

TABULATION OF BIDS

Project No. BU-061-1(7), Unit 5
 Job No. 8147
 Type Code: 6201, X281, X023, X223, X921, ROW, PPM 30-4
 Bids Opened: August 4, 1960

Project: Pali Highway
 Island: Oahu
 Date Advertised: Honolulu Star-Bulletin, June 30, 1960

ITEM NO.	ITEM	UNIT USED	QUANTITY	MOSES AKIONA, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		JAS. W. GLOVER, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		HAWAIIAN DREDGING & CONSTRUCTION CO., LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		MORRISON-KNUDSEN COMPANY, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		T. SUGIYAMA DBA TERRITORIAL CONTRACTORS Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		J. M. TANAKA, INC., and CONST. EQUIPMENT, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
11A	Remov & Salv Exist Lava Rock Curb	lf	1,850	1.00	1850.00	.55	1017.50	.80	1480.00	.50	925.00	1.00	1850.00	1.25	2312.50	.65	1202.50
11B	Demol & Remov Certain Buildings	IS			1000.00		2400.00		2600.00		5000.00		3000.00		2750.00		1300.00
12(1)	Clearing & Grubbing	Acre	22	500.00	11000.00	730.00	16060.00	500.00	11000.00	650.00	14300.00	800.00	17600.00	2000.00	44000.00	600.00	13200.00
13	Roadway Excavation	cy	333,700	1.67	557279.00	2.06	687422.00	1.93	644041.00	2.55	850935.00	2.45	817565.00	4.15	1384855.00	2.75	917675.00
14(1)	Struc Exc other than at Bridges	cy	10,380	6.00	62280.00	6.90	71622.00	14.75	153105.00	5.00	51900.00	8.50	88230.00	13.65	141687.00	6.00	62280.00
14(2)	Struc Exc for Bridges	cy	4,360	8.50	37060.00	8.00	34880.00	12.25	53410.00	10.00	43600.00	9.70	42292.00	15.35	66926.00	8.00	34880.00
15	Ditch & Channel Exc	cy	830	8.00	6640.00	11.00	9130.00	9.00	7470.00	4.50	3735.00	6.50	5395.00	20.40	16932.00	5.00	4980.00
17(1)	Station Yard Overhaul	sta.yd	172,200	.02	3444.00	.02	3444.00	.03	5166.00	.02	3444.00	.02	3444.00	.04	6888.00	.02	3444.00
18	Compacting Original Ground	sy	5,500	.20	1100.00	.10	550.00	.20	1100.00	.10	550.00	.18	990.00	.20	1100.00	.15	825.00
23	Sprinkling	M gal.	3,204	3.00	9612.00	3.25	10413.00	5.00	16020.00	2.50	8010.00	3.60	11534.40	4.00	12816.00	3.00	9612.00
24(1)	Select Borrow Subbase Course	cy	9,500	2.40	22800.00	3.60	34200.00	2.20	20900.00	3.00	28500.00	3.40	32300.00	4.25	40375.00	3.00	28500.00
26	Untreated Base	cy	13,460	3.95	53167.00	4.50	60570.00	5.20	69992.00	4.00	53840.00	4.74	63800.40	5.80	78068.00	4.00	53840.00
29	Brooming Off	sy	1,800	.06	108.00	.06	108.00	.05	90.00	.30	540.00	.06	108.00	.15	270.00	.10	180.00
30(3)	Emul Asph, Mixing Type, for Prime Coat	gal.	12,670	.22	2787.40	.21	2660.70	.22	2787.40	.40	5068.00	.22	2787.40	.25	3167.50	.22	2787.40
31	Emul Asph, Pen Type, for Tack Coat	gal.	775	.27	209.25	.28	217.00	.27	209.25	.40	310.00	.27	209.25	.30	232.50	.30	232.50
39(2)	Asph Conc Pavement Mix No. III	ton	3,242	11.25	36472.50	11.15	36148.30	11.00	35662.00	15.00	48630.00	11.55	37445.10	12.00	38904.00	12.00	38904.00
39(4)	Asph Conc Pavement Mix No. V	ton	2,258	11.25	25402.50	11.15	25176.70	11.00	24838.00	15.00	33870.00	11.55	26079.90	12.00	27096.00	12.00	27096.00
40(1)	Portland Cement Conc Pavement	cy	990	33.50	33165.00	35.00	34650.00	33.00	32670.00	40.00	39600.00	32.27	31947.30	38.85	38461.50	32.00	31680.00
40(2)	Mesh Reinf for Portland Cement Conc Pave	sy	5,550	.10	555.00	.90	4995.00	1.00	5550.00	1.50	8325.00	.10	555.00	1.15	6382.50	1.00	5550.00
46(1)	Cl A-1 Conc other than in Bridges	cy	2,881	49.13	141543.53	49.00	141169.00	46.00	132526.00	70.00	201670.00	58.86	169575.66	65.00	187265.00	60.00	172860.00
46(2)	Cl B-1 Conc other than in Bridges	cy	92.6	65.00	6019.00	60.00	5556.00	60.00	5556.00	65.00	6019.00	66.95	6199.57	80.00	7408.00	60.00	5556.00
46A	Conc in Bridge, excl of Prestressed Member	IS			67860.00		80000.00		68000.00		90000.00		75312.00		100100.00		74800.00
46A-0	Prestressed Conc Members in Bridge (Struc 3)	IS			25000.00		23000.00		20000.00		25500.00		23920.00		26100.00		21450.00
46A-1	Conc in Bridge (Struc No. 4)	IS			68148.00		88000.00		96000.00		100000.00		74758.00		107270.00		88400.00
46A-2	Conc in Bridge (Struc No. 5)	IS			61639.00		69000.00		65000.00		88000.00		71286.00		87225.00		67100.00
46A-3	Conc in Bridge (Struc No. 7)	IS			6930.00		6000.00		6000.00		8600.00		6000.00		7700.00		6800.00
46A-4	Conc in Bridge (Struc No. 8)	IS			8050.00		10000.00		5000.00		15000.00		7450.00		11500.00		7800.00
46A-5	Conc in Bridge (Struc No. 12)	IS			8050.00		10000.00		5000.00		15000.00		7450.00		11500.00		7800.00
48(1)	Reinf Steel other than in Bridges	lb.	292,440	.16	46790.40	.16	46790.40	.16	46790.40	.225	65799.00	.165	48252.60	.18	52639.20	.20	58488.00
48A	Reinf Steel in Bridge, excl prestressed memb	IS			23648.00		23300.00		23600.00		30000.00		24227.00		27105.00		27000.00
48A-1	Reinf Steel in Bridge (Struc No. 4)	IS			30752.00		30300.00		30600.00		39000.00		31515.00		33616.00		35280.00
48A-2	Reinf Steel in Bridge (Struc No. 5)	IS			24515.00		24200.00		24400.00		31000.00		25113.00		26930.00		28080.00
48A-3	Reinf Steel in Bridge (Struc No. 7)	IS			1696.00		1675.00		1700.00		2100.00		1738.00		1925.00		1944.00
48A-4	Reinf Steel in Bridge (Struc No. 8)	IS			2736.00		2700.00		2700.00		3500.00		2805.00		3015.00		3114.00
48A-5	Reinf Steel in Bridge (Struc No. 12)	IS			6520.00		5450.00		5500.00		7000.00		5654.00		6200.00		6336.00
52	Filter Material	cy	1,200	6.00	7200.00	6.75	8100.00	7.50	9000.00	5.00	6000.00	4.90	5880.00	11.15	13380.00	7.50	9000.00
55(1a)	Metal Railing 1-1/2" Galv Steel Pipe	lf	600	4.26	2556.00	8.40	5040.00	10.00	6000.00	12.00	7200.00	6.00	3600.00	11.50	6900.00	8.75	5250.00
55(1b)	Metal Railing 1-1/4" Galv Steel Pipe	lf	20	5.00	100.00	3.50	70.00	8.00	160.00	9.00	180.00	5.00	100.00	15.00	300.00	8.00	160.00
55(1c)	Metal Hand Rail 1-1/2" Galv Steel Pipe	lf	95	6.00	570.00	3.10	294.50	11.00	1045.00	5.00	475.00	7.00	665.00	5.00	475.00	6.00	570.00
55(4)	Aluminum Railing	lf	2,320	5.61	13015.20	6.25	14500.00	6.00	13920.00	9.00	20880.00	9.35	21692.00	7.00	16240.00	6.00	13920.00
58(3)I	24" Cl III Reinf Conc Culv Pipe	lf	1,072	6.54	7010.88	8.50	9112.00	7.00	7504.00	8.00	8576.00	7.61	8157.92	10.00	10720.00	7.00	7504.00
58(4)I	24" Cl IV Reinf Conc Culv Pipe	lf	1,880	8.00	15040.00	10.00	18800.00	8.50	15980.00	9.50	17860.00	9.14	17183.20	12.00	22560.00	8.50	15980.00
58(5)I	30" Cl III Reinf Conc Culv Pipe	lf	412	8.25	3399.00	11.00	4532.00	9.00	3708.00	9.50	3914.00	9.48	3905.76	13.00	5356.00	9.00	3708.00
58(6)I	30" Cl IV Reinf Conc Culv Pipe	lf	600	10.50	6300.00	14.00	8400.00	11.00	6600.00	12.00	7200.00	11.83	7098.00	15.00	9000.00	11.50	6900.00
59(7b)	24" Corr Galv Sheet Metal Pipe (14 ga)	lf	14	8.00	112.00	6.80	95.20	7.00	98.00	10.00	140.00	6.69	93.66	10.00	140.00	7.00	98.00
59(7b)II	24" Corr Galv Sheet Metal Pipe (14 ga)	lf	2,920	6.20	18104.00	6.80	19856.00	7.70	22484.00	6.00	17520.00	6.64	19388.80	8.25	24090.00	6.50	18380.00

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				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
59(8b)II	30" Corr Galv Sheet Metal Pipe (14 ga)	lf	1,000	7.55	7550.00	8.35	8350.00	9.50	9500.00	7.50	7500.00	8.20	8200.00	9.95	9950.00	7.70	7700.00
59(7C)	24" Corr Galv Sheet Metal Spillway (16 ga)	lf	130	6.00	780.00	4.75	617.50	7.00	910.00	7.00	910.00	5.25	682.50	6.00	780.00	5.00	650.00
62	Cement Rubble Masonry	cy	685	38.00	26030.00	30.00	20550.00	30.00	20550.00	38.00	26030.00	35.00	23975.00	43.70	29934.50	30.00	20550.00
65	Grouted Rubble Paving	cy	14	40.00	560.00	41.50	581.00	45.00	630.00	60.00	840.00	39.00	546.00	50.00	700.00	35.00	490.00
67	Centerline Monuments	ea	10	30.00	300.00	14.00	140.00	20.00	200.00	80.00	800.00	10.00	100.00	20.00	200.00	15.00	150.00
69	Reconstructed Survey Monuments	ea	2	50.00	100.00	30.00	60.00	50.00	100.00	135.00	270.00	40.00	80.00	60.00	120.00	35.00	70.00
70(1a)	Type A Cast-in-Place Conc Curb	lf	3,910	2.10	8211.00	2.60	10166.00	2.50	9775.00	3.00	11730.00	2.22	8680.20	2.65	10361.50	2.50	9775.00
70(1b)	Type B Cast-in-Place Conc Curb	lf	580	2.50	1450.00	2.75	1595.00	3.00	1740.00	3.00	1740.00	5.00	2900.00	2.60	1508.00	2.70	1566.00
70(1c)	Type C Cast-in-Place Conc Curb	lf	110	4.00	440.00	5.00	550.00	4.00	440.00	7.00	770.00	5.50	605.00	4.50	495.00	5.00	550.00
70(1d)	Type D Cast-in-Place Conc Curb	lf	2,420	2.00	4840.00	2.25	5445.00	2.20	5324.00	3.00	7260.00	2.19	5299.80	2.70	6534.00	2.30	5566.00
70(1e)	Type E Cast-in-Place Conc Curb	lf	1,570	2.30	3611.00	2.45	3846.50	2.60	4082.00	3.00	4710.00	2.70	4239.00	3.00	4710.00	2.60	4082.00
70(1f)	Type H Cast-in-Place Conc Curb	lf	5,400	2.20	11880.00	2.45	13230.00	2.50	13500.00	3.00	16200.00	2.50	12500.00	2.55	13770.00	2.30	12420.00
70(2b)	Type B Cast-in-Place Conc Gutter	lf	430	3.10	1333.00	3.50	1505.00	2.50	1204.00	5.00	2150.00	3.90	1612.50	3.75	1548.00	3.60	1548.00
70(2c)	Type C Cast-in-Place Conc Gutter	lf	640	6.00	3840.00	6.10	3904.00	6.50	4160.00	8.00	5120.00	7.50	4800.00	8.10	5184.00	7.50	4800.00
70(2f)	Type F Cast-in-Place Conc Gutter	lf	1,290	7.15	9223.50	8.75	11287.50	9.10	11739.00	11.00	14190.00	10.15	13093.50	11.30	14577.00	8.60	11094.00
70(3a)	Type AG Cast-in-Place Conc Curb & Gutter	lf	2,080	3.00	6240.00	3.25	6760.00	3.30	6864.00	3.50	7280.00	3.17	6593.60	3.90	8112.00	3.10	6448.00
70(3b)	Type BG Cast-in-Place Conc Curb & Gutter	lf	270	3.20	864.00	3.40	918.00	3.70	999.00	4.00	1080.00	3.45	931.50	4.00	1080.00	3.60	972.00
70(3d)	Type DG Cast-in-Place Conc Curb & Gutter	lf	2,710	2.90	7859.00	3.00	8130.00	3.50	9485.00	3.50	9485.00	3.25	8807.50	3.75	10162.50	3.00	8130.00
70(3e)	Type EG Cast-in-Place Conc Curb & Gutter	lf	5,600	3.10	17360.00	3.10	17360.00	3.50	19600.00	3.50	19600.00	3.40	19040.00	3.25	18200.00	3.30	18480.00
70(3f)	Type HG Cast-in-Place Conc Curb & Gutter	lf	2,090	3.20	6688.00	3.10	6479.00	3.30	6897.00	3.50	7315.00	3.20	6688.00	3.85	8046.50	3.00	6270.00
71(1)	Standard Precast Conc Curb	lf	60	2.00	120.00	1.90	114.00	1.80	108.00	6.00	360.00	1.75	105.00	2.50	150.00	2.00	120.00
72(1)	Reconstruc Precast Conc Curb	lf	300	2.00	600.00	1.00	300.00	1.00	300.00	2.00	600.00	1.25	375.00	1.50	450.00	1.30	390.00
74	Reconstruc Lava Rock Curb	lf	320	2.00	640.00	1.10	352.00	1.00	320.00	2.00	640.00	1.25	400.00	2.00	640.00	1.50	480.00
76	Plain Conc Sidewalk	sf	17,800	.50	8900.00	.50	8900.00	.50	8900.00	.70	12460.00	.52	9256.00	.65	11570.00	.50	8900.00
77	Reinf Conc Driveway	sf	1,130	.70	791.00	.70	791.00	.60	678.00	.90	1017.00	.88	994.40	.80	904.00	.70	791.00
80(2)	Galv Steel Guard Rail w/Conc Posts	lf	3,900	4.00	15600.00	4.00	15600.00	3.65	14235.00	4.00	15600.00	5.60	21840.00	6.00	23400.00	4.00	15600.00
80(2A)	Aluminum Guard Rail w/Conc Posts	lf	3,900	3.95	15405.00	3.90	15210.00	3.80	14520.00	4.00	15600.00	5.65	22035.00	5.75	22425.00	4.00	15600.00
88(1a)	48" Chain Link Fence	lf	30	2.69	80.70	2.60	78.00	2.60	78.00	5.00	150.00	3.25	97.50	6.00	180.00	3.30	99.00
88(1b)	72" Chain Link Fence - Posts in conc Walls	lf	400	3.30	1320.00	3.25	1300.00	3.20	1280.00	6.00	2400.00	3.55	1420.00	3.75	1500.00	3.40	1360.00
88(1c)	72" Chain Link Fence, Posts in gr w/conc footing	lf	3,680	3.74	13763.20	3.60	13248.00	3.60	13248.00	6.50	23920.00	4.00	14720.00	4.20	15456.00	3.50	12800.00
88(3a)	72" Chain Link Gates 4' Wide	ea	4	50.00	200.00	40.00	160.00	40.00	160.00	90.00	360.00	70.00	280.00	80.00	320.00	50.00	200.00
97(3)	Brick Wall for Type B Water Manhole	lf	26.5	28.00	742.00	35.00	927.50	34.00	901.00	44.00	1166.00	38.00	1007.00	40.00	1060.00	35.00	927.50
97(3a)	Brick Wall for Type C Water Manhole	lf	13	26.00	338.00	30.00	390.00	30.00	390.00	44.00	572.00	37.00	481.00	35.00	455.00	33.00	429.00
97(4)	Brick Wall for Storm Drain Manhole	lf	50	25.00	1250.00	35.00	1750.00	30.00	1500.00	44.00	2200.00	35.00	1750.00	40.00	2000.00	35.00	1750.00
97(5)	Brick Wall for Sewer Manhole	lf	60	34.00	2040.00	32.00	1920.00	32.00	1920.00	44.00	2640.00	40.00	2400.00	35.00	2100.00	36.00	2160.00
97(6)	Exist Manholes to be compl demol	lf	57	10.00	570.00	6.00	342.00	10.00	570.00	7.00	399.00	10.00	570.00	10.00	570.00	15.00	855.00
97(7)	Drop Connec at Sewer Manhole	lf	19.5	40.00	780.00	80.00	1560.00	24.00	468.00	66.00	1287.00	57.00	1111.50	50.00	975.00	50.00	975.00
98(1)	Type A Cast-Iron Frame & Cover	ea	11	38.50	423.50	40.00	440.00	45.00	495.00	72.00	792.00	50.00	550.00	55.00	605.00	40.00	440.00
98(1a)	Type B Cast-Iron Frame & Cover	ea	29	36.75	1065.75	38.00	1102.00	45.00	1305.00	81.00	2349.00	50.00	1450.00	55.00	1595.00	40.00	1160.00
98(1c)	Stand 20" CI Frame & Cover for Water MH	ea	4	42.00	168.00	45.00	180.00	45.00	180.00	72.00	288.00	50.00	200.00	55.00	220.00	45.00	180.00
98(1f)	Salv, Clean & Stockpile Exist Sew MH Fr & Cov	ea	8	10.00	80.00	10.00	80.00	15.00	120.00	9.00	72.00	30.00	240.00	30.00	240.00	15.00	120.00
98(3)	Remov, Clean, Paint, Reinstall exist CI R & Cov	ea	3	10.00	30.00	15.00	45.00	20.00	60.00	20.00	60.00	30.00	90.00	35.00	105.00	25.00	75.00
98(4)	Furn Type C CI Frame & Cover	ea	9	40.00	360.00	44.00	396.00	40.00	360.00	84.00	756.00	40.00	360.00	55.00	495.00	36.00	324.00
98(5)	Install Type C CI Frame & Cover	ea	9	5.00	45.00	3.50	31.50	5.00	45.00	20.00	180.00	10.00	90.00	10.00	90.00	9.00	81.00
99(1)	Adjust Manhole Frame & Cover	ea	20	20.00	400.00	50.00	1000.00	50.00	1000.00	20.00	400.00	75.00	1500.00	75.00	1500.00	55.00	1100.00
99(3)	Brick Wall for Reconstr Manhole	lf	6	40.00	240.00	35.00	210.00	35.00	210.00	65.00	390.00	35.00	210.00	50.00	300.00	40.00	240.00

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 Island: Oahu
 Date Advertised: Honolulu Star-Bulletin, June 30, 1960

ITEM NO.	ITEM	UNIT USED	QUANTITY	MOSES AKIONA, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		JAS. W. GLOVER, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		HAWAIIAN DREDGING & CONSTRUCTION CO., LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		MORRISON-KNUDSEN COMPANY, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		T. SUGIYAMA DBA TERRITORIAL CONTRACTORS Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		J. M. TANAKA, INC., and CONSTR. EQUIPMENT, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
100(1)	6" Bell & Spigot CI Pipe	lf	150	4.00	600.00	4.10	615.00	6.00	900.00	4.00	600.00	4.70	705.00	6.45	967.50	6.00	900.00
100(1a)	8" Bell & Spigot CI Pipe	lf	445	5.50	2447.50	6.00	2670.00	7.00	3115.00	8.00	3560.00	6.60	2937.00	7.95	3537.75	7.00	3115.00
100(1b)	Remov, Clean, Reinstall 12" Bell & Spig CI Pipe	lf	240	2.50	600.00	2.60	624.00	3.00	720.00	2.00	480.00	7.00	1680.00	5.00	1200.00	4.50	1080.00
100(1c)	Remov, Clean, Haul 12" CI Bell & Spig Pipe	lf	30	5.00	150.00	1.50	45.00	2.00	60.00	1.50	45.00	6.00	180.00	4.00	120.00	2.50	75.00
100(1d)	Remov, Clean, Return 16" CI Pipe	lf	128	5.00	640.00	1.75	224.00	3.00	384.00	2.00	256.00	8.00	1024.00	4.50	576.00	3.50	448.00
100(5)	Cast-Iron Fittings	lb	2,250	.40	900.00	.40	900.00	.40	900.00	.40	900.00	.50	1125.00	.40	900.00	.45	1012.50
100(5a)	CI Fittings to be Remov, Cleaned & Ret.	lb	25	1.00	25.00	.10	2.50	.25	6.25	.40	10.00	.20	5.00	2.00	50.00	.10	2.50
100(6)	6" CI Gate Valve, Hub Ends, 150 lbs	ea	1	110.00	110.00	100.00	100.00	100.00	100.00	120.00	120.00	100.00	100.00	115.00	115.00	100.00	100.00
100(6a)	Remov, Clean, Paint, Reinstall 12" Gate Valve	ea	1	50.00	50.00	45.00	45.00	50.00	50.00	45.00	45.00	90.00	90.00	115.00	115.00	50.00	50.00
100(9)	2" Copper Pipe & Appurt (excl of exc)	lf	120	3.00	360.00	3.00	360.00	3.40	408.00	3.00	360.00	2.75	330.00	4.10	492.00	5.00	600.00
100(9a)	2" Copper Lateral & Appurt	ea	1	250.00	250.00	350.00	350.00	220.00	220.00	185.00	185.00	190.00	190.00	350.00	350.00	350.00	350.00
100(9b)	2" Copper Lateral & Appurt	ea	1	280.00	280.00	300.00	300.00	215.00	215.00	150.00	150.00	190.00	190.00	250.00	250.00	175.00	175.00
100(9c)	2-1/2" Copper Pipe & Appurt	lf	53	4.00	212.00	6.50	344.50	4.00	212.00	4.00	212.00	3.70	196.10	8.00	424.00	5.50	291.50
100(9d)	2-1/2" Copper Lateral & Appurt	ea	1	265.00	265.00	120.00	120.00	250.00	250.00	170.00	170.00	210.00	210.00	400.00	400.00	300.00	300.00
100(9e)	1-1/2" Copper Lateral & Appurt	ea	1	120.00	120.00	110.00	110.00	200.00	200.00	120.00	120.00	182.00	182.00	200.00	200.00	135.00	135.00
100(9f)	1-1/4" Copper Lateral & Appurt	ea	1	65.00	65.00	60.00	60.00	170.00	170.00	100.00	100.00	105.00	105.00	200.00	200.00	125.00	125.00
100(12)	Type II Meter Box Incl CI Frame & Cover	ea	6	30.00	180.00	45.00	270.00	50.00	300.00	35.00	210.00	45.00	270.00	60.00	360.00	50.00	300.00
100(12a)	Type "B" Precast Conc Box	ea	1	15.00	15.00	10.00	10.00	35.00	35.00	11.00	11.00	12.00	12.00	25.00	25.00	15.00	15.00
100(13)	3/4" Air Valve & Appurt	ea	1	75.00	75.00	72.00	72.00	50.00	50.00	30.00	30.00	80.00	80.00	85.00	85.00	80.00	80.00
100(13a)	Remov, Clean, Paint, Reinstall 3/4" Air Valve	ea	1	50.00	50.00	10.00	10.00	20.00	20.00	7.83	7.83	40.00	40.00	50.00	50.00	50.00	50.00
100(14)	Install Fire Hydrant 4'-0" Curb to Invert	ea	2	20.00	40.00	30.00	60.00	35.00	70.00	500.00	1000.00	75.00	150.00	50.00	100.00	80.00	160.00
100(14a)	Install Fire Hydrant 6'-0" Curb to Invert	ea	1	20.00	20.00	31.00	31.00	35.00	35.00	500.00	500.00	90.00	90.00	65.00	65.00	80.00	80.00
100(16)	Install 16" Bell & Spigot CI Pipe	lf	128	3.00	384.00	3.00	384.00	3.00	384.00	1.25	160.00	5.00	640.00	5.00	640.00	3.50	448.00
100(17a)	Furn 6" Bell & Spigot CI Pipe	lf	22	3.25	71.50	3.10	68.20	5.00	110.00	3.50	77.00	3.25	71.50	3.50	77.00	4.00	88.00
100(17b)	Furn 16" Bell & Spigot CI Pipe	lf	144	12.00	1728.00	12.00	1728.00	16.00	2304.00	21.00	3024.00	12.80	1843.20	13.25	1908.00	13.50	1944.00
100(17c)	Furn 20" Bell & Spigot CI Pipe	lf	6	30.00	180.00	25.00	150.00	21.00	126.00	28.00	168.00	19.40	116.40	25.00	150.00	18.00	108.00
100(18a)	Furn 6"x6" Tapping Sleeve w/6" Tap Valve	ea	1	170.00	170.00	160.00	160.00	200.00	200.00	400.00	400.00	163.00	163.00	200.00	200.00	285.00	285.00
100(18b)	Furn 12"x6" Tapping Sleeve w/6" Tap Valve	ea	1	225.00	225.00	200.00	200.00	250.00	250.00	650.00	650.00	194.00	194.00	300.00	300.00	425.00	425.00
100(19)	Furn Cast Iron Fittings	lb	4,149	.25	1037.25	.30	1244.70	.30	1244.70	.33	1369.17	.35	1452.15	.35	1452.15	.35	1452.15
101(1)	6" Vitrified Clay Sewer Pipe	lf	130	2.27	295.10	4.75	617.50	4.00	520.00	3.50	455.00	3.00	390.00	5.30	689.00	4.00	520.00
101(1a)	8" Vitrified Clay Sewer Pipe	lf	320	2.95	944.00	5.00	1600.00	5.00	1600.00	4.50	1440.00	3.70	1184.00	5.50	1760.00	8.00	2560.00
101(1b)	12" Vitrified Clay Sewer Pipe	lf	70	5.00	350.00	7.50	525.00	7.00	490.00	8.00	560.00	6.70	469.00	11.00	770.00	9.50	855.00
101(1c)	15" Vitrified Clay Sewer Pipe	lf	150	8.00	1200.00	10.00	1500.00	9.00	1350.00	13.00	1950.00	9.55	1432.50	12.40	1860.00	11.50	1725.00
101(1d)	18" Vitrified Clay Sewer Pipe	lf	770	12.00	9240.00	13.00	10010.00	10.00	7700.00	16.00	12320.00	13.45	10355.50	15.90	12243.00	1.25	962.50
101(2)	Conc Cradle for 6" Vit Clay Sewer Pipe	lf	130	1.30	169.00	1.30	169.00	1.00	130.00	2.50	325.00	1.25	162.50	1.25	162.50	1.50	195.00
101(2a)	Conc Cradle for 8" Vit Clay Sewer Pipe	lf	320	1.30	416.00	1.30	416.00	1.00	320.00	2.50	800.00	1.25	400.00	1.25	400.00	1.75	296.00
101(2b)	Conc Cradle for 12" Vit Clay Sewer Pipe	lf	70	2.50	175.00	1.40	98.00	1.60	112.00	2.50	175.00	1.40	98.00	1.50	105.00	2.00	140.00
101(2c)	Conc Cradle for 15" Vit Clay Sewer Pipe	lf	150	3.50	525.00	1.50	225.00	1.60	240.00	3.50	525.00	1.75	262.50	1.50	225.00	2.25	337.50
101(2d)	Conc Cradle for 18" Vit Clay Sewer Pipe	lf	770	4.50	3465.00	1.75	1347.50	2.40	1848.00	3.50	2695.00	2.80	1540.00	2.50	1925.00		
101(3)	Connec to Exist Sewer Manhole	FA			450.00		450.00		450.00		450.00		450.00		450.00		450.00
101(4)	House Sewer Connection	FA			1700.00		1700.00		1700.00		1700.00		1700.00		1700.00		1700.00
101(5)	Cutting & Plugging Exist Sewer	FA			1250.00		1250.00		1250.00		1250.00		1250.00		1250.00		1250.00
102	Sprinkler System	IS			17456.00		14000.00		13000.00		20300.00		18600.00		18500.00		7000.00
103	Leveling Surfaces	FA			3000.00		3000.00		3000.00		3000.00		3000.00		3000.00		3000.00
104	Imported Top Soil	cy	3,840	3.00	11520.00	4.40	16896.00	4.00	15360.00	3.70	14208.00	4.25	16320.00	4.50	17280.00	3.00	11520.00
105(1)	Planting Grass, Eremochloa Ophiuroides	sf	102,000	.055	5610.00	.055	5610.00	.06	6120.00	.045	4590.00	.05	5100.00	.05	5100.00		5100.00

TABULATION OF BIDS

Project No. BU-061-1(7), Unit 5
 Job No. 8147
 Type Code: 6201, X281, X023, X223, X921, ROW
 Bids Opened: August 4, 1960

Project: Pali Highway
 Island: Oahu
 Date Advertised: Honolulu Star-Bulletin, June 30, 1960

ITEM NO.	ITEM	UNIT USED	QUANTITY	MOSES AKIONA, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		JAS. W. GLOVER, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		HAWAIIAN DREDGING & CONSTRUCTION CO., LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		MORRISON-KNUDSEN COMPANY, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		T. SUGIYAMA DBA TERRITORIAL CONTRACTORS Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		J. M. TANAKA, INC., and CONSTR. EQUIPMENT, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
105(1a)	Planting Grass, Cynodon Dactylon	sf	36,800	.055	2024.00	.055	2024.00	.06	2208.00	.045	1656.00	.04	1472.00	.05	1840.00	.03	1104.00
105(1b)	Planting Grass, Stenotaphrum Secundatum	sf	66,000	.055	3630.00	.055	3630.00	.06	3960.00	.045	2970.00	.05	3300.00	.05	3300.00	.03	1980.00
106(1)	Plant Trees, Tabebuia Donnell-Smithii	ea	16	10.00	160.00	9.35	149.60	9.00	144.00	22.00	352.00	16.50	264.00	17.00	272.00	10.00	160.00
106(1a)	Plant Trees, Tabebuia Pentaphylla	ea	21	8.00	168.00	7.15	150.15	7.00	147.00	18.00	378.00	13.75	288.75	14.20	298.20	10.00	210.00
106(1b)	Plant Trees, Cassia-Javanica-Fistula	ea	11	13.50	148.50	13.20	145.20	13.00	143.00	22.00	242.00	16.50	181.50	17.00	187.00	15.00	165.00
106(1c)	Plant Trees, Cassia-Javanica	ea	7	8.00	56.00	7.15	50.05	7.00	49.00	22.00	154.00	16.50	115.50	17.00	119.00	15.00	105.00
106(1d)	Plant Trees, Erythrina Variegated Orientalis	ea	21	8.00	168.00	7.15	150.15	7.00	147.00	22.00	462.00	16.50	346.50	17.00	357.00	10.00	210.00
106(1e)	Plant Trees, Jacaranda Acutifolia	ea	8	8.00	64.00	7.15	57.20	7.00	56.00	15.00	120.00	11.00	88.00	11.35	90.80	12.00	96.00
106(1f)	Plant Trees, Samanea Saman	ea	2	8.00	16.00	7.15	14.30	7.00	14.00	15.00	30.00	11.00	22.00	11.35	22.70	10.00	20.00
106(1g)	Plant Trees, Ficus Retusa	ea	2	8.00	16.00	7.15	14.30	7.00	14.00	15.00	30.00	11.00	22.00	11.35	22.70	10.00	20.00
106(2)	Plant Shrubs, Murraya-Exotica	ea	850	.80	680.00	.80	680.00	.80	680.00	1.50	1275.00	1.10	935.00	1.15	977.50	.60	510.00
106(3)	Plant Vines, Ficus Ramentacae	ea	380	1.00	380.00	1.00	380.00	1.00	380.00	1.50	570.00	1.10	418.00	1.15	437.00	1.00	380.00
106(3a)	Plant Vines, Tristellateia Australasias	ea	5,200	.80	4160.00	.80	4160.00	.80	4160.00	1.50	7800.00	1.10	5720.00	1.15	5980.00	1.00	5200.00
106(3b)	Plant Vines, Bougainvillea Parviflora	ea	100	2.20	220.00	2.20	220.00	2.20	220.00	2.00	200.00	1.65	165.00	1.70	170.00	1.25	125.00
106(3c)	Plant Vines, Bougainvillea Sanderiana	ea	25	1.30	32.50	1.20	30.00	1.20	30.00	2.00	50.00	1.65	41.25	1.70	42.50	1.25	31.25
106(4)	Transplanting Brassia Plants	ea	7	85.00	595.00	82.50	577.50	80.00	560.00	110.00	770.00	82.50	577.50	85.00	595.00	55.00	385.00
106(4a)	Transplanting Areca Palms	ea	4	70.00	280.00	55.00	220.00	55.00	220.00	130.00	520.00	100.00	400.00	105.00	420.00	55.00	220.00
106(4b)	Transplanting Red Ginger	ea	40	1.00	40.00	.55	22.00	.60	24.00	8.00	320.00	5.50	220.00	5.70	228.00	1.00	40.00
107(1)	Destination Signs (Reflectorized)	ea	11	150.00	1650.00	260.00	2860.00	350.00	3850.00	160.00	1760.00	370.00	4070.00	325.00	3575.00	300.00	3300.00
107(1a)	Destination Signs (Illuminated)	ea	3	2500.00	7500.00	1900.00	5700.00	4000.00	12000.00	1350.00	4050.00	700.00	2100.00	4300.00	12900.00	2000.00	6000.00
107(2)	Dirac, Regul and Warning Signs	ea	69	40.00	2760.00	44.00	3036.00	60.00	4140.00	46.00	3174.00	40.00	2760.00	62.00	4278.00	35.00	2415.00
108(2)	Add Number Plate for Federal Aid Markers	ea	2	10.00	20.00	7.50	15.00	15.00	30.00	11.00	22.00	10.00	20.00	20.00	40.00	10.00	20.00
111(3)	Reset Dist, Regul or Warning Signs	ea	8	20.00	160.00	9.00	72.00	20.00	160.00	11.00	88.00	20.00	160.00	30.00	240.00	15.00	120.00
112(1)	Hwy Light Sys on Metal Lamp Post(single Brac)	LS			49164.10		49600.00		50000.00		29500.00		51500.00		53145.00		33500.00
112(1a)	Hwy Light Sys on Metal Lamp Post(double brac)	LS			9451.00		9500.00		9600.00		21000.00		9840.00		10160.00		8000.00
112(1b)	Hwy Light Sys on Metal Lamp Post on Br	LS			2563.79		2500.00		2500.00		5500.00		2600.00		2635.00		2500.00
112(2)	Hwy Light Sys on Bracket on Wood Posts	LS			728.29		720.00		700.00		2000.00		740.00		760.00		700.00
112(5)	Sign Light Sys Compl w/Ser Multi Trans	LS			5279.98		5275.00		5300.00		1500.00		5477.00		5650.00		4000.00
113	Traffic Signal System	IS			4080.22		4110.00		4100.00		1200.00		4268.00		4400.00		2300.00
115	Concrete Jiggle Bars	lf	30	5.00	150.00	1.50	45.00	7.00	210.00	6.50	195.00	5.00	150.00	5.00	150.00	2.00	60.00
116	Pneumatic Mortar 2" - 2-1/2" Thick	sf	14,900	.62	9238.00	.60	8940.00	.60	8940.00	.90	13410.00	.65	9685.00	.75	11175.00	.60	8940.00
117	Inverted Auwai Siphon	IS			6800.00		5500.00		8000.00		8500.00		6437.00		9500.00		7010.00
118(1)	Excavation for Poles	lf	82	22.00	1804.00	22.20	1820.40	22.00	1804.00	7.00	574.00	23.00	1886.00	23.80	1951.60	6.00	492.00
118(2)	Install Precast Conc Pull Boxes	ea	34	132.00	4488.00	130.00	4420.00	130.00	4420.00	102.00	3468.00	134.00	4556.00	139.20	4732.80	40.00	1360.00
118(3)	Install Pole Anchors	ea	16	100.00	1600.00	102.50	1640.00	100.00	1600.00	35.00	560.00	106.00	1696.00	110.00	1760.00	44.00	704.00
118(4a)	Install 1 Duct Enc in Plain Conc Jacket	lf	25	6.50	162.50	6.60	165.00	7.00	175.00	6.00	150.00	6.85	171.25	7.10	177.50	2.50	62.50
118(4b)	Install 2 Ducts Enc in Plain Conc Jacket	lf	2,055	5.40	11097.00	5.45	11199.75	6.00	12330.00	6.00	12330.00	5.65	11610.75	5.85	12021.75	3.00	6165.00
118(4c)	Install 3 Ducts Enc in Plain Conc Jacket	lf	55	6.60	363.00	6.73	370.15	7.00	385.00	10.00	550.00	7.00	385.00	7.20	396.00	4.00	220.00
118(4d)	Install 4 Ducts Enc in Plain Conc Jacket	lf	120	9.00	1080.00	9.42	1130.40	10.00	1200.00	11.00	1320.00	9.75	1170.00	10.10	1212.00	5.00	600.00
118(4e)	Install 5 Ducts Enc in Plain Conc Jacket	lf	370	11.00	4070.00	11.25	4162.50	11.00	4070.00	14.00	5180.00	11.65	4310.50	12.00	4440.00	6.00	2220.00
118(5a)	Install 1 Galv Steel Cond & 1 Trans Cond	lf	290	4.50	1305.00	4.40	1276.00	4.50	1305.00	2.50	725.00	4.55	1319.50	4.70	1363.00	2.00	580.00
118(5b)	Install 2 Trans Conduits (Direct Burial)	lf	190	4.20	798.00	4.20	798.00	4.00	760.00	2.50	475.00	4.30	817.00	4.45	845.50	2.50	475.00
118(5c)	Install 1 Galv Steel Conduit (Dir Bur)	lf	30	5.70	171.00	5.75	172.50	6.00	180.00	2.00	60.00	5.95	178.50	6.15	184.50	1.25	37.50
118(5d)	Install 1 Trans Conduit (Direct Burial)	lf	155	5.00	775.00	4.75	736.25	5.00	775.00	2.00	310.00	4.90	759.50	5.00	775.00	1.90	294.50
118(6)	Furn & Install Steel Plate Cov & Frame	ea	2	425.00	850.00	425.00	850.00	430.00	860.00	7.00	14.00	440.00	880.00	500.00	1000.00	230.00	460.00
119	Reloc Light Standards at Jabulka Property	IS			1450.00		1480.00		1500.00		1200.00		1535.00		1600.00		350.00

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 Date Advertised: Honolulu Star-Bulletin, June 30, 1960

ITEM NO.	ITEM	UNIT USED	QUANTITY	MOSES AKIONA, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		JAS. W. GLOVER, LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		HAWAIIAN DREDGING & CONSTRUCTION CO., LTD. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		MORRISON-KNUDSEN COMPANY, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		T. SUGIYAMA DBA TERRITORIAL CONTRACTORS Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		J. M. TANAKA, INC., and CONSTR. EQUIPMENT, INC. Bid Bond - \$2,500 + 2% Amt. Bid over \$50,000.00		DEPARTMENT OF TRANSPORTATION	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
120	Maintaining Detours	FA			2000.00		2000.00		2000.00		2000.00		2000.00		2000.00		2000.00
	SUM OF ALL ITEMS				1886386.54		2105446.10		2142591.00		2492710.00		2314469.27		3228041.15		2299497.80
	GROUP I																
	Sum of Items 58(3)I, 58(4)I, 58(5)I, and 58(6)I		31749.88	31749.88		40844.00		33792.00		37550.00		36344.88		48238.00		34092.00	
	Sum of Items 59(7b)II and 59(8b)II		25654.00	25654.00		28206.00		31984.00		25020.00		27588.80		34040.00		26680.00	
	Deduce Most Expensive Sum Above				31749.88		40844.00		33792.00		37550.00		36344.88		48236.00		34092.00
	GROUP II																
	Sum of Item 80(2)			15600.00		15600.00		14235.00		15600.00		21840.00		23400.00		15600.00	
	Sum of Item 80(2A)			15406.00		15210.00		14820.00		15600.00		22035.00		22425.00		15600.00	
	Deduct Most Expensive Sum Above				15600.00		15600.00		14820.00		15600.00		22035.00		23400.00		15600.00
	Amount for Comparison of Bids				1839036.66		2049002.10		2093979.00		2439560.00		2256089.39		3156405.15		2249805.80