

NOTE: THIS SHEET IS FOR THE USE OF THE RESIDENT ENGINEER ONLY AND NOT FOR THE CONTRACTOR'S USE.				PROJECT: MOAHALUA ROAD (PUULOA I.C. TO MIDDLE STREET-UNIT 3A) PROJECT NO.: TQF-F-078-1(18)																				QUANTITY AND COST CONTROL SHEET																FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
																																								HAWAII	HAW.	TQF-F-078-1(18)	078	1A	266
ITEM NO.						104	104	201	202	202	203	206	206	202	206	206		206	206	206	206	206	206	209	302	302		304	305	401	401	407	408	503	503										
						.0500	.0900	.2100	.0410	.0440	.0160	.2020	.2030	.0420	.2050		.5000	.5200		.6001	.6002	.6003	.7211	.7250		.8200	.8300	.0100	.0100	.0200		.1110	.1110	.0300	.0500	.0100	.0100	.0000	.0021						
ITEM						CONSTRUCTION AND MAINTENANCE DETOURS	TEMPORARY CONSTRUCTION FENCE AT PARK	REMOVING BRANCHES OF LARGE TREE	DEMOLITION AND REMOVAL OF EXISTING MOAHALUA BRIDGES	REMOVAL OF CONC TRANSFORMER VAULT	ROADWAY EXCAVATION	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	STRUCTURE EXCAVATION FOR SPRINKLER MAIN	DEMOLITION AND REMOVAL OF EXISTING DAMON OVERPASS ABUTMENT	STRUCTURE EXCAVATION FOR SEWER SYSTEM		STRUCTURE EXCAVATION FOR RETAINING WALLS	* STRUCTURE EXCAVATION FOR RETAINING WALLS		STRUCTURE EXCAVATION FOR BRIDGES - MOAHALUA STREAM BRIDGE	STRUCTURE EXCAVATION FOR BRIDGES - KAUA STREET TRESTLE	STRUCTURE EXCAVATION FOR BRIDGES - DAMON OVERPASS	STRUCTURE BACKFILL FOR BRIDGE	STRUCTURE BACKFILL FOR RETAINING WALLS		FILLER MATERIAL FOR STRUCTURES	FILTER MATERIAL FOR RETAINING WALLS	SETTLEMENT PLATFORMS	RECYCLED PLANT MIXED ASPHALT TREATED BASE COURSE - SALVAGEABLE EXISTING ROADWAY ASPHALT CONCRETE	RECYCLED PLANT MIXED ASPHALT TREATED BASE COURSE - SALVAGEABLE STOCKPILE ASPHALT CONCRETE		AGGREGATE BASE	AGGREGATE SUBBASE	ASPHALT CONC PAVEMENT, MIX NO. 111	ASPHALT CONC PAVEMENT, MIX NO. V	SS-1 EMULSIFIED ASPHALT FOR BITUMINOUS TACK COAT	MC-30 LIQUID ASPHALT FOR PRIME COAT	*	CL A CONC OTHER THAN IN BRIDGES	CONC FOR DRAINAGE SYSTEM					
UNIT USED						F.A.	L.S.	L.S.	L.S.	L.S.	CU YD	CU YD	CU YD	L.S.	CU YD	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD							
ROADWAY										73,330				L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
DRAINAGE SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
LANDSCAPING AND SPRINKLER SYSTEM											73,330		212	L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
MOAHALUA STREAM BRIDGES											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
KAUA STREET TRESTLE											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
DAMON OVERPASS											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
RETAINING WALL NO. 5											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
RETAINING WALL NO. 6											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
RETAINING WALL NO. 7											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
PLANTER "B"											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
PLANTER "C"											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
PLANTER "D"											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
HIGHWAY LIGHTING SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
U.S. ARMY SEWER SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
DIVISION OF WASTEWATER MANAGEMENT SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
BOARD OF WATER SUPPLY SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
GASCO SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
HAWAIIAN TELEPHONE SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
JOINT TRUNKING SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
FIRE ALARM SYSTEM											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
CONSTRUCTION ENGINEERING BID ITEMS											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
TRAINING											73,330			L.S.	CU YD	CU YD		174	CU YD		CU YD	CU YD	CU YD	CU YD	CU YD		CU YD	CU YD	EACH	TON	TON		CU YD	CU YD	TON	TON	GAL	GAL	CU YD	CU YD					
ESTIMATED TOTAL											73,330	3614	212		755		9278	174	CU YD		2893	389	1475	2921	8965		427	1496	5	9000	5000		2084	14,324	1822	5309	1372	3315	513	133					
FIELD ADJUSTED TOTAL																																													
CONTROL																																													
UNIT PRICE																																													
ITEM NO.																																													

* ADDENDUM No. 1

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																																							HAWAII	HAW.	TQF-F-078-1(18)	1978	1-B	266
ITEM NO.		503		503	503	503	503	503	503	503	503		503	503	503	503	504	504		504	505	505		505	505	507		510		602	602	602		602	602	602								
		1061		1062	1063	1062	1063	1064	1069	1091	1094	1095		1802	1803	2080	2060	4200	8512		9252	10010	0430		4300	7000	7000		0100		0051	0052	0053		0062	0063	0064							
ITEM		CONC IN RETAINING WALL NO. 5		CONC IN RETAINING WALL NO. 6	CONC IN RETAINING WALL NO. 7	CONCRETE IN PLANTER "B"	CONCRETE IN PLANTER "C"	CONCRETE IN PLANTER "D"	CONC IN MOANALUA STREAM BRIDGES	CONC IN FOOTING FOR MOANALUA STREAM BRIDGES	CONC IN KAU STREET TRESTLE	CONC IN FOOTING FOR KAU STREET TRESTLE		CONCRETE IN DAMON OVERPASS STRUCTURE	CONC IN FOOTING FOR DAMON OVERPASS STRUCTURE	CLASS B CONC FOR WATER SYSTEM	CLASS B CONC FOR SEWER SYSTEM	TYPE IV PRESTRESSED CONC GIRDERS	POST TENSIONING OPERATIONS FOR CAST-IN-PLACE STRUCTURE - DAMON OVERPASS STRUCTURE		CONC FOR POST-TENSIONED CAST-IN-PLACE STRUCTURE - DAMON OVERPASS STRUCTURE	PILE LOAD TEST	PRECAST, PRESTRESSED CONC PILES, FURNISHED	PRECAST, PRESTRESSED CONC PILES, DRIVEN	PILE DRIVING EQUIPMENT EXPENSE (NOT TO EXCEED \$8,000)	CONC BRIDGE PARAPET, INCLUDING END POST	PENETRATION TESTS		REINFORCING STEEL IN RETAINING WALL NO. 5	REINFORCING STEEL IN RETAINING WALL NO. 6	REINFORCING STEEL IN RETAINING WALL NO. 7		REINFORCING STEEL IN PLANTER "B"	REINFORCING STEEL IN PLANTER "C"	REINFORCING STEEL IN PLANTER "D"									
UNIT USED		L.S.		L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.		L.S.	L.S.	CU YD	CU YD	LN FT	L.S.		L.S.	EACH	LN FT		LN FT	L.S.	LN FT		EACH		L.S.	L.S.	L.S.		L.S.	L.S.	L.S.							
ROADWAY																																												
DRAINAGE SYSTEM																																												
LANDSCAPING AND SPRINKLER SYSTEM																																												
MOANALUA STREAM BRIDGES									(749 C.Y.)	(672 C.Y.)								2245						35,502	34,235	332																		
KAU STREET TRESTLE											(248 C.Y.)	(130 C.Y.)						1219						7105	6870	235																		
DAMON OVERPASS														(330 C.Y.)	(551 C.Y.)				(90,360 LBS.)		(1130 C.Y.)	2	18,516	17,826	1175	10																		
RETAINING WALL NO. 5		(284 C.Y.)																													(32,014 LBS.)													
RETAINING WALL NO. 6				(4922 C.Y.)																					4713	4541																		
RETAINING WALL NO. 7					(255 C.Y.)																																							
PLANTER "B"						(90 C.Y.)																														(79,65 LBS.)								
PLANTER "C"							(471 C.Y.)																													(51,740 LBS.)								
PLANTER "D"								(293 C.Y.)																												(29,903 LBS.)								
HIGHWAY LIGHTING SYSTEM																																												
U.S. ARMY SEWER SYSTEM																	1																											
DIVISION OF WASTEWATER MANAGEMENT SYSTEM																	4																											
BOARD OF WATER SUPPLY SYSTEM																2																												
GASCO SYSTEM																																												
HAWAIIAN TELEPHONE SYSTEM																																												
JOINT TRUNKING SYSTEM																																												
FIRE ALARM SYSTEM																																												
CONSTRUCTION ENGINEERING BID ITEMS																																												
TRAINING																																												
ESTIMATED TOTAL		(284 C.Y.)		(4922 C.Y.)	(255 C.Y.)	(90 C.Y.)	(471 C.Y.)	(293 C.Y.)	(749 C.Y.)	(672 C.Y.)	(248 C.Y.)	(130 C.Y.)		(330 C.Y.)	(551 C.Y.)	2	5	3464	(90,360 LBS.)		(1130 C.Y.)	2	85,741		82,631		1742		40		(32,014 LBS.)	(563,309 LBS.)	(23,677 LBS.)		(79,65 LBS.)	(51,740 LBS.)	(29,903 LBS.)							
FIELD ADJUSTED TOTAL																																												
CONTROL																																												
UNIT PRICE																																												
ITEM NO.																																												

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																																HAWAII	HAW.	TQF-F-078-1(13)	1978	1-D	266				
ITEM NO.		604		604	604		606	606	606	606	606					606		606		606									607	608		608	609	609		609	609				
		.4010		.4800	.4750		.3100	.3200	.4010	.4100	.4110	.4120					.4011		.9100		.9110		.0020										.9800	.6200		.6000	.2010	.2015	.2614	.2710	.2715
ITEM		ADJUSTING MANHOLE FRAME AND COVER		ADJUSTING TYPE A WATER MANHOLE TOP SLAB	ADJUSTING GASCO MANHOLE FRAME AND COVER		GUARD RAIL, TYPE 3 - SINGLE WITH STEEL POST	GUARD RAIL, TYPE 3 - SINGLE WITH RUB RAIL ON STEEL POST	RIGID BORDER TYPE A	GUARD RAIL, TYPE 4A - CONC RIGID BORDER	GUARD RAIL, TYPE 4B - CONC RIGID BORDER (LESS THAN ONE FOOT DIFFERENCE IN FINISH GRADE)	GUARD RAIL, TYPE 4C - CONC RIGID BORDER (1-FOOT TO 2'-4" DIFFERENCE IN FINISH GRADE)					RIGID BORDER TYPE A-1		* PORTABLE CONCRETE GUARD RAIL		* RETRACTABLE PORTABLE CONC GUARD RAIL		6-FOOT CHAIN LINK FENCE WITH TOP RAIL AND CONCRETE FOOTINGS									END POST WITH CHAIN AND LOCK	4-INCH PLAIN CONC SIDEWALK		BED COURSE MATERIAL FOR SIDEWALK	CURB, TYPE 2A	GUTTER, TYPE 2 (G1218)	GUTTER, TYPE 2 (G1614)	CURS AND GUTTER, TYPE 2AG	CURS AND GUTTER, TYPE 2AGH	
UNIT USED		EACH		EACH	EACH		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT					LIN FT		LIN FT		LIN FT		LIN FT								EACH	SQ YD		CU YD	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT		
ROADWAY							703	325	2014	43	2447	195					340		1685 1686		1690 1691		340								1	1917		150	160	220	370	110	1510		
DRAINAGE SYSTEM																																									
LANDSCAPING AND SPRINKLER SYSTEM																																									
MOANALUA STREAM BRIDGES																																									
KAUA STREET TRESTLE																																									
DAMON OVERPASS																																									
RETAINING WALL NO. 5																																									
RETAINING WALL NO. 6																																									
RETAINING WALL NO. 7																																									
PLANTER "B"																																									
PLANTER "C"																																									
PLANTER "D"																																									
HIGHWAY LIGHTING SYSTEM																																									
U.S. ARMY SEWER SYSTEM																																									
DIVISION OF WASTEWATER MANAGEMENT SYSTEM																																									
BOARD OF WATER SUPPLY SYSTEM		14		2																																					
GASCO SYSTEM				1																																					
HAWAIIAN TELEPHONE SYSTEM																																									
JOINT TRUNKING SYSTEM																																									
FIRE ALARM SYSTEM																																									
CONSTRUCTION ENGINEERING BID ITEMS																																									
TRAINING																																									
ESTIMATED TOTAL		14		2	1		703	325	2014	43	2447	195					340		1685 1686		1690 1691		340								1	1917		150	160	220	370	110	1510		
FIELD ADJUSTED TOTAL																																									
CONTROL																																									
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PROJECT: MOANALUA ROAD (PUULOA I.C. TO MIDDLE STREET-UNIT 3A)
PROJECT NO.: TQF-F-078-1 (18)

QUANTITY AND
COST CONTROL SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-F- 078-1(18)	1978	1-E	266

ITEM NO.	609	612	614		616	616	616	616	616	616	616	616	616	616		616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616	616
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* ADDENDUM No. 1

NOTE: THIS SHEET IS FOR THE USE OF THE
RESIDENT ENGINEER ONLY AND
NOT FOR THE CONTRACTOR'S USE.

PROJECT: MOANALUA ROAD (PULLOA I.C. TO MIDDLE STREET - UNIT 3A)
PROJECT NO.: TQF-F-078-1(18)

QUANTITY AND
COST CONTROL SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-F-078-1(18)	1978	1-F	266

ITEM NO.		616	616	616	616	616	616	616	616	616		616		616		619	619	619	619	619	619	619	619			619	619	619		619	619		619	619		619	
		.2900	.3500	.3510	.3530	.3540	.3660	.3520	.3701	.3702	.7010		.7020		.9011		.0101	.0201	.0301	.0401	.0751	.4100	.4250	.4251			.4252	.4501	.4502		.7201	.7202		.9100	.9101		.9102
ITEM		2 GPH DRIP IRRIGATION EMITTERS	3/4-INCH REMOTE CONTROL VALVE WITH VALVE BOX	1-INCH REMOTE CONTROL VALVE WITH VALVE BOX	1-1/2 INCH REMOTE CONTROL VALVE WITH VALVE BOX	2-INCH REMOTE CONTROL VALVE WITH VALVE BOX	3-INCH DOUBLE CHECK VALVE BACKFLOW PREVENTER WITH TWO GATE VALVES	1- 1/4 INCH REMOTE CONTROL VALVE WITH VALVE BOX	2-1/2 INCH GATE VALVE WITH VALVE BOX	3-INCH GATE VALVE WITH VALVE BOX	AUTOMATIC CONTROLLER (11 STATIONS)		AUTOMATIC CONTROLLER (12 STATIONS)		14 GAGE DIRECT BURIAL CABLE		PLANTING TREES, ERYTHRINA SANDWICENSIS (WILLI-WILLI) 48-INCHES HIGH IN 5-GALLON CANS	PLANTING TREES, TABERBUITA ARGENTEA SILVER TRUMPET 96-INCHES HIGH IN 25-GALLON CANS	PLANTING TREES, TABERBUITA DONNELL-SMITHII (GOLD TREE) 96-INCHES HIGH IN 25-GALLON CANS	PLANTING TREES, CASSIAJAY X C.FIST (RAINFLOW SHOWER 96-INCHES HIGH IN 25-GALLON CANS	PLANTING TREES, SPATHODEA CAMPANULATA (AFRICAN TULIP) 48-INCHES HIGH IN 5-GALLON CANS	PLANTING SHRUBS, THEVETIA PERUVIANA (BE-STILL) 48-INCHES HIGH IN 5-GALLON CANS	PLANTING SHRUBS, NERTUM OLEANDER (PINK OLEANTER) 24-INCHES HIGH IN 1-GALLON CANS	PLANTING SHRUBS, NERTUM OLEANDER (RED OLEANDER) 24-INCHES HIGH IN 1-GALLON CANS			* PLANTING SHRUBS, NERTUM OLEANDER (ORANGE OLEANDER) 24-INCHES HIGH IN 1-GALLON CANS	* PLANTING SHRUBS, CALLISTEMON LANCEOLATUS (BOTTLE BRUSH) 60-INCHES HIGH IN 10-GALLON CANS	PLANTING SHRUBS, CHRYSALIDOCARPUS LUTESCENS (ARECA PALM) 48-INCHES HIGH IN 5-GALLON CANS		PLANTING VINE, PYROSTEGIA IGNEA (HUAPALA VINE) 24-INCH LONG STEM IN 2.5 - GALLON CANS	PLANTING VINE, BAUHINIA GALPINI (RED BAUHINIA VINE) 18-INCH LONG STEM IN 1-GALLON CANS		RELOCATING RAINBOW SHOWER TREES	RELOCATING YELLOW POINCIANA TREES		RELOCATING ROYAL POINCIANA TREES
UNIT USED		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		EACH		L.S.		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			-CU YD Each	-SQ FT Each	EACH		EACH	EACH		EACH	EACH		EACH
ROADWAY																																					
DRAINAGE SYSTEM																																					
LANDSCAPING AND SPRINKLER SYSTEM		319	11	9	4	2		17	1	3	1		2		(1200 LIN. FT.)		9	13	7	2	9	30	35	250			35	12	160		37	64		6	1		2
MOANALUA STREAM BRIDGES																																					
KAUA STREET TRESTLE																																					
DAMON OVERPASS																																					
RETAINING WALL NO. 5																																					
RETAINING WALL NO. 6																																					
RETAINING WALL NO. 7																																					
PLANTER "B"																																					
PLANTER "C"																																					
PLANTER "D"																																					
HIGHWAY LIGHTING SYSTEM																																					
U.S. ARMY SEWER SYSTEM																																					
DIVISION OF WASTEWATER MANAGEMENT SYSTEM																																					
BOARD OF WATER SUPPLY SYSTEM							2																														
GASCO SYSTEM																																					
HAWAIIAN TELEPHONE SYSTEM																																					
JOINT TRUNKING SYSTEM																																					
FIRE ALARM SYSTEM																																					
CONSTRUCTION ENGINEERING BID ITEMS																																					
TRAINING																																					
ESTIMATED TOTAL		319	11	9	4	2	2	17	1	3	1		2		(1200 LIN. FT.)		9	13	7	2	9	30	35	250			35	12	160		37	64		6	1		2
FIELD ADJUSTED TOTAL																																					
CONTROL																																					
UNIT PRICE																																					
ITEM NO.																																					

NOTE: THIS SHEET IS FOR THE USE OF THE
RESIDENT ENGINEER ONLY AND
NOT FOR THE CONTRACTOR'S USE.

PROJECT: MOANALUA ROAD (PUULOA I.C. TO MIDDLE STREET-UNIT 3A)
PROJECT NO.: TQF-F-078-1(18)

QUANTITY AND
COST CONTROL SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-F-078-1(18)	1978	1-6	266

ITEM NO.		619	621	621		621	621	621		621	621		621	621	621		621	621	621	621	621	621	621	622	622	622			622	622	622								
		.9200	.0100	.0200		.1300	.2200	.2600		.4000	.4100		.4001	.4101		.4501	.5000	.5001		.5100	.5200	.5300	.5400	.5401		.5500	.7600	.0052	.0053	.0121			.1701	.1702	.2000	.5011	.5012		
ITEM		DRY RUBBLE	PANEL FOR EXPRESSWAY SIGN	PANEL FOR DESTINATION SIGN		BREAKWAY SIGN POST AND FOUNDATION FOR DESTINATION SIGN	TYPE C POST AND ARMS FOR EXPRESSWAY SIGN	TYPE D OR F POST AND ARMS FOR EXPRESSWAY SIGN		REFLECTOR MARKER (RM-2)	REFLECTOR MARKER (RM-2) WITH POST		REFLECTOR MARKER (RM-9)	REFLECTOR MARKER (RM-9) WITH POST		REFLECTOR MARKER MOUNTED ON CONC BARRIER	REGULATORY AND WARNING SIGN (10 SQUARE FEET OR LESS)	RELOCATED REGULATORY AND WARNING SIGN		REGULATORY AND WARNING SIGN (10 SQUARE FEET OR LESS) WITH POST	REGULATORY AND WARNING SIGN (GREATER THAN 10 SQUARE FEET)	REGULATORY AND WARNING SIGN (GREATER THAN 10 SQUARE FEET), WITH POST	* REGULATORY AND WARNING Sign (Construction)	RELOCATED REGULATORY AND WARNING SIGN (CONSTRUCTION)		REGULATORY AND WARNING SIGN (CONSTRUCTION) WITH POST	MILE POST MARKER WITH POST	HIGHWAY LIGHTING STANDARD, SINGLE BRACKET 250 W LUMINAIRE AND FOUNDATION	HIGHWAY LIGHTING STANDARD, SINGLE BRACKET 400 W LUMINAIRE AND FOUNDATION	HIGHWAY LIGHTING STANDARD, SINGLE BRACKET 150 W LUMINAIRE MOUNTED ON STRUCTURE			* RELOCATE HIGHWAY LIGHTING SYSTEM	REMOVE HIGHWAY LIGHTING SYSTEM	EXPRESSWAY SIGN LIGHTING SYSTEM	TYPE B PULLBOX FOR HIGHWAY LIGHTING SYSTEM	TYPE B PULLBOX FOR SPRINKLER SYSTEM		
UNIT USED		CU YD	CU YD	CU YD		EACH	EACH	EACH		EACH	EACH		EACH	EACH		EACH	EACH	EACH		EACH	EACH	EACH	Each	EACH		EACH	EACH	EACH	EACH	EACH			L.S.	L.S.	L.S.	EACH	EACH		
ROADWAY		352	1487	246		4	2	1		19	46		2	3		28	26	3		23	3	5	6	27		14	3												
DRAINAGE SYSTEM																																							
LANDSCAPING AND SPRINKLER SYSTEM																																							
MOANALUA STREAM BRIDGES																																							
KAUA STREET TRESTLE																																							
DAMON OVERPASS																																							
RETAINING WALL NO. 5																																							
RETAINING WALL NO. 6																																							
RETAINING WALL NO. 7																																							
PLANTER "B"																																							
PLANTER "C"																																							
PLANTER "D"																																							
HIGHWAY LIGHTING SYSTEM																													7	7	4						9	8	
U.S. ARMY SEWER SYSTEM																																							
DIVISION OF WASTEWATER MANAGEMENT SYSTEM																																							
BOARD OF WATER SUPPLY SYSTEM																																							
GASCO SYSTEM																																							
HAWAIIAN TELEPHONE SYSTEM																																							
JOINT TRUNKING SYSTEM																																							
FIRE ALARM SYSTEM																																							
CONSTRUCTION ENGINEERING BID ITEMS																																							
TRAINING																																							
ESTIMATED TOTAL		352	1487	246		4	2	1		19	46		2	3		28	26	3		23	3	5	6	27		14	3	7	7	4					9	8			
FIELD ADJUSTED TOTAL																																							
CONTROL																																							
UNIT PRICE																																							
ITEM NO.																																			</				

NOTE: THIS SHEET IS FOR THE USE OF THE
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PROJECT: MOANALUA ROAD (PULLOA I.C. TO MIDDLE STREET - UNIT 3A)
PROJECT NO.: TQF-F-078-1(18)

QUANTITY AND
COST CONTROL SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-F-078-1(18)	1978	1-H	200

ITEM NO.	622	622	622	622	623	622	624	624	624	623	624	624	624	624	623	623	625		625	625	625	626	626	629		629	629	629		629	629	629	629	629	629	
	.5050	.5051	.5060	.5071	.8011	.5061	.1002	.1640	.6670	.2820	.1737	.4679	.4781	.9011	.2840	.3120	.0200		.2010	.2070	.2810	.0201	.0300	.0301	.1010		.1020	.1030	.1035		.2010	.2030	.2040	.2070	.3000	.4000
ITEM	CONDUIT AND CABLE FOR HIGHWAY LIGHTING SYSTEM	CONDUIT AND CABLE FOR SPRINKLER SYSTEM SERVICE	PAD MOUNT TRANSFORMER FOR HIGHWAY LIGHTING SYSTEM	CONTROL CABINET, EQUIPMENT AND FOUNDATION FOR HIGHWAY LIGHTING SYSTEM	FURNISHING AND INSTALLING TRAFFIC COUNT STATION SYSTEM	SNATCH CABINET, PAD FOUNDATION	FURNISHING AND INSTALLING 6-INCH CAST IRON PIPE	FURNISHING AND INSTALLING CAST IRON FITTINGS	REMOVING, AND STOCKPILING FIRE HYDRANT (BWS TO PICK UP)	LOOP DETECTOR SENSING UNIT (4 LOOPS 6'X8')	FURNISHING AND INSTALLING 6-INCH PLUG AND 6-INCH HUB CLAMP WITH STRONG BACK	REMOVING, CLEANING, PAINTING, AND REINSTALLING 7.5-FOOT HEIGHT FIRE HYDRANT	REMOVING AND STOCKPILING WATER METER (BWS TO PICK UP)	42-INCH WATER METER CONCRETE DEADMAN	LOOP DETECTOR SENSING UNIT (2 LOOPS 6'X8')	NO.14 2-CONDUCTOR LOOP DETECTOR LEAD-IN CABLE	BED COURSE MATERIAL FOR SEWER PIPE		8-INCH VITRIFIED CLAY SEWER PIPE	24-INCH VITRIFIED CLAY SEWER PIPE	REINFORCED CONC JACKET FOR 8-INCH VITRIFIED CLAY SEWER PIPE	TYPE II BARRICADES WITH STEADY-BURN CAMP	Type III Barricades	RELOCATED TYPE III BARRICADES	PAVEMENT STRIPING		CROSSWALK MARKING	PAVEMENT ARROWS	PAVEMENT DIAMONDS		TYPE A PAVEMENT MARKERS	TYPE C PAVEMENT MARKERS	TYPE D PAVEMENT MARKERS	TYPE H PAVEMENT MARKERS	REMOVING PAVEMENT MARKERS	REMOVING PAVEMENT STRIPING
UNIT USED	L.S.	L.S.	EACH	EACH	L.S.	EACH	LIN FT	LB	EACH	EACH	EACH	EACH	EACH	L.S.	EACH	L.S.	CU YD		LIN FT	LIN FT	LIN FT	EACH	Each	EACH	LIN FT		LANE	EACH	EACH		EACH	EACH	EACH	EACH	EACH	LIN FT
ROADWAY										3					2							8	2	5	16800		4	3	27		2364	333	32	500	1200	2000
DRAINAGE SYSTEM																																				
LANDSCAPING AND SPRINKLER SYSTEM																																				
MOANALUA STREAM BRIDGES																																				
KAUA STREET TRESTLE																																				
DAMON OVERPASS																																				
RETAINING WALL NO. 5																																				
RETAINING WALL NO. 6																																				
RETAINING WALL NO. 7																																				
PLANTER "B"																																				
PLANTER "C"																																				
PLANTER "D"																																				
HIGHWAY LIGHTING SYSTEM			1	1		1										1																				
U.S. ARMY SEWER SYSTEM																	30			230																
DIVISION OF WASTEWATER MANAGEMENT SYSTEM																	36		180		36															
BOARD OF WATER SUPPLY SYSTEM							17	66	5		5	1	1																							
GASCO SYSTEM																																				
HAWAIIAN TELEPHONE SYSTEM																																				
JOINT TRUNKING SYSTEM																																				
FIRE ALARM SYSTEM																																				
CONSTRUCTION ENGINEERING BID ITEMS																																				
TRAINING																																				
ESTIMATED TOTAL			1	1		1	17	66	5	3	5	1	1		2	(635 LIN. FT.)	66		180	230	36	8	2	5	16800		4	3	27		2364	333	32	500	1200	2000
FIELD ADJUSTED TOTAL																																				
CONTROL																																				
UNIT PRICE																																				
ITEM NO.																																				

