

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(85)	1970	2	98

ESTIMATED QUANTITIES

NO.	ITEM	UNIT	QUANTITIES				NO.	ITEM	UNIT	QUANTITIES			
			AREA 1A	AREA 1B	AREA 2	TOTAL				AREA 1A	AREA 1B	AREA 2	TOTAL
							209.80	FURNISH 2'-0" LENGTH 3/8" STEEL PIPE, WITH COUPLING	LF	2	4	12	18
							209.81	FURNISH 5'-0" LENGTH 3/8" STEEL PIPE, WITH COUPLING	LF	5	15		20
105.20	SECURITY GUARD SERVICE	MAN WEEK	15	15	30	60	209.82	FURNISH 10'-0" LENGTH 3/8" STEEL PIPE, WITH COUPLING	LF	250	250	500	1000
							209.90	STORAGE CONTAINER FOR INSTRUMENTS SUPPLIED BY ENGINEER	MONTH	14			14
							209.91	2 KW PORTABLE GENERATOR	HR	350	75	75	500
202.60	REMOVAL OF EMBANKMENT	CY		4500		4500	209.92	500 WATT FLOODLIGHT	EA	10			10
202.11	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS				L.S.	209.04	PROVIDE ELECTRICIAN	F.A.				F.A.
203.10	IMPORTED BORROW	TON		7290	16210	23500	209.05	PROVIDE PLUMBER	F.A.				F.A.
							209.100	FURNISH MISC. INSTRUMENTATION MATERIALS	F.A.				F.A.
208.01	VERTICAL SAND DRAINS, AREA 2A	LF			4170	4170	209.110	CONTROL STAKES	EA	3	26	77	106
208.02	VERTICAL SAND DRAINS, AREA 2B	LF			16819	16819	209.111	SETTLEMENT PLATFORMS	EA		5	20	25
208.03	VERTICAL PAPER/PLASTIC DRAINS, AREA 2C	LF			18626	18626							
208.04	PERMEABLE MATERIAL BLANKET	CY		600	2400	3000	209.120	GROUNDWATER OBSERVATION WELLS	LF	12	24	105	141
							209.112	PROTECTIVE BARRICADES	EA	12	47	98	157
209.01	PROVIDE CARPENTER	F.A.				F.A.	209.130	CONTROLLED DELAY, PILE DRIVING CREW AND EQUIPMENT	F.A.				F.A.
209.02	PROVIDE WELDER AND WELDING EQUIPMENT	F.A.				F.A.	209.131	CONTROLLED DELAY, LIFTING CREW AND EQUIPMENT	F.A.				F.A.
209.03	PROVIDE LABORER	F.A.				F.A.	209.132	CONTROLLED DELAY, AUGER DRILLING CREW & EQUIPMENT	F.A.				F.A.
209.06	PROVIDE BORING RIG AND 2-MAN CREW	F.A.				F.A.	209.133	CONTROLLED DELAY, GRADING CREW AND EQUIPMENT	F.A.				F.A.
209.07	WASH OUT CENTRAL PIPE HOLE AFTER DRIVING	EA	5	13		18							
209.08	GROUT CENTRAL PIPE HOLE	EA	5	13		18	501.20	STEEL LOADING FRAME, ALTERNATIVE BID ITEM NO. 1	LS	L.S.			L.S.
209.10	INSTALLATION PLATFORM, AREA 1B (INCLUDES A-FRAME)	EA		1		1	501.21	STEEL LOADING FRAME, ALTERNATIVE BID ITEM NO. 2	LS	L.S.			L.S.
209.11	MOVE INSTALLATION PLATFORM	EA		4		4	501.22	OTHER STEEL ITEMS FOR LOAD TESTS	LS	L.S.			L.S.
209.12	MOVE A-FRAME, AREA 1A	EA	5			5	505.002	PILE LOAD TEST, QUICK TEST	EA	4			4
209.13	READING PLATFORM, AREA 1B	EA		4		4	505.003	PILE LOAD TEST, LONG TERM TEST	EA	1			1
209.20	15 FT. ALUMINUM EXTENSION LADDER	EA		2		2							
209.30	1/4 PVC PIPE AND COUPLINGS	LF				1900	505.012	12-INCH SQUARE PILE, FURNISHED	LF	226	448		674
209.31	3" PVC PIPE AND COUPLINGS	LF	226	448		674	505.014	16 1/2-INCH OCTAGONAL PILE, FURNISHED	LF	678	2300		2978
209.32	5" PVC PIPE AND COUPLINGS	LF	832	2300		3132	505.016	20-INCH COMPOSITE PILE, CONCRETE SECTION, FURNISHED	LF	152	152		304
209.40	FURNISH 2'-0" LENGTH EW-DRILL ROD, WITH COUPLING	LF	16	132	136	284	505.017	20-INCH COMPOSITE PILE, STEEL SECTION, FURNISHED	LF	87	87		174
209.41	FURNISH 5'-0" LENGTH EW-DRILL ROD, WITH COUPLING	LF	5	120	410	535	505.018	12-INCH SQUARE PILE, DRIVEN	LF	222	444		666
209.42	FURNISH 10'-0" LENGTH EW-DRILL ROD, WITH COUPLING	LF	160	1520	2790	4470	505.015	16 1/2-INCH OCTAGONAL PILE, DRIVEN	LF	650	2200		2850
209.50	FURNISH 2'-0" LENGTH 1" STEEL PIPE, WITH COUPLING	LF	18	148	284	450	505.018	20-INCH COMPOSITE PILE, DRIVEN	LF	230	230		460
209.51	FURNISH 5'-0" LENGTH 1" STEEL PIPE, WITH COUPLING	LF	10	145	415	570							
209.52	FURNISH 10'-0" LENGTH 1" STEEL PIPE, WITH COUPLING	LF	410	2080	4710	7200	505.022	20-INCH STEEL SLEEVE, FURNISHED	LF	106	32		138
209.60	FURNISH 2'-0" LENGTH 4" PIPE, WITH COUPLING	LF	4	30	54	88	505.024	24-INCH STEEL SLEEVE, FURNISHED	LF	32	208		240
209.61	FURNISH 5'-0" LENGTH 4" PIPE, WITH COUPLING	LF	30	185	365	580	505.026	30-INCH STEEL SLEEVE, FURNISHED	LF	90	16		106
							505.023	20-INCH STEEL SLEEVE, INSTALLED	LF	106	32		138
209.62	FURNISH 4" PIPE CAP	EA	2	9	19	30	505.025	24-INCH STEEL SLEEVE, INSTALLED	LF	32	208		240
209.63	FURNISH 1" PIPE CAP	EA	2	16	36	54	505.027	30-INCH STEEL SLEEVE, INSTALLED	LF	90	16		106
209.70	FURNISH 2'-0" LENGTH 1/2" STEEL PIPE, WITH COUPLING	LF				10							
209.71	FURNISH 5'-0" LENGTH 1/2" STEEL PIPE, WITH COUPLING	LF				20							
209.72	FURNISH 10'-0" LENGTH 1/2" STEEL PIPE, WITH COUPLING	LF				120							



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Frank M. Clemente, Jr.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KEEHI INTERCHANGE
FIELD TESTING PROGRAM

ESTIMATED QUANTITIES

INTERSTATE ROUTE H-1
PROJECT NO. I-H1-1(85)
SCALE: N/A
DATE: 3/31/70
SHEET NO. 2 OF 35 SHEETS

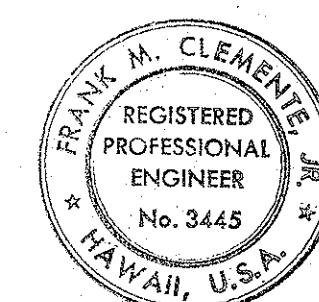
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(89)	1970	2A	38

ESTIMATED QUANTITIES

NO.	ITEM	UNIT	QUANTITIES				NO.	ITEM	UNIT	QUANTITIES			
			AREA 1A	AREA 1B	AREA 2	TOTAL				AREA 1A	AREA 1B	AREA 2	TOTAL
505.041	PILE SPLICE, STANDARD TYPE, FOR 16 1/2-INCH OCTAGONAL PILE, FURNISHED & INSTALLED	EA	2	4		6							
505.032	PILE SPLICE, DOWEL TYPE, FOR 12-INCH SQUARE PILE, FURNISHED & INSTALLED	EA	3			3							
505.042	PILE SPLICE, DOWEL TYPE, FOR 16 1/2-INCH OCTAGONAL PILE, FURNISHED & INSTALLED	EA	6	12		18							
505.31	COMPOSITE PILE SPLICE, DOWEL / S-M, FURNISHED & INSTALLED	EA	1	1		2							
505.033	PILE SPLICE, MECHANICAL TYPE, FOR 12-INCH SQUARE PILE - FURNISHED	EA	4	8		12							
505.034	PILE SPLICE, MECHANICAL TYPE, FOR 12-INCH SQUARE PILE - INSTALLED	EA	4	8		12							
505.043	PILE SPLICE, MECHANICAL TYPE, FOR 16 1/2-INCH OCTAGONAL PILE - FURNISHED	EA	9	18		27							
505.044	PILE SPLICE, MECHANICAL TYPE, FOR 16 1/2-INCH OCTAGONAL PILE - INSTALLED	EA	9	18		27							
505.061	CROSS DRIVING SHOE FOR 12-INCH SQUARE PILE - FURNISHED & INSTALLED	EA	1			1							
505.062	CROSS DRIVING SHOE FOR 16 1/2-INCH OCTAGONAL PILE - FURNISHED & INSTALLED	EA	3	3		11							
505.063	ROCK SHOE FOR 12-INCH SQUARE PILE - FURNISHED	EA	1	2		3							
505.064	ROCK SHOE FOR 12-INCH SQUARE PILE - INSTALLED	EA	1	2		3							
505.065	ROCK SHOE FOR 16 1/2-INCH OCTAGONAL PILE - FURNISHED	EA	2	6		8							
505.066	ROCK SHOE FOR 16 1/2-INCH OCTAGONAL PILE - INSTALLED	EA	2	6		8							
505.701	20-INCH TEST AUGER HOLES	LF	32			32							
607.010	6-FEET CHAIN LINK FENCE WITH CONCRETE FOOTINGS	LF	400	400	1300	2100							
607.264	CHAIN LINK GATE 6-FEET HIGH AND 4-FEET WIDE	EA	1		1	2							
607.238	CHAIN LINK GATE 6-FEET HIGH AND 24-FEET WIDE	EA		1	1	2							
619.900	TRANSPLANTING TREES, COCOS NIUFERA (COCONUT)	EA			10	10							
619.970	TRANSPLANTING TREES, SAMANEA SAMAN (MONKEYPOD)	EA			1	1							
636.01	FIELD OFFICE (2 BUILDINGS)	L.S.				L.S.							
636.10	PROJECT SITE LABORATORY	L.S.				L.S.							
639.01	TEMPORARY EROSION & SILTATION CONTROL MEASURES	FA	F.A.	F.A.	F.A.	F.A.							
641.01	HYDRO-MULCH SEEDING	S.F.		16100	38500	54600							
660.01	BITUMEN COATING	S.Y.		50		50							
699.01	MOBILIZATION	L.S.				L.S.							

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



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Frank M. Krumholz

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KEEHI INTERCHANGE
FIELD TESTING PROGRAM
ESTIMATED QUANTITIES
INTERSTATE ROUTE H-1
PROJECT NO. I-H1-1 (85)
SCALE: N/A DATE: 3/31/70
SHEET No. 2A OF 35 SHEETS