DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	85	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM CU YD	603 0010 BED COURSE MATERIAL FOR CULVERT CU YD		603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III LIN FT	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III LIN FT	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III LIN FT	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III LIN FT	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III LIN FT	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV LIN FT	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) LIN FT	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) LIN FT	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) LIN FT
		DRAIN LINES A, A1, A2, A3 & A4																		
D-1	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)																		
		30" DRAIN LINE A	81	8				70												
	CB A1	CATCH BASIN, TYPE "A1"																		
		30" DRAIN LINE A	143	12				114												
	SDMH A2	DRAIN MANHOLE, TYPE "B"																		
		24" DRAIN LINE A	60	4										44						
	CB A3	CATCH BASIN, TYPE "B1"																		
		24" DRAIN LINE A	112	11										116						
	CB A4	CATCH BASIN, TYPE "D1"																		
		24" DRAIN LINE A	117	11										114						
	CB A5	CATCH BASIN, TYPE "D1"																		
		24" BRANCH DRAIN LINE A1	82	7										70						
	GDI A6	GRATED DROP INLET, TYPE "61614"																		
	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)																		
		30" DRAIN LINE A	96	8				78												
	CB A7	CATCH BASIN, TYPE "A1"																		
		30" DRAIN LINE A2	215	21							196									
	SDMH A8	DRAIN MANHOLE, TYPE "B"																		
		30" DRAIN LINE A2	140	15							136									
	CB A9	CATCH BASIN, TYPE "A1"																		
		30" DRAIN LINE A2	110	11							92									
D-2	CB A10	CATCH BASIN, TYPE "D1"																		
		24" DRAIN LINE A2	85	8												86				
	CB A11	CATCH BASIN, TYPE "D"																		
		24" DRAIN LINE A2	60	4												46				
	CB A12	CATCH BASIN, TYPE "D"																		
		18" BRANCH DRAIN LINE A3	46	5								60								
	CB A13	CATCH BASIN, TYPE "D"																		
		18" DRAIN LINE A3	51	4								46								
	CB A14	CATCH BASIN, TYPE "D"																		
		8" DRAIN LINE																	6	
	GDI A	GRATED DROP INLET, TYPE "61214"																		
		18" BRANCH DRAIN LINE A4	41	4											50					
	CB A15	CATCH BASIN, TYPE "D1"																		

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT		604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET EA	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET EA	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET EA	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET EA	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET EA	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET EA	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 EA	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 EA	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 EA	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 EA	604 5450 SPECIAL DRAIN INLET, C2 EA	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET EA	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET EA	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET EA	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET EA	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET EA	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET EA	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET EA	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET EA	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET EA	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET EA	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET EA	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET EA
		DRAIN LINES A, A1, A2, A3 & A4																																			
D-1	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)																																			
		30" DRAIN LINE A																																			
	CB A1	CATCH BASIN, TYPE "A1"																										1										
		30" DRAIN LINE A																																			
	SDMH A2	DRAIN MANHOLE, TYPE "B"					1																														
		24" DRAIN LINE A																																			
	CB A3	CATCH BASIN, TYPE "B1"																												1								
		24" DRAIN LINE A																																			
	CB A4	CATCH BASIN, TYPE "D1"																																		1	
		24" DRAIN LINE A																																			
	CB A5	CATCH BASIN, TYPE "D1"																																		1	
		24" BRANCH DRAIN LINE A1																																			
	GDI A6	GRATED DROP INLET, TYPE "61614"																																			
	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)																																			
		30" DRAIN LINE A																																			
	CB A7	CATCH BASIN, TYPE "A1"																										1										
		30" DRAIN LINE A2																																			
	SDMH A8	DRAIN MANHOLE, TYPE "B"					1																														
		30" DRAIN LINE A2																																			
	CB A9	CATCH BASIN, TYPE "A1"																									1											
		30" DRAIN LINE A2																																			
D-2	CB A10	CATCH BASIN, TYPE "D1"																																	1		
		24" DRAIN LINE A2																																			
	CB A11	CATCH BASIN, TYPE "D"																				1															
		24" DRAIN LINE A2																																			
	CB A12	CATCH BASIN, TYPE "D"																								1											
		18" BRANCH DRAIN LINE A3																																			
	CB A13	CATCH BASIN, TYPE "D"																			1																
		18" DRAIN LINE A3																																			
	CB A14	CATCH BASIN, TYPE "D"																				1															
		8" DRAIN LINE																																			
	GDI A	GRATED DROP INLET, TYPE "61214"																																			
		18" BRANCH DRAIN LINE A4																																			
	CB A15	CATCH BASIN, TYPE "D1"																																	1	~~1~~	

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	86	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
		DRAIN LINES A, A1, A2, A3 & A4																			
D-1	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)										1									
		30" DRAIN LINE A																			
	CB A1	CATCH BASIN, TYPE "A1"																			
		30" DRAIN LINE A																			
	SDMH A2	DRAIN MANHOLE, TYPE "B"																			
		24" DRAIN LINE A																			
	CB A3	CATCH BASIN, TYPE "B1"																			
		24" DRAIN LINE A																			
	CB A4	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE A																			
	CB A5	CATCH BASIN, TYPE "D1"																			
		24" BRANCH DRAIN LINE A1																			
	GDI A6	GRATED DROP INLET, TYPE "61614"					1														
	EXIST 30	CONNECT TO EXIST 30" RCP (CONC. COLLAR)										1									
		30" DRAIN LINE A																			
	CB A7	CATCH BASIN, TYPE "A1"																			
		30" DRAIN LINE A2																			
	SDMH A8	DRAIN MANHOLE, TYPE "B"																			
		30" DRAIN LINE A2																			
	CB A9	CATCH BASIN, TYPE "A1"																			
		30" DRAIN LINE A2																			
D-2	CB A10	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE A2																			
	CB A11	CATCH BASIN, TYPE "D"																			
		24" DRAIN LINE A2																			
	CB A12	CATCH BASIN, TYPE "D"																			
		18" BRANCH DRAIN LINE A3																			
	CB A13	CATCH BASIN, TYPE "D"																			
		18" DRAIN LINE A3																			
	CB A14	CATCH BASIN, TYPE "D"																			
		8" DRAIN LINE																			
	GDI A	GRATED DROP INLET, TYPE "61214"																			
		18" BRANCH DRAIN LINE A4																			
	CB A15	CATCH BASIN, TYPE "D1"																			

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DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	87	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	206 2020	603 0010		603 1006	603 1010	603 1012	603 1046	603 1048	603 1050	603 1052	603 9020	603 9022	603 9030	603 9032	603 9034	603 9520	603 9522	603 9524
			STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT		18-INCH REINFORCED CONCRETE PIPE, CLASS III	24-INCH REINFORCED CONCRETE PIPE, CLASS III	30-INCH REINFORCED CONCRETE PIPE, CLASS III	18-INCH REINFORCED CONCRETE PIPE, CLASS IV	24-INCH REINFORCED CONCRETE PIPE, CLASS IV	30-INCH REINFORCED CONCRETE PIPE, CLASS IV	36-INCH REINFORCED CONCRETE PIPE, CLASS IV	18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III	24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III	18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV	24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV	30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV	6-INCH POLYVINYL CHLORIDE (DR=14)	8-INCH POLYVINYL CHLORIDE (DR=14)	12-INCH POLYVINYL CHLORIDE (DR=14)
		DESCRIPTION/UNIT	CU YD	CU YD		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
		SUB-TOTAL																		
		DRAIN LINES: A, A1, A2, A3 & A4	1439	135				262			424		106	344	50	132			6	
		DRAIN LINES: B, B1, B2, B3, B4 & B5																		
D-15	OUTLET	DRAINAGE OUTLET																		
		36" DRAIN LINE B	182	23								192								
	SDMH B1	DRAIN MANHOLE, TYPE "C"																		
		36" DRAIN LINE B	63	5								46								
	SDMH B2	DRAIN MANHOLE, TYPE "C"																		
		36" DRAIN LINE B	113	10								88								
D-3	SDMH B3	DRAIN MANHOLE, TYPE "B"																		
		30" DRAIN LINE B	72	5													42			
	SDMH B4	DRAIN MANHOLE, TYPE "B"																		
		24" DRAIN LINE B	73	5												56				
	CB B5	CATCH BASIN, TYPE "A1"																		
		18" DRAIN LINE B	89	10											112					
	CB B7	CATCH BASIN, TYPE "C1"																		
		18" DRAIN LINE B	66	6									72							
	SDMH B16	DRAIN MANHOLE, TYPE "A"																		
		6" DRAIN LINE B																10		
	~~TD B17~~	~~ACO TRENCH DRAIN~~																		
		12" DRAIN LINE B	84	4																49
	GDI B18	GRATED DROP INLET, TYPE "61614"																		
		12" DRAIN LINE B	38	3																32
	GDI B19	GRATED DROP INLET, TYPE "61614"																		
		24" BRANCH DRAIN LINE B1	67	2												20				
	CB B6	GRATED DROP INLET, TYPE "61614"																		
		24" BRANCH DRAIN LINE B2	56	4										44						
	CB B8	CATCH BASIN, TYPE "D1"																		
		24" DRAIN LINE B2	110	9										92						
	CB B9	CATCH BASIN, TYPE "D1"																		
		24" DRAIN LINE B2	194	19										194						
D-2	CB B10	GRATED DROP INLET, TYPE "F"																		
		24" DRAIN LINE B2	139	14										138						
	CB B11	GRATED DROP INLET, TYPE "F"																		
		24" BRANCH DRAIN LINE B2	152	14										146						
D-3	CB B14	GRATED DROP INLET, TYPE "F"																		

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 5110	604 5112	604 5114	604 5210	604 5310	604 5314	604 5410	604 5420	604 5430	604 5440	604 5450	604 6110	604 6210	604 6220	604 6230	604 6310	604 6320	604 6330	604 6410	604 6420	604 6430	604 6440	604 6450	604 6460	604 6510	604 6520	604 6610	604 6620	604 6630	604 6640	604 6710	604 6720	604 6730	604 6810	604 6820	604 6830
			TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET	TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET	TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET	TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET	TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET	TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET	SPECIAL CATCH BASIN MANHOLE, C1	SPECIAL STORM DRAIN MANHOLE, C12	SPECIAL STORM DRAIN MANHOLE, C13	SPECIAL STORM DRAIN MANHOLE, C14	SPECIAL DRAIN INLET, C2	TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET	TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET	SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET	TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
		SUB-TOTAL																																				
		DRAIN LINES: A, A1, A2, A3 & A4				2															1	2				1	1	2		1						2	2	
		DRAIN LINES: B, B1, B2, B3, B4 & B5																																				
D-15	OUTLET	DRAINAGE OUTLET																																				
		36" DRAIN LINE B																																				
	SDMH B1	DRAIN MANHOLE, TYPE "C"					~~1~~																															
		36" DRAIN LINE B																																				
	SDMH B2	DRAIN MANHOLE, TYPE "C"					~~1~~																															
		36" DRAIN LINE B																																				
D-3	SDMH B3	DRAIN MANHOLE, TYPE "B"				1																																
		30" DRAIN LINE B																																				
	SDMH B4	DRAIN MANHOLE, TYPE "B"				1																																
		24" DRAIN LINE B																																				
	CB B5	CATCH BASIN, TYPE "A1"																								1												
		18" DRAIN LINE B																																				
	CB B7	CATCH BASIN, TYPE "C1"																														1					
		18" DRAIN LINE B																																				
	SDMH B16	DRAIN MANHOLE, TYPE "A"	~~1~~	1																																		
		6" DRAIN LINE B																																				
	~~TD B17~~	~~ACO TRENCH DRAIN~~																																				
		12" DRAIN LINE B																																				
	GDI B18	GRATED DROP INLET, TYPE "61614"																																				
		12" DRAIN LINE B																																				
	GDI B19	GRATED DROP INLET, TYPE "61614"																																				
		24" BRANCH DRAIN LINE B1																																				
	CB B6	GRATED DROP INLET, TYPE "61614"																																				
		24" BRANCH DRAIN LINE B2																																				
	CB B8	CATCH BASIN, TYPE "D1"																																				1
		24" DRAIN LINE B2																																				
	CB B9	CATCH BASIN, TYPE "D1"																																				1
		24" DRAIN LINE B2																																				
D-2	CB B10	GRATED DROP INLET, TYPE "F"																																				
		24" DRAIN LINE B2																																				
	CB B11	GRATED DROP INLET, TYPE "F"																																				
		24" BRANCH DRAIN LINE B2																																				
D-3	CB B14	GRATED DROP INLET, TYPE "F"																																				

ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	88	340

DRAINAGE SUMMARY

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
		SUB-TOTAL																			
		DRAIN LINES: A, A1, A2, A3 & A4					1		1			2									
		DRAIN LINES: B, B1, B2, B3, B4 & B5																			
D-15	OUTLET	DRAINAGE OUTLET																1			
		36" DRAIN LINE B																			
	SDMH B1	DRAIN MANHOLE, TYPE "C"																			
		36" DRAIN LINE B																			
	SDMH B2	DRAIN MANHOLE, TYPE "C"																			
		36" DRAIN LINE B																			
D-3	SDMH B3	DRAIN MANHOLE, TYPE "B"																			
		30" DRAIN LINE B																			
	SDMH B4	DRAIN MANHOLE, TYPE "B"																			
		24" DRAIN LINE B																			
	CB B5	CATCH BASIN, TYPE "A1"																			
		18" DRAIN LINE B																			
	CB B7	CATCH BASIN, TYPE "C1"																			
		18" DRAIN LINE B																			
	SDMH B16	DRAIN MANHOLE, TYPE "A"																			
		6" DRAIN LINE B																			
	TD B17	ACO TRENCH DRAIN																			
		12" DRAIN LINE B																			
	GDI B18	GRATED DROP INLET, TYPE "61614"					1														
		12" DRAIN LINE B																			
	GDI B19	GRATED DROP INLET, TYPE "61614"				1															
		24" BRANCH DRAIN LINE B1																			
	CB B6	GRATED DROP INLET, TYPE "61614"						1													
		24" BRANCH DRAIN LINE B2																			
	CB B8	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE B2																			
	CB B9	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE B2																			
D-2	CB B10	GRATED DROP INLET, TYPE "F"			1																
		24" DRAIN LINE B2																			
	CB B11	GRATED DROP INLET, TYPE "F"			1																
		24" BRANCH DRAIN LINE B2																			
D-3	CB B14	GRATED DROP INLET, TYPE "F"		1																	

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DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	89	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603 0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
		24" DRAIN LINE B2	79	7											74				
	CB B15	GRATED DROP INLET, TYPE "F"																	
		18" BRANCH DRAIN LINE B3	51	4								46							
	CB B12	CATCH BASIN, TYPE "B"																	
		18" BRANCH DRAIN LINE B4	43	3								38							
	~~CB B13~~	~~CATCH BASIN, TYPE "D"~~																	
		8" BRANCH DRAIN LINE B5	33	4														45	
	~~TD B20~~	~~ACO TRENCH DRAIN~~																	
		6" DRAIN LINE															6		
	~~TD B~~	~~ACO TRENCH DRAIN~~																	
		SUB-TOTAL																	
		DRAIN LINES: B, B1, B2, B3, B4 & B5	1705	152							326	156	614	112	150	42	16	45	81
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6																	
D-15	OUTLET	DRAINAGE OUTLET																	
		7'x3.5' OPEN CHANNEL, DRAIN LINE C	164	21															
		TO CHANNEL																	
		7'x3.5' BOX CULVERT, DRAIN LINE C	476	46															
D-4	CB C1	SPECIAL CB																	
		6'x2' BOX CULVERT, DRAIN LINE B	187	15															
	SDMH C13	SPECIAL DRAIN MANHOLE																	
		6'x3' BRANCH DRAIN LINE C1	167	13															
	SDMH C14	SPECIAL DRAIN MANHOLE																	
		6'x2' BOX CULVERT DRAIN LINE C1	144	14															
	SDMH C12	SPECIAL DRAIN MANHOLE																	
		24" DRAIN LINE C1	39	3					30										
	CB C3	CATCH BASIN, TYPE ~~"A"~~ "B"																	
		24" DRAIN LINE C1	72	6					58										
	CB C4	CATCH BASIN, TYPE ~~"A"~~ "B"																	
		24" BRANCH DRAIN LINE C2	30	2					24										
	CB C5	CATCH BASIN, TYPE "A"																	
		18" EXIST DRAIN LINE	8	3															
	EXIST SDMH	CATCH BASIN, TYPE "A"																	
		24" BRANCH DRAIN LINE C3	34	3		30													
	CB C6	CATCH BASIN, TYPE "D1"																	
		24" DRAIN LINE C3	140	14					140										

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604 5450 SPECIAL DRAIN INLET, C2 (EA)	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)
		24" DRAIN LINE B2												
	CB B15	GRATED DROP INLET, TYPE "F"												
		18" BRANCH DRAIN LINE B3												
	CB B12	CATCH BASIN, TYPE "B"												
		18" BRANCH DRAIN LINE B4												
	~~CB B13~~	~~CATCH BASIN, TYPE "D"~~												
		8" BRANCH DRAIN LINE B5												
	~~TD B20~~	~~ACO TRENCH DRAIN~~												
		6" DRAIN LINE												
	~~TD B~~	~~ACO TRENCH DRAIN~~												
		SUB-TOTAL												
		DRAIN LINES: B, B1, B2, B3, B4 & B5	1			2	2							
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6												
D-15	OUTLET	DRAINAGE OUTLET												
		7'x3.5' OPEN CHANNEL, DRAIN LINE C												
		TO CHANNEL												
		7'x3.5' BOX CULVERT, DRAIN LINE C												
D-4	CB C1	SPECIAL CB							1					
		6'x2' BOX CULVERT, DRAIN LINE B												
	SDMH C13	SPECIAL DRAIN MANHOLE									1			
		6'x3' BRANCH DRAIN LINE C1												
	SDMH C14	SPECIAL DRAIN MANHOLE										1		
		6'x2' BOX CULVERT DRAIN LINE C1												
	SDMH C12	SPECIAL DRAIN MANHOLE								1				
		24" DRAIN LINE C1												
	CB C3	CATCH BASIN, TYPE ~~"A"~~ "B"												~~1~~
		24" DRAIN LINE C1												
	CB C4	CATCH BASIN, TYPE ~~"A"~~ "B"												~~1~~
		24" BRANCH DRAIN LINE C2												
	CB C5	CATCH BASIN, TYPE "A"												1
		18" EXIST DRAIN LINE												
	EXIST SDMH	CATCH BASIN, TYPE "A"												
		24" BRANCH DRAIN LINE C3												
	CB C6	CATCH BASIN, TYPE "D1"												
		24" DRAIN LINE C3												

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
		24" DRAIN LINE B2																								
	CB B15	GRATED DROP INLET, TYPE "F"																								
		18" BRANCH DRAIN LINE B3																								
	CB B12	CATCH BASIN, TYPE "B"	1																							
		18" BRANCH DRAIN LINE B4																								
	~~CB B13~~	~~CATCH BASIN, TYPE "D"~~								1																
		8" BRANCH DRAIN LINE B5																								
	~~TD B20~~	~~ACO TRENCH DRAIN~~																								
		6" DRAIN LINE																								
	~~TD B~~	~~ACO TRENCH DRAIN~~																								
		SUB-TOTAL																								
		DRAIN LINES: B, B1, B2, B3, B4 & B5	1							1					1						1					2
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6																								
D-15	OUTLET	DRAINAGE OUTLET																								
		7'x3.5' OPEN CHANNEL, DRAIN LINE C																								
		TO CHANNEL																								
		7'x3.5' BOX CULVERT, DRAIN LINE C																								
D-4	CB C1	SPECIAL CB																								
		6'x2' BOX CULVERT, DRAIN LINE B																								
	SDMH C13	SPECIAL DRAIN MANHOLE																								
		6'x3' BRANCH DRAIN LINE C1																								
	SDMH C14	SPECIAL DRAIN MANHOLE																								
		6'x2' BOX CULVERT DRAIN LINE C1																								
	SDMH C12	SPECIAL DRAIN MANHOLE																								
		24" DRAIN LINE C1																								
	CB C3	CATCH BASIN, TYPE ~~"A"~~ "B"	1																							
		24" DRAIN LINE C1																								
	CB C4	CATCH BASIN, TYPE ~~"A"~~ "B"	1																							
		24" BRANCH DRAIN LINE C2																								
	CB C5	CATCH BASIN, TYPE "A"																								
		18" EXIST DRAIN LINE																								
	EXIST SDMH	CATCH BASIN, TYPE "A"																								
		24" BRANCH DRAIN LINE C3																								
	CB C6	CATCH BASIN, TYPE "D1"																								1
		24" DRAIN LINE C3																								

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	90	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
		24" DRAIN LINE B2																			
	CB B15	GRATED DROP INLET, TYPE "F"		1																	
		18" BRANCH DRAIN LINE B3																			
	CB B12	CATCH BASIN, TYPE "B"																			
		18" BRANCH DRAIN LINE B4																			
	CB B13	CATCH BASIN, TYPE "D"																			
		8" BRANCH DRAIN LINE B5																			
	~~TD B20~~	~~ACO TRENCH DRAIN~~								~~1~~											
		6" DRAIN LINE																			
	TD B	ACO TRENCH DRAIN																			
		SUB-TOTAL																			
		DRAIN LINES: B, B1, B2, B3, B4 & B5		2	2	1	1			2	1							1			
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6																			
D-15	OUTLET	DRAINAGE OUTLET																			
		7'x3.5' OPEN CHANNEL, DRAIN LINE C											246								
		TO CHANNEL																			
		7'x3.5' BOX CULVERT, DRAIN LINE C												268							
D-4	CB C1	SPECIAL CB																			
		6'x2' BOX CULVERT, DRAIN LINE B													96						
	SDMH C13	SPECIAL DRAIN MANHOLE																			
		6'x3' BRANCH DRAIN LINE C1														88					
	SDMH C14	SPECIAL DRAIN MANHOLE																			
		6'x2' BOX CULVERT DRAIN LINE C1															92				
	SDMH C12	SPECIAL DRAIN MANHOLE																			
		24" DRAIN LINE C1																			
	CB C3	CATCH BASIN, TYPE "A"																			
		24" DRAIN LINE C1																			
	CB C4	CATCH BASIN, TYPE "A"																			
		24" BRANCH DRAIN LINE C2																			
	CB C5	CATCH BASIN, TYPE "A"																			
		18" EXIST DRAIN LINE																			
	EXIST SDMH	CATCH BASIN, TYPE "A"																			
		24" BRANCH DRAIN LINE C3																			
	CB C6	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE C3																			

ORIGINAL PLAN
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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	91	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603 0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
	CB C7	CATCH BASIN, TYPE "D1"																	
		24" BRANCH DRAIN LINE C4	170	16		166													
	CB C8	CATCH BASIN, TYPE "D1"																	
		18" BRANCH DRAIN LINE C5	17	1	14														
	SDMH ~~GDF~~ C9	~~GRATED DROP INLET, TYPE "61614"~~ SDMH, TYPE "A"																	
		18" DRAIN LINE C5	27	1	12														
	~~GDF C10~~	~~GRATED DROP INLET, TYPE "61614"~~																	
		18" BRANCH DRAIN LINE C6	60	5	58														
	CB C11	CATCH BASIN, TYPE "A"																	
		SUB-TOTAL																	
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6	1734	163	84	196			252										
		DRAIN LINE: D																	
D-4	SDMH D1	DRAIN MANHOLE, TYPE "B"																	
		30" DRAIN LINE D	104	10												88			
	CB D2	SPECIAL CATCH BASIN WITH BACK SLOT																	
		SUB-TOTAL																	
		DRAIN LINE: D	104	10												88			
		DRAIN LINES: E, E1, E2, E3, E4, E5, E6 & E7																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																	
		24" DRAIN LINE E1	87	8		86													
	CB E1	CATCH BASIN, TYPE "C1"																	
		24" DRAIN LINE E1	120	11		114													
	SDMH E2	DRAIN MANHOLE, TYPE "A"																	
		24" DRAIN LINE E1	145	14		142													
D-5	CB E3	CATCH BASIN, TYPE "D1"																	
		24" DRAIN LINE E1	235	23		232													
	CB E4	CATCH BASIN, TYPE "D1"																	
		18" BRANCH DRAIN LINE E2	52	4								46							
	CB E5	CATCH BASIN, TYPE "D"																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																	
		24" DRAIN LINE E3	39	3		36													
	CB E6	CATCH BASIN, TYPE ~~"B"~~ "D-1"																	
		24" DRAIN LINE E3	96	11		118													
	CB E7	~~SPECIAL~~ CATCH BASIN ~~WITH BACK SLOT~~ TYPE "D-1"																	
		24" DRAIN LINE E3	66	6		66													

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604 5450 SPECIAL DRAIN INLET, C2 (EA)
	CB C7	CATCH BASIN, TYPE "D1"											
		24" BRANCH DRAIN LINE C4											
	CB C8	CATCH BASIN, TYPE "D1"											
		18" BRANCH DRAIN LINE C5											
	SDMH ~~GDF~~ C9	~~GRATED DROP INLET, TYPE "61614"~~ SDMH, TYPE "A"	1										
		18" DRAIN LINE C5											
	~~GDF C10~~	~~GRATED DROP INLET, TYPE "61614"~~											
		18" BRANCH DRAIN LINE C6											
	CB C11	CATCH BASIN, TYPE "A"											
		SUB-TOTAL											
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6							1	1	1	1	
		DRAIN LINE: D											
D-4	SDMH D1	DRAIN MANHOLE, TYPE "B"				1							
		30" DRAIN LINE D											
	CB D2	SPECIAL CATCH BASIN WITH BACK SLOT											
		SUB-TOTAL											
		DRAIN LINE: D				1							
		DRAIN LINES: E, E1, E2, E3, E4, E5, E6 & E7											
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT											
		24" DRAIN LINE E1											
	CB E1	CATCH BASIN, TYPE "C1"											
		24" DRAIN LINE E1											
	SDMH E2	DRAIN MANHOLE, TYPE "A"		1									
		24" DRAIN LINE E1											
D-5	CB E3	CATCH BASIN, TYPE "D1"											
		24" DRAIN LINE E1											
	CB E4	CATCH BASIN, TYPE "D1"											
		18" BRANCH DRAIN LINE E2											
	CB E5	CATCH BASIN, TYPE "D"											
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT											
		24" DRAIN LINE E3											
	CB E6	CATCH BASIN, TYPE ~~"B"~~ "D-1"											
		24" DRAIN LINE E3											
	CB E7	~~SPECIAL~~ CATCH BASIN ~~WITH BACK SLOT~~ TYPE "D-1"											
		24" DRAIN LINE E3											

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
	CB C7	CATCH BASIN, TYPE "D1"																								1	
		24" BRANCH DRAIN LINE C4																									
	CB C8	CATCH BASIN, TYPE "D1"																									1
		18" BRANCH DRAIN LINE C5																									
	SDMH ~~GDF~~ C9	~~GRATED DROP INLET, TYPE "61614"~~ SDMH, TYPE "A"																									
		18" DRAIN LINE C5																									
	~~GDF C10~~	~~GRATED DROP INLET, TYPE "61614"~~																									
		18" BRANCH DRAIN LINE C6																									
	CB C11	CATCH BASIN, TYPE "A"	1																								
		SUB-TOTAL																									
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6	4																							1	2
		DRAIN LINE: D																									
D-4	SDMH D1	DRAIN MANHOLE, TYPE "B"																									
		30" DRAIN LINE D												1													
	CB D2	SPECIAL CATCH BASIN WITH BACK SLOT																									
		SUB-TOTAL																									
		DRAIN LINE: D												1													
		DRAIN LINES: E, E1, E2, E3, E4, E5, E6 & E7																									
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																									
		24" DRAIN LINE E1																									
	CB E1	CATCH BASIN, TYPE "C1"																				1					
		24" DRAIN LINE E1																									
	SDMH E2	DRAIN MANHOLE, TYPE "A"																									
		24" DRAIN LINE E1																									
D-5	CB E3	CATCH BASIN, TYPE "D1"																								1	
		24" DRAIN LINE E1																									
	CB E4	CATCH BASIN, TYPE "D1"																								1	
		18" BRANCH DRAIN LINE E2																									
	CB E5	CATCH BASIN, TYPE "D"								1																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																									
		24" DRAIN LINE E3																									
	CB E6	CATCH BASIN, TYPE ~~"B"~~ "D-1"									~~1~~																1
		24" DRAIN LINE E3																									
	CB E7	~~SPECIAL~~ CATCH BASIN ~~WITH BACK SLOT~~ TYPE "D-1"												~~1~~												1	
		24" DRAIN LINE E3																									

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	92	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
	CB C7	CATCH BASIN, TYPE "D1"																			
		24" BRANCH DRAIN LINE C4																			
	CB C8	CATCH BASIN, TYPE "D1"																			
		18" BRANCH DRAIN LINE C5																			
	GDI C9	~~GRATED DROP INLET, TYPE "61614"~~ SDMH TYPE "A"					1														
		18" DRAIN LINE C5																			
	~~GDI C10~~	~~GRATED DROP INLET, TYPE "61614"~~					~~1~~														
		18" BRANCH DRAIN LINE C6																			
	CB C11	CATCH BASIN, TYPE "A"																			
		SUB-TOTAL																			
		DRAIN LINES: C, C1, C2, C3, C4, C5 & C6					2						246	268	96	88	92				
		DRAIN LINE: D																			
D-4	SDMH D1	DRAIN MANHOLE, TYPE "B"																			
		30" DRAIN LINE D																			
	CB D2	SPECIAL CATCH BASIN WITH BACK SLOT																		330	
		SUB-TOTAL																			
		DRAIN LINE: D																		330	
		DRAIN LINES: E, E1, E2, E3, E4, E5, E6 & E7																			
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																			
		24" DRAIN LINE E1																			
	CB E1	CATCH BASIN, TYPE "C1"																			
		24" DRAIN LINE E1																			
	SDMH E2	DRAIN MANHOLE, TYPE "A"																			
		24" DRAIN LINE E1																			
D-5	CB E3	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE E1																			
	CB E4	CATCH BASIN, TYPE "D1"																			
		18" BRANCH DRAIN LINE E2																			
	CB E5	CATCH BASIN, TYPE "D"																			
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																			
		24" DRAIN LINE E3																			
	CB E6	CATCH BASIN, TYPE "D"																			
		24" DRAIN LINE E3																			
	CB E7	SPECIAL CATCH BASIN WITH BACK SLOT																			
		24" DRAIN LINE E3																			

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NOTE BOOK
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DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	93	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206-2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603-0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603-1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603-1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603-1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603-1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603-9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603-9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603-9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603-9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603-9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
	CB E8	SPECIAL CATCH BASIN WITH BACK SLOT																	
		24" DRAIN LINE E3	95	10		106													
D-5	CB E9	CATCH BASIN, TYPE "B1"																	
		24" DRAIN LINE E3	97	8		98													
	CB E10	CATCH BASIN, TYPE "B1"																	
		24" DRAIN LINE E3	123	9		70													
	CB E11	CATCH BASIN, TYPE "D1"																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																	
		24" DRAIN LINE E4	82	7		70													
	SDMH E12	DRAIN MANHOLE, TYPE "A"																	
		24" DRAIN LINE E4	110	11					122										
	CB E13	CATCH BASIN, TYPE "A1"																	
		18" DRAIN LINE E4	136	14				162											
D-7	SDMH E19	DRAIN MANHOLE, TYPE "A"																	
		18" DRAIN LINE E4	122	16				182											
	CB E20	CATCH BASIN, TYPE "D1"																	
		18" DRAIN LINE E4	69	8				96											
	CB E21	CATCH BASIN, TYPE "A1"																	
		18" DRAIN LINE E4	72	8				96											
	CB E22	CATCH BASIN, TYPE "D1"																	
		18" BRANCH DRAIN LINE E5	47	3								40							
	CB E14	CATCH BASIN, TYPE "D"																	
		18" BRANCH DRAIN LINE E6	52	5										54					
	CB E15	CATCH BASIN, TYPE "D"																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																	
		24" DRAIN LINE E7	77	8		82													
	CB E16	~~SPECIAL CATCH BASIN WITH BACK SLOT~~ CB TYPE "D-1"																	
		24" DRAIN LINE E7	76	9		90													
	CB E17	~~SPECIAL CATCH BASIN WITH BACK SLOT~~ CB TYPE "D-1"																	
		24" DRAIN LINE E7	111	13	156														
	CB E18	CATCH BASIN, TYPE "~~C~~" "C-1"																	
		8" DRAIN LINE																6	
	GDI E18	GRATED DROP INLET, TYPE "61214"																	
		SUB-TOTAL																	
		DRAIN LINES: E1, E2, E3, E4, E5, E6 & E7	2109	211	156	1310		536	122			86		54				6	

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604-5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604-5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604-5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604-5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604-5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604-5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604-5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604-5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604-5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604-5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604-5450 SPECIAL DRAIN INLET, C2 (EA)	604-6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604-6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604-6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604-6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604-6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604-6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604-6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604-6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604-6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604-6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604-6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604-6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
	CB E8	SPECIAL CATCH BASIN WITH BACK SLOT																																				
		24" DRAIN LINE E3																								1												
D-5	CB E9	CATCH BASIN, TYPE "B1"																												1								
		24" DRAIN LINE E3																																				
	CB E10	CATCH BASIN, TYPE "B1"																																			1	
		24" DRAIN LINE E3																																				
	CB E11	CATCH BASIN, TYPE "D1"																																				1
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																																				
		24" DRAIN LINE E4																																				
	SDMH E12	DRAIN MANHOLE, TYPE "A"	1																																			
		24" DRAIN LINE E4																																				
	CB E13	CATCH BASIN, TYPE "A1"																									1											
		18" DRAIN LINE E4																																				
D-7	SDMH E19	DRAIN MANHOLE, TYPE "A"	1																																			
		18" DRAIN LINE E4																																				
	CB E20	CATCH BASIN, TYPE "D1"																																		1		
		18" DRAIN LINE E4																																				
	CB E21	CATCH BASIN, TYPE "A1"																									1											
		18" DRAIN LINE E4																																				
	CB E22	CATCH BASIN, TYPE "D1"																																		1		
		18" BRANCH DRAIN LINE E5																																				
	CB E14	CATCH BASIN, TYPE "D"																				1																
		18" BRANCH DRAIN LINE E6																																				
	CB E15	CATCH BASIN, TYPE "D"																			1																	
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																																				
		24" DRAIN LINE E7																																				
	CB E16	~~SPECIAL CATCH BASIN WITH BACK SLOT~~ CB TYPE "D-1"																								~~1~~												1
		24" DRAIN LINE E7																																				
	CB E17	~~SPECIAL CATCH BASIN WITH BACK SLOT~~ CB TYPE "D-1"																								~~1~~											1	
		24" DRAIN LINE E7																																				
	CB E18	CATCH BASIN, TYPE "~~C~~" "C-1"															~~1~~															1						
		8" DRAIN LINE																																				
	GDI E18	GRATED DROP INLET, TYPE "61214"																																				
		SUB-TOTAL																																				
		DRAIN LINES: E1, E2, E3, E4, E5, E6 & E7	2	1														1			1	2	1			4	2			1				1		2	3	1

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	94	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1', 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
	CB E8	SPECIAL CATCH BASIN WITH BACK SLOT																			
		24" DRAIN LINE E3																			
D-5	CB E9	CATCH BASIN, TYPE "B1"																			
		24" DRAIN LINE E3																			
	CB E10	CATCH BASIN, TYPE "B1"																			
		24" DRAIN LINE E3																			
	CB E11	CATCH BASIN, TYPE "D1"																			
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																			
		24" DRAIN LINE E4																			
	SDMH E1	DRAIN MANHOLE, TYPE "A"																			
		24" DRAIN LINE E4																			
	CB E13	CATCH BASIN, TYPE "A1"																			
		18" DRAIN LINE E4																			
D-7	SDMH E1	DRAIN MANHOLE, TYPE "A"																			
		18" DRAIN LINE E4																			
	CB E20	CATCH BASIN, TYPE "D1"																			
		18" DRAIN LINE E4																			
	CB E21	CATCH BASIN, TYPE "A1"																			
		18" DRAIN LINE E4																			
	CB E22	CATCH BASIN, TYPE "D1"																			
		18" BRANCH DRAIN LINE E5																			
	CB E14	CATCH BASIN, TYPE "D"																			
		18" BRANCH DRAIN LINE E6																			
	CB E15	CATCH BASIN, TYPE "D"																			
D-6	EXIST 8X	CONNECT TO EXIST 8'x4' BOX CULVERT																			
		24" DRAIN LINE E7																			
	CB E16	SPECIAL CATCH BASIN WITH BACK SLOT																			
		24" DRAIN LINE E7																			
	CB E17	SPECIAL CATCH BASIN WITH BACK SLOT																			
		24" DRAIN LINE E7																			
	CB E18	CATCH BASIN, TYPE "C"																			
		8" DRAIN LINE																			
	GDI E18	GRATED DROP INLET, TYPE "61214"							1												
		SUB-TOTAL																			
		DRAIN LINES: E1, E2, E3, E4, E5, E6 & E7							1												

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	95	340

DRAINAGE SUMMARY

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	206	603		603	603	603	603	603	603	603	603	603	603	603	603	603	603	603
			2020	0010		1006	1010	1012	1046	1048	1050	1052	9020	9022	9030	9032	9034	9520	9522	9524
			STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT		18-INCH REINFORCED CONCRETE PIPE, CLASS III	24-INCH REINFORCED CONCRETE PIPE, CLASS III	30-INCH REINFORCED CONCRETE PIPE, CLASS III	18-INCH REINFORCED CONCRETE PIPE, CLASS IV	24-INCH REINFORCED CONCRETE PIPE, CLASS IV	30-INCH REINFORCED CONCRETE PIPE, CLASS IV	36-INCH REINFORCED CONCRETE PIPE, CLASS IV	18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III	24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III	18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV	24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV	30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV	6-INCH POLYVINYL CHLORIDE (DR=14)	8-INCH POLYVINYL CHLORIDE (DR=14)	12-INCH POLYVINYL CHLORIDE (DR=14)
		DESCRIPTION/UNIT	CU YD	CU YD		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
		DRAIN LINE: F1																		
D-7	CB F1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																		
		18" DRAIN LINE F1	35	2					26											
	SDMH F2	DRAIN MANHOLE, TYPE "A"																		
		18" DRAIN LINE F1	124	14					166											
	CB F3	CATCH BASIN, TYPE "A1"																		
		18" DRAIN LINE F1	114	11					128											
	CB F4	CATCH BASIN, TYPE "D"																		
		18" BRANCH DRAIN LINE F1	29	3					30											
	CB F6	CATCH BASIN, TYPE "D"																		
		8" DRAIN LINE																	80	
	GDI F7	GRATED DROP INLET, TYPE "61214"																		
		SUB-TOTAL																		
		DRAIN LINE: F1	303	30					350										80	
		DRAIN LINE: G1																		
D-8	CB G1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																		
		18" DRAIN LINE G1	30	2					20											
	SDMH G3	DRAIN MANHOLE, TYPE "A"																		
		18" DRAIN LINE G1	104	10					118											
D-7	CB G4	SPECIAL CATCH BASIN WITH BACK SLOT																		
		18" BRANCH DRAIN LINE G1	30	2					28											
D-8	CB G2	CATCH BASIN, TYPE "D"																		
		SUB-TOTAL																		
		DRAIN LINE: G1	163	14					166											
		DRAIN LINES: H & H1																		
		CHANNEL																		
		CONNECT TO BOX CULVERT																		
		24" DRAIN LINE H	85	7			72													
D-8	SDMH H1	DRAIN MANHOLE, TYPE "A"																		
		24" DRAIN LINE H	120	10			106													
	CB H2	CATCH BASIN, TYPE "B1"																		
		24" DRAIN LINE H	228	21			220													
	CB H3	CATCH BASIN, TYPE "B1"																		
		18" BRANCH DRAIN LINE H1	70	4									50							
	CB H4	CATCH BASIN, TYPE "D"																		

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604	604
			5110	5112	5114	5210	5310	5314	5410	5420	5430	5440	5450	6110	6210	6220	6230	6310	6320	6330	6410	6420	6430	6440	6450	6460	6510	6520	6610	6620	6630	6640	6710	6720	6730	6810	6820	6830
			TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET	TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET	TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET	TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET	TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET	TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET	SPECIAL CATCH BASIN MANHOLE, C1	SPECIAL STORM DRAIN MANHOLE, C12	SPECIAL STORM DRAIN MANHOLE, C13	SPECIAL STORM DRAIN MANHOLE, C14	SPECIAL DRAIN INLET, C2	TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET	TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET	SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET	TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET	TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET	TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET	TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET	TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
		DRAIN LINE: F1																																				
D-7	CB F1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																																	1		
		18" DRAIN LINE F1																																				
	SDMH F2	DRAIN MANHOLE, TYPE "A"	1																																			
		18" DRAIN LINE F1																																				
	CB F3	CATCH BASIN, TYPE "A1"																								1											
		18" DRAIN LINE F1																																				
	CB F4	CATCH BASIN, TYPE "D"																		1																	
		18" BRANCH DRAIN LINE F1																																				
	CB F6	CATCH BASIN, TYPE "D"																		1																	
		8" DRAIN LINE																																				
	GDI F7	GRATED DROP INLET, TYPE "61214"																																				
		SUB-TOTAL																																				
		DRAIN LINE: F1	1																	2						1									1		
		DRAIN LINE: G1																																				
D-8	CB G1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																																	1		
		18" DRAIN LINE G1																																				
	SDMH G3	DRAIN MANHOLE, TYPE "A"	1																																			
		18" DRAIN LINE G1																																				
D-7	CB G4	SPECIAL CATCH BASIN WITH BACK SLOT																							1												
		18" BRANCH DRAIN LINE G1																																				
D-8	CB G2	CATCH BASIN, TYPE "D"																		1																	
		SUB-TOTAL																																				
		DRAIN LINE: G1	1																	1					1										1		
		DRAIN LINES: H & H1																																				
		CHANNEL																																				
		CONNECT TO BOX CULVERT																																				
		24" DRAIN LINE H																																				
D-8	SDMH H1	DRAIN MANHOLE, TYPE "A"			1																																	
		24" DRAIN LINE H																																				
	CB H2	CATCH BASIN, TYPE "B1"																												1							
		24" DRAIN LINE H																																				
	CB H3	CATCH BASIN, TYPE "B1"																											1								
		18" BRANCH DRAIN LINE H1																																				
	CB H4	CATCH BASIN, TYPE "D"																					~~1~~	1													

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	96	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840 TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	604 6910 TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	604 6920 TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	604 7010 TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	604 7020 TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	604 7030 TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	604 7110 TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	604 7210 ACO TRENCH DRAIN, (NO. 30 TO 21)	604 7220 ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	604 7300 CONCRETE COLLAR	604 8100 OPEN CHANNEL, 7.00 FEET X 3.5 FEET	604 8110 BOX CULVERT, 7.0 FEET BY 3.5 FEET	604 8120 BOX CULVERT C, 6.0 FEET BY 2.0 FEET	604 8130 BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	604 8140 BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	604 9200 DRAIN OUTLET	604 9300 24" FLAP GATE	612 0100 GROUTED RUBBLE PAVING	653 1000 INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
		DRAIN LINE: F1																			
D-7	CB F1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																			
		18" DRAIN LINE F1																			
	SDMH F2	DRAIN MANHOLE, TYPE "A"																			
		18" DRAIN LINE F1																			
	CB F3	CATCH BASIN, TYPE "A1"																			
		18" DRAIN LINE F1																			
	CB F4	CATCH BASIN, TYPE "D"																			
		18" BRANCH DRAIN LINE F1																			
	CB F6	CATCH BASIN, TYPE "D"																			
		8" DRAIN LINE																			
	GDI F7	GRATED DROP INLET, TYPE "61214"							1												
		SUB-TOTAL																			
		DRAIN LINE: F1							1												
		DRAIN LINE: G1																			
D-8	CB G1	CATCH BASIN, TYPE "D1" OVER EXIST 18" DRAIN LINE																			
		18" DRAIN LINE G1																			
	SDMH G3	DRAIN MANHOLE, TYPE "A"																			
		18" DRAIN LINE G1																			
D-7	CB G4	SPECIAL CATCH BASIN WITH BACK SLOT																			
		18" BRANCH DRAIN LINE G1																			
D-8	CB G2	CATCH BASIN, TYPE "D"																			
		SUB-TOTAL																			
		DRAIN LINE: G1																			
		DRAIN LINES: H & H1																			
		CHANNEL																			
		CONNECT TO BOX CULVERT																			
		24" DRAIN LINE H																			
D-8	SDMH H1	DRAIN MANHOLE, TYPE "A"																			
		24" DRAIN LINE H																			
	CB H2	CATCH BASIN, TYPE "B1"																			
		24" DRAIN LINE H																			
	CB H3	CATCH BASIN, TYPE "B1"																			
		18" BRANCH DRAIN LINE H1																			
	CB H4	CATCH BASIN, TYPE "D"																			

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	97	340

DRAINAGE SUMMARY

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603 0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
		18" DRAIN LINE H1	176	13								154							
	CB H5	CATCH BASIN, TYPE "D"																	
		18" DRAIN LINE H1	61	5										56					
	CB H6	CATCH BASIN, TYPE "C1"																	
		24" FLAP GATE																	
		SUB-TOTAL																	
		DRAIN LINES: H & H1	740	61		398						204		56					
		DRAIN LINES: J & J1																	
D-8		CHANNEL																	
		CONNECT TO BOX CULVERT																	
		24" DRAIN LINE J	73	6		58													
D-9	CB J1	CATCH BASIN, TYPE "D1"																	
		24" DRAIN LINE J	102	9		96													
	SDMH J2	DRAIN MANHOLE, TYPE "A"																	
		24" DRAIN LINE J	111	13					130										
	CB J3	CATCH BASIN, TYPE "D1"																	
		24" DRAIN LINE J	54	4										50					
	CB J4	CATCH BASIN, TYPE "D1"																	
		18" BRANCH DRAIN LINE J1	40	4										48					
	CB J5	CATCH BASIN, TYPE "D"																	
		SUB-TOTAL																	
		DRAIN LINES: J & J1	380	36		154			130					98					
		DRAIN LINES: K & K1																	
D-10	OUTLET	EXIST OUTLET																	
		30" EXIST DRAIN PIPE																	
	SDMH K1	EXIST DRAIN MANHOLE																	
		30" EXIST DRAIN PIPE																	
	SDMH K2	DRAIN MANHOLE, TYPE "C"																	
		24" DRAIN LINE K	256	13									134						
	CB K3	CATCH BASIN, TYPE ~~"B"~~ "C"																	
		24" DRAIN LINE K	89	5									48						
	CB K4	CATCH BASIN, TYPE "B1"																	
		24" DRAIN LINE K	194	16									160						
D-9	CB K5	CATCH BASIN, TYPE "C1"																	
		18" DRAIN LINE K	108	8								90							

DESCRIPTION/UNIT	604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604 5450 SPECIAL DRAIN INLET, C2 (EA)	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)
18" DRAIN LINE H1																		
CATCH BASIN, TYPE "D"																		
18" DRAIN LINE H1																		
CATCH BASIN, TYPE "C1"																		
24" FLAP GATE																		
SUB-TOTAL																		
DRAIN LINES: H & H1			1															
DRAIN LINES: J & J1																		
CHANNEL																		
CONNECT TO BOX CULVERT																		
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																		
24" DRAIN LINE J																		
DRAIN MANHOLE, TYPE "A"		1																
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																		
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																		
18" BRANCH DRAIN LINE J1																		
CATCH BASIN, TYPE "D"																		
SUB-TOTAL																		
DRAIN LINES: J & J1		1																
DRAIN LINES: K & K1																		
EXIST OUTLET																		
30" EXIST DRAIN PIPE																		
EXIST DRAIN MANHOLE																		
30" EXIST DRAIN PIPE																		
DRAIN MANHOLE, TYPE "C"						1												
24" DRAIN LINE K																		
CATCH BASIN, TYPE ~~"B"~~ "C"															~~1~~			1
24" DRAIN LINE K																		
CATCH BASIN, TYPE "B1"																		
24" DRAIN LINE K																		
CATCH BASIN, TYPE "C1"																		
18" DRAIN LINE K																		

DESCRIPTION/UNIT	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
18" DRAIN LINE H1																		
CATCH BASIN, TYPE "D"	1																	
18" DRAIN LINE H1																		
CATCH BASIN, TYPE "C1"													1					
24" FLAP GATE																		
SUB-TOTAL																		
DRAIN LINES: H & H1	1			1						1	1		1					
DRAIN LINES: J & J1																		
CHANNEL																		
CONNECT TO BOX CULVERT																		
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																		
24" DRAIN LINE J																		
DRAIN MANHOLE, TYPE "A"																		
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																1		
24" DRAIN LINE J																		
CATCH BASIN, TYPE "D1"																	1	
18" BRANCH DRAIN LINE J1																		
CATCH BASIN, TYPE "D"	1																	
SUB-TOTAL																		
DRAIN LINES: J & J1	1															1	1	
DRAIN LINES: K & K1																		
EXIST OUTLET																		
30" EXIST DRAIN PIPE																		
EXIST DRAIN MANHOLE																		
30" EXIST DRAIN PIPE																		
DRAIN MANHOLE, TYPE "C"																		
24" DRAIN LINE K																		
CATCH BASIN, TYPE ~~"B"~~ "C"																		
24" DRAIN LINE K																		
CATCH BASIN, TYPE "B1"												1						
24" DRAIN LINE K																		
CATCH BASIN, TYPE "C1"															1			
18" DRAIN LINE K																		

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"AS-BUILT"

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	98	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
		18" DRAIN LINE H1																			
	CB H5	CATCH BASIN, TYPE "D"																			
		18" DRAIN LINE H1																			
	CB H6	CATCH BASIN, TYPE "C1"																			
		24" FLAP GATE																	1		
		SUB-TOTAL																			
		DRAIN LINES: H & H1																	1		
		DRAIN LINES: J & J1																			
D-8		CHANNEL																			
		CONNECT TO BOX CULVERT																			
		24" DRAIN LINE J																			
D-9	CB J1	CATCH BASIN, TYPE "D1"	1																		
		24" DRAIN LINE J																			
	SDMH J2	DRAIN MANHOLE, TYPE "A"																			
		24" DRAIN LINE J																			
	CB J3	CATCH BASIN, TYPE "D1"																			
		24" DRAIN LINE J																			
	CB J4	CATCH BASIN, TYPE "D1"																			
		18" BRANCH DRAIN LINE J1																			
	CB J5	CATCH BASIN, TYPE "D"																			
		SUB-TOTAL																			
		DRAIN LINES: J & J1	1																		
		DRAIN LINES: K & K1																			
D-10	OUTLET	EXIST OUTLET																			
		30" EXIST DRAIN PIPE																			
	SDMH K1	EXIST DRAIN MANHOLE																			
		30" EXIST DRAIN PIPE																			
	SDMH K2	DRAIN MANHOLE, TYPE "C"																			
		24" DRAIN LINE K																			
	CB K3	CATCH BASIN, TYPE "B"																			
		24" DRAIN LINE K																			
	CB K4	CATCH BASIN, TYPE "B1"																			
		24" DRAIN LINE K																			
D-9	CB K5	CATCH BASIN, TYPE "C1"																			
		18" DRAIN LINE K																			

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DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	99	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603 0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
	CB K6	CATCH BASIN, TYPE "C"																	
		18" DRAIN LINE K	104	7								84							
	CB K7	CATCH BASIN, TYPE "D1"																	
D-10	OUTLET	DRAIN OUTLET																	
		30" DRAIN LINE K1	315	14						134									
	SDMH K8	DRAIN MANHOLE, TYPE "C"																	
		SUB-TOTAL																	
		DRAIN LINES: K & K1	1066	63						134		174	342						
		DRAIN LINES: L, L1 & L2																	
D-10	OUTLET	DRAIN OUTLET																	
		30" DRAIN LINE L	117	6			60												
	CB L1	CATCH BASIN, TYPE "D"																	
		30" DRAIN LINE L	133	7			86												
	CB L2	CATCH BASIN, TYPE "C"																	
		30" DRAIN LINE L	229	19			174												
	CB L3	CATCH BASIN, TYPE "C"																	
		30" DRAIN LINE L	212	21						192									
	CB L4	CATCH BASIN, TYPE "C1"																	
		30" DRAIN LINE L	123	16						146									
D-12	CB L5	CATCH BASIN, TYPE "C"																	
		24" DRAIN LINE L	94	12					120										
	CB L6	CATCH BASIN, TYPE "B"																	
		24" DRAIN LINE L	105	14					144										
	CB L7	CATCH BASIN, TYPE "B"																	
		18" BRANCH DRAIN LINE L1	91	9										108					
	CB L8	CATCH BASIN, TYPE "B"																	
D-12	EXIST	18" EXIST DRAIN LINE	8	6															
	CB L9	CATCH BASIN, TYPE "B"																	
		18" DRAIN LINE L2	65	6				68											
	CB L10	CATCH BASIN, TYPE "C"																	
		SUB-TOTAL																	
		DRAIN LINES: L, L1 & L2	1177	115			320	68	264	338				108					
		DRAIN LINES: M, M1 & M2																	
D-14	DI M4	30" EXIST DRAIN LINE																	
D-13	SDMH M5	30" EXIST DRAIN LINE																	

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604 5450 SPECIAL DRAIN INLET, C2 (EA)	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
	CB K6	CATCH BASIN, TYPE "C"																		1																		
		18" DRAIN LINE K																																				
	CB K7	CATCH BASIN, TYPE "D1"																																				1
D-10	OUTLET	DRAIN OUTLET																																				
		30" DRAIN LINE K1																																				
	SDMH K8	DRAIN MANHOLE, TYPE "C"						1																														
		SUB-TOTAL																																				
		DRAIN LINES: K & K1						2									1			1												1			1			1
		DRAIN LINES: L, L1 & L2																																				
D-10	OUTLET	DRAIN OUTLET																																				
		30" DRAIN LINE L																																				
	CB L1	CATCH BASIN, TYPE "D"																							1													
		30" DRAIN LINE L																																				
	CB L2	CATCH BASIN, TYPE "C"																		1																		
		30" DRAIN LINE L																																				
	CB L3	CATCH BASIN, TYPE "C"																	1																			
		30" DRAIN LINE L																																				
	CB L4	CATCH BASIN, TYPE "C1"																																1				
		30" DRAIN LINE L																																				
D-12	CB L5	CATCH BASIN, TYPE "C"																1																				
		24" DRAIN LINE L																																				
	CB L6	CATCH BASIN, TYPE "B"													1																							
		24" DRAIN LINE L																																				
	CB L7	CATCH BASIN, TYPE "B"													1																							
		18" BRANCH DRAIN LINE L1																																				
	CB L8	CATCH BASIN, TYPE "B"													1																							
D-12	EXIST	18" EXIST DRAIN LINE																																				
	CB L9	CATCH BASIN, TYPE "B"														1																						
		18" DRAIN LINE L2																																				
	CB L10	CATCH BASIN, TYPE "C"																1																				
		SUB-TOTAL																																				
		DRAIN LINES: L, L1 & L2													3	1		2	1	1					1									1				
		DRAIN LINES: M, M1 & M2																																				
D-14	DI M4	30" EXIST DRAIN LINE																																				
D-13	SDMH M5	30" EXIST DRAIN LINE																																				

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	100	340

DRAINAGE SUMMARY

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
	CB K6	CATCH BASIN, TYPE "C"																			
		18" DRAIN LINE K																			
	CB K7	CATCH BASIN, TYPE "D1"																			
D-10	OUTLET	DRAIN OUTLET																1			
		30" DRAIN LINE K1																			
	SDMH K8	DRAIN MANHOLE, TYPE "C"																			
		SUB-TOTAL																			
		DRAIN LINES: K & K1																1			
		DRAIN LINES: L, L1 & L2																			
D-10	OUTLET	DRAIN OUTLET																1			
		30" DRAIN LINE L																			
	CB L1	CATCH BASIN, TYPE "D"																			
		30" DRAIN LINE L																			
	CB L2	CATCH BASIN, TYPE "C"																			
		30" DRAIN LINE L																			
	CB L3	CATCH BASIN, TYPE "C"																			
		30" DRAIN LINE L																			
	CB L4	CATCH BASIN, TYPE "C1"																			
		30" DRAIN LINE L																			
D-12	CB L5	CATCH BASIN, TYPE "C"																			
		24" DRAIN LINE L																			
	CB L6	CATCH BASIN, TYPE "B"																			
		24" DRAIN LINE L																			
	CB L7	CATCH BASIN, TYPE "B"																			
		18" BRANCH DRAIN LINE L1																			
	CB L8	CATCH BASIN, TYPE "B"																			
D-12	EXIST	18" EXIST DRAIN LINE																			
	CB L9	CATCH BASIN, TYPE "B"																			
		18" DRAIN LINE L2																			
	CB L10	CATCH BASIN, TYPE "C"																			
		SUB-TOTAL																			
		DRAIN LINES: L, L1 & L2																1			
		DRAIN LINES: M, M1 & M2																			
D-14	DI M4	30" EXIST DRAIN LINE																			
D-13	SDMH M5	30" EXIST DRAIN LINE																			

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	101	340

DRAINAGE SUMMARY

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	206 2020 STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM (CU YD)	603 0010 BED COURSE MATERIAL FOR CULVERT (CU YD)	603 1006 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1010 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1012 30-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 1046 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1048 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1050 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 1052 36-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9020 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9022 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS III (LIN FT)	603 9030 18-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 18-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9032 24-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 24-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9034 30-INCH ALUMINUM SPIRAL RIB PIPE, 14 GAUGE OR 30-INCH REINFORCED CONCRETE PIPE, CLASS IV (LIN FT)	603 9520 6-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9522 8-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)	603 9524 12-INCH POLYVINYL CHLORIDE (DR=14) (LIN FT)
	SDMH M6	24" EXIST DRAIN LINE																	
	SDMH M7	24" EXIST DRAIN LINE																	
	SDMH M8	18" EXIST DRAIN LINE																	
D-12	CB M9	CATCH BASIN, TYPE "B"																	
		18" DRAIN LINE M	49	3										40					
	CB M10	CATCH BASIN, TYPE "D"																	
		18" BRANCH DRAIN LINE M1	35	3										40					
D-13	CB M11	CATCH BASIN, TYPE "D"																	
		18" BRANCH DRAIN LINE M2	22	1	8														
	CB M12	CATCH BASIN, TYPE "D"																	
		18" BRANCH EXIST DRAIN LINE																	
	CB M13	18" EXIST DRAIN LINE	14	4															
	CB M14	CATCH BASIN, TYPE "B1"																	
		SUB-TOTAL																	
		DRAIN LINES: M, M1 & M2	121	12	8									80					
		GRAND TOTAL	11041	1002	248	1906	736	1120	768	896	326	726	1300	558	282	130	16	137	81
A-2	SDMH A-16	DRAIN MANHOLE TYPE "A"																	
B-7	SDMH B-23	DRAIN MANHOLE TYPE "A"																	
A-7	SDMH B-24	DRAIN MANHOLE TYPE "A"																	
C-6	SDMH C-18	DRAIN MANHOLE TYPE "A"																	
C-1	SDMH C-15	DRAIN MANHOLE SPECIAL																	
	SDMH K-2A	DRAIN MANHOLE TYPE "C"																	
K	SDMH K-3A	DRAIN MANHOLE TYPE "A"																	
L	SDMH A	DRAIN MANHOLE TYPE "C"																	
L	SDMH B	DRAIN MANHOLE TYPE "C"																	

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO. / DESCRIPTION/UNIT	604 5110 TYPE "A" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5112 TYPE "A" STORM DRAIN MANHOLE, 5.00 FEET TO 5.99 FEET (EA)	604 5114 TYPE "A" STORM DRAIN MANHOLE, 9.00 FEET TO 9.99 FEET (EA)	604 5210 TYPE "B" STORM DRAIN MANHOLE, 6.00 FEET TO 6.99 FEET (EA)	604 5310 TYPE "C" STORM DRAIN MANHOLE, 4.00 FEET TO 4.99 FEET (EA)	604 5314 TYPE "C" STORM DRAIN MANHOLE, 10.00 FEET TO 10.99 FEET (EA)	604 5410 SPECIAL CATCH BASIN MANHOLE, C1 (EA)	604 5420 SPECIAL STORM DRAIN MANHOLE, C12 (EA)	604 5430 SPECIAL STORM DRAIN MANHOLE, C13 (EA)	604 5440 SPECIAL STORM DRAIN MANHOLE, C14 (EA)	604 5450 SPECIAL DRAIN INLET, C2 (EA)	604 6110 TYPE "A" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6210 TYPE "B" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6220 TYPE "B" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6230 TYPE "B" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6310 TYPE "C" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6320 TYPE "C" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6330 TYPE "C" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6410 TYPE "D" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6420 TYPE "D" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6430 TYPE "D" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6440 TYPE "D" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6450 TYPE "D" CATCH BASIN, 9.00 FEET TO 9.99 FEET (EA)	604 6460 SPECIAL CATCH BASIN WITH BACK SLOT, 4.00 FEET TO 6.99 FEET (EA)	604 6510 TYPE "A1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6520 TYPE "A1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6610 TYPE "B1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6620 TYPE "B1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6630 TYPE "B1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6640 TYPE "B1" CATCH BASIN, 7.00 FEET TO 7.99 FEET (EA)	604 6710 TYPE "C1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6720 TYPE "C1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6730 TYPE "C1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)	604 6810 TYPE "D1" CATCH BASIN, 4.00 FEET TO 4.99 FEET (EA)	604 6820 TYPE "D1" CATCH BASIN, 5.00 FEET TO 5.99 FEET (EA)	604 6830 TYPE "D1" CATCH BASIN, 6.00 FEET TO 6.99 FEET (EA)
	SDMH M6	24" EXIST DRAIN LINE																																				
	SDMH M7	24" EXIST DRAIN LINE																																				
	SDMH M8	18" EXIST DRAIN LINE																																				
D-12	CB M9	CATCH BASIN, TYPE "B"													1																							
		18" DRAIN LINE M																																				
	CB M10	CATCH BASIN, TYPE "D"																			1																	
		18" BRANCH DRAIN LINE M1																																				
D-13	CB M11	CATCH BASIN, TYPE "D"																			1																	
		18" BRANCH DRAIN LINE M2																																				
	CB M12	CATCH BASIN, TYPE "D"																				1																
		18" BRANCH EXIST DRAIN LINE																																				
	CB M13	18" EXIST DRAIN LINE																																				
	CB M14	CATCH BASIN, TYPE "B1"																											1									
		SUB-TOTAL																																				
		DRAIN LINES: M, M1 & M2													1						2	1							1									
		GRAND TOTAL	5	2	1	5	2	2	1	1	1	1	1	4	5	1	1	3	1	2	9	7	1	1	2	6	5	2	1	3	1	1	2	2	1	7	7	6
A-2	SDMH A-16	DRAIN MANHOLE TYPE "A"		1																																		
B-7	SDMH B-23	DRAIN MANHOLE TYPE "A"		1																																		
A-7	SDMH B-24	DRAIN MANHOLE TYPE "A"	1																																			
C-6	SDMH C-18	DRAIN MANHOLE TYPE "A"	1																																			
C-1	SDMH C-15	DRAIN MANHOLE SPECIAL										1																										
	SDMH K-2A	DRAIN MANHOLE TYPE "C"						1																														
K	SDMH K-3A	DRAIN MANHOLE TYPE "A"		1																																		
L	SDMH A	DRAIN MANHOLE TYPE "C"					1																															
L	SDMH B	DRAIN MANHOLE TYPE "C"					1																															

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DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	102	340

DRAINAGE SHEET NO.	STRUCTURE NO.	ITEM NO.	604 6840	604 6910	604 6920	604 7010	604 7020	604 7030	604 7110	604 7210	604 7220	604 7300	604 8100	604 8110	604 8120	604 8130	604 8140	604 9200	604 9300	612 0100	653 1000
			TYPE "D1" CATCH BASIN 10.00 FEET TO 10.99 FEET	TYPE "F" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "F" GRATED DROP INLET, 5.00 FEET TO 5.99 FEET	TYPE "61614" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	TYPE "61614" GRATED DROP INLET, 4.00 FEET TO 4.99 FEET	TYPE "61614" GRATED DROP INLET 17.00 FEET TO 17.99 FEET	TYPE "61214" GRATED DROP INLET, 3.00 FEET TO 3.99 FEET	ACO TRENCH DRAIN, (NO. 30 TO 21)	ACO TRENCH DRAIN, (NO. 30 TO 27 WITH 6" END CAP)	CONCRETE COLLAR	OPEN CHANNEL, 7.00 FEET X 3.5 FEET	BOX CULVERT, 7.0 FEET BY 3.5 FEET	BOX CULVERT C, 6.0 FEET BY 2.0 FEET	BOX CULVERT C1, 6.0 FEET BY 3.0 FEET	BOX CULVERT C1, 6.0 FEET BY 2.0 FEET	DRAIN OUTLET	24" FLAP GATE	GROUTED RUBBLE PAVING	INDIVIDUAL SIDEWALK CULVERT
		DESCRIPTION/UNIT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	SQ FT	EA
	SDMH M6	24" EXIST DRAIN LINE																			
	SDMH M7	24" EXIST DRAIN LINE																			
	SDMH M8	18" EXIST DRAIN LINE																			
D-12	CB M9	CATCH BASIN, TYPE "B"																			
		18" DRAIN LINE M																			
	CB M10	CATCH BASIN, TYPE "D"																			
		18" BRANCH DRAIN LINE M1																			
D-13	CB M11	CATCH BASIN, TYPE "D"																			
		18" BRANCH DRAIN LINE M2																			
	CB M12	CATCH BASIN, TYPE "D"																			
		18" BRANCH EXIST DRAIN LINE																			
	CB M13	18" EXIST DRAIN LINE																			
	CB M14	CATCH BASIN, TYPE "B1"																			
		SUB-TOTAL																			
		DRAIN LINES: M, M1 & M2																			
		GRAND TOTAL	1	2	2	1	4	1	3	2	1	2	246	268	96	88	92	2	1	330	20
	GDI B-21	GRATED DROP INLET TYPE "61614"					1														
	GDI L-16	GRATED DROP INLET TYPE "61614"					1														
	GDI L-15	GRATED DROP INLET TYPE "61614"					1														
	GDI L-14	GRATED DROP INLET TYPE "61614"					1														
	GDI L-13	GRATED DROP INLET TYPE "61614"					1														
	GDI L-12	GRATED DROP INLET TYPE "61614"				1															
	GDI L-11	GRATED DROP INLET TYPE "61614				1															

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