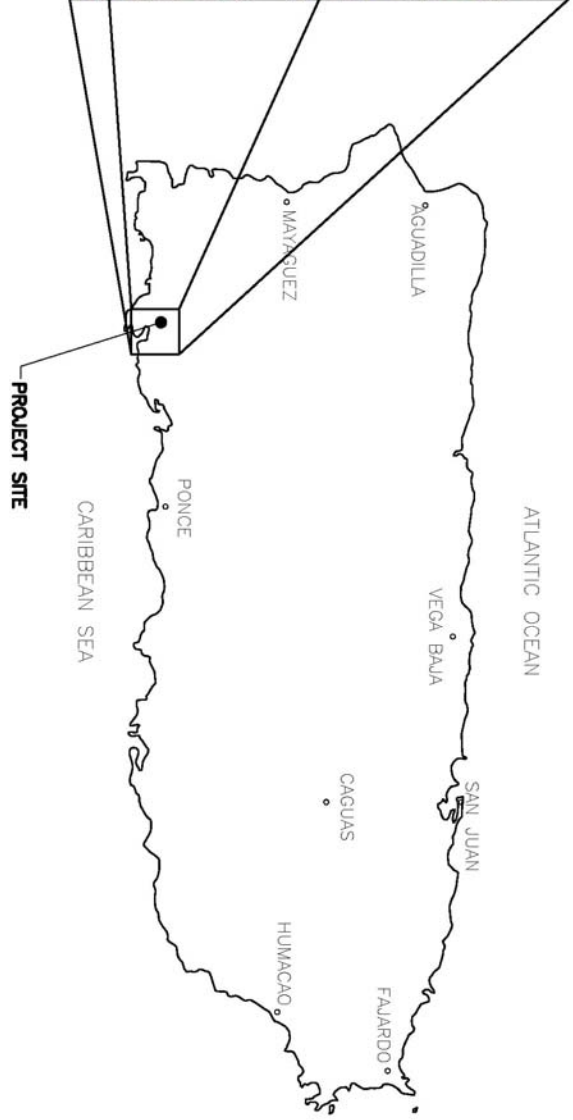
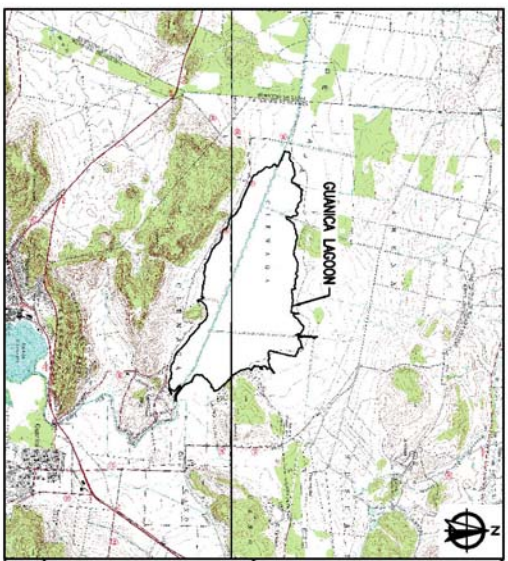


GUANICA LAGOON RESTORATION—SCHEMATIC DRAWINGS GUANICA, PUERTO RICO



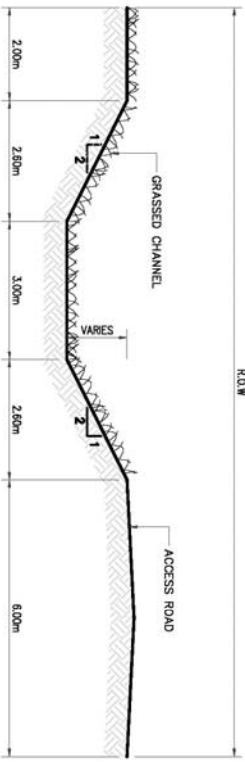
INDEX OF DRAWINGS

DRAWING	TITLE	SHEET NO.
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G-2	KEY MAP AND GENERAL NOTES	2
PP-1	RIO LOCO DIVERSION CHANNEL PLAN AND PROFILE	3
PP-2	GUANICA LAGOON HYDRAULIC CONTROL STRUCTURE PLAN AND PROFILE	4
DT-1	RIO LOCO DIVERSION CHANNEL AND GUANICA LAGOON CONTROL STRUCTURE DETAILS	5
DT-2	DRAINAGE CHANNEL CONTROL STRUCTURE	6
ACC-1	ACQUISITION LIMITS	7

THESE DRAWINGS REPRESENT THE SCHEMATIC DESIGN PREPARED FOR GUANICA LAGOON RESTORATION. DRAWINGS WERE PREPARED BY GREGORY L. MORRIS ENGINEERING WITH USGS TOPOGRAPHIC MAPS AND 2004 PR LIDAR. THESE DRAWINGS ARE SCHEMATIC AND ARE SUBJECT TO MODIFICATION BASED ON RECEIPT OF MORE DETAILED FIELD DATA.

THESE DRAWINGS AND THE CONCEPTS THEY EMBODY ARE THE SOLE AND EXCLUSIVE INTELLECTUAL PROPERTY OF GREGORY L. MORRIS ENGINEERING, P.S.C.

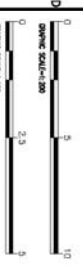
M. RIVERA, D. ANICHO, R. ROSA R. ROSA R. ROSA	SCALE VERIFICATION 0 1CM 		TITLE SHEET, LOCATION MAP AND INDEX OF DRAWINGS GUANICA LAGOON RESTORATION-SCHEMATIC DRAWINGS GUANICA, PUERTO RICO	SCALE: AS SHOWN UNITS: METERS UNLESS OTHERWISE NOTED	SHEET NO. G-1 DATE: APRIL 17/2009 PROJECT NO.
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RIO LOCO DIVERSION CHANNEL TYPICAL SECTION
SCALE=1:10

- GENERAL NOTES:**
1. DRAWINGS WERE PREPARED WITH USGS TOPOGRAPHIC MAPS AND 2004 PVI DATA.
 2. HORIZONTAL CONTROLS USED ON THIS DRAWING ARE REFERENCE TO NAV 83.
 3. ALL DISTANCES, COORDINATES AND ELEVATIONS ARE SHOWN IN METERS, UNLESS OTHERWISE INDICATED.
 4. THESE DRAWINGS ARE SCHEMATIC AND ARE SUBJECT TO MODIFICATION BASED ON FIELD CONDITIONS.
 5. THESE DRAWINGS ARE THE PROPERTY OF GREGORY L. MORRIS ENGINEERING P.C.

- ROCK WEIRS:**
1. STONES SHALL BE INDIVIDUALLY PLACED AND ORIENTED IN ORDER TO ACHIEVE STABILITY AND PREVENT UNNECESSARY VOIDS.
 2. DURING STONE INSTALLATION CONTRACTOR SHALL FILL VOIDS WITH PROXIMATE EXCAVATED MATERIAL, AS INSTRUCTED BY DESIGNER.
 3. STONES SHALL BE INSTALLED TO PROVIDE AN SLOPE ANGLE NOT HIGHER THAN 35°.
 4. ROCKS FROM THE INSTALLED AND PROPOSED NATURAL FLAT FACES, INCLUDING IN SHAPE, RESISTANT TO WEATHER AND WATER ACTION, WITH A SPECIFIC GRAVITY OF 2.65 OR GREATER, ROUNDED STONES OR ROCKS WILL NOT BE ACCEPTED. THE STONES AND ROCKS SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 40 WHEN TESTED AS PER ASTM G55A.



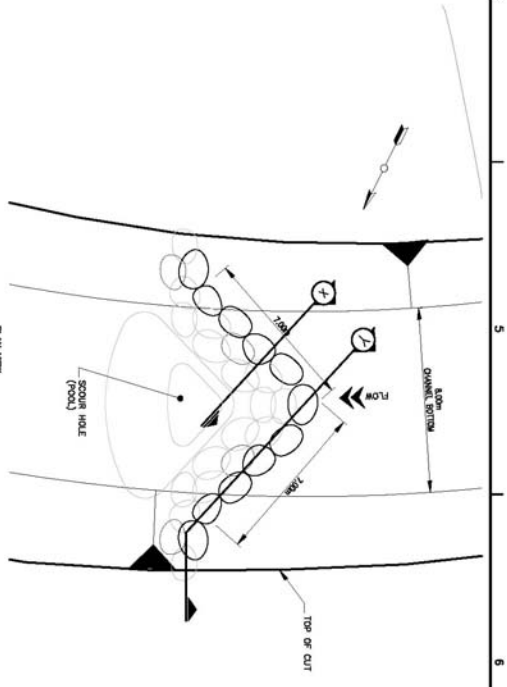
DESIGNED BY	M. RIVERA, D. ARCOCHO, R. ROSA
CHECKED BY	R. ROSA
DATE	R. ROSA

SCALE VERIFICATION	DATE	BY
0		
1CM		

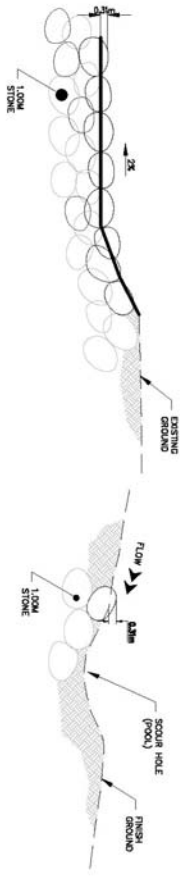
GJM
GREGORY L. MORRIS ENGINEERING P.C.
1000 W. 10TH AVENUE, SUITE 100
DENVER, CO 80202
TEL: 303.733.7777
WWW.GLMORRIS.COM

RIO LOCO DIVERSION CHANNEL AND GUANICA LAGOON CONTROL STRUCTURE DETAILS
GUANICA LAGOON RESTORATION-SCHEMATIC DRAWINGS
GUANICA, PUERTO RICO

DATE	07-11
BY	GUANICA
DATE	APRIL 17/2009



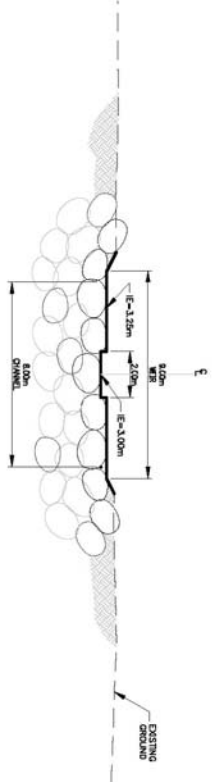
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SECTION X
SCALE=1:20

SECTION Y
SCALE=1:20

ROCK WEIR DETAILS
SCALE=1:20

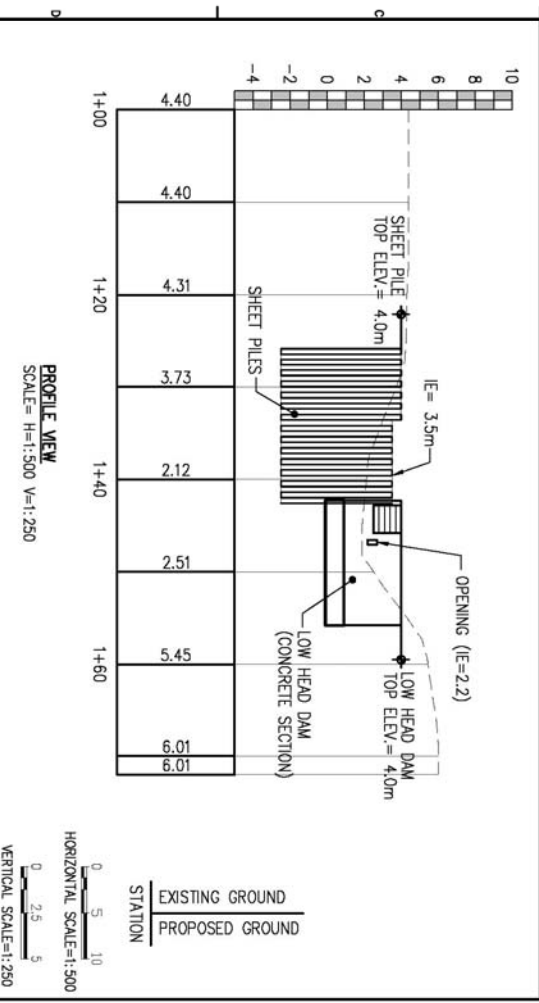
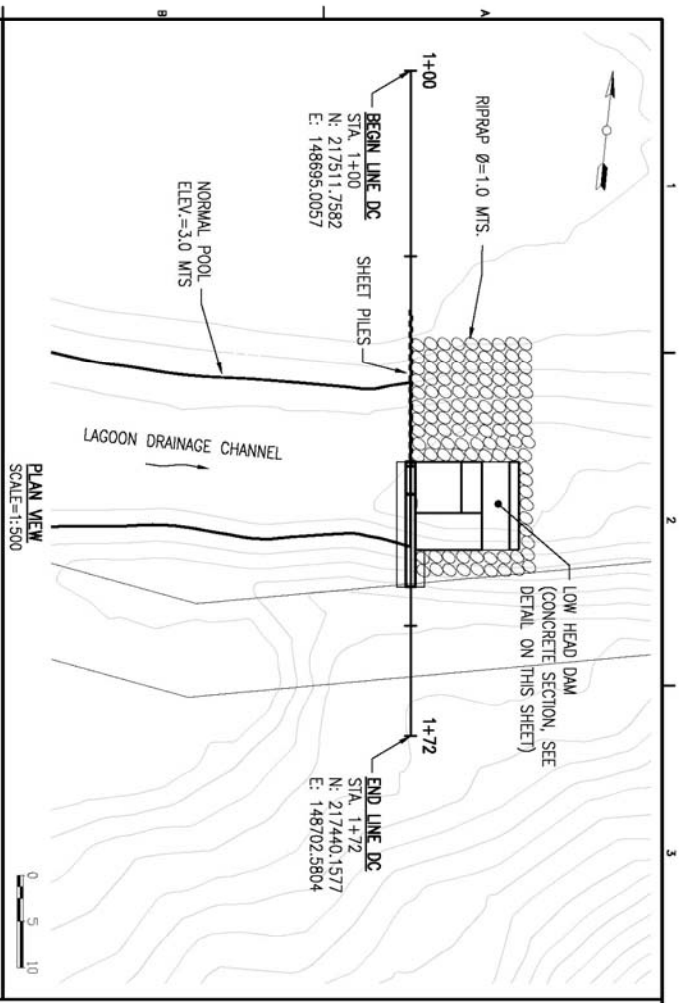


GRADE CONTROL STRUCTURE AND WEIR
SCALE=1:20

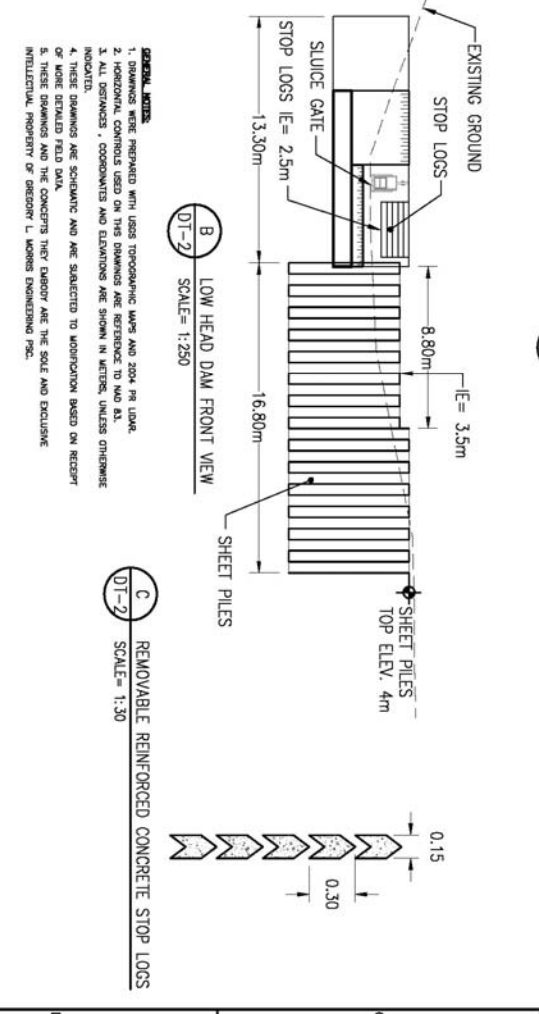
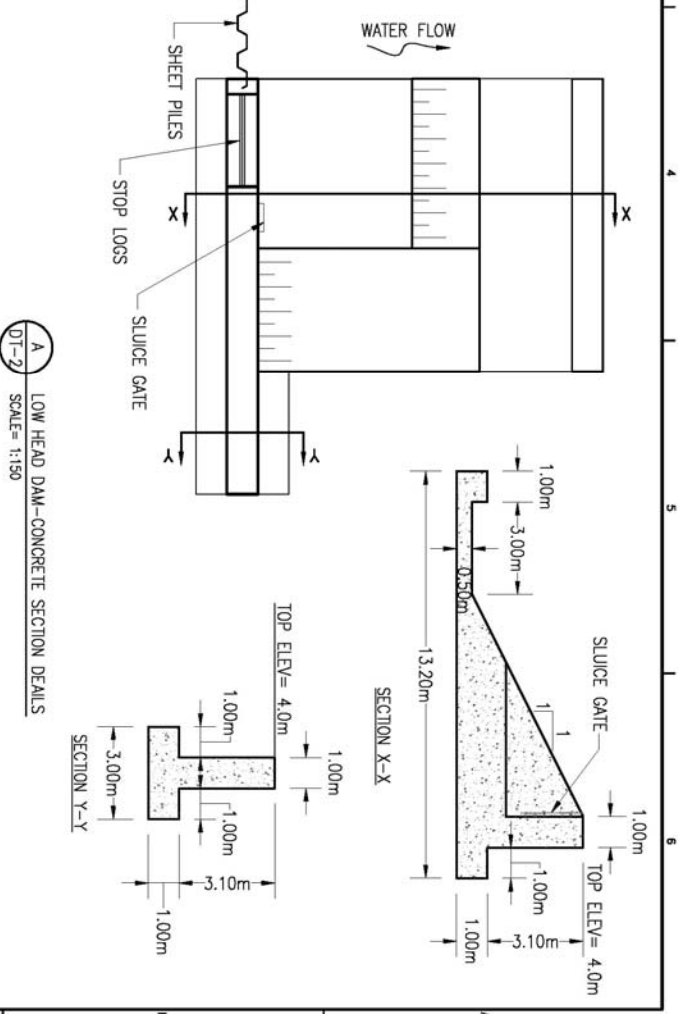
GUANICA LAGOON CONTROL STRUCTURE DETAILS
SCALE=1:20

RIO LOCO DIVERSION CHANNEL AND GUANICA LAGOON CONTROL STRUCTURE DETAILS
GUANICA LAGOON RESTORATION-SCHEMATIC DRAWINGS
GUANICA, PUERTO RICO

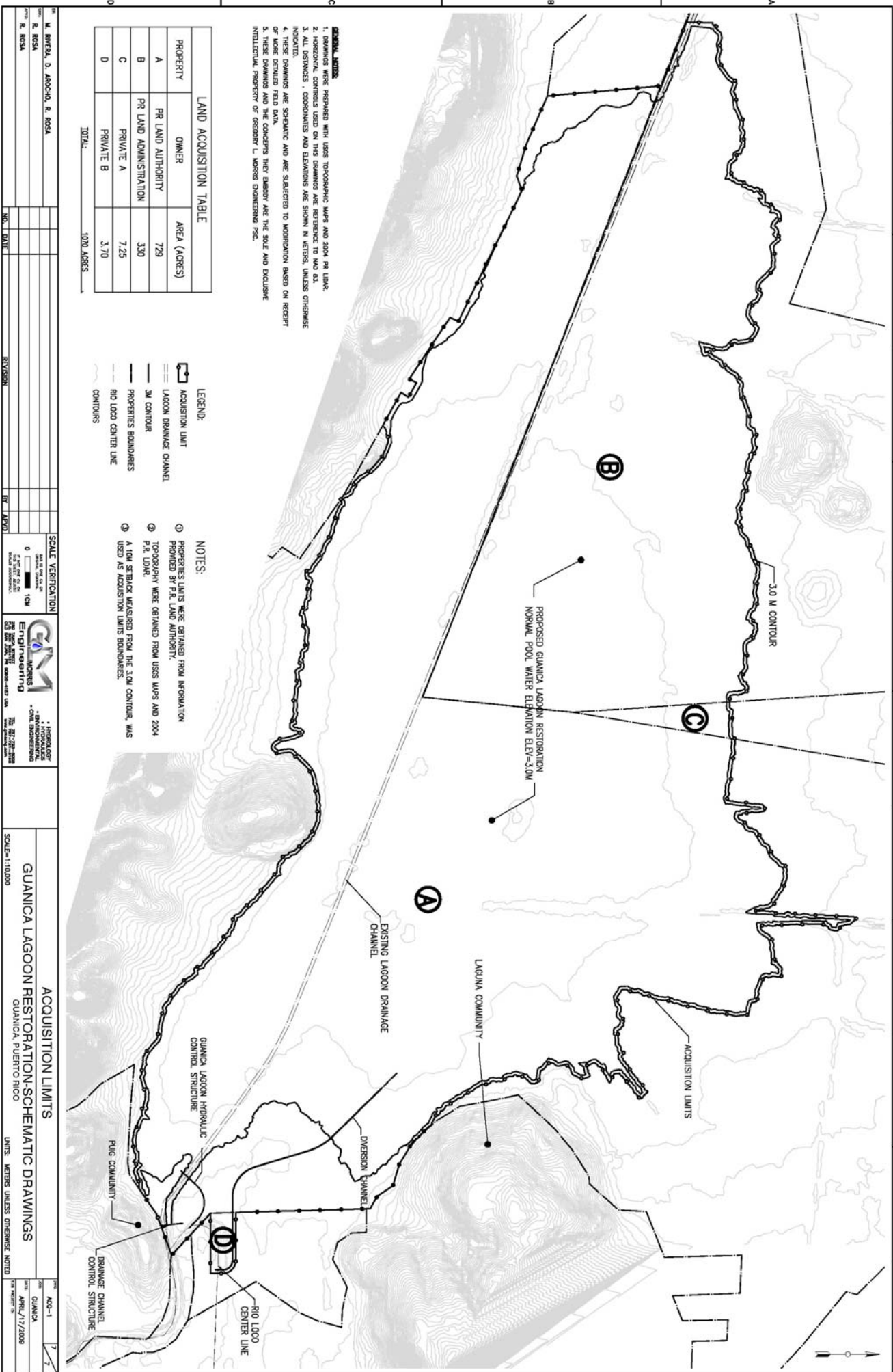
DATE	07-11
BY	GUANICA
DATE	APRIL 17/2009



M. RIVERA, L. RIVERA, D. ARBOCHO, R. ROSA R. ROSA R. ROSA		SCALE VERIFICATION 0 1CM 0 2.5 5 HORIZONTAL SCALE=1:500 VERTICAL SCALE=1:250	
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M. RIVERA, L. RIVERA, D. ARBOCHO, R. ROSA R. ROSA R. ROSA		SCALE VERIFICATION 0 1CM 0 2.5 5 HORIZONTAL SCALE=1:500 VERTICAL SCALE=1:250	
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M. RIVERA, L. RIVERA, D. ARBOCHO, R. ROSA R. ROSA R. ROSA		SCALE VERIFICATION 0 1CM 0 2.5 5 HORIZONTAL SCALE=1:500 VERTICAL SCALE=1:250	



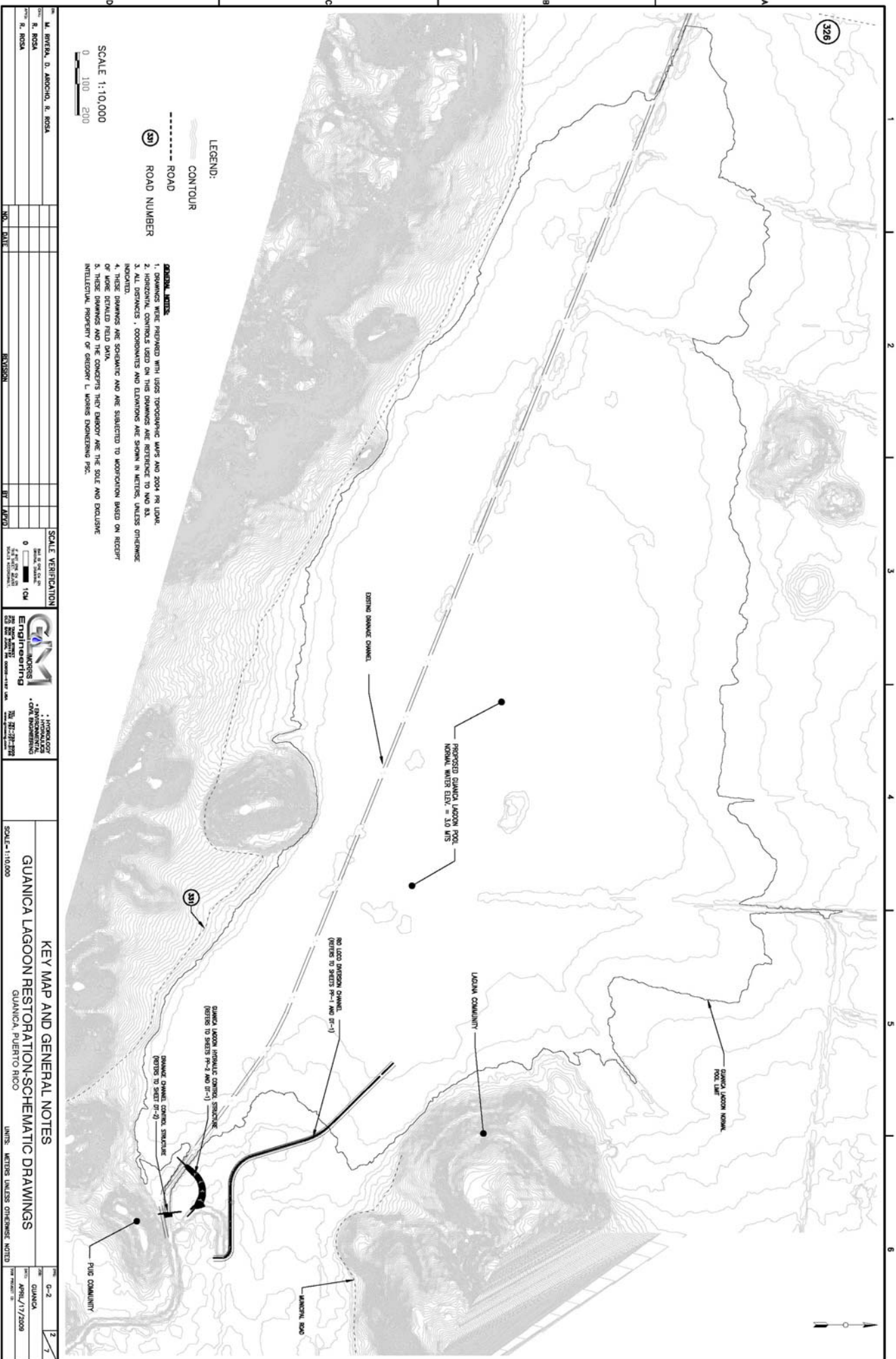
- GENERAL NOTES:**
1. DRAWINGS WERE PREPARED WITH USGS TOPOGRAPHIC MAPS AND 2004 P.R. LAKE DATA.
 2. ALL DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 3. ALL DISTANCES, COORDINATES AND ELEVATIONS ARE SHOWN IN METERS, UNLESS OTHERWISE INDICATED.
 4. THESE DRAWINGS ARE SCHEMATIC AND ARE SUBJECTED TO MODIFICATION BASED ON RECEIPT OF MORE DETAILED FIELD DATA.
 5. THESE DRAWINGS AND THE CONCEPTS THEY EMPLOY ARE THE SOLE AND EXCLUSIVE INTELLECTUAL PROPERTY OF GREGORY L. MOROS ENGINEERING PSC.

LAND ACQUISITION TABLE		
PROPERTY	OWNER	AREA (ACRES)
A	PR LAND AUTHORITY	729
B	PR LAND ADMINISTRATION	330
C	PRIVATE A	7.25
D	PRIVATE B	3.70
TOTAL:		1020 ACRES

- LEGEND:**
- ACQUISITION LIMIT
 - ▬ LAGOON DRAINAGE CHANNEL
 - ▬ 3M CONTOUR
 - ▬ PROPERTIES BOUNDARIES
 - ▬ RIO LOCO CENTER LINE
 - CONTOURS

- NOTES:**
- ① PROPERTIES LIMITS WERE OBTAINED FROM INFORMATION PROVIDED BY P.R. LAND AUTHORITY.
 - ② TOPOGRAPHY WERE OBTAINED FROM USGS MAPS AND 2004 P.R. LAKE.
 - ③ A 10M STAKE LOCATED FROM THE 3.0M CONTOUR, WAS USED AS ACQUISITION LIMITS BOUNDARIES.

<p>DESIGNED BY: M. RIVERA, D. ARCOCHO, R. ROSA CHECKED BY: R. ROSA DRAWN BY: R. ROSA</p>		<p>NO. 1 DATE: _____ BY: LAGOON</p>		<p>SCALE VERIFICATION 0 1 CM 0 100 METERS 0 100 FEET</p>		<p>SCALE: 1:10,000</p>	
<p>GUANICA LAGOON RESTORATION-SCHEMATIC DRAWINGS GUANICA, PUERTO RICO</p>				<p>UNITS: METERS UNLESS OTHERWISE NOTED</p>		<p>DATE: APRIL 17/2008</p>	



KEY MAP AND GENERAL NOTES GUANICA LAGOON RESTORATION-SCHEMATIC DRAWINGS GUANICA, PUERTO RICO		SCALE: 1:10,000 UNITS: METERS UNLESS OTHERWISE NOTED	
PREPARED BY: M. BREYER, D. ANICHO, R. ROSA	CHECKED BY: R. ROSA	DATE: APRIL 17/2009	SHEET NO.: G-2
GENERAL NOTES: 1. DRAWINGS WERE PREPARED WITH USGS TOPOGRAPHIC MAPS AND 2004 PER LDM. 2. HORIZONTAL CONTROLS USED ON THIS DRAWING ARE REFERENCED TO NAV 83. 3. ALL DISTANCES, COORDINATES AND ELEVATIONS ARE SHOWN IN METERS, UNLESS OTHERWISE INDICATED. 4. THESE DRAWINGS ARE SCHEMATIC AND ARE SUBJECT TO MODIFICATION BASED ON RECEIPT OF THESE DRAWINGS FROM THE FIELD. 5. THESE DRAWINGS AND THE CONCEPTS THEY EMBODY ARE THE SOLE AND EXCLUSIVE INTELLECTUAL PROPERTY OF GEORGE T. MOHRIS ENGINEERING PSC.		SCALE VERIFICATION 0 100 200 METERS 0 100 200 FEET	