

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(54)	1989	24	127

STRUCTURES			PIPE CULVERTS		ESTIMATED QUANTITIES																						REMARKS				
INLET NUMBER	TYPE	STATION	ITEM NO.		206	503	G02	G03	G03	G03	G04	G04	G11																		
			FROM	TO	2020	0020	1020	0010	2067	2002	2310	2330	0100																		
					STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	CLASS A CONCRETE FOR DRAINAGE SYSTEM	REINFORCING STEEL FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	24-INCH SPIRAL RIB METAL PIPE SHEET THICKNESS .0075 INCH	24-INCH REINFORCED CONCRETE PIPE RIB THICKNESS .0075 INCH	TYPE A-9 STEEL FRAME AND GRATE	TYPE GIG4 STEEL FRAME AND GRATE	HAND- LAID RIPRAP																		
UNIT USE			CY	CY	L.S.	CY	LF	LF		EA	EA	CY																			
	TYPE I OUTLET	RAMP M 18+35 @ (% 45' RT.)			0.3	0.3	-	-	-	-	-	-	-																		
A-1	D.I. TYPE II	H-3 337+04 @ (% 3.1' RT.)	RAMP M 18+35 @ (% 45' RT.)	H-3 337+04 @ (% 3.1' RT.)	171.1	3.1	(260)	11.0	-	144	2	-	-																		
A-2	D.I. TYPE II	H-3 337+30 @ (% 1' RT.)	H-3 336+90 @ (% 3' RT.)	H-3 337+30 @ (% 1' RT.)	30.0	3.1	(230)	1.0	-	26	2	-	-																		
	TYPE I OUTLET	RAMP M 17+00 @ (% 45' RT.)			0.3	0.3	-	-	-	-	-	-	-																		
B-1	D.I. TYPE I	H-3 338+20 @ (% 2.47' RT.)	RAMP M 17+00 @ (% 45' RT.)	H-3 338+20 @ (% 2.47' RT.)	140.0	2.2	(240)	10.0	-	128	1	-	-																		
B-2	D.I. TYPE I	H-3 341+20 @ (% 2.47' RT.)	H-3 338+20 @ (% 2.47' RT.)	H-3 341+20 @ (% 2.47' RT.)	73.1	2.2	(270)	17.9	-	230	1	-	-																		
B-3	D.I. TYPE I	H-3 343+60 @ (% 2.47' RT.)	H-3 341+20 @ (% 2.47' RT.)	H-3 343+60 @ (% 2.47' RT.)	132.2	2.2	(270)	18.6	-	240	1	-	-																		
B-4	D.I. TYPE I	H-3 345+50 @ (% 2.47' RT.)	H-3 343+60 @ (% 2.47' RT.)	H-3 345+50 @ (% 2.47' RT.)	106.3	2.2	(240)	14.7	-	190	1	-	-																		
D-0	TYPE II OUTLET STRUCT	RAMP N 42+11 @ (% 40' RT.)			-	-	-	-	-	-	-	-	11.9																		
D-1	D.I. TYPE GIG4	RAMP N 41+72 @ (% 25' RT.)	RAMP N 41+99 @ (% 25' RT.)	RAMP N 41+72 @ (% 25' RT.)	28.8	2.8	(350)	2.0	-	25	-	1	-																		
D-2	D.I. TYPE GIG4	RAMP N 41+99 @ (% 25' RT.)	RAMP N 41+99 @ (% 40' RT.)	RAMP N 41+99 @ (% 25' RT.)	21.6	2.8	(410)	1.1	-	15	-	1	-																		
D-3	D.I. TYPE GIG4	RAMP N 42+26 @ (% 25' RT.)	RAMP N 41+99 @ (% 25' RT.)	RAMP N 42+36 @ (% 25' RT.)	28.8	2.8	(350)	2.0	-	25	-	1	-																		
E-0	TYPE II OUTLET STRUCT	RAMP N 38+26 @ (% 53' RT.)			-	-	-	-	-	-	-	-	28.1																		
E-1	D.I. TYPE GIG4	RAMP N 38+26 @ (% 25' RT.)	RAMP N 38+26 @ (% 25' RT.)	RAMP N 38+26 @ (% 25' RT.)	42.0	6.0	(770)	2.1	30	28	-	1	-																		
SUBTOTAL SHEET																															
TOTAL					774.5	30.0	(3390)	80.4	30	1051	8	4	40																		
ROUNDED TOTAL					775	30	(3400)	85	30	1055	8	4	40																		
																									2/2/89	REVISED D.I. "E-1" AND "A-2" QUANTITIES, DELETED ITEM G03, 2067 AND MOVED D.I. "A-1"					
																									DATE	REVISION					

DATE
SURVEY PLOTTED BY
PLAN
DESIGNED BY
NOTE BOOK
QUANTITIES BY
CHECKED BY



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Charles A. Kawakoko

2/2/89
REVISED D.I. E-1 AND "A-2"
QUANTITIES DELETED ITEM
G03 2067 AND MOVED D.I. "A-1"

DATE
REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**DRAINAGE ESTIMATED
QUANTITIES**
INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(54)
SCALE: NONE
DATE: SEPT. 1988
SHEET NO. 1 OF 1 SHEETS