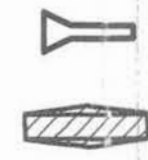
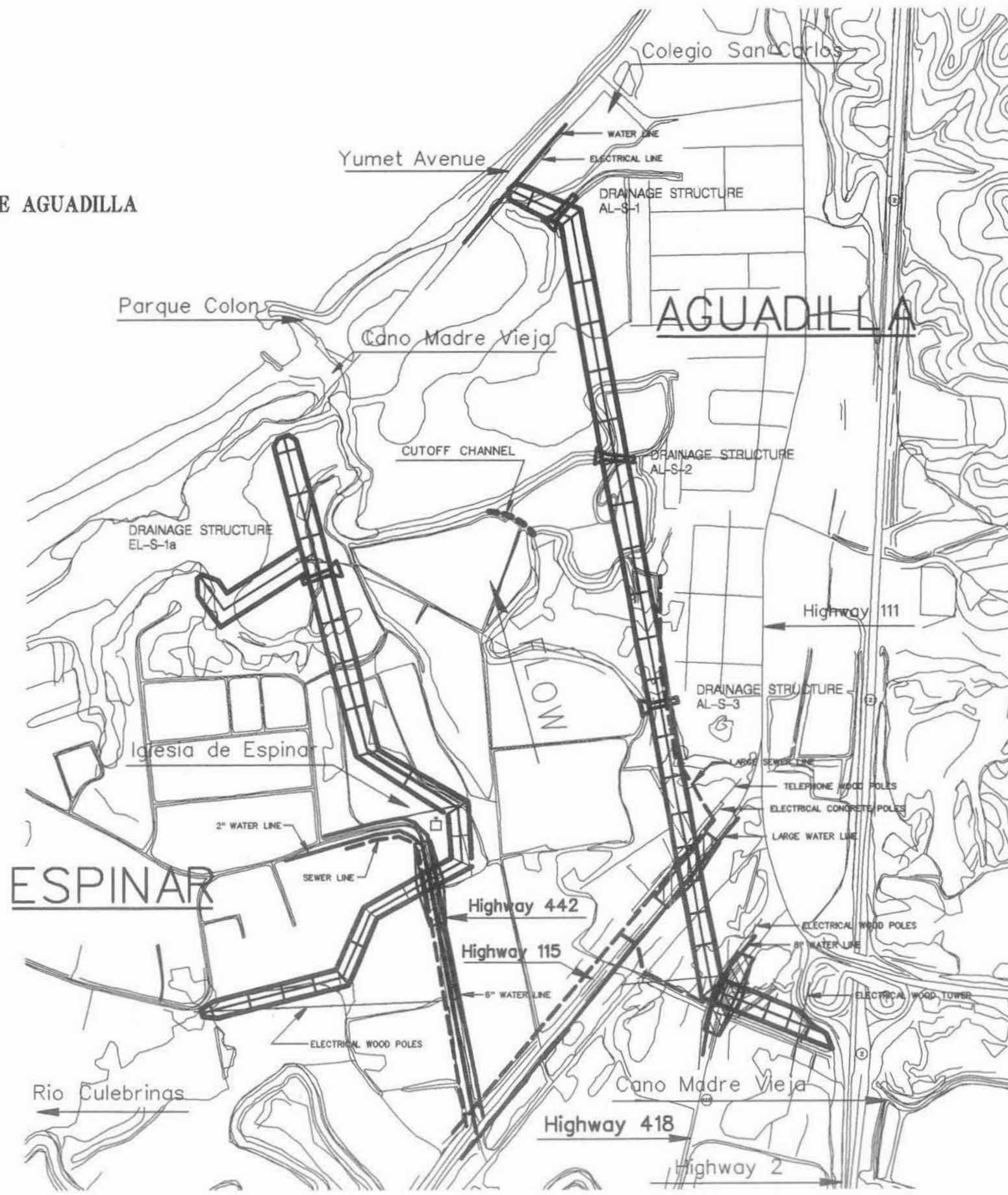


BAHIA DE AGUADILLA



CMP DRAINAGE STRUCTURES
ROAD RAMP ACROSS LEVEE



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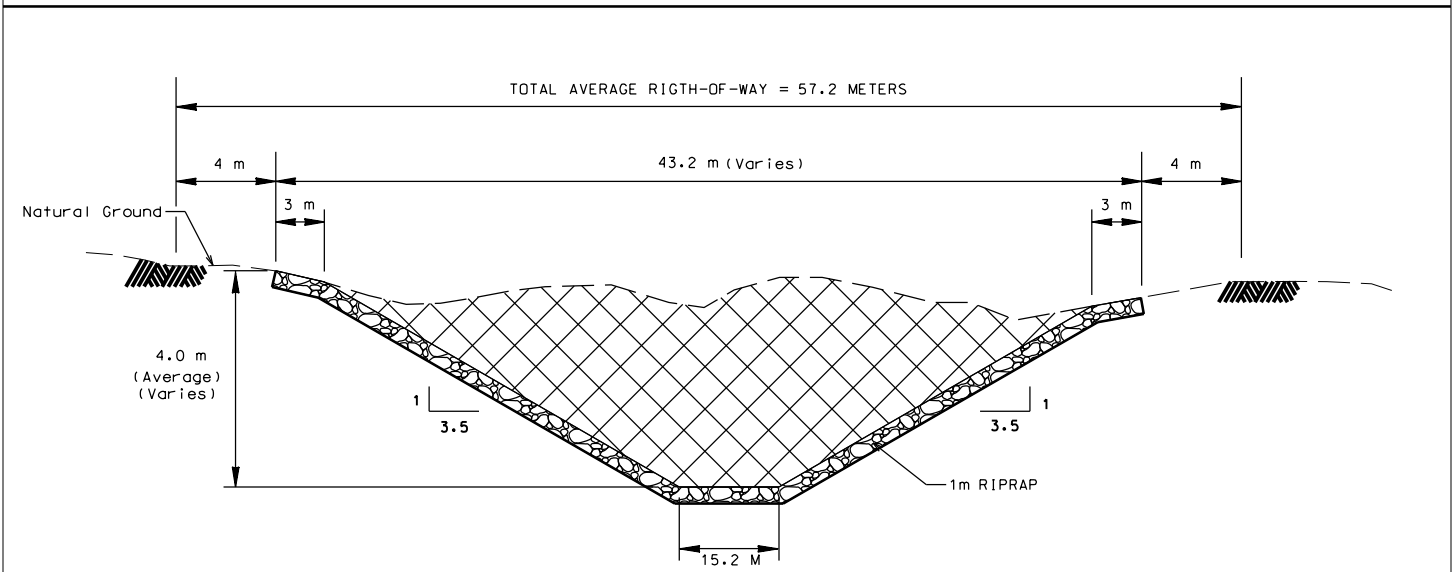
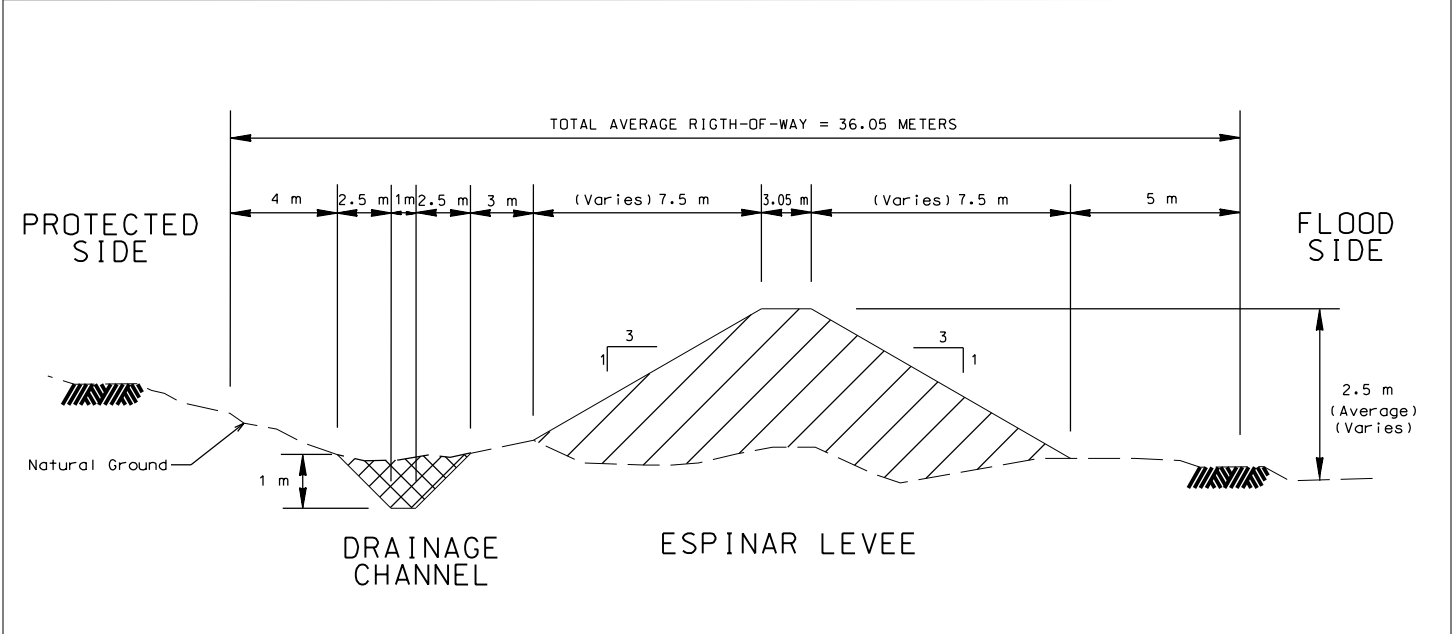
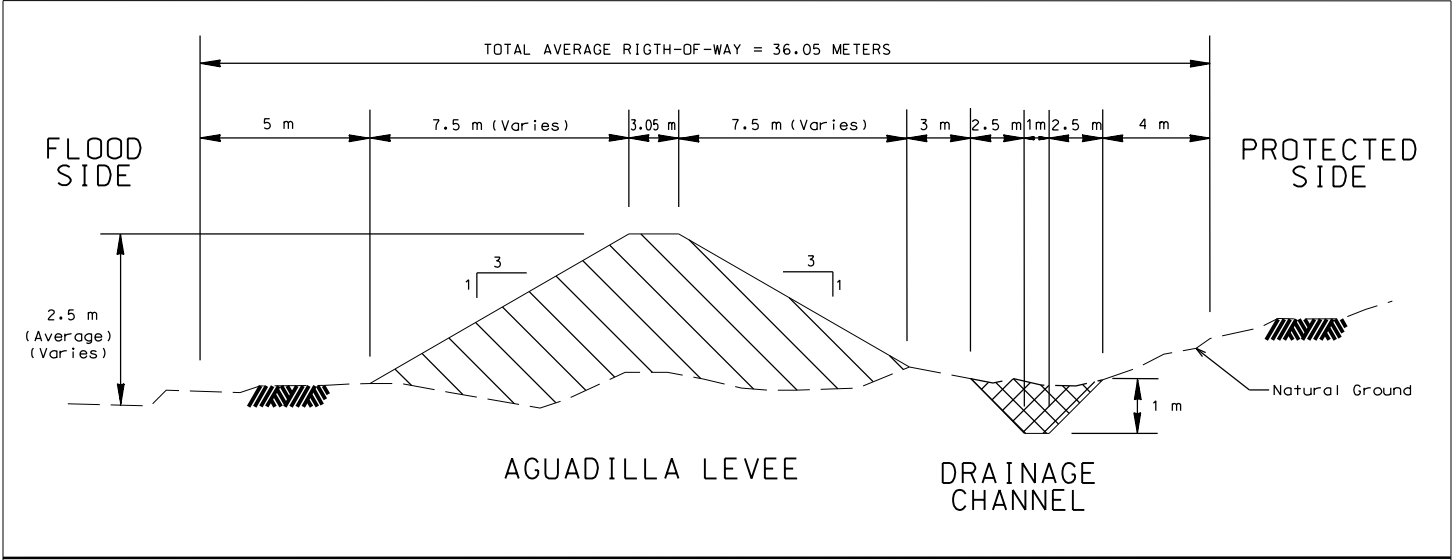
DESIGN ENG.:	
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DWN. BY:	C&D. BY:
REH	

RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
DETAILED PROJECT REPORT

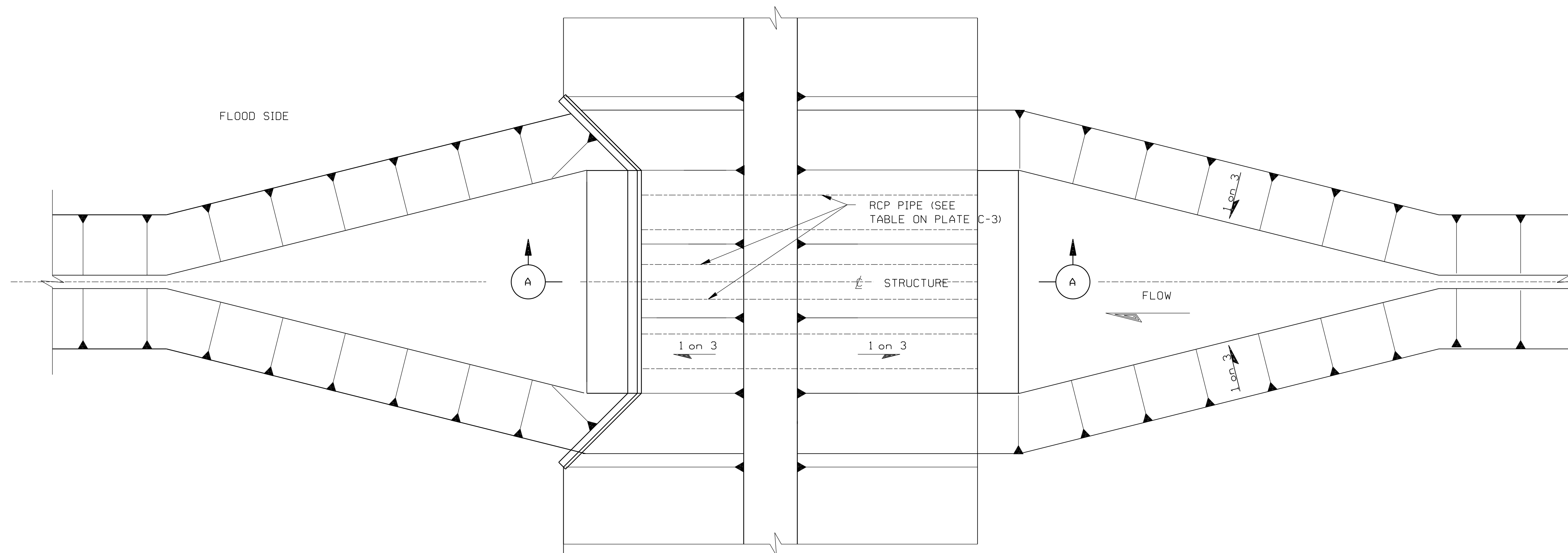
PROJECT PLAN
ROAD RAMPS / UTILITIES RELOCATIONS

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

NOT TO SCALE DATE: NOVEMBER 1999



DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA		
DETAILED PROJECT REPORT RIO CULEBRINAS AGUADA\AGUADILLA, PUERTO RICO		
TYPICAL CROSS SECTIONS		
INV. NO.	SIZE	DRAWING NO.
DATED:		FIGURE 9
SCALE: NTS	DATED: 03-25-02	SHEET 1 OF 1



SITE PLAN

RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
 DETAILED PROJECT REPORT

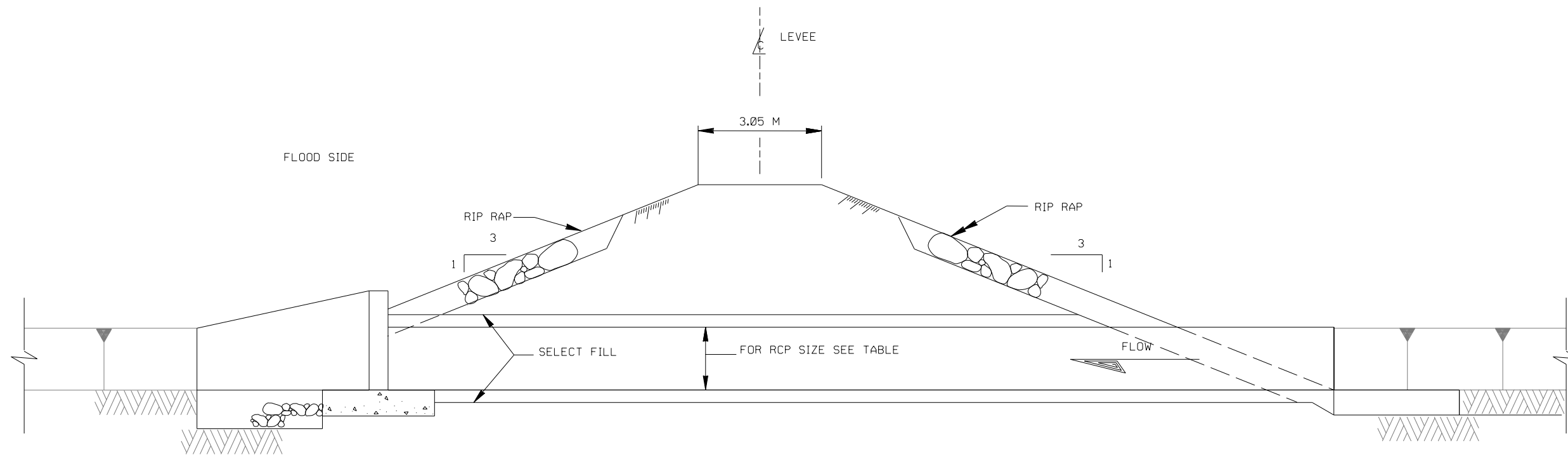
**AQUADILLIA
 CONTROL STRUCTURES**

SITE PLAN

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

NOT TO SCALE

DESIGN ENG.:	
J.D.H.	
DWN BY:	CKD BY:
D.W.P.	



SECTION A-A

STRUCTURE	LEVEE STATION	NO RCP	RCP SIZE (METERS)	RCP SIZE (INCHES)	GATE TYPE	CHANNEL EL. (METERS)	CULVERT INVERT (METERS)	TOP OF LEVEE (METERS)	TOTAL LENGTH OF PIPE (METERS)
AL-S-1	1+39.5	3	1.524	60	FLAP	-0.3	-0.3	3.67	96.7
AL-S-2	6+05.5	6	1.524	60	FLAP	-0.3	-0.3	4.37	223.7
AL-S-3	10+52.9	3	1.524	60	FLAP	-0.3	-0.3	4.68	118.5
EL-S-1A	2+50.0	2	1.524	60	FLAP	-0.3	-0.3	4.40	75.0

NOTE:
HEADWALL DISTANCE DOES NOT
INCLUDE WINGWALL DISTANCE

DESIGN ENG.:	
J.D.H.	
DWN BY:	CKD BY:
J.D.H.	

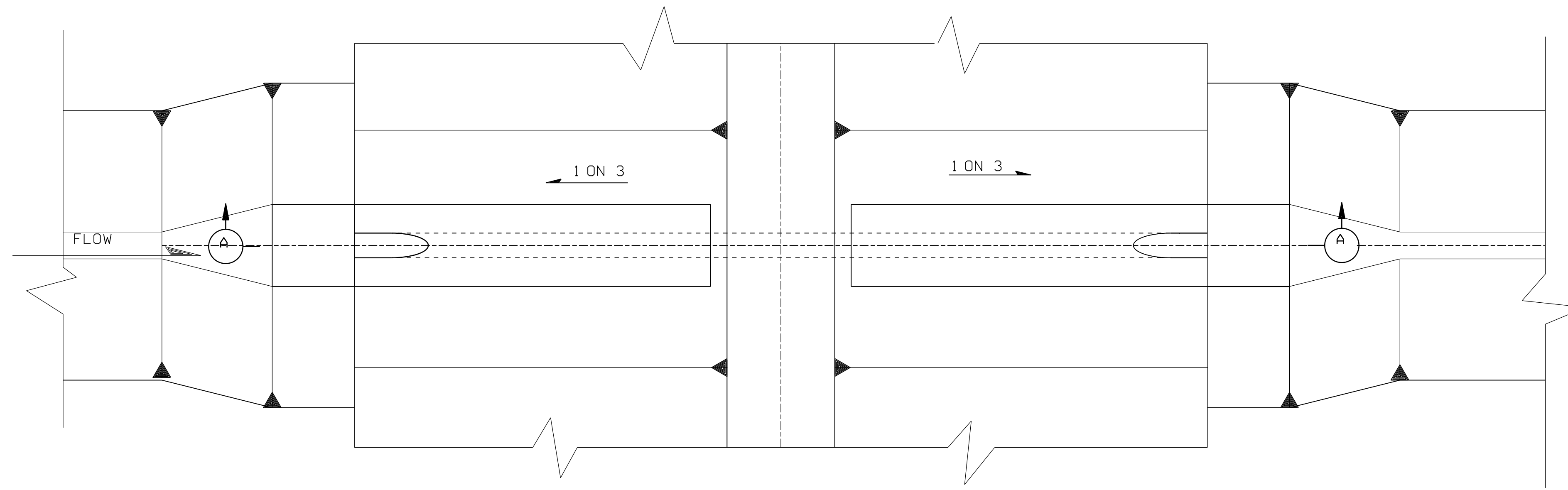
RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
DETAILED PROJECT REPORT

AGUADILLA /ESPINAR
CONTROL STRUCTURE

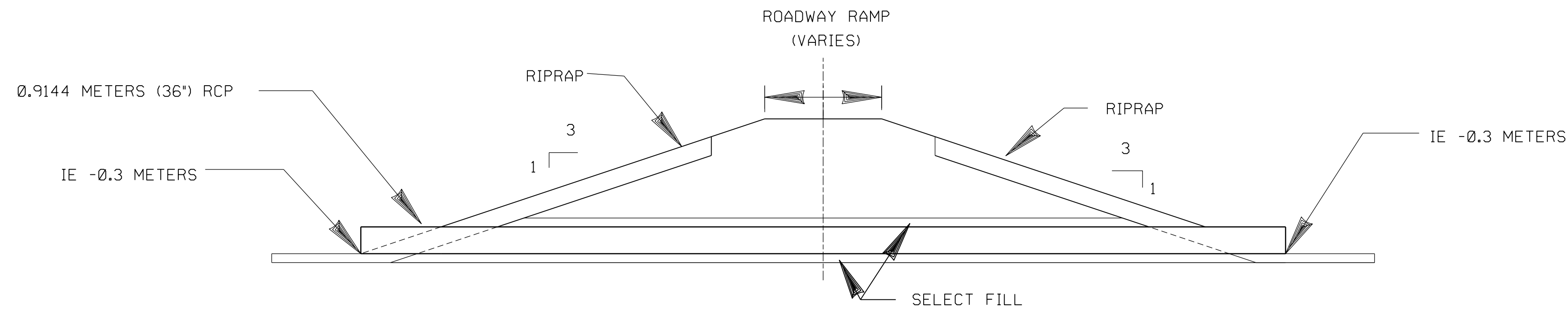
TYPICAL SECTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

NOT TO SCALE



TYPICAL 0.91 METER (36") RCP CULVERT PLAN



SECTION

RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
 DETAILED PROJECT REPORT

TYPICAL 0.91 METER (36") RCP
 CULVERT STRUCTURE
 SITE PLAN AND SECTION

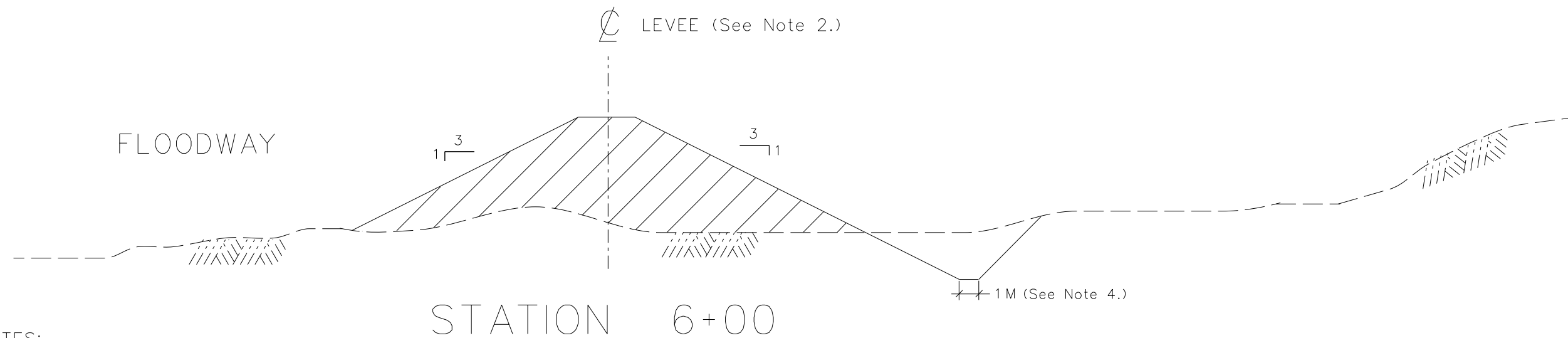
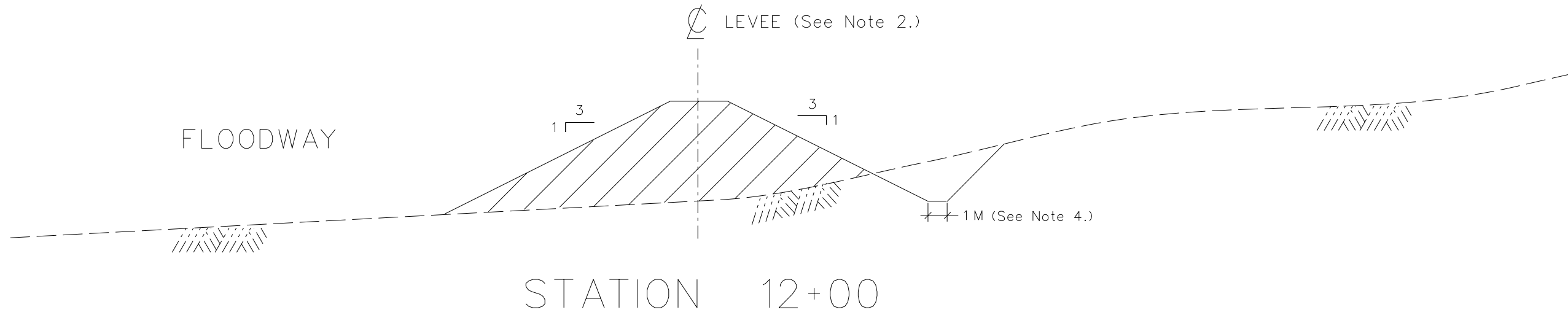
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 JACKSONVILLE, FLORIDA

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J.D.H.	
DWN BY:	CKD BY:

WEST

EAST



NOTES:

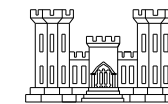
1. DRAINAGE STRUCTURES WOULD BE PROVIDED THROUGH THE LEVEES AT APPROXIMATELY AS FOLLOWS:

- AL-S-1 AT STATION 1+39.5 (3-60" CMP W/ FLAPGATES)
- AL-S-2 AT STATION 6+05.5 (6-CMP" CMP W/ FLAPGATES)
- AL-S-3 AT STATION 10+52.9 (3-60" CMP W/ FLAPGATES)

2. LEVEE CROWN WIDTH IS 3 METERS. ELEVATIONS AT STATION POINTS ALONG THE LEVEE ARE PROVIDED IN APPENDIX A.

3. ROAD RAMPS WOULD BE CONSTRUCTED AT PR HIGHWAYS 115 AND 418, AND LOW-FLOW DRAINAGE CULVERTS WOULD BE INSTALLED ON THE PROECTED SIDE OF THE LEVEE.

4. INVERT ELEVATION VARIES. REFER TO TABLE A-9 IN APPENDIX A.



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RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
DETAILED PROJECT REPORT

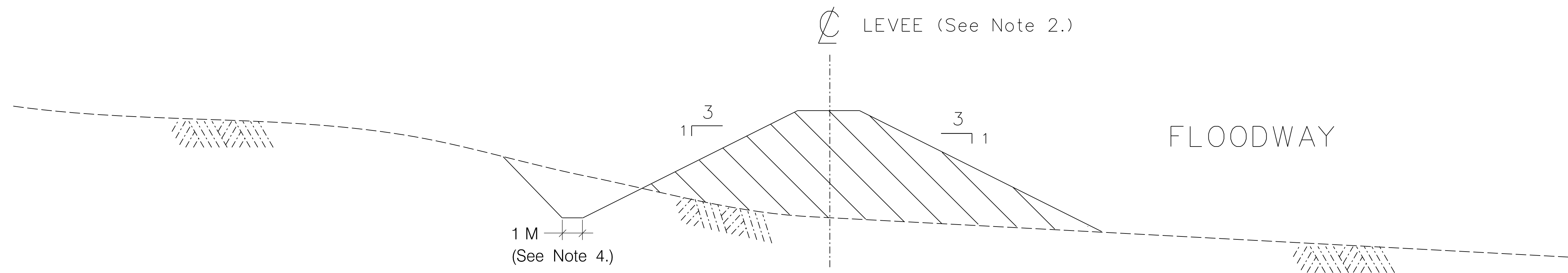
TYPICAL SECTIONS
AGUADILLA LEVEE

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

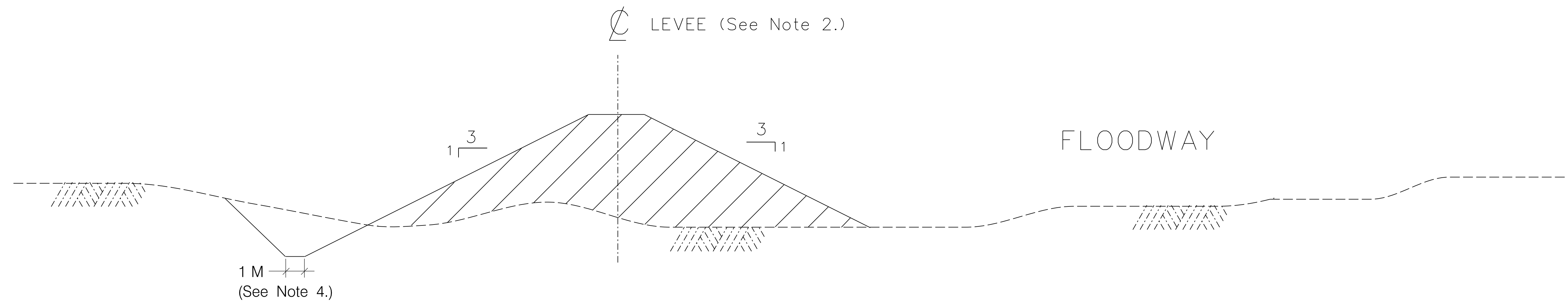
NOT TO SCALE

WEST

EAST



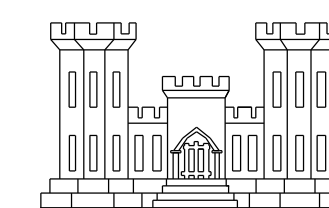
STATION 10+00



STATION 5+00

NOTES:

1. A DRAINAGE STRUCTURE EL-S-1 WOULD BE PLACED THROUGH THE LEVEE AT APPROXIMATELY STATION 1+10.8. STRUCTURE WOULD CONSIST OF 2-60" CMP WITH FLAPGATES AND 1-24" CMP WITH SLIDEGATE.
2. LEVEE CROWN WIDTH IS 3 METERS. ELEVATIONS AT STATION POINTS ALONG THE LEVEE ARE PROVIDED IN APPENDIX A.
3. A ROAD RAMP WOULD BE CONSTRUCTED AT PR HIGHWAY 442, AND A LOW-FLOW DRAINAGE CULVERT WOULD BE INSTALLED ON THE PROTECTED SIDE ON THE LEVEE.
4. INVERT ELEVATION VARIES. REFER TO TABLE A-9 IN APPENDIX A.



RIO CULEBRINAS @ AGUADA /AGUADILLA, PUERTO RICO
 DETAILED PROJECT REPORT

TYPICAL SECTIONS

ESPINAR LEVEE

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

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REH	