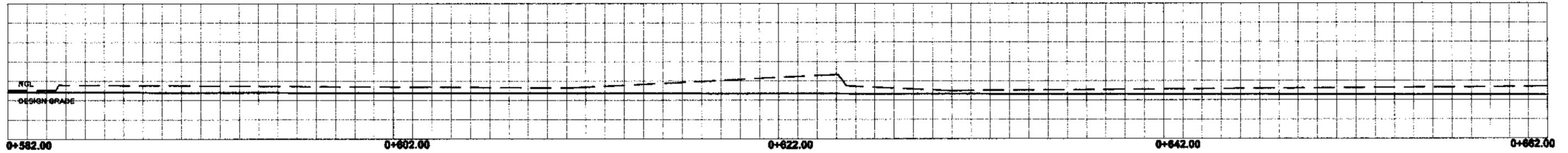
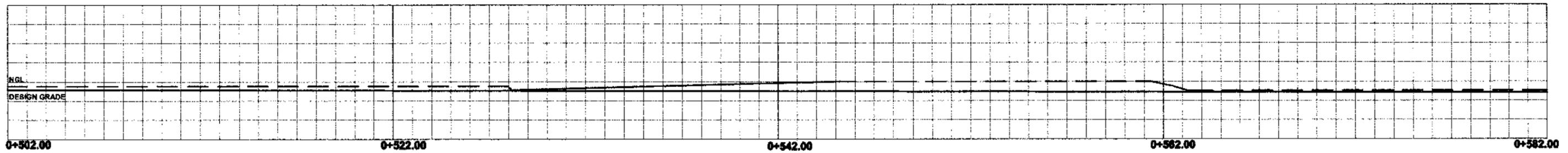


<p>IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL</p>	<p>SHEET CONTENTS: DAM PROFILE</p>	<p>PREPARED BY:  SHAYNE C. VILLANUEVA, ABE Engineer (License No. 0008913)</p>	<p>REVIEWED BY:  YVONNE GRACE A. SUR, ABE Engineer III (License No. 0005970), Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL:  MOISES D. MANAY, ABE, MEE Engineer (License No. 0006017), OIC-Chief, RAB</p>	<p>APPROVED BY:  DOMINADOR A. MARQUEZ, MPA OIC, P&E for Operations & Extension</p>	<p>SHEET NO.:  PAGE NO.:  16</p>
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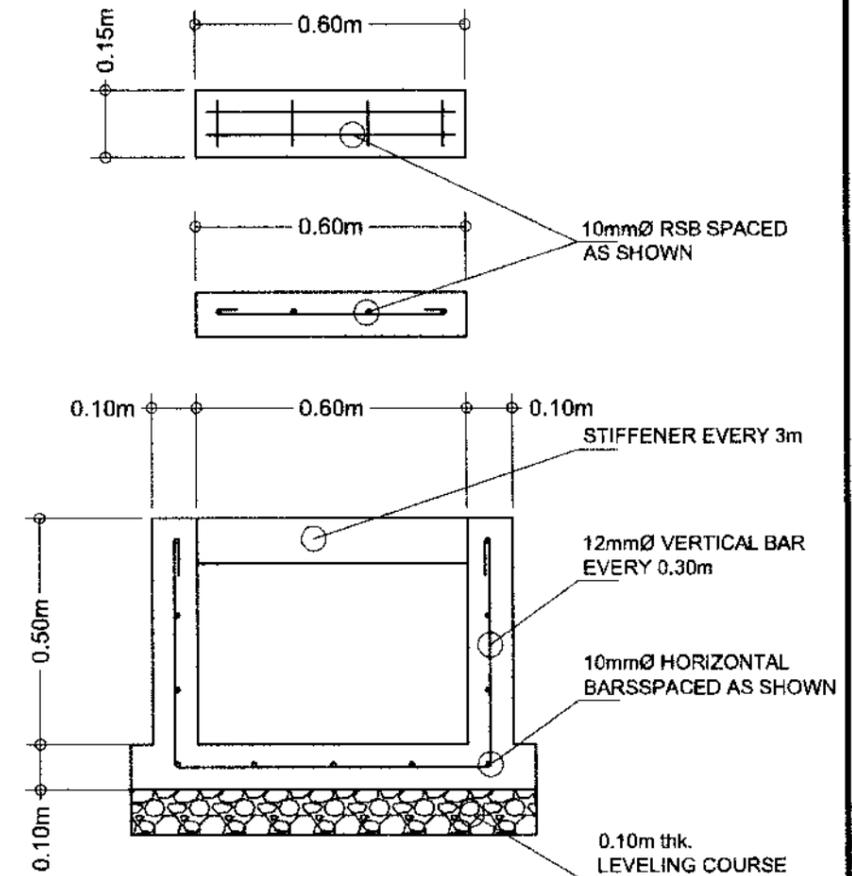


CANAL PROFILE
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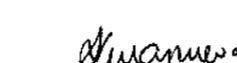
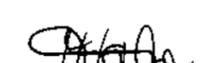
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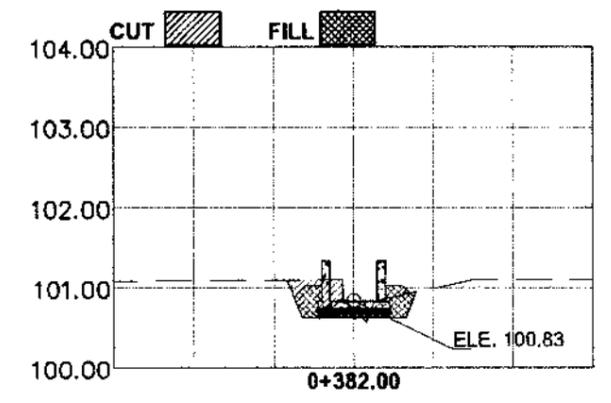
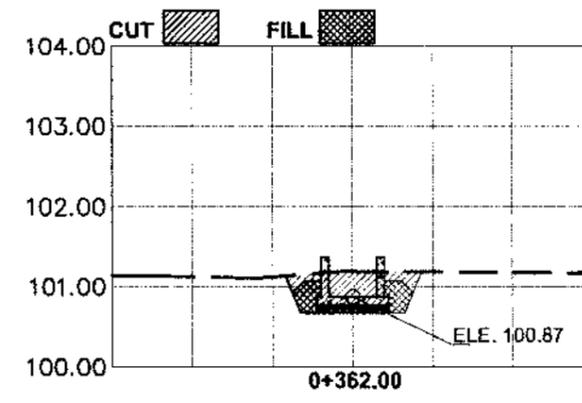
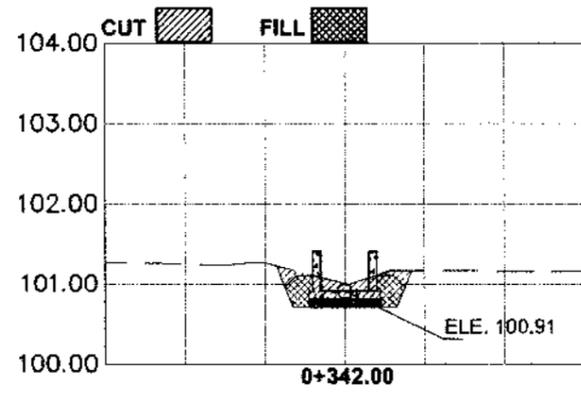
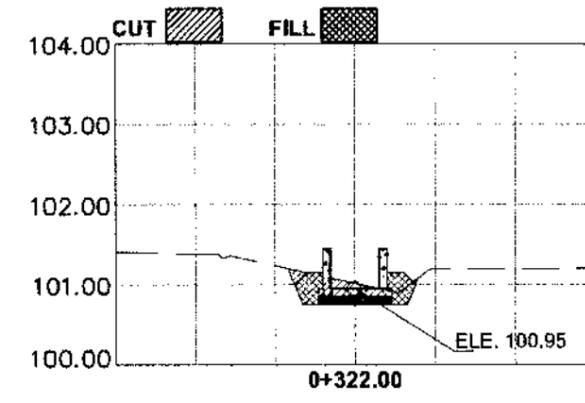
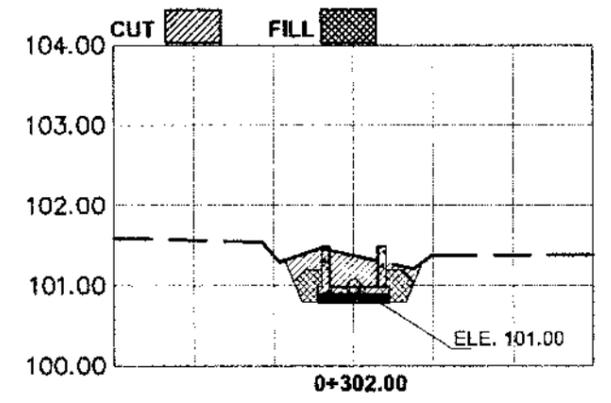
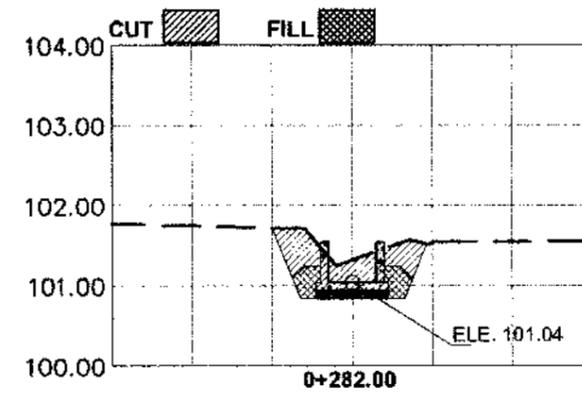
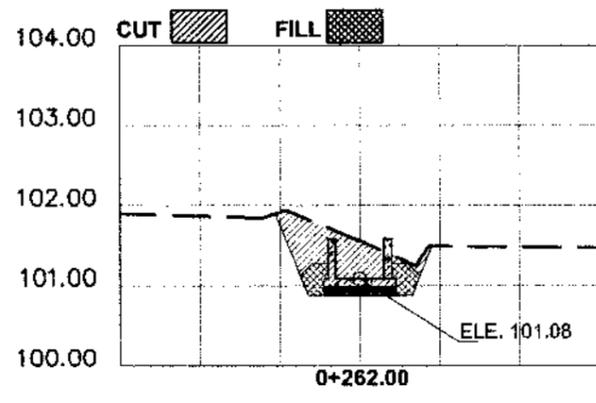
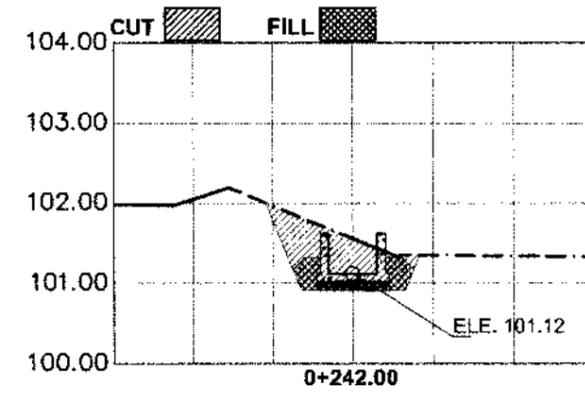
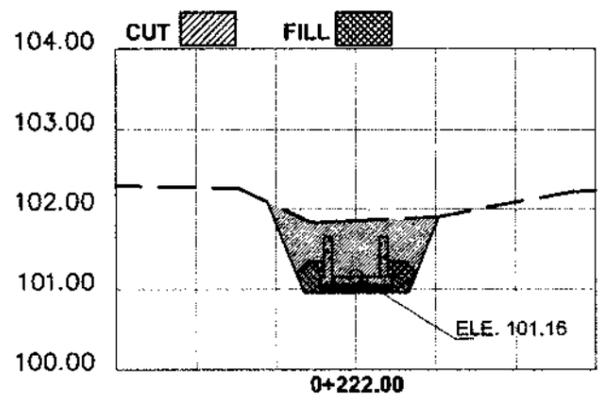
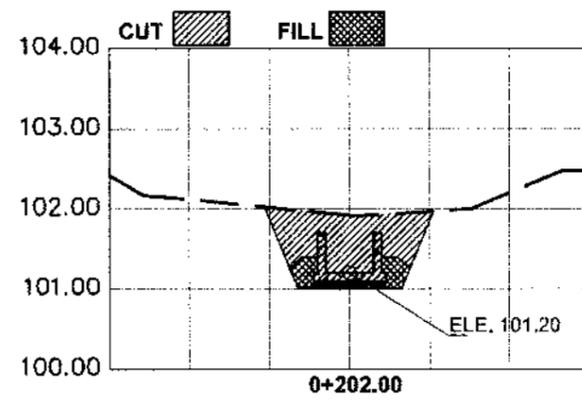
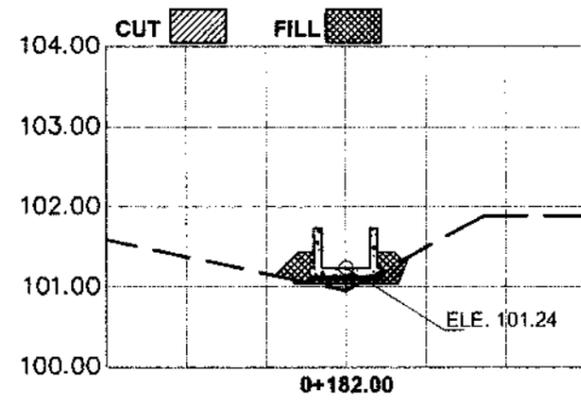
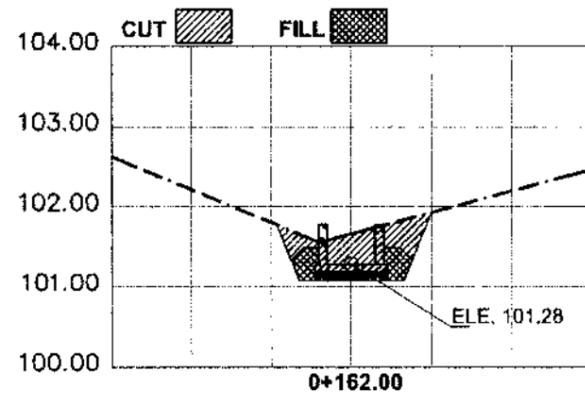
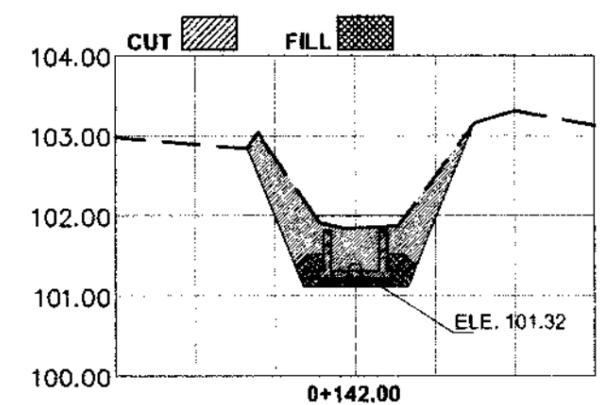
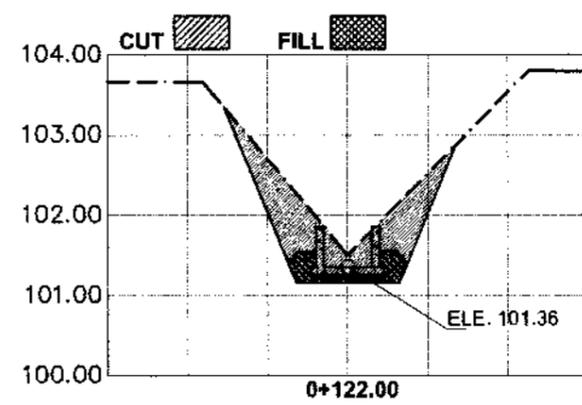
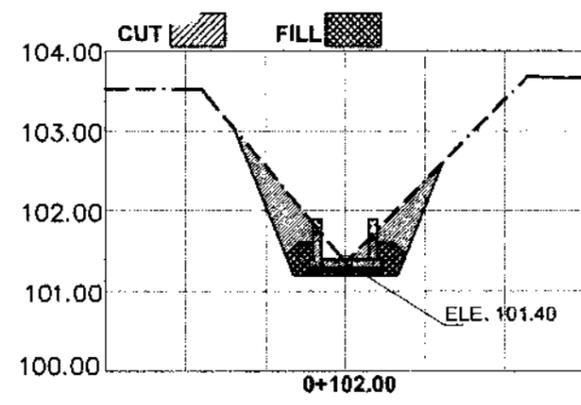
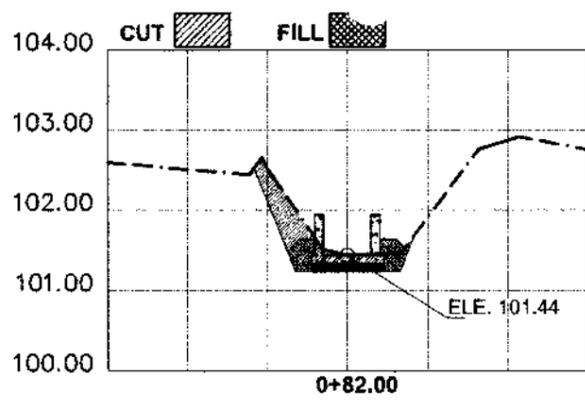


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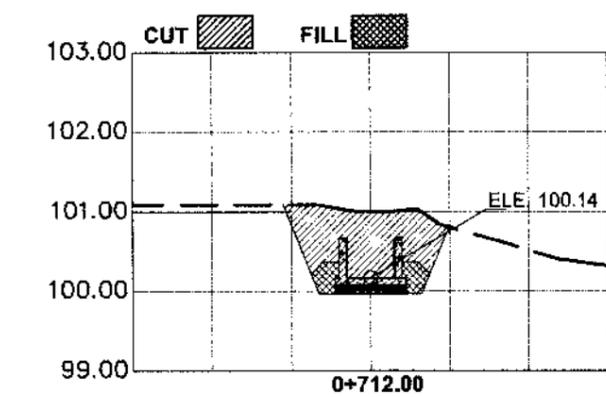
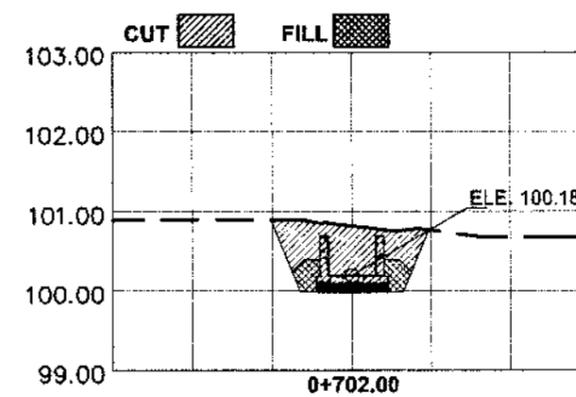
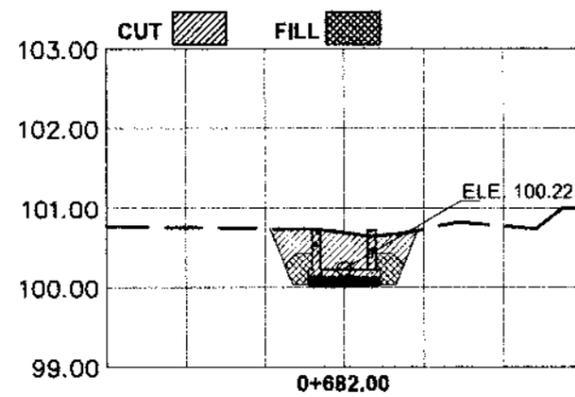
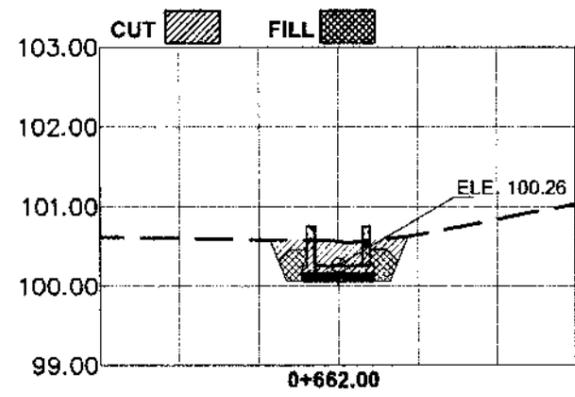
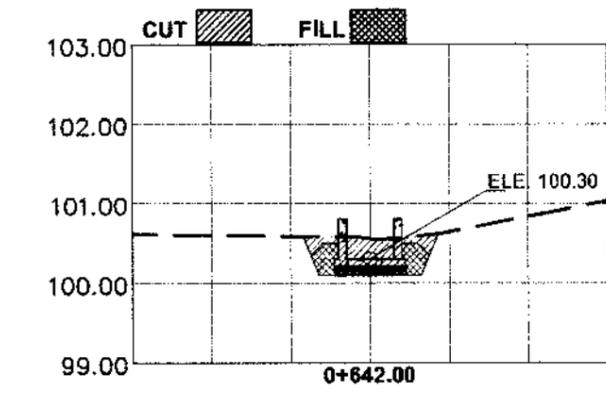
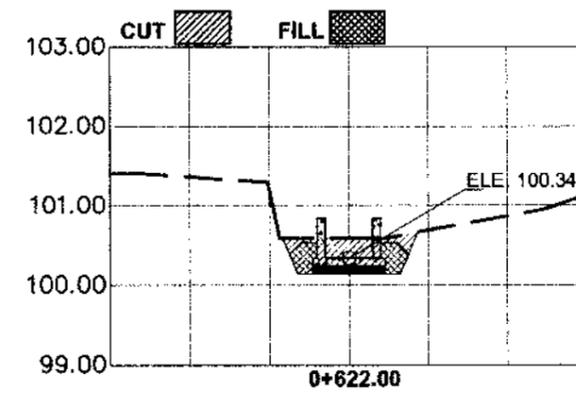
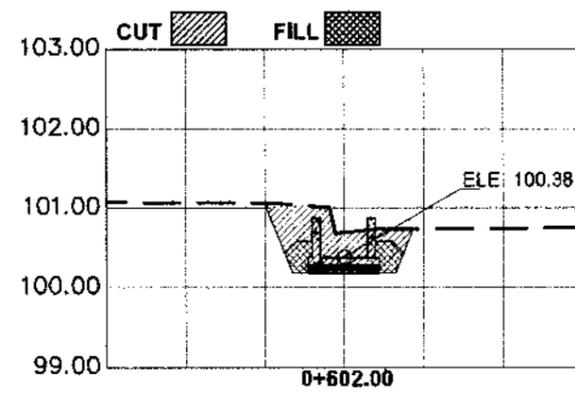
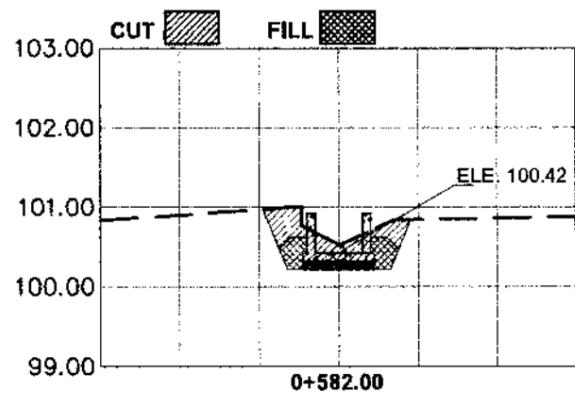
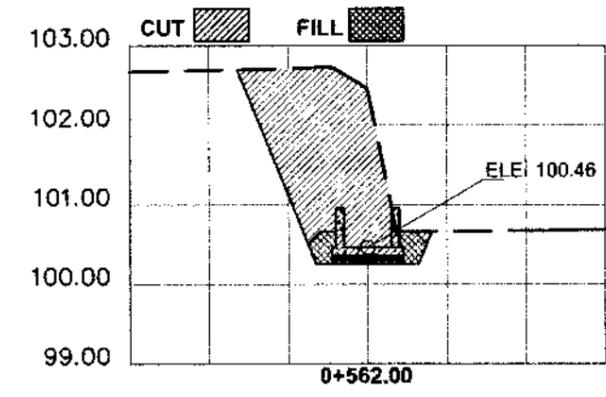
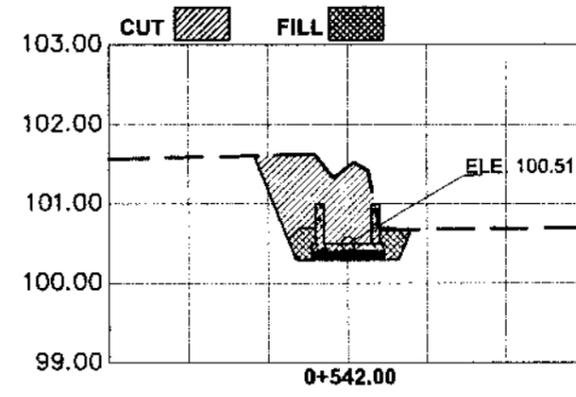
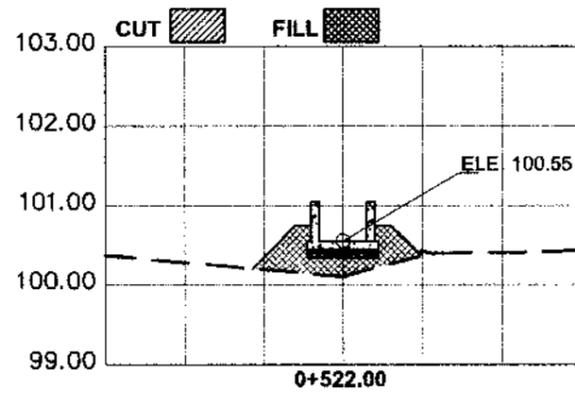
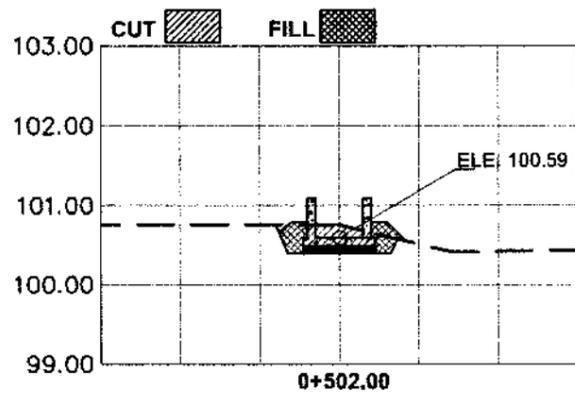
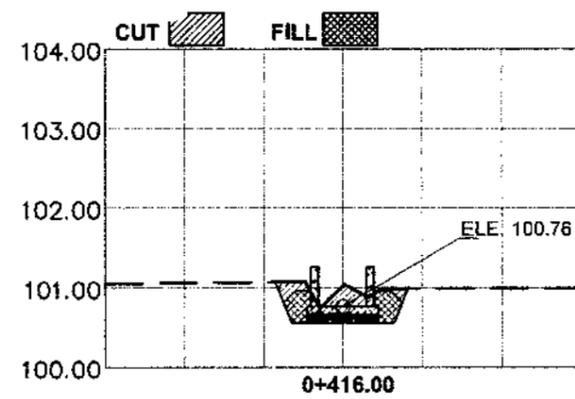
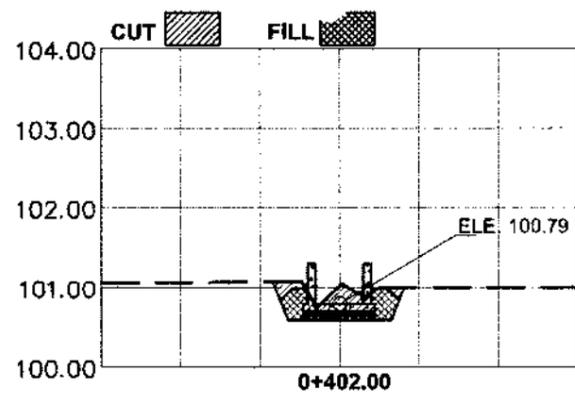
CANAL DETAILS
SCALE NTS

IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: CANAL PROFILE CONCRETE CANAL DETAIL	PREPARED BY:  SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0308933)	REVIEWED BY:  YVONNE GRACE H. SUR, ABE Engineer II (License No. 9006970) Head, Engineering Plans, Designs, and Specifications Section	RECOMMENDING APPROVAL:  MOSES D. MANALAYA, ABE, MEE Engineer IV (License No. 0006377) OIC-Chief, R&ED	APPROVED BY:  DOMINADOR A. MARQUEZ, MPA OIC-RTD for Operations & Extension	SHEET NO.:  PAGE NO.:  10  16
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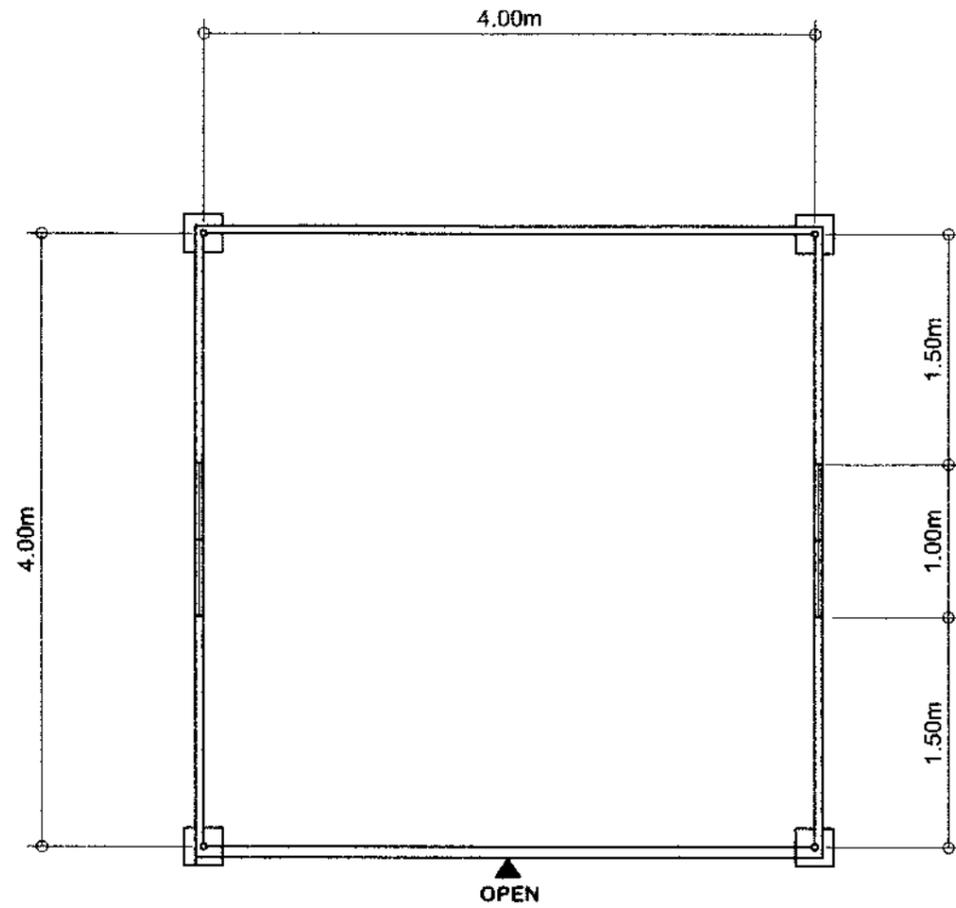
CANAL CROSS SECTIONS
SCALE 1:90MTS

	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: CANAL CROSS SECTIONS	PREPARED BY: SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0008933)</small>	REVIEWED BY: YVONNE GRACE H. SUR, ABE <small>Engineer II (License No. 0005932) Head, Engineering Plans, Design, and Specifications Section</small>	RECOMMENDING APPROVAL: MOISES D. MANA-AY, ABE, MEE <small>Engineer III (License No. 2006077) D/C-Engt, RAED</small>	APPROVED BY: DOMINADOR A. MARQUEZ, MPA <small>D/C-RTD for Operations & Extension</small>	SHEET NO.: PAGE NO.:
	IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY						

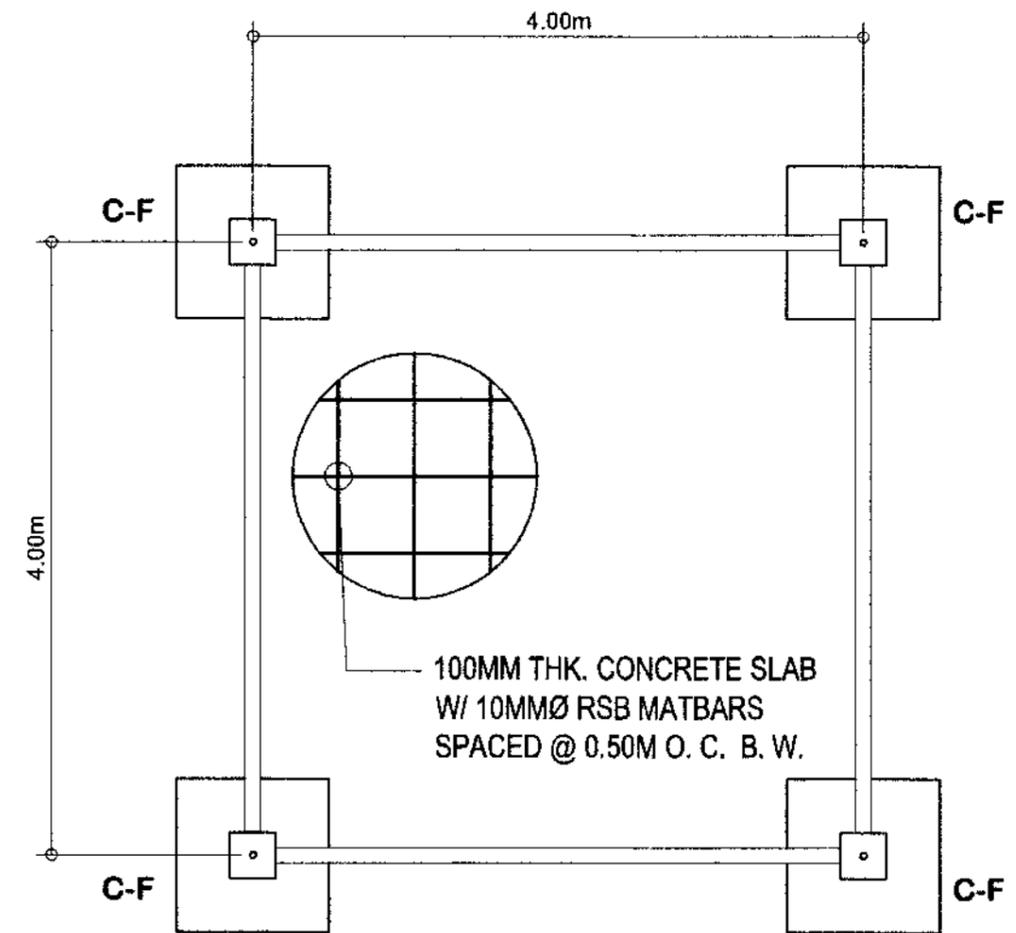


CANAL CROSS SECTIONS
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IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: CANAL CROSS SECTIONS	PREPARED BY: SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0038333)</small>	REVIEWED BY: YVONNE GRACE H. SUR, ABE <small>Engineer III (License No. 0005970)</small> <small>Head, Engineering Plans, Designs, and Specifications Section</small>	RECOMMENDING APPROVAL: MOISES D. MANALANG, ABE, MEE <small>Engineer IV (License No. 0006077)</small> <small>OIC-Chief, RAES</small>	APPROVED BY: DOMINADOR A. MARQUEZ, MPA <small>OIC-RTM / Operations & Extension</small>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border-top: 1px solid black; border-bottom: 1px solid black; width: 10px; height: 10px;"></div> </div> PAGE NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border-top: 1px solid black; border-bottom: 1px solid black; width: 10px; height: 10px;"></div> </div>
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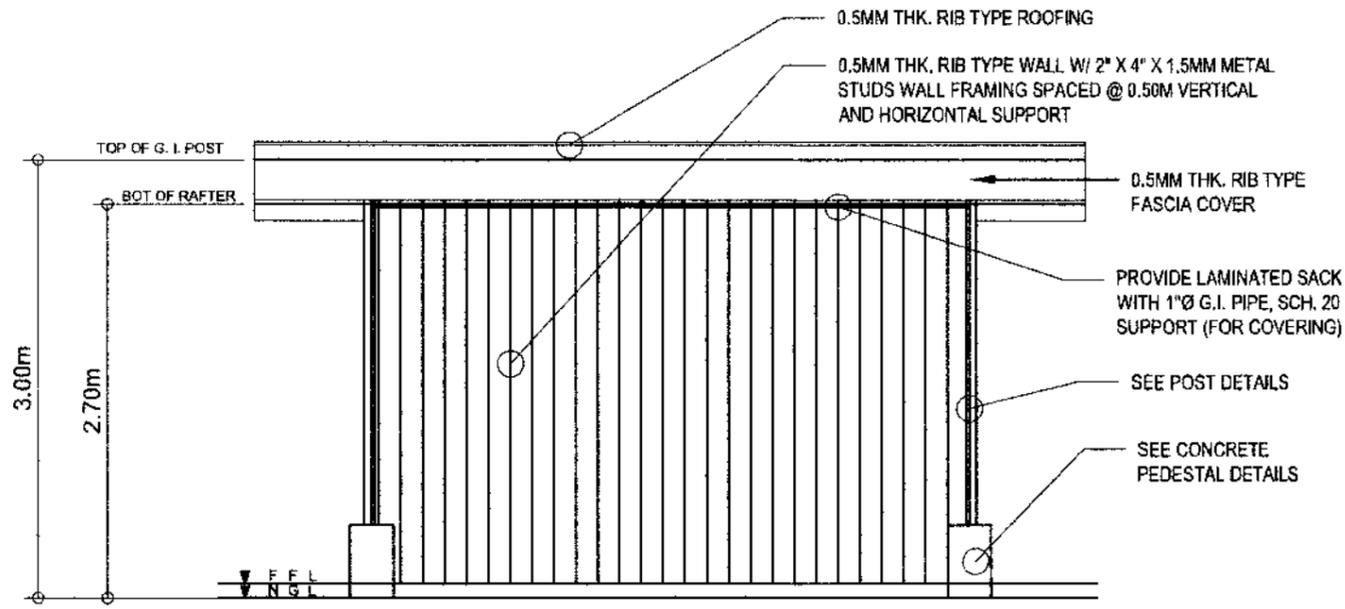
PLAN
SCALE 1:50 MTS



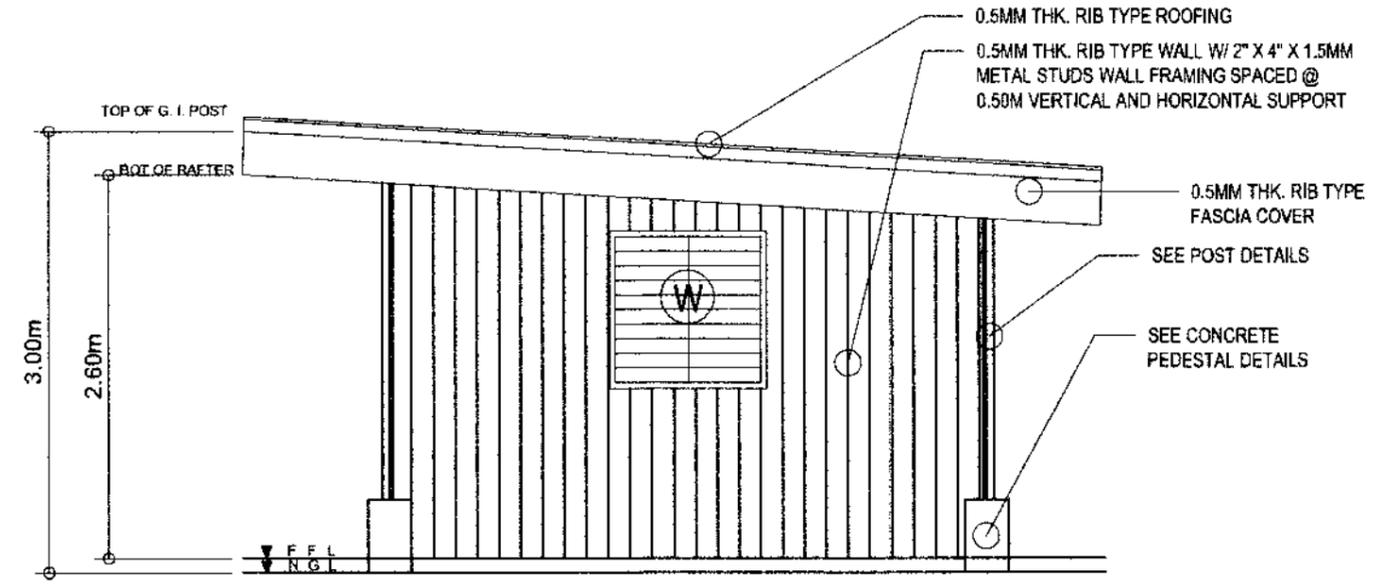
FOUNDATION PLAN
SCALE 1:50 MTS

TEMPORARY FACILITY / FIELD OFFICE DETAIL

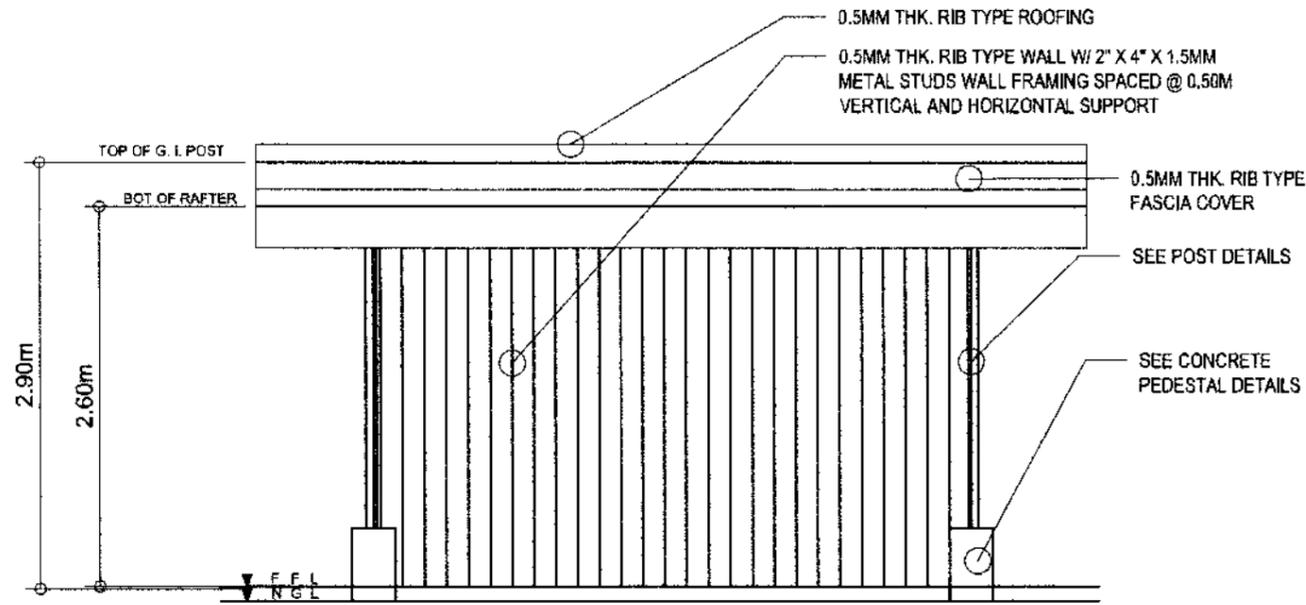
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	IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY		CAD BY:				



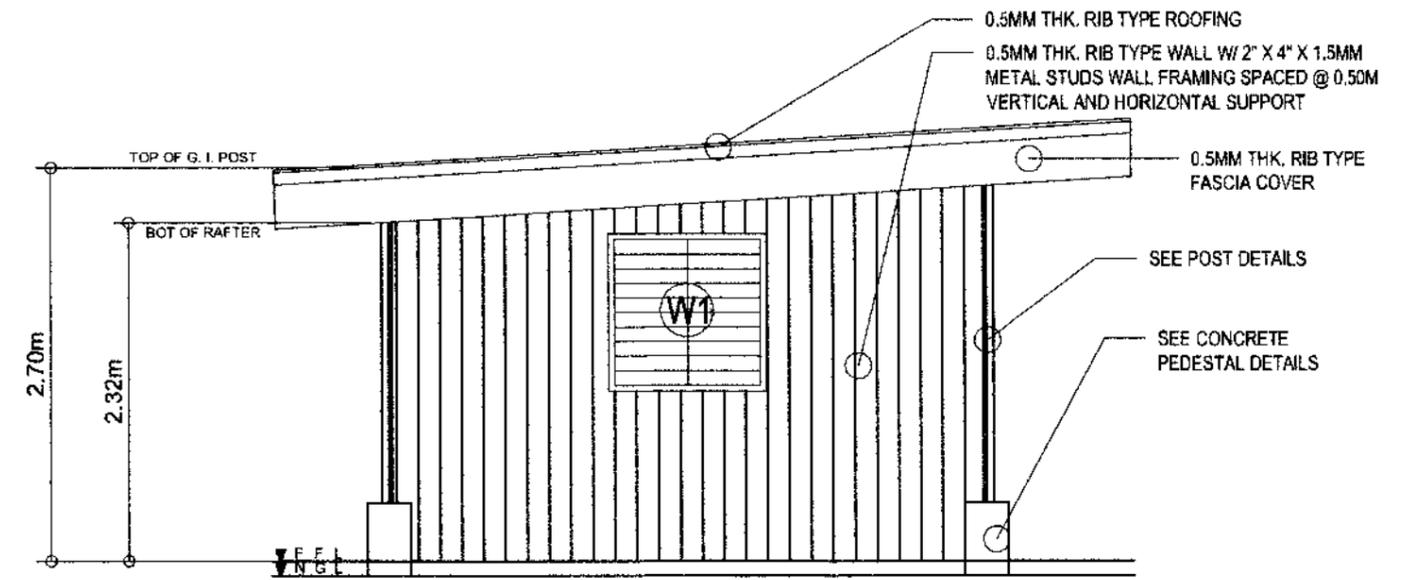
FRONT ELEVATION
SCALE 1:50MTS



RIGHT ELEVATION
SCALE 1:50MTS

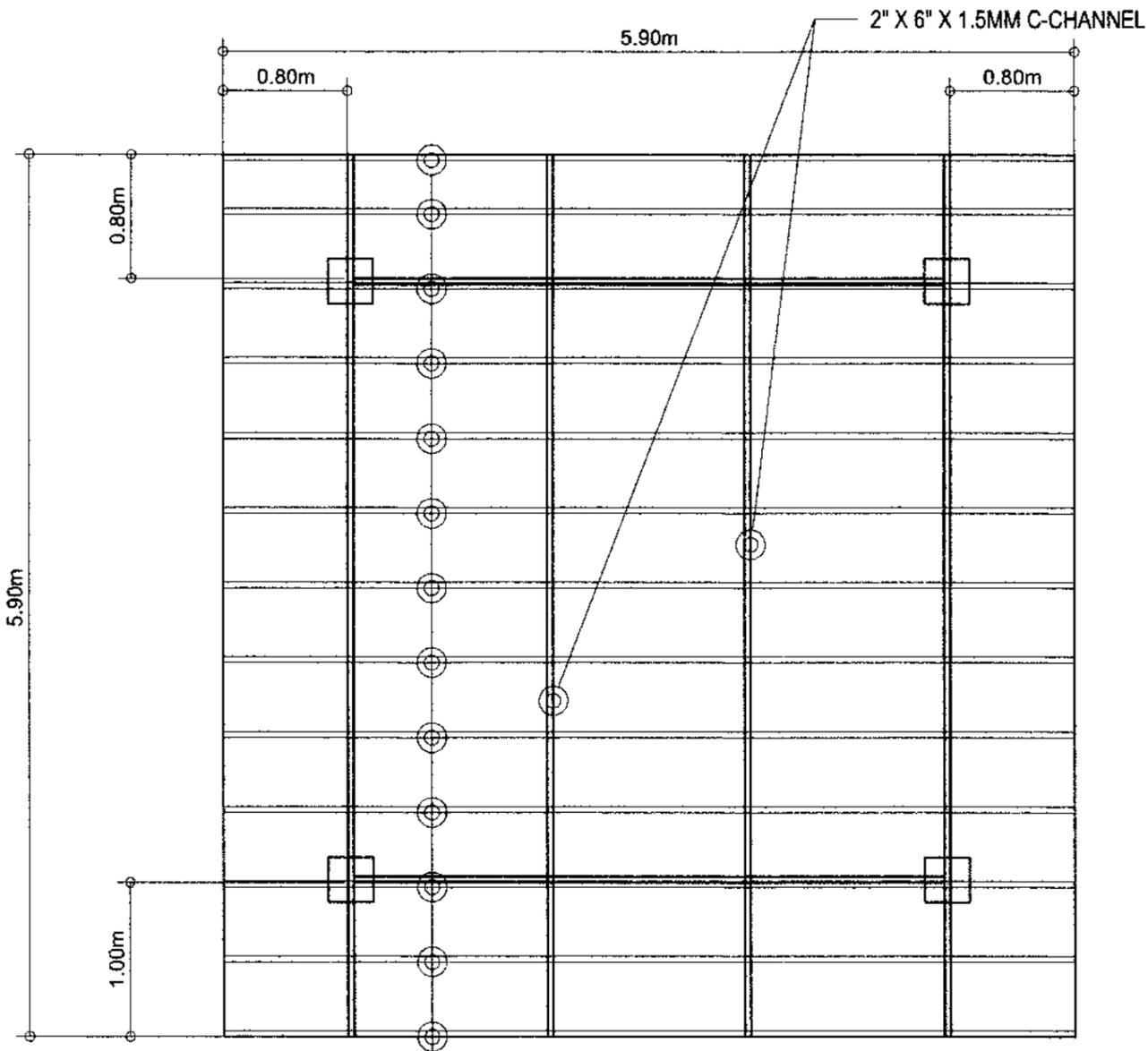


REAR ELEVATION
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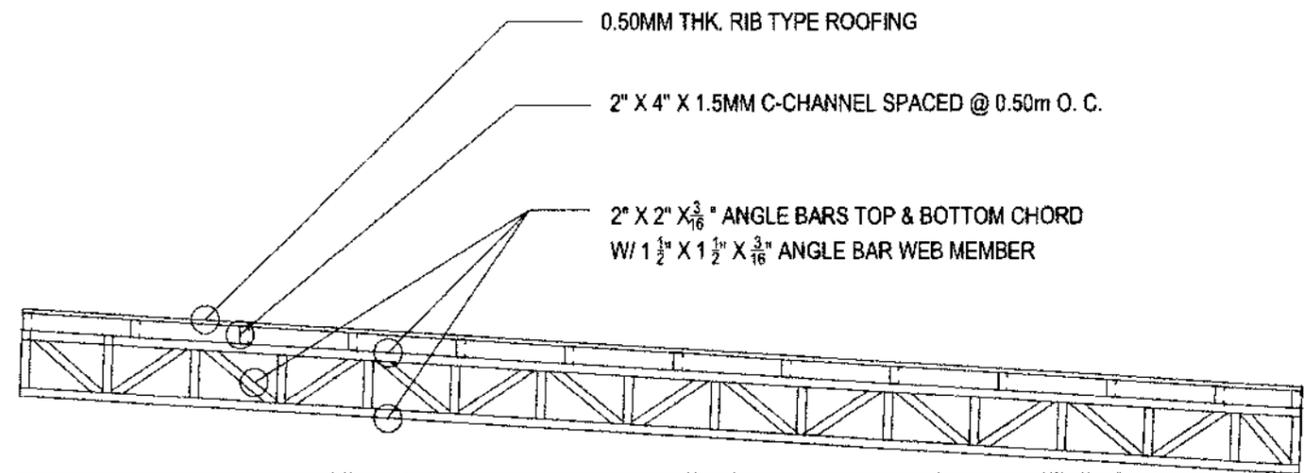
LEFT ELEVATION
SCALE 1:50MTS

IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: FRONT ELEVATION REAR ELEVATION RIGHT ELEVATION LEFT ELEVATION	PREPARED BY:  SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0102933)</small>	REVIEWED BY:  YVONNE GRACE R. SUR, ABE <small>Engineer III (License No. 005970)</small> <small>Head, Engineering Plans, Design, and Specifications Section</small>	RECOMMENDING APPROVAL:  MOISES D. MANA-AY, ABE, MEE <small>Engineer IV (License No. 006077)</small> <small>Off. Chief, RAED</small>	APPROVED BY:  DOMINADOR A. MARQUEZ, MPA <small>OIC-R75 for Operations & Extension</small>	SHEET NO.:  PAGE NO.:  
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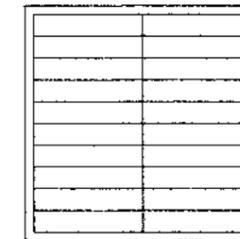


2" X 4" X 1.5MM C-CHANNEL SPACED @ 0.50M O.C.

ROOF PLAN
SCALE 1:40MTS



0.50MM THK. RIB TYPE ROOFING
2" X 4" X 1.5MM C-CHANNEL SPACED @ 0.50m O. C.
2" X 2" X $\frac{3}{16}$ " ANGLE BARS TOP & BOTTOM CHORD
W/ 1 $\frac{1}{2}$ " X 1 $\frac{1}{2}$ " X $\frac{3}{16}$ " ANGLE BAR WEB MEMBER



2 SETS
GLASS JALOUSIE TYPE WINDOW W/
ALUMINUM FRAME

TRUSS & DOOR DETAIL
SCALE 1:30MTS

IMPLEMENTING AGENCY REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION REHABILITATION OF NATO SOLIGUEN IRRIGATION PROJECT BRGY. NATO, LA CASTELLANA, NEGROS, OCCIDENTAL	SHEET CONTENTS: ROOF PLAN DETAIL DOOR DETAIL	PREPARED BY SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0008933)</small>	REVIEWED BY YVONNE GRACE V. SUR, ABE <small>Engineer III (License No. 005970) Head, Engineering Plans, Designs, and Specifications Section</small>	RECOMMENDING APPROVAL MOISES D. MANA-AY, ABE, MEE <small>Engineer III (License No. 0006077) OIC-Chief, RAED</small>	APPROVED BY DOMINADOR A. MARQUEZ, MPA <small>OIC-PTD for Operations & Extension</small>	SHEET NO.: PAGE NO.:
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