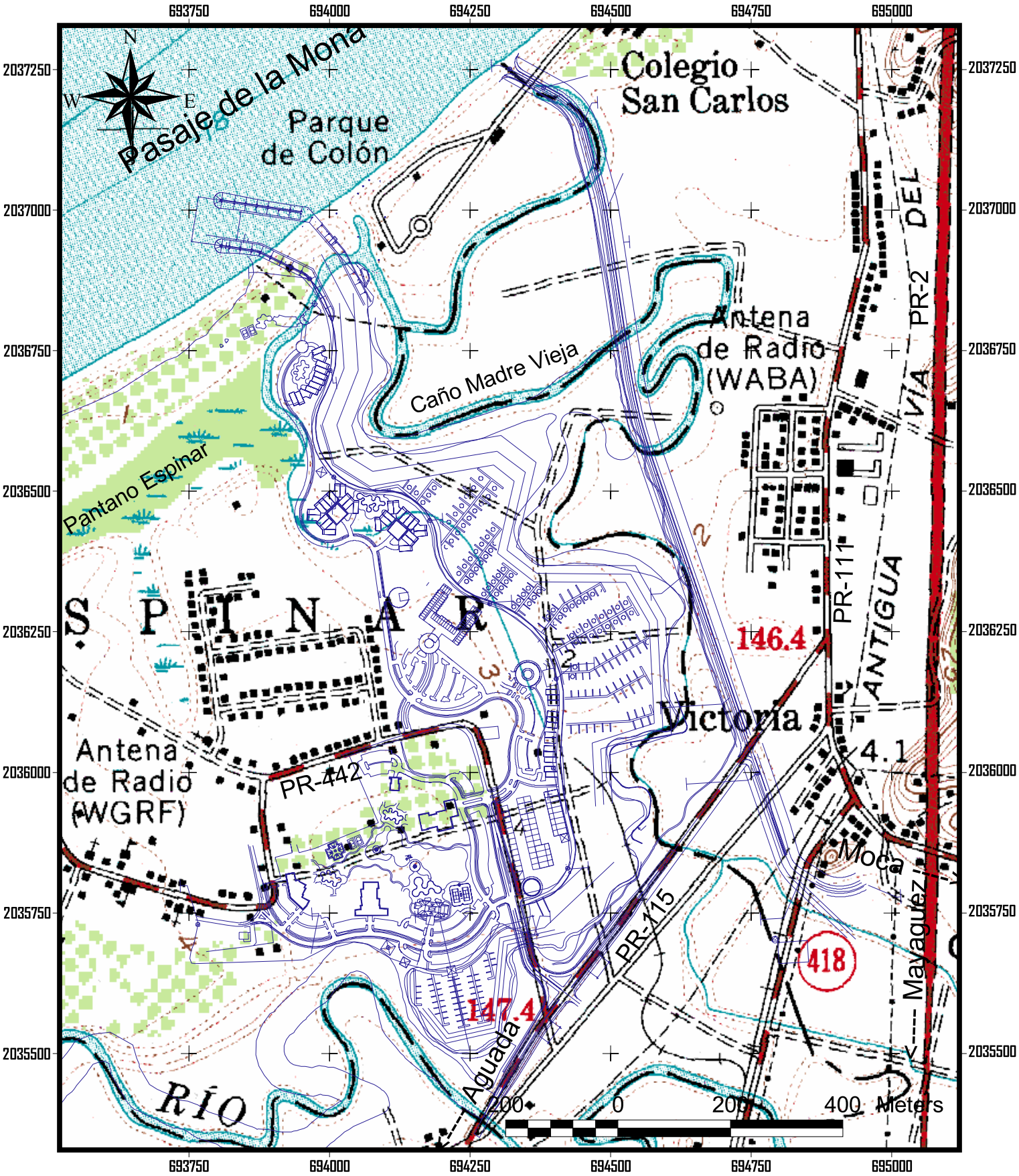
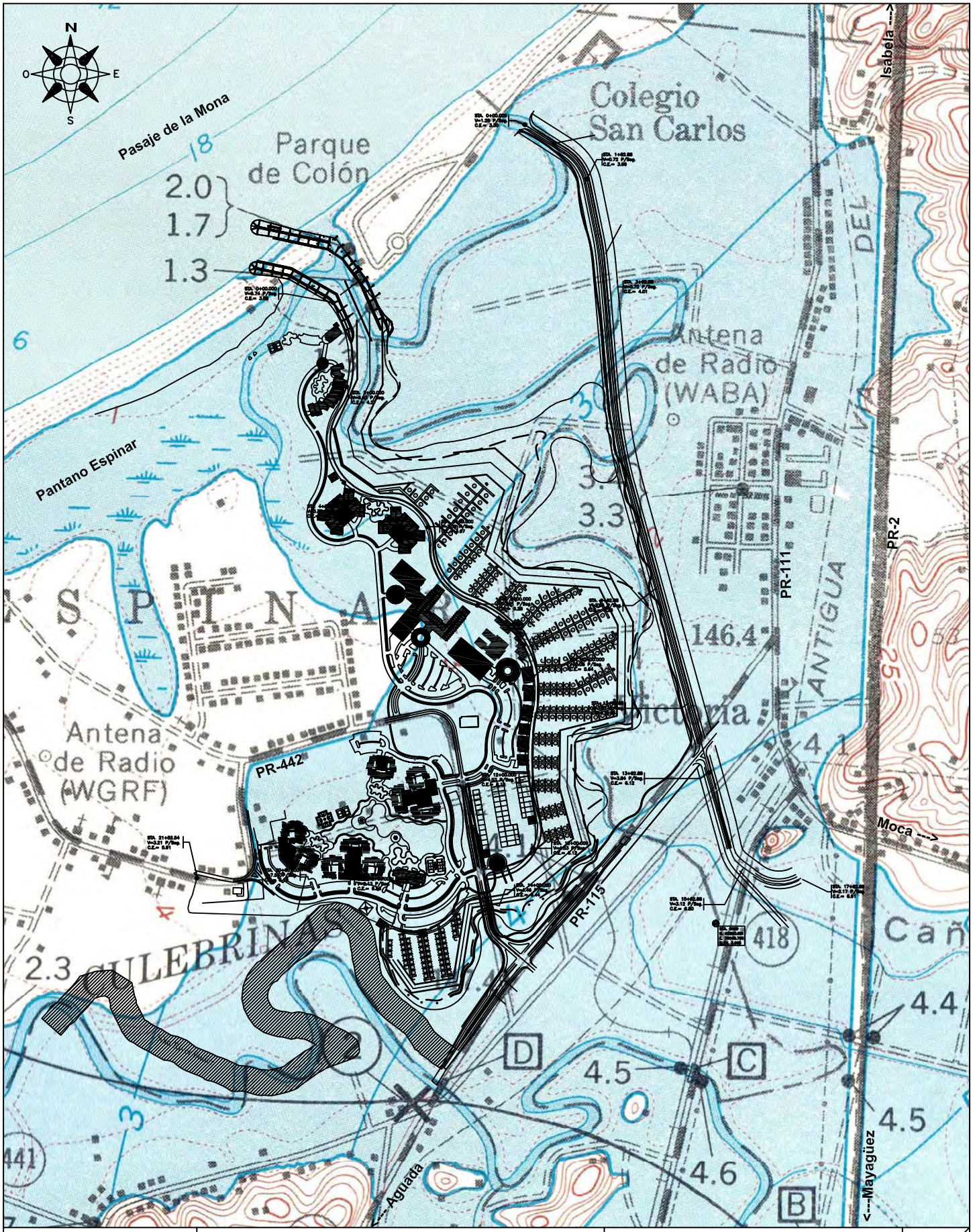
Figura 1 - Mapa de Ubicación
DIA-P Discovery Bay Resort & Marina, PR-442 Km0.5, Aguada, PR



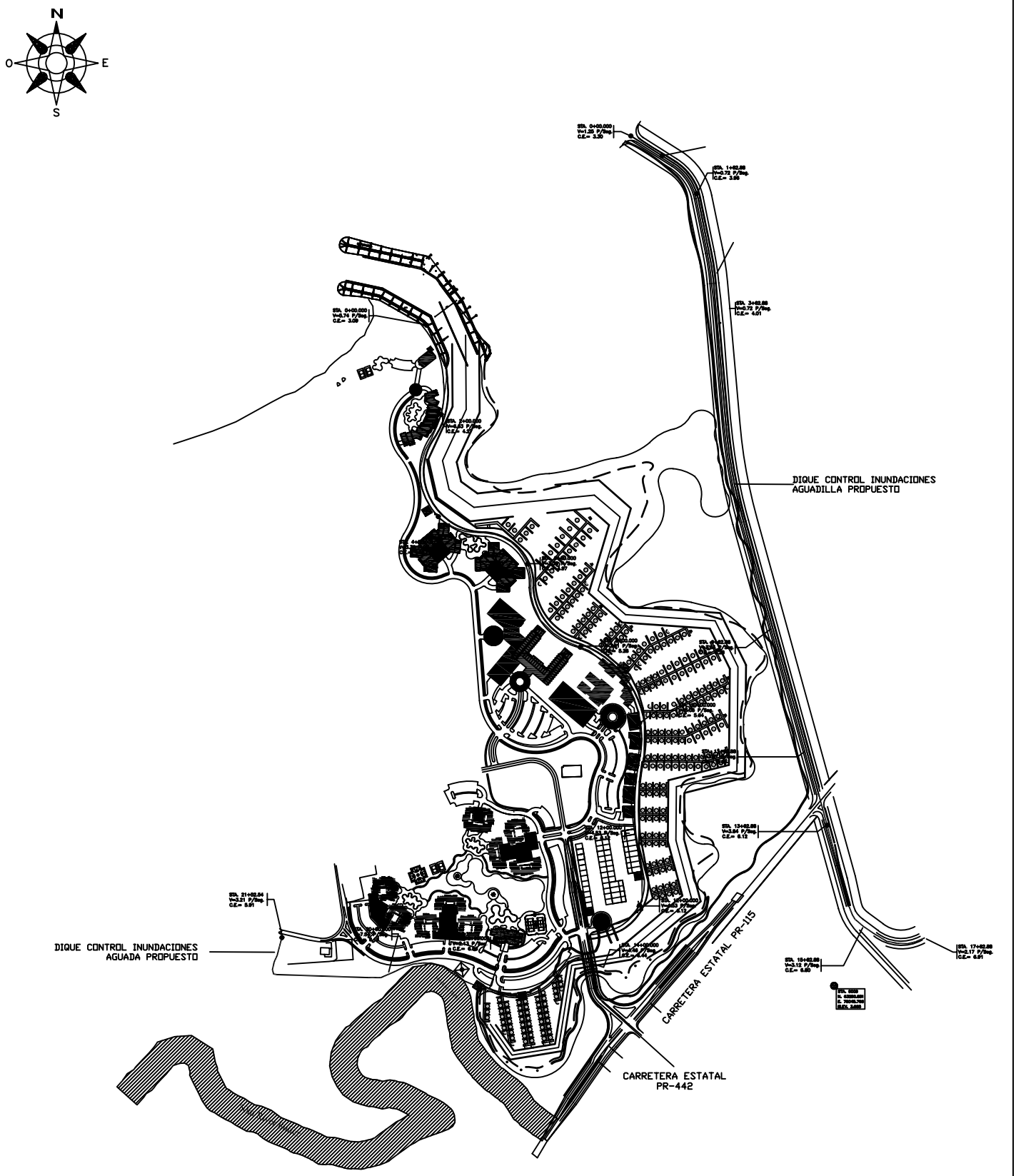
Leyenda:

Discovery Bay Resort & Marina Image Cuadrángulo Topográfico Aguadilla, USGS 1960 (R18067d2)

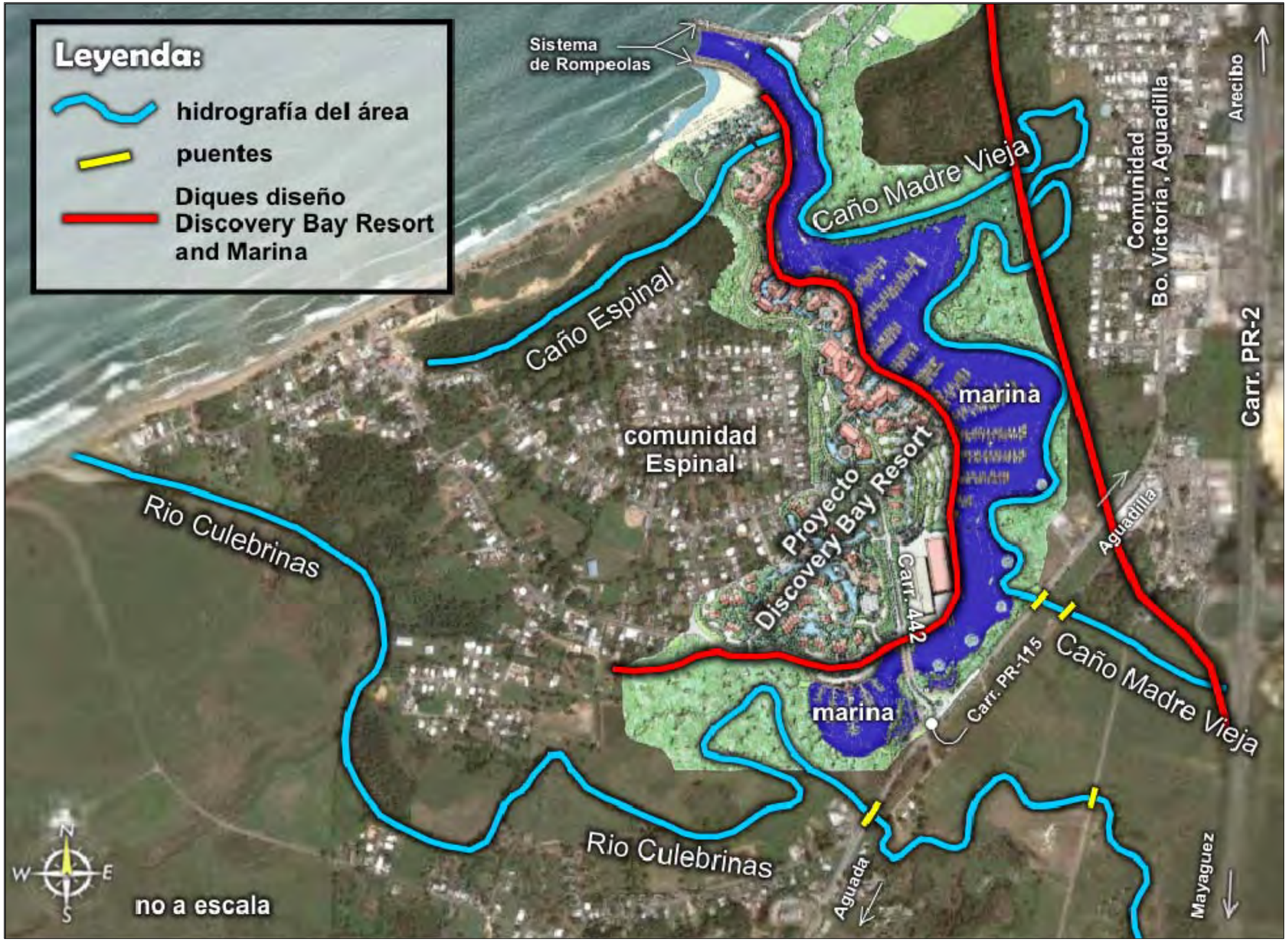
Figura 2 - Mapa de Inundaciones Historicas del Río Culebrinas
DIA-P Discovery Bay Resort & Marina, PR-442, Km. 0.5, Aguada, PR



EH&S CONSULTANTS, INC.	DIA-P DISCOVERY BAY RESORT & MARINA	MAPA DE INUNDACIONES HISTORICAS DEL RIO CULEBRINAS	FIG.
Consultants & Trainers PO Box 19895, San Juan, PR 00910 Tel.: (787) 268-7072 / FAX: (787) 268-0541	Carretera Estatal PR-442, Km. 0.5, Bo. Espinar, Aguada, Puerto Rico ESCALA: 1:10,000		2



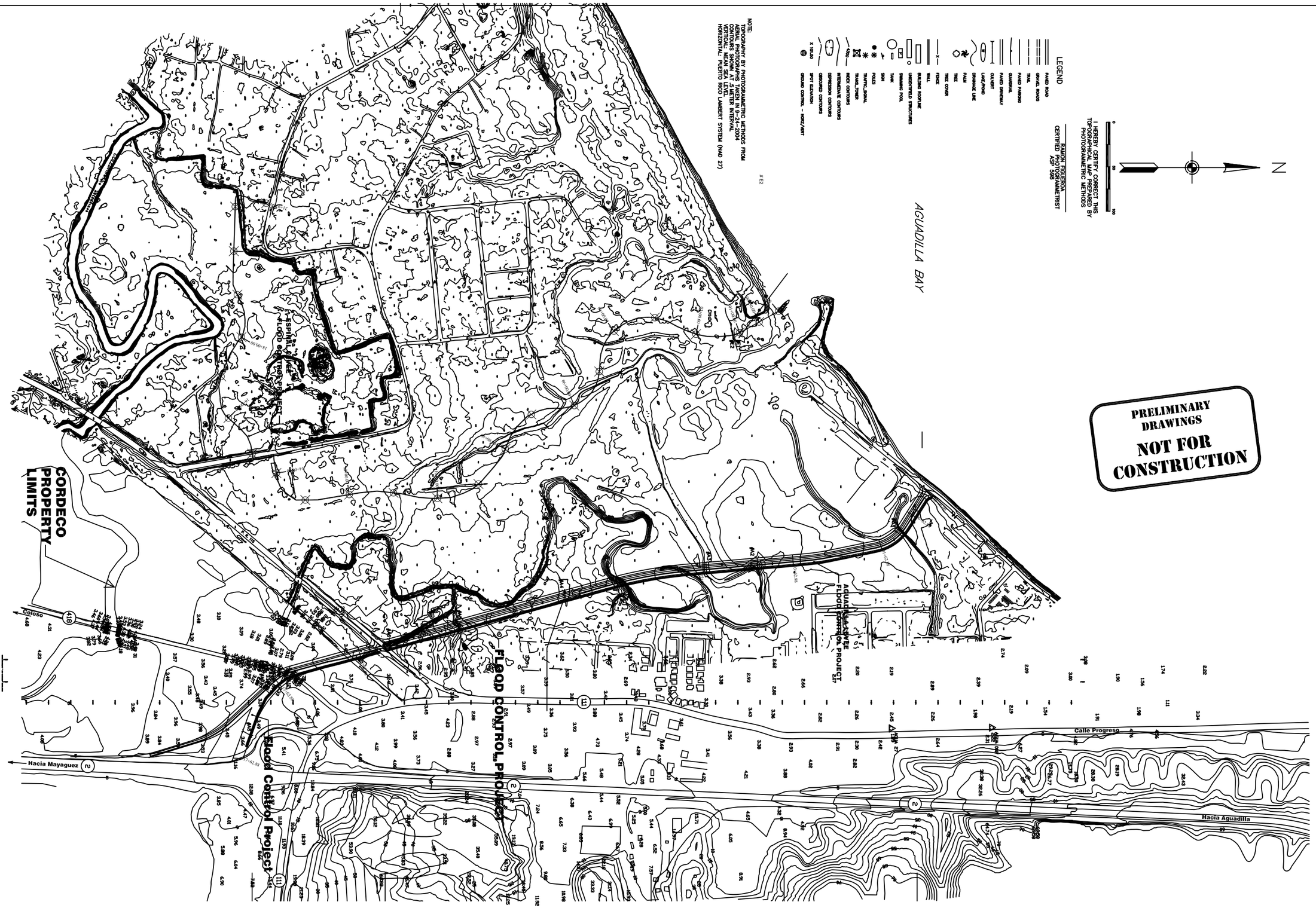
EH&S CONSULTANTS, INC. **Consultants & Trainers** PO Box 19895, San Juan, PR 00910 Tel.: (787) 268-7072 / FAX: (787) 268-0541	**DIA-P DISCOVERY BAY RESORT & MARINA** Carretera Estatal PR-442, Km. 0.5, Bo. Espinal, Aguada, Puerto Rico **ESCALA: 1:10,000**	**PLANO DE SITUACION**	**FIG.** **3**



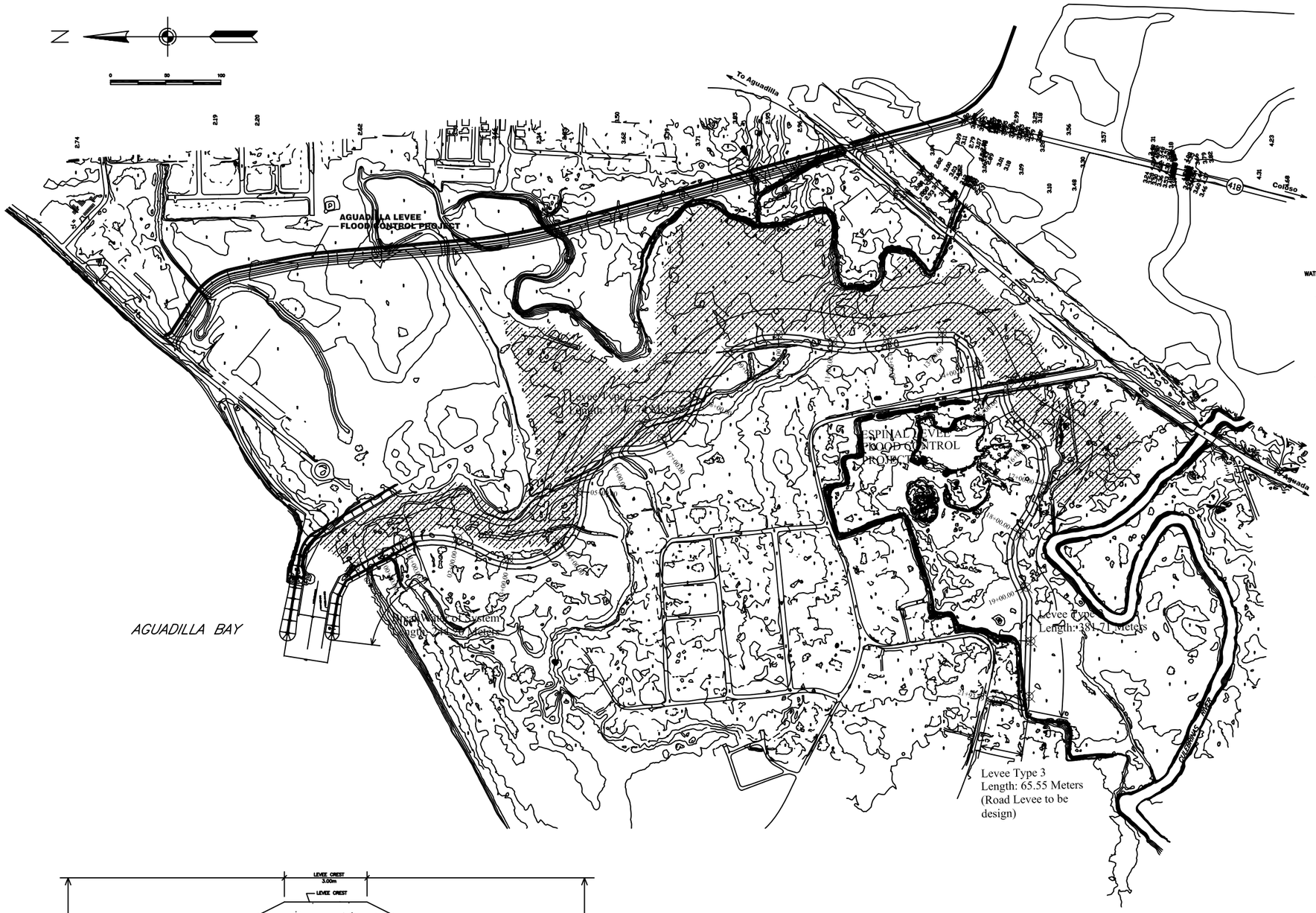
WORK	BY	DATE
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

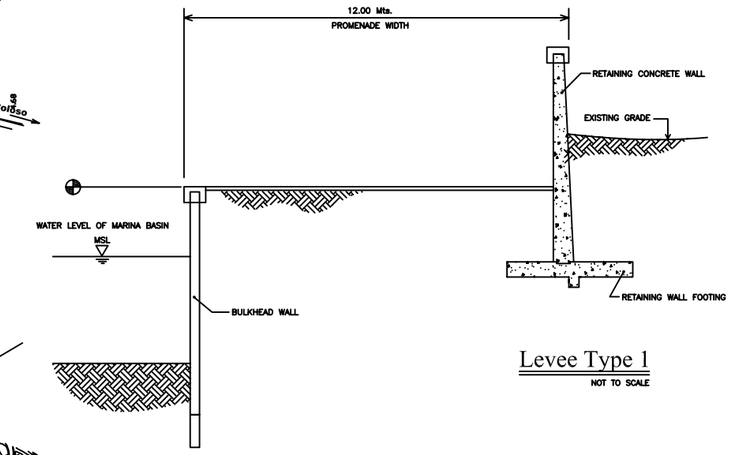
FILE:

EH&S CONSULTANTS, INC. CONSULTANTS AND TRAINERS PO BOX 19895, SAN JUAN, PR 00910	DIA–P Discovery Bay Resort & Marina CARRETERA ESTATAL PR–442 KM. 0.5 BO. ESPINAR, AGUADA, PUERTO RICO	SCALE	**PLANO COCEPTUAL DEL PROYECTO PROPUESTO SOBRE FOTO AEREA DEL PREDIO**	FIG. 4



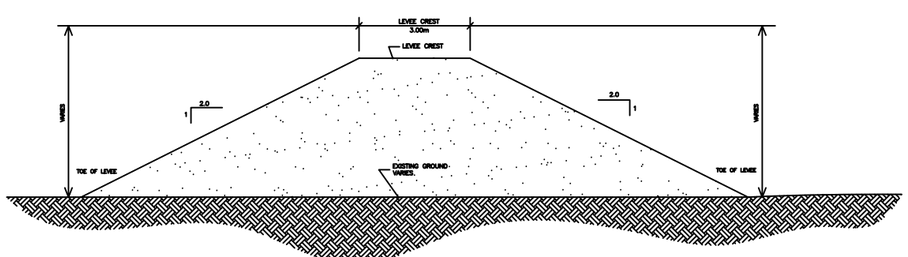
ING. ANTONIO HERNANDEZ VIRELLA ENGINEERS & LAND SURVEYORS BUZON 1480, BO. ESPINAL, AGUADA, PUERTO RICO 00602 Tel. 787-891-3333 Fax: 787-882-4017 E-mail: ahv@prtc.net	DISCOVERY BAY RESORT & MARINA AGUADA, PUERTO RICO	FECHA / REVISION	ESCALA 1:8500	AGUADILLA & ESPINAR LEVEE PLAN	FIG. 5





Levee Type 1

NOT TO SCALE



Levee Type 2

NOT TO SCALE

PRELIMINARY DRAWINGS

NOT FOR CONSTRUCTION

LEVEE STATION (Meters)	LEVEE CREST ELEVATION (M)	AVERAGE GROUND ELEVATION (M)	POST-PROJECT WATER SURFACE ELEVATION (M)	PRE-PROJECT WATER SURFACE ELEVATION (Meters)
00+00.00	3.91	1.00	3.00	2.80
00+50.00	3.92	1.50	3.00	2.80
01+00.00	4.04	2.00	3.12	2.80
02+00.00	4.46	1.50	3.53	2.96
03+00.00	4.71	1.50	3.77	3.23
04+00.00	5.00	1.50	4.06	3.53
05+00.00	5.26	1.30	4.31	3.78
06+00.00	5.56	1.00	4.6	4.08
07+00.00	5.83	1.50	4.87	4.42
08+00.00	6.07	1.50	5.1	4.69
09+00.00	6.36	1.50	5.38	4.92
10+00.00	6.67	2.30	5.69	5.19
11+00.00	6.92	2.50	5.93	5.44
12+00.00	7.11	4.00	6.11	5.77
13+00.00	7.49	3.90	6.27	6.03
14+00.00	7.54	3.50	6.32	6.11
15+00.00	7.59	4.50	6.37	6.12
16+00.00	7.62	2.90	6.40	6.10
17+00.00	7.03	3.50	6.00	5.88
18+00.00	6.54	3.00	5.50	5.46
19+00.00	6.18	3.00	5.13	5.09
20+00.00	5.70	3.00	4.65	4.65
21+00.00	5.50	3.00	4.44	4.46
21+93.99	5.47	4.50	4.40	4.44

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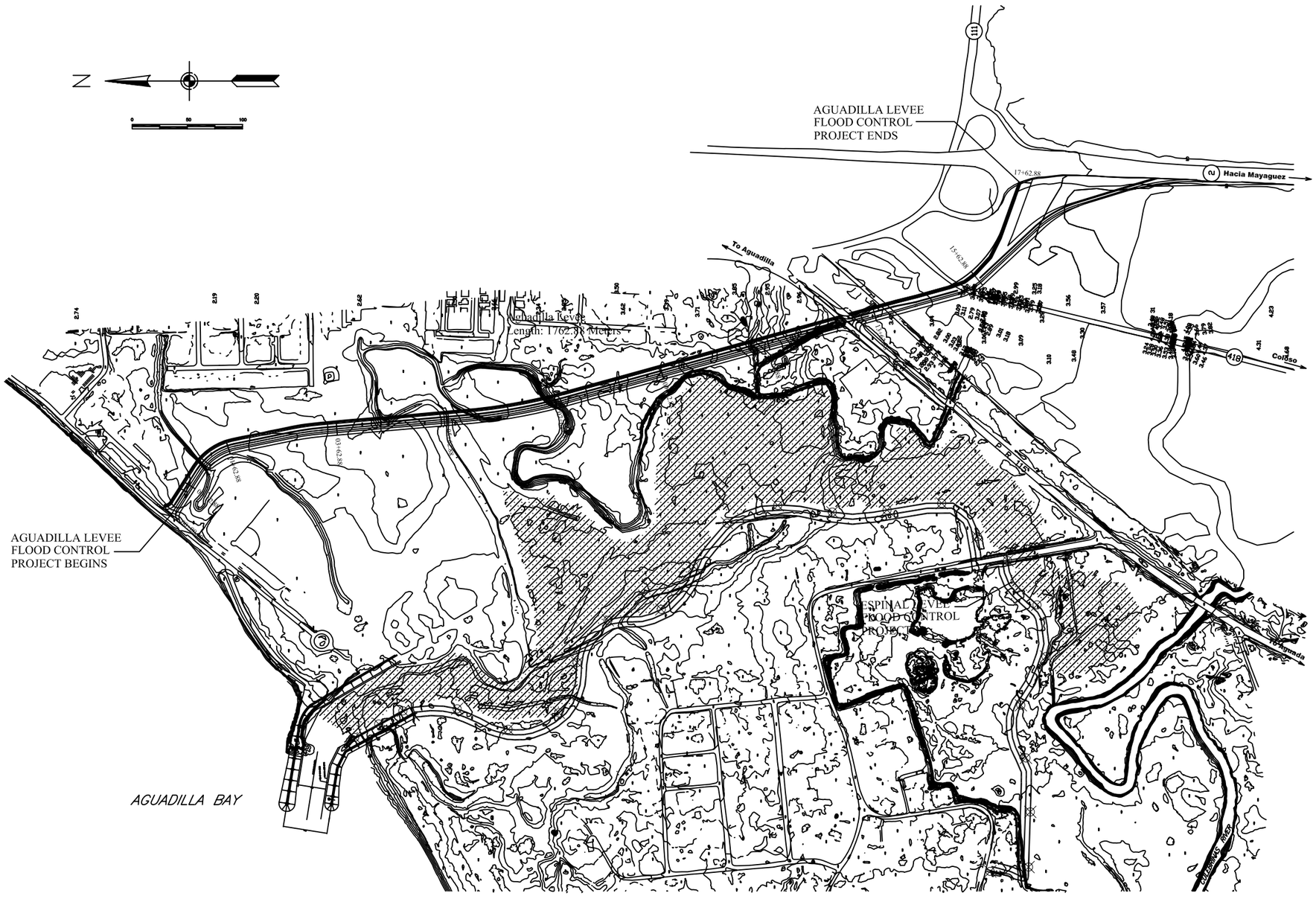
DISCOVERY BAY RESORT & MARINA
AGUADA, PUERTO RICO

FECHA	REVISION

SCALE
1:8500

ESPINAR LEVEE PLAN

FIG. 5A



PRELIMINARY DRAWINGS

NOT FOR CONSTRUCTION

LEVEE STATION (Meters)	LEVEE CREST ELEVATION (M)	AVERAGE GROUND ELEVATION (M)	POST-PROJECT WATER SURFACE ELEVATION (M)	PRE-PROJECT WATER SURFACE ELEVATION (Meters)
00+00.00	3.30	3.30	3.00	2.80
00+09.66	3.92	2.50	3.00	2.80
00+62.88	3.92	1.40	3.00	2.80
01+62.88	4.06	1.70	3.13	2.91
02+62.88	4.27	1.60	3.33	3.17
03+62.88	4.56	2.00	3.61	3.41
04+62.88	4.85	2.00	3.90	3.66
05+62.88	5.16	0.50	4.20	3.91
06+62.88	5.47	2.20	4.50	4.15
07+62.88	5.77	0.50	4.79	4.37
08+62.88	6.08	2.50	5.09	4.61
09+62.88	6.40	2.50	5.40	4.86
10+62.88	6.75	2.50	5.74	5.12
11+62.88	7.05	2.80	6.04	5.37
12+62.88	7.22	2.50	6.20	5.63
13+62.88	7.40	3.80	6.37	5.88
14+62.88	7.74	3.00	6.52	6.07
15+62.88	7.92	2.79	6.70	6.19
16+62.88	7.95	3.49	6.89	6.27
17+43.29	8.05	3.66	6.98	6.30
17+62.88	8.07	6.91	7.00	6.32

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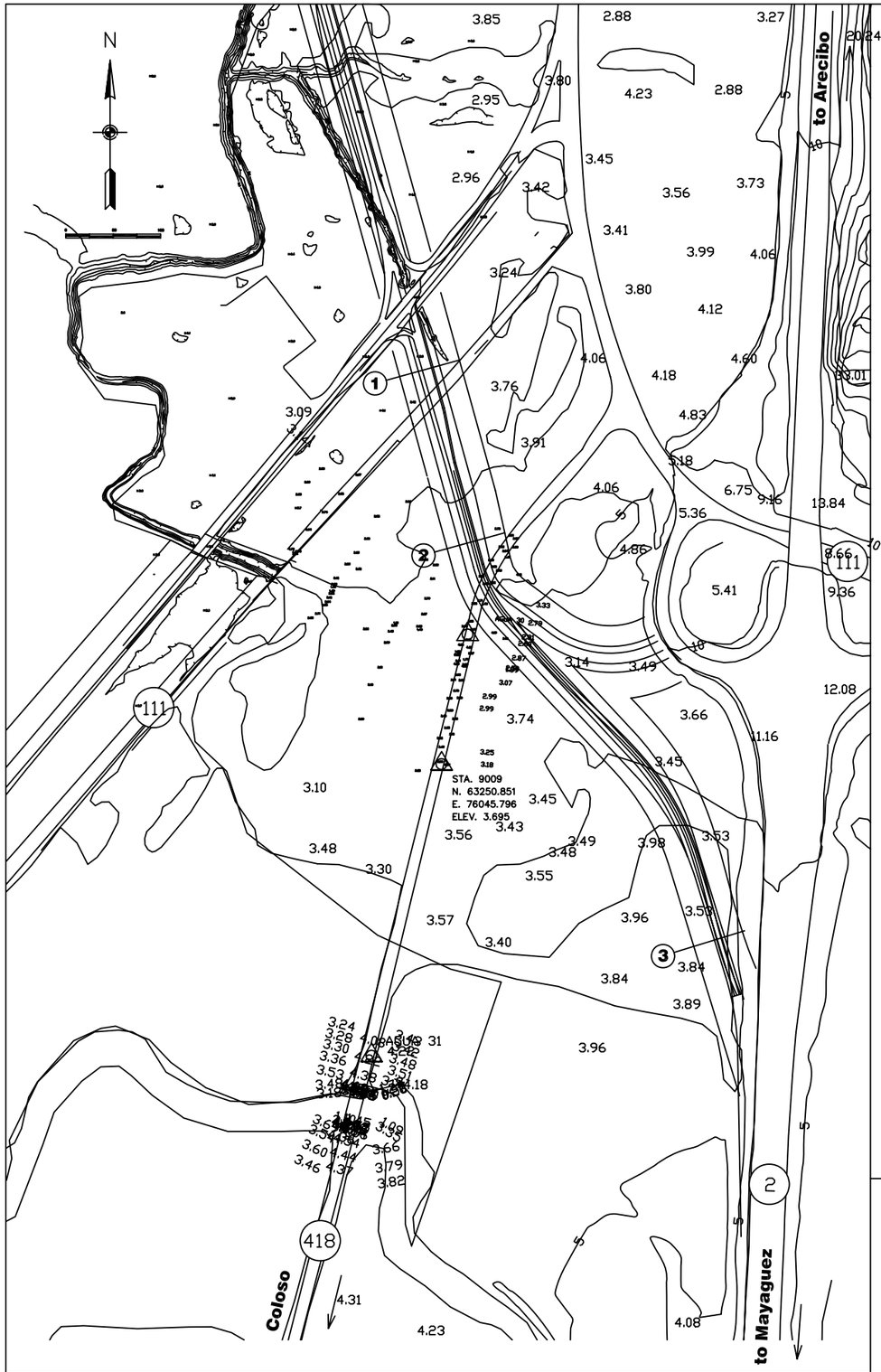
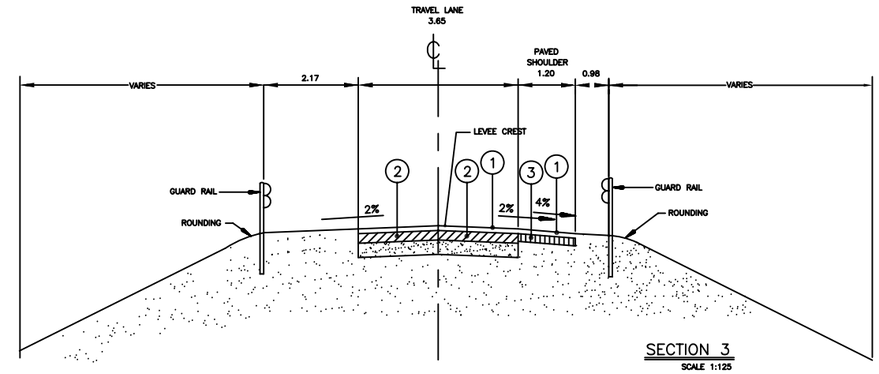
FECHA	REVISION

SCALE
8500

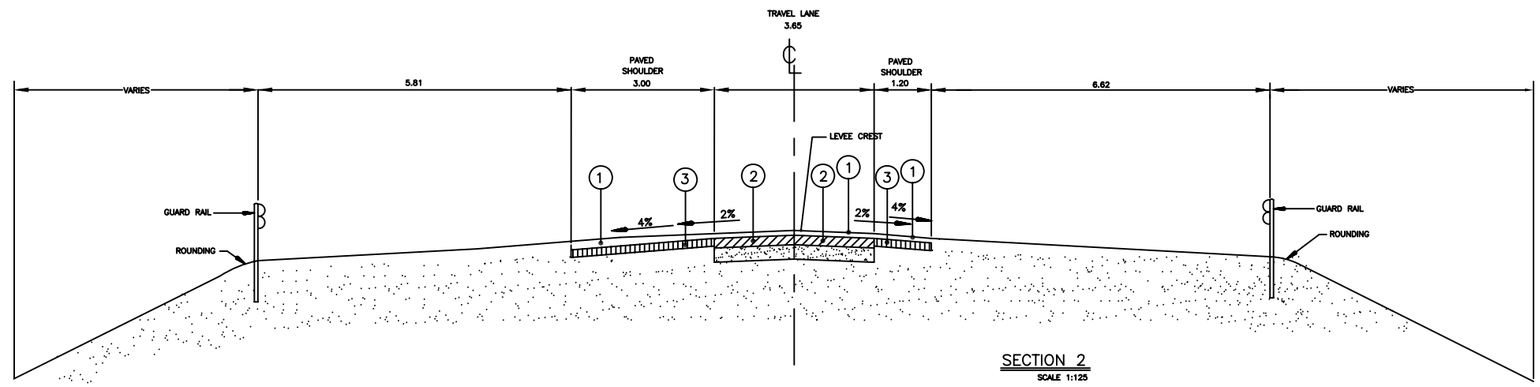
AGUADILLA LEVEE PLAN

FIG. 5B

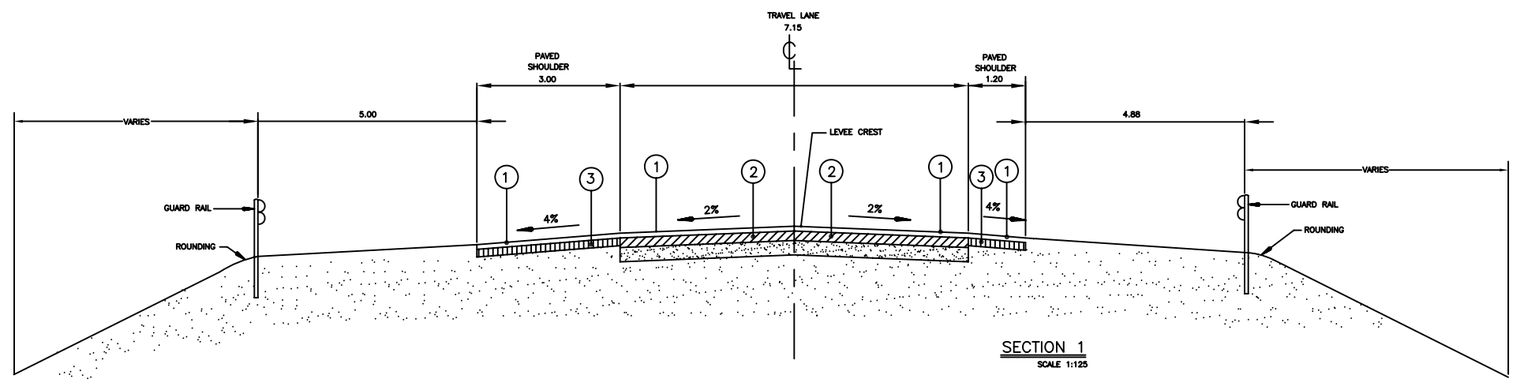




SECTION 3
SCALE 1:125



SECTION 2
SCALE 1:125



SECTION 1
SCALE 1:125

LEGEND

1. 0.05 HOT PLANT MIX BITUMINOUS SURFACE COURSE (MIX TYPE S-1) (75) SPEC. 401.
2. 0.10 HOT PLANT MIX BITUMINOUS BASE COURSE (MIX TYPE B-1) (75) SPEC. 401.
3. 0.08 HOT PLANT MIX BITUMINOUS BASE COURSE (MIX TYPE B-1) (75) SPEC. 401.
4. 0.15 AGGREGATE BASE COURSE CLASS "A", SPEC. 304
5. SELECTED COMPACTED BORROW MATERIAL FOR AGUADILLA LEVEE

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

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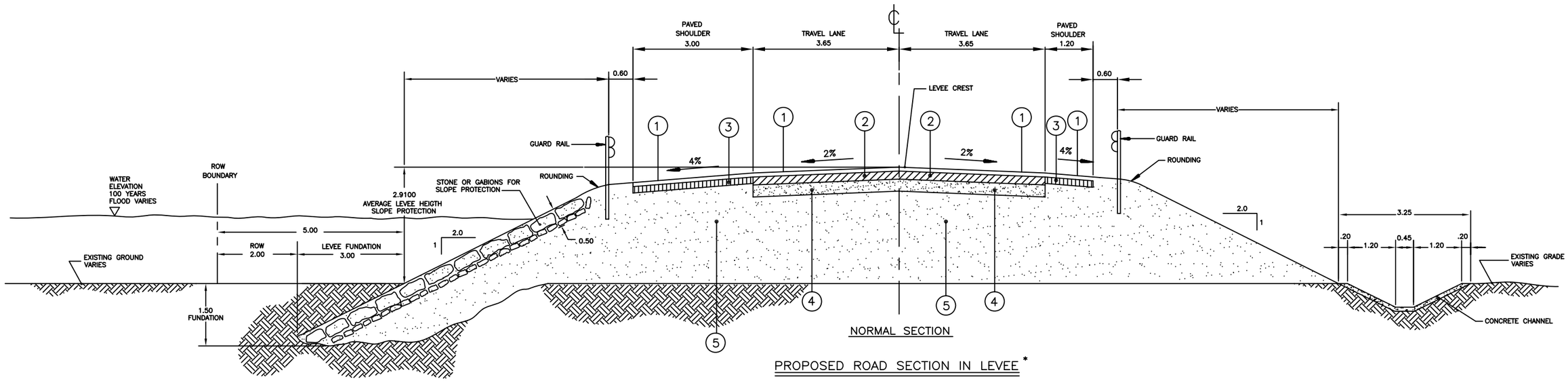
SCALE
1:4000

AGUADILLA LEVEE PLAN
CONNECTION WITH STATE ROAD PR-2

FIG.
5C



NORMAL SECTION

PROPOSED ROAD SECTION IN LEVEE *

Aguadilla Levee

SCALES HOR = 1:100
VERT = 1:500

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION

LEGEND

1. 0.05 HOT PLANT MIX BITUMINOUS SURFACE COURSE (MIX TYPE S–1) (75) SPEC. 401.
2. 0.10 HOT PLANT MIX BITUMINOUS BASE COURSE (MIX TYPE B–1) (75) SPEC. 401.
3. 0.08 HOT PLANT MIX BITUMINOUS BASE COURSE (MIX TYPE B–1) (75) SPEC. 401.
4. 0.15 AGGREGATE BASE COURSE CLASS "A", SPEC. 304
5. SELECTED COMPACTED BORROW MATERIAL FOR AGUADILLA LEVEE

* PROPOSED ROAD TO BE CONSTRUCTED BY OTHERS

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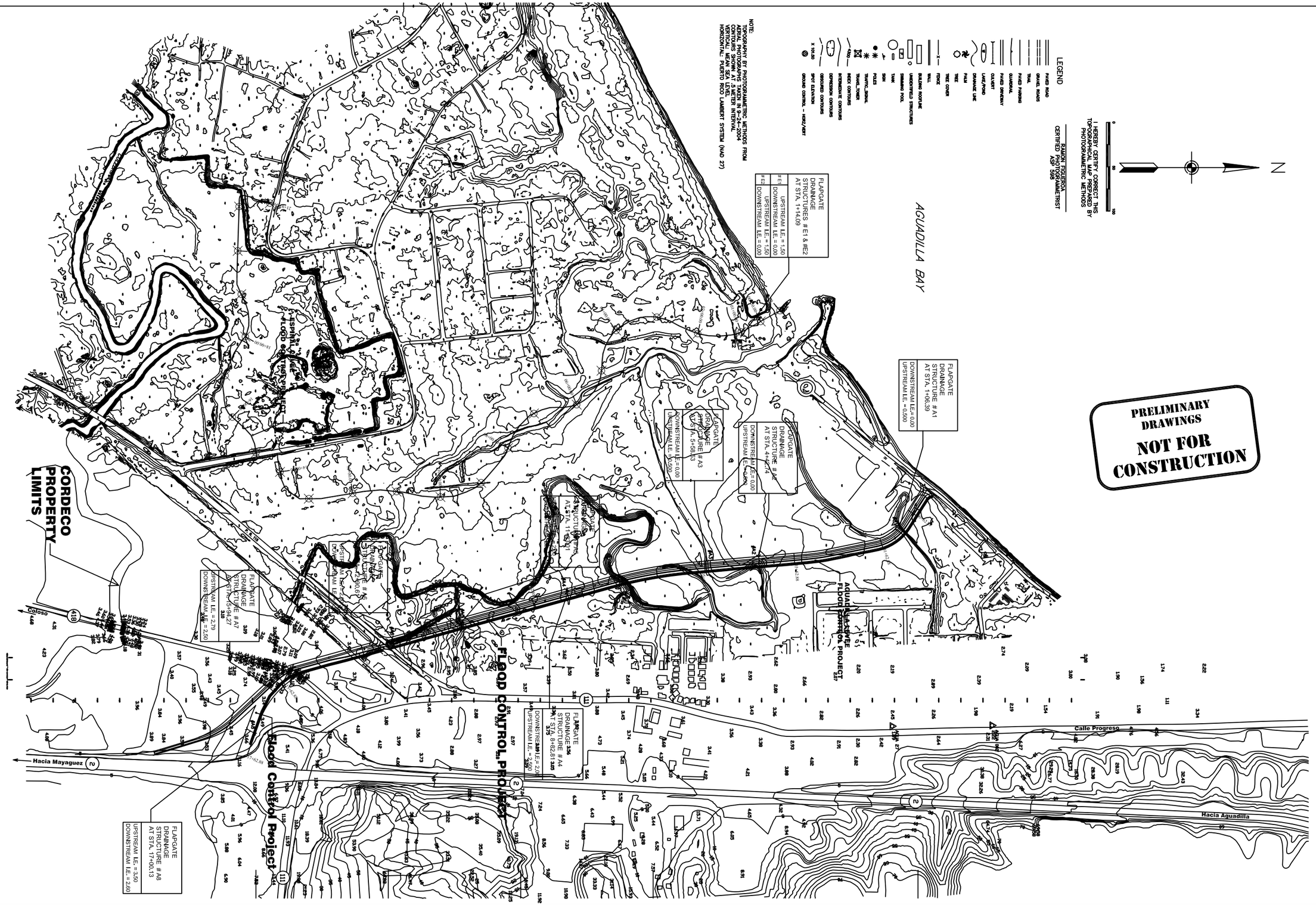
FECHA	REVISION

SCALE 1:100

AGUADILLA LEVEE SECTION WITH PROPOSED ROAD

FIG. 5D



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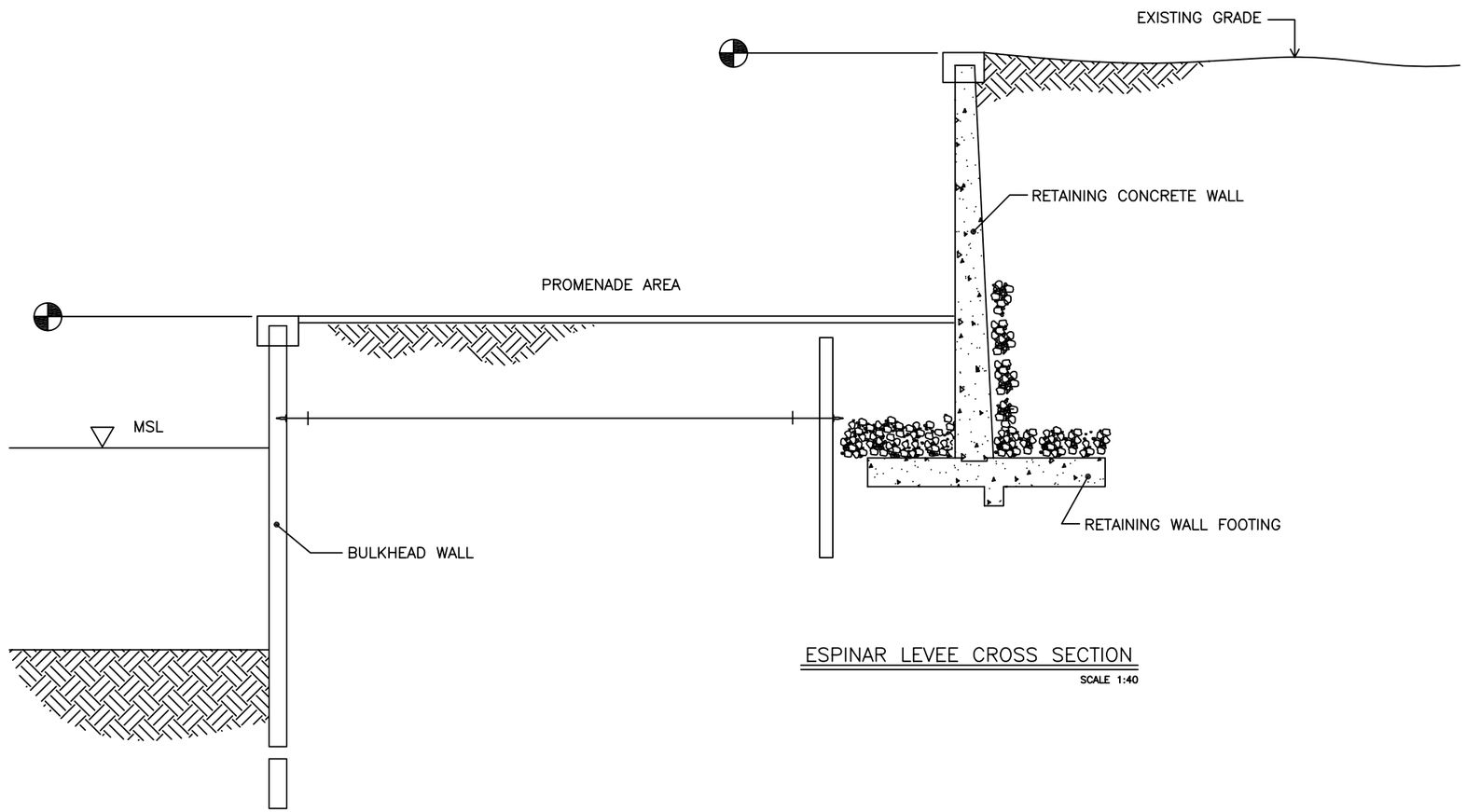
FECHA	REVISION

ESCALA
1:8500

DRAINAGE VALVES LOCATION PLAN

FIG. 5E



ESPINAR LEVEE CROSS SECTION

SCALE 1:40

PRELIMINARY DRAWINGS
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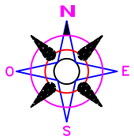
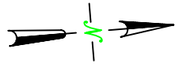
1:85

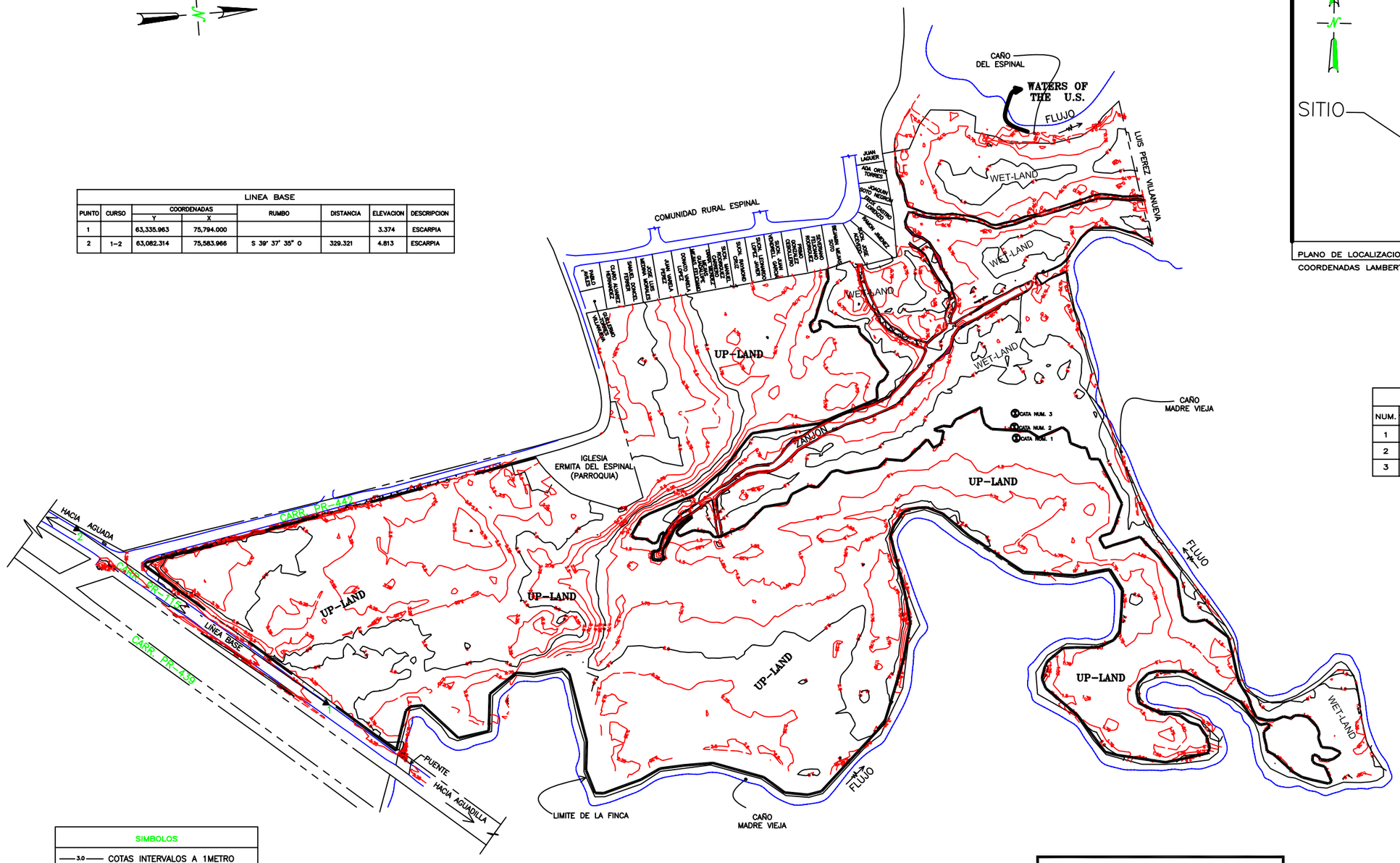
ESPINAR LEVEE CROSS SECTION

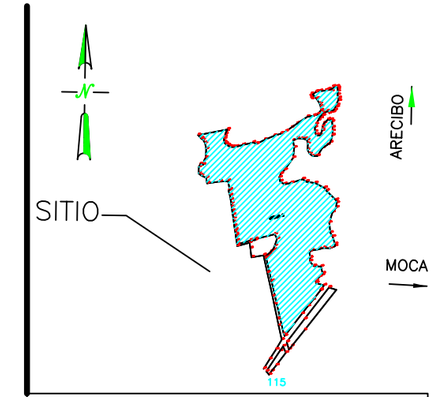
FIG.
5F





LINEA BASE							
PUNTO	CURSO	COORDENADAS		RUMBO	DISTANCIA	ELEVACION	DESCRIPCION
		Y	X				
1		63,335.963	75,794.000			3.374	ESCARPIA
2	1–2	63,082.314	75,583.966	S 39° 37' 35" O	329.321	4.813	ESCARPIA





PLANO DE LOCALIZACION ESCALA 1:2000

COORDENADAS LAMBERT Y = 63,362 X = 75,517

CATAS		
NUM.	COORDENADAS	
	X	Y
1	75569.222	64104.332
2	75557.181	64103.245
3	75542.413	64105.286

SIMBOLOS
3.0 COTAS INTERVALOS A 1METRO
0.25 COTAS INTERVALOS A 0.25 METRO
ZANJON
LIMITE DE FINCA
LIMITE DE BERMA
LIMITE DE EXTRACCION ACTUAL

PREPARADO POR: _____
ING. ANTONIO HERNANDEZ VIRELLA
LIC. 3401

FECHA: 18 DE SEPTIEMBRE DE 2003

ANTONIO HERNANDEZ VIRELLA
INGENIERO LICENCIADO
LIC. 3401
PUERTO RICO

WORK	DATE	BY
DESIGN		
DRAWING		
TRACED		
CHECK		
FINAL CHECK		

FILE:

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CONSULTANTS AND TRAINERS
PO BOX 19895, SAN JUAN, PR 00910

DIA–P Discovery Bay Resort & Marina
CARRETERA ESTATAL PR–442 KM. 0.5
BO. ESPINAR, AGUADA, PUERTO RICO

SCALE **NO A ESCALA**

MAPA DE TOPOGRAFIA

FIG. 7