

s. F-090-1(4) and SU-0720(6)
ROW, 6201, Y060, X281, X231, X021
April 30, 1964

Construction of Kamehameha Highway, Aiea Interchange
and Moanalua Road, Aiea Interchange
Oahu
Honolulu Advertiser - February 27, 1964

E. E. BLACK, LTD.
Bid Bond - \$2500 + 2%
over \$50,000

HAWAIIAN DREDGING &
CONSTRUCTION CO., LTD.
Bid Bond - \$2500 + 2%
over \$50,000

REED & MARTIN INTERNAT., INC.
Bid Bond - \$2500 + 2%
of amount bid

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

6(A)	Field Office	L.S.		2,282.00		5,000.00		2,832.00			3,000.00
6(B)	Project Site Laboratory	L.S.		1,168.00		5,000.00		1,125.00			1,500.00
11A	Removal of Portions of Existing Concrete Bridge, Adjacent Concrete and CRM Retaining Wall	L.S.		6,000.00		3,633.00		3,587.00			2,500.00
13	Roadway Excavation	100,000 cu.yd.	1.82	182,000.00	1.12	112,000.00	0.90	90,000.00	2.25		225,000.00
14(1)	Structure Excavation other than at Bridges	8,100 cu.yd.	8.73	70,713.00	6.30	51,030.00	8.80	71,280.00	8.50		68,850.00
14(2)	Structure Excavation for Bridge	2,120 cu.yd.	10.96	23,235.20	19.40	41,128.00	8.80	18,656.00	10.00		21,200.00
15	Ditch and Channel Excavation	1,050 cu.yd.	4.07	4,273.50	2.02	2,121.00	6.10	6,405.00	8.00		8,400.00
18	Compacting Original Ground	3,400 sq.ft.	.009	30.60	0.04	136.00	0.04	136.00	0.15		510.00
20A	Untreated Base for Pipe Foundation	45 cu.yd.	9.85	443.25	14.45	650.25	7.00	315.00	6.00		270.00
23	Sprinkling	2,900 M Gal.	3.82	11,078.00	0.81	2,349.00	4.40	12,760.00	3.00		8,700.00
24(1)	Select Borrow Subbase Course	35,350 ton	2.41	85,193.50	2.62	92,617.00	3.00	105,150.00	2.30		81,305.00
26	Untreated Base	19,850 ton	3.04	60,344.00	3.21	63,718.50	3.91	77,613.50	3.50		69,475.00
29	Brooming Off	5,500 sq.yd.	.11	605.00	0.03	165.00	0.04	220.00	0.05		275.00
30(1a)	Medium Curing Liquid Asphalt (MC-0) for Prime Coat	19,150 gal.	.27	5,170.50	0.32	6,128.00	0.30	5,745.00	0.30		5,745.00
31(1)	Emulsified Asphalt Mixing Type SS-1, for Tack Coat	875 gal.	.27	236.25	0.32	280.00	0.30	262.50	0.30		262.50
32A	Green Slurry Coat	9,200 sq.yd.	1.06	9,752.00	1.40	12,880.00	1.25	11,500.00	1.20		11,040.00
39(1)	Asphalt Concrete Pavement - Mix No. II	4,380 ton	13.30	58,254.00	16.00	70,080.00	15.60	68,328.00	13.00		56,940.00
39(2)	Asphalt Concrete Pavement - Mix No. III	290 ton	13.30	3,857.00	16.00	4,640.00	15.60	4,524.00	13.00		3,770.00
39(4)	Asphalt Concrete Pavement - Mix No. V	3,255 ton	13.30	43,291.50	16.00	52,080.00	15.60	50,778.00	13.00		42,315.00
40(1)	Portland Cement Concrete Pavement	572 cu.yd.	35.55	20,334.60	45.09	25,791.48	41.00	23,452.00	33.00		18,876.00
44	Structural Steel	1 L.S.		42,915.00		56,381.00		49,684.00	70.00		46,662.60
46(1)	Class "A-1" Concrete Other than in Bridges	260 cu.yd.	112.19	29,169.40	111.89	29,091.40	57.00	14,820.00	60.00		18,200.00
46(2)	Class "B-1" Concrete Other than in Bridges	137 cu.yd.	91.91	12,591.67	62.57	8,572.09	52.00	7,124.00			8,220.00
46(A-1)	Concrete in Bridges (Aiea Stream Bridge)	1 L.S.		12,975.00		19,786.00		34,300.00			20,720.00
46(A-2)	Concrete in Bridge (Structure No. 1)	1 L.S.		48,882.00		51,186.00		95,746.00			65,365.00
46(A-3)	Concrete in Bridge (Structure No. 4)	1 L.S.		35,367.00		54,000.00		70,746.00			48,195.00
46(A-4)	Concrete in Pedestrian Overpass	1 L.S.		16,773.00		18,304.00		22,206.63			16,575.00
46(A-5)	Concrete in Retaining Wall No. 1	1 L.S.		4,534.00		5,670.00		5,764.00			5,460.00
46P(1)	Prestressed Concrete Girders in Bridge (Structure No. 1)	1 L.S.		24,095.00		22,431.00		49,188.00			56,750.00
46P(2)	Prestressed Concrete Beam in Pedestrian Overpass	1 L.S.		3,510.00		3,684.00		10,800.00	0.20		7,450.00
48(1)	Reinforcing Steel other than in Bridges	14,675 lb.	.15	2,201.25	0.23	3,375.25	0.20	2,935.00			2,935.00
48(A-1)	Reinforcing Steel in Bridges (Aiea Stream Bridge)	1 L.S.		5,533.00		6,573.00		6,786.00			5,801.40
48(A-2)	Reinforcing Steel in Bridge (Structure No. 1)	1 L.S.		18,338.00		23,624.00		22,490.00			20,493.36
48(A-3)	Reinforcing Steel in Bridge (Structure No. 4)	1 L.S.		11,289.00		16,879.00		13,845.00			15,501.06
48(A-4)	Reinforcing Steel in Pedestrian Overpass	1 L.S.		4,977.00		5,855.00		6,003.00			5,466.24
40(A-5)	Reinforcing Steel in Retaining Wall No. 1	1 L.S.		954.00		1,091.00		1,170.00	4.00		990.00
51(1)	Untreated Timber Piles	1,850 lin.ft.	3.09	5,716.50	3.64	6,734.00	3.12	5,772.00	10.00		7,400.00
51(4)	Prestressed Concrete Piles	2,500 lin.ft.	7.32	18,300.00	7.69	19,225.00	12.13	30,325.00	7.00		25,000.00
52	Filter Material	115 cu.yd.	11.80	1,357.00	25.20	2,898.00	9.00	1,035.00			805.00

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55(1)	Metal Bridge Railing	995	lin.ft.	7.94	7,900.30	7.19	7,154.05	9.00	8,955.00	7.00	6,965
55(1a)	Galvanized Iron Pipe Railing	780	lin.ft.	10.73	8,369.40	14.68	11,450.40	13.00	10,140.00	10.00	7,800
55(1b)	Galvanized Iron Hand Railing	245	lin.ft.	2.21	541.45	4.17	1,021.65	5.00	1,225.00	8.00	1,960
55(2)	Concrete Railing and End Posts	1,050	lin.ft.	8.29	8,704.50	6.98	7,329.00	8.00	8,400.00	8.00	8,400
58(3)	24-Inch Class III Reinforced Concrete Culvert Pipe	16	lin.ft.	7.36	117.76	8.74	139.84	7.00	112.00	8.50	136
58(3)I	24-Inch Class III Reinforced Concrete Culvert Pipe	984	lin.ft.	6.04	5,943.36	13.93	13,707.12	7.00	6,888.00	8.50	8,364
58(3a)I	24-Inch Class III Reinforced Concrete Culvert Pipe with Concrete Collars	224	lin.ft.	8.79	1,968.96	16.20	3,628.80	9.00	2,016.00	10.50	2,352
58(4)	24-Inch Class IV Reinforced Concrete Culvert Pipe	16	lin.ft.	8.46	135.36	10.00	160.00	8.00	128.00	10.00	160
58(4)I	24-Inch Class IV Reinforced Concrete Culvert Pipe	1,248	lin.ft.	6.78	8,461.44	15.84	19,768.32	8.00	9,984.00	10.00	12,480
58(4a)I	24-Inch Class IV Reinforced Concrete Culvert Pipe with Concrete Collars	328	lin.ft.	8.68	2,847.04	18.00	5,904.00	10.50	3,444.00	12.00	3,936
58(6)I	30-Inch Class IV Reinforced Concrete Culvert Pipe	568	lin.ft.	9.01	5,117.68	23.16	13,154.88	11.00	6,248.00	14.00	7,952
58(6a)	30-Inch Class IV Reinforced Concrete Culvert Pipe with Concrete Collars	16	lin.ft.	10.53	168.48	16.07	257.12	17.00	272.00	16.00	256
58(7)I	36-Inch Class III Reinforced Concrete Culvert Pipe	304	lin.ft.	10.21	3,103.84	33.78	10,269.12	12.00	3,648.00	16.00	4,864
58(7a)I	36-Inch Class III Reinforced Concrete Culvert Pipe with Concrete Collars	464	lin.ft.	13.19	6,120.16	36.00	16,704.00	15.00	6,960.00	18.00	8,352
58(8)I	36-Inch Class IV Reinforced Concrete Culvert Pipe	136	lin.ft.	11.31	1,538.16	33.59	4,568.24	13.00	1,768.00	18.00	2,448
58(8a)	36-Inch Class IV Reinforced Concrete Culvert Pipe with Concrete Collars	112	lin.ft.	14.66	1,641.92	20.79	2,328.48	15.50	1,736.00	20.00	2,240
59(7b)	24-Inch Corrugated Galvanized Sheet Metal Pipe (14 gage)	320	lin.ft.	5.50	1,760.00	5.70	1,824.00	6.80	2,176.00	8.00	2,560
59(7b)II	24-Inch Corrugated Galvanized Sheet Metal Pipe (14 gage)	2,146	lin.ft.	5.35	11,481.10	5.75	12,339.50	7.00	15,022.00	8.00	17,168
59(8b)II	30-Inch Corrugated Galvanized Sheet Metal Pipe (14 gage)	638	lin.ft.	6.48	4,134.24	6.97	4,446.86	8.00	5,104.00	9.00	5,742
59(9c)II	36-Inch Corrugated Galvanized Sheet Metal Pipe (12 gage)	956	lin.ft.	9.42	9,005.52	11.02	10,535.12	12.00	11,472.00	12.00	11,472
59(10c)II	42-Inch Corrugated Galvanized Sheet Metal Pipe (12 gage)	516	lin.ft.	11.23	5,794.68	12.96	6,687.36	14.00	7,224.00	14.00	7,224
62	Cement Rubble Masonry	660	cu.yd.	38.16	25,185.60	45.36	29,937.60	41.00	27,060.00	35.00	23,100
65	Grouted Rubble Paving	9	cu.yd.	56.34	507.06	54.18	487.62	41.00	369.00	38.00	342
67	Centerline Monuments	26	each	20.00	520.00	81.90	2,129.40	30.00	780.00	20.00	520
68(a)	Street Survey Monuments	2	each	50.00	100.00	81.90	163.80	50.00	100.00	50.00	100
70(1a)	Type "A" Cast-in-Place Concrete Curb	4,780	lin.ft.	2.86	13,670.80	2.84	13,575.20	2.40	11,472.00	2.50	11,950
70(1b)	Type "B" Cast-in-Place Concrete Curb	1,200	lin.ft.	2.86	3,432.00	2.84	3,408.00	2.30	2,760.00	2.50	3,000
70(1d)	Type "D" Cast-in-Place Concrete Curb	1,910	lin.ft.	2.89	5,519.90	2.84	5,424.40	2.00	3,820.00	2.40	4,584

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70(1e)	Type "E" Cast-in-Place Concrete Curb	180	lin.ft.	2.81	505.80	2.96	532.80	4.00	720.00
70(2g)	Type "G" Cast-in-Place Concrete Gutter	200	lin.ft.	3.72	744.00	4.41	882.00	4.18	836.00
70(3a)	Type "AG" Cast-in-Place Concrete Curb & Gutter	5,140	lin.ft.	3.58	18,401.20	4.28	21,999.20	2.50	12,850.00
70(3d)	Type "DG" Cast-in-Place Concrete Curb & Gutter	7,250	lin.ft.	3.45	25,012.50	4.10	29,725.00	2.40	17,400.00
70(3e)	Type "EG" Cast-in-Place Concrete Curb & Gutter	2,510	lin.ft.	3.45	8,659.50	4.16	10,441.60	2.90	7,279.00
76	Plain Concrete Sidewalk	10,650	sq.ft.	.64	6,816.00	0.56	5,964.00	0.50	5,325.00
77	Reinforced Concrete Driveway	140	sq.ft.	.83	116.20	0.90	126.00	1.20	168.00
78	Asphaltic Concrete Traffic Roll	15	ton	37.10	556.50	37.80	567.00	38.00	570.00
80(2)	Metal Guard Rail with Concrete Posts	3,875	lin.ft.	4.14	16,042.50	3.72	14,415.00	3.40	13,175.00
88(1a)	48-Inch Chain Link Fence, Posts in CRM Wall	140	lin.ft.	2.33	326.20	2.77	387.80	2.70	378.00
88(1c)	72-Inch Chain Link Fence, Posts in Ground with Concrete Footing	4,100	lin.ft.	2.78	11,398.00	3.30	13,530.00	3.27	13,407.00
88(3a)	72-Inch Chain Link Gate, 4-feet wide	6	each	68.90	413.40	81.90	491.40	80.00	480.00
89(1)	Reconstructed Chain Link Fence, Posts in CRM Wall	480	lin.ft.	2.02	969.60	2.27	1,089.60	2.10	1,008.00
97(3a)	Brick Wall for Type "C" Water Manhole	4	lin.ft.	37.74	150.96	33.39	133.56	26.00	104.00
97(4b)	Brick Wall for Type "D" or Type "E" Storm Drain Manhole	10	lin.ft.	40.42	404.20	37.80	378.00	34.00	340.00
97(7)	Standard Valve Box	3	each	80.67	242.01	69.30	207.90	30.00	90.00
98	Standard 20-Inch Water Manhole Cast-Iron Frame and Cover	1	each	54.80	54.80	63.00	63.00	58.00	58.00
98(1)	Type "A" Cast-Iron Frame and Cover	12	each	55.22	662.64	65.52	786.24	58.00	696.00
98(1a)	Type "B" Cast-Iron Frame and Cover	23	each	44.37	1,020.51	56.07	1,289.61	47.00	1,081.00
98(2)	Type "C" Cast-Iron Frame and Grating	7	each	78.30	548.10	124.74	873.18	117.00	819.00
98(2b)	Type "A" Frame and Grates for Catch Basin	1	each	361.29	361.29	143.00	143.00	587.00	587.00
98(3b)	Cleaning, Painting and Reinstalling Type "A" or Type "B" Cast-Iron Frame and Cover	1	each	31.48	31.48	31.00	31.00	25.00	25.00
99(1)	Adjusting Type "C" Water Manhole Frame & Cover	1	each	31.48	31.48	88.00	88.00	50.00	50.00
99(1a)	Adjusting Air Valve Manhole Frame & Cover	3	each	31.61	94.83	44.10	132.30	25.00	75.00
99(1b)	Adjusting Sewer Manhole Frame & Cover	3	each	33.69	101.07	56.70	170.10	50.00	150.00
99(2)	Adjusting Valve Box Frame and Cover	2	each	45.74	91.48	56.70	113.40	18.50	37.00
99(3)	Brick Wall for Reconstructed Type "C" Water Manhole	3	lin.ft.	40.21	120.63	44.10	132.30	26.00	78.00
99(3a)	Brick Wall for Reconstructed Air Valve Manhole	3	lin.ft.	40.21	120.63	44.10	132.30	13.00	39.00
99(3b)	Brick Wall for Reconstructed Sewer Manhole	12	lin.ft.	49.81	597.72	43.89	526.68	26.00	312.00
100(1)	Furnishing and Installing 8-Inch Cast-Iron Pipe	1,110	lin.ft.	4.49	4,983.90	5.17	5,738.70	5.50	6,105.00
100(1a)	Furnishing 8-Inch Cast-Iron Pipe, Including Jointing Materials and other Appurtenances	16	lin.ft.	4.08	65.28	5.59	89.44	4.25	68.00
100(1b)	Furnishing and Installing 6-Inch Cast-Iron Pipe	33	lin.ft.	3.84	126.72	4.03	132.99	4.00	132.00
100(5)	Furnishing and Installing Short Body Cast-Iron Fittings for 250 psi Water Pressure plus Hammer, unless otherwise specified	815	lb.	.40	326.00	0.28	228.20	0.40	326.00
100(5a)	Furnishing Cast-Iron Fittings, Including Jointing Materials and other Appurtenances	240	lb.	.29	69.60	0.28	67.20	0.40	96.00
100(6)	Furnishing and Installing 8" Gate Valve, 150 lb.	1	each	133.95	133.95	114.00	114.00	150.00	150.00

2.30	414.
3.00	600.
3.40	17,476.
3.00	21,750.
3.25	8,157.
0.50	5,325.
0.65	91.
33.00	495.
4.00	15,500.
3.00	420.
3.40	13,940.
50.00	300.
2.00	960.
40.00	160.
35.00	350.
80.00	240.
50.00	50.
50.00	600.
45.00	1,035.
130.00	910.
500.00	500.
25.00	25.
40.00	40.
40.00	120.
40.00	120.
30.00	60.
40.00	120.
40.00	120.
40.00	480.
6.00	6,660.
4.50	72.
5.00	165.
0.45	366.
0.40	96.
140.00	140.

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Item No.	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
100(6a)	Furnishing and Installing 6-inch Gate Valve, 150 pounds	2	each	97.07	194.14	69.30	138.60	105.00	210.00	100.00	200.00
100(12)	Furnishing and Installing Type II Meter Box, Including Cast-Iron Frame and Cover	4	each	43.45	173.80	81.90	327.60	71.00	284.00	60.00	240.00
100(13)	Furnishing and Installing 3/4-inch Air Relief Valve, Including Appurtenances	1	each	68.35	68.35	81.90	81.90	88.00	88.00	85.00	85.00
100(14)	Furnishing and Installing Fire Hydrant, 4.5-feet Height	2	each	354.27	708.54	315.00	630.00	375.00	750.00	350.00	700.00
100(17)	Furnishing and Installing 2-inch Temporary Cleanout, Including Appurtenances	2	each	15.32	30.64	18.90	37.80	31.00	62.00	30.00	60.00
100(18)	Furnishing and Installing 2-inch Copper Service Lateral with Type "D" Copper Service Connection off Existing Main and all Appurtenances. (BWS to Install Corporation Stop Furnished by Contractor)	1	each	280.47	280.47	157.00	157.00	181.00	181.00	175.00	175.00
100(19)	Furnishing and Installing 1 1/4-inch Copper Service Lateral with Type "B" Copper Service Connection and all Appurtenances	3	each	120.68	362.04	50.40	151.20	68.00	204.00	110.00	330.00
100(20)	Removing, Cleaning and Hauling Cast-Iron Fittings, to BWS Kalihi Store Yard, Including Loading and Unloading	50	lb.	.38	19.00	0.63	31.50	0.30	15.00	0.20	10.00
100(24)	Relocating Valve Marker	1	each	19.84	19.84	126.00	126.00	6.00	6.00	30.00	30.00
101(6)	House Sewer Connection	1	F.A.		800.00		800.00		800.00		800.00
101(7)	Extending Existing 6-Inch Sewer Laterals	100	lin.ft.	12.07	1,207.00	3.63	363.00	2.40	240.00	5.00	500.00
101(8)	Cutting and Plugging Existing Sewer Lateral	1	F.A.		50.00		50.00		50.00		50.00
102	Sprinkler System		L.S.		37,390.00		36,500.00		34,440.00		46,000.00
103	Leveling Surfaces	1	F.A.		250.00		250.00		250.00		250.00
104	Imported Top Soil	4,320	cu.yd.	3.30	14,256.00	2.00	8,640.00	4.70	20,304.00	4.00	17,280.00
105	Sodding Surfaces	151,235	sq.ft.	.027	4,083.35	0.03	4,537.05	0.03	4,537.05	0.05	7,561.75
106(1)	Planting Trees, Cassia Javanica-Fistula (Watermelon Pink Rainbow Shower) 54 Inches High in 5-Gallon Can	9	each	15.90	143.10	18.90	170.10	20.00	180.00	20.00	180.00
106(1a)	Planting Trees, Cassia Glauca (Kaimona), 24 Inches High in One Gallon Can	17	each	1.59	27.03	1.93	32.81	2.00	34.00	2.00	34.00
106(1b)	Planting Trees, Cybistax Donnell-Smithii (Gold Tree), 54 Inches High in 5 Gallon Can	2	each	10.60	21.20	12.60	25.20	13.00	26.00	20.00	40.00
106(1c)	Planting Trees, Tabebuia Pentaphylla (Pink Tacoma), 54 Inches High in 5 Gallon Can	8	each	6.36	50.88	7.56	60.48	8.00	64.00	20.00	160.00
106(1d)	Planting Trees, Samanea Saman (Monkeypod) 54 Inches High in 5 Gallon Can	2	each	6.36	12.72	7.56	15.12	8.00	16.00	20.00	40.00
106(2)	Planting Shrubs, Nerium Oleander (Single White Oleander), 24 Inches High in One Gallon Can	480	each	1.06	508.80	1.26	604.80	1.30	624.00	4.00	1,920.00
106(2a)	Planting Shrubs, Hibiscus Rosa-Sinensis (Red Hedge Hibiscus), 24 Inches High in One Gallon Can	120	each	1.06	127.20	1.26	151.20	1.30	156.00	2.50	300.00

Project No. F-090-1(4) and SU-0720(6)

ROW

April 30, 1964

Construction of Kamehameha Highway, Aiea Interchange
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Oahu

Honolulu Advertiser - February 27, 1964

E. E. BLACK, LTD.
Bid Bond - \$2500 + 2%
over \$50,000

HAWAIIAN DREDGING &
CONSTRUCTION CO., LTD.
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REED & MARTIN INTERNAT., INC.
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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

106(3)	Planting Vines, Wedelia Trilobata (Wedelia) 10 Inch Runners in One Quart Can	12,955	each	0.42	5,441.10	0.50	6,477.50	0.50	6,477.50	0.75	9,716.
106(4)	Transplanting Trees, Cocos Nucifera (Coconut)	15	each	106.00	1,590.00	126.00	1,890.00	125.00	1,875.00	50.00	750.
107(1)	Regulatory and Warning Signs with Posts	72	each	40.00	2,880.00	31.50	2,268.00	43.00	3,096.00	50.00	3,600.
107(1a)	Regulatory and Warning Signs	33	each	14.68	484.44	31.50	1,039.50	43.00	1,419.00	30.00	990.
107(2)	Expressway (E) Regulatory and Warning Signs with Posts	4	each	122.17	488.68	59.22	236.88	62.00	248.00	140.00	560.
107(2a)	Expressway (E) Regulatory and Warning Signs	1	each	66.42	66.42	59.00	59.00	75.00	75.00	75.00	75.
107(3)	Reflectorized Markers with Posts	80	each	13.09	1,047.20	14.58	1,166.40	13.00	1,040.00	15.00	1,200.
107(3a)	Reflectorized Markers	29	each	4.88	141.52	5.87	170.23	5.00	145.00	10.00	290.
107(4)	Route Marker Assemblies with Posts	2	each	128.12	256.24	48.51	97.02	55.00	110.00	75.00	150.
107(5)	Reflectorized Extruded Aluminum Destination Sign Panel	41	sq.ft.	14.04	575.64	14.59	598.19	16.00	656.00	12.00	492.
107(6)	Porcelain Enamel Extruded Aluminum Expressway Sign Panel	522	sq.ft.	9.50	4,959.00	14.48	7,558.56	10.50	5,481.00	12.00	6,264.
107(7)	Galvanized Steel I-Section (3I5.7) Posts and Concrete Foundations for Reflectorized Extruded Aluminum Destination Signs	2	pair	123.14	246.28	1,260.00	2,520.00	80.00	160.00	425.00	850.
107(8)	Galvanized Steel Posts for Porcelain Enameled Extruded Aluminum Expressway Signs	80	lin.ft.	10.35	828.00	31.50	2,520.00	5.60	448.00	24.00	1,920.
107(9)	Type "B" Post and Arms for Porcelain Enameled Extruded Aluminum Expressway Signs	3	each	3,088.70	9,266.10	11,209.79	33,629.37	3,825.00	11,475.00	4,500.00	13,500.
107(10)	Type III Footing for Expressway Signs	2	each	478.73	957.46	544.32	1,088.64	386.00	772.00	630.00	1,260.
107(10a)	Type IV Footing for Expressway Signs	1	each	694.33	694.33	728.00	728.00	425.00	425.00	875.00	875.
107(10b)	Type VI Footing for Expressway Signs	6	each	58.80	352.80	294.84	1,769.04	45.00	270.00	120.00	720.
108(1)	Federal Aid Markers	3	each	45.00	135.00	34.02	102.06	31.00	93.00	60.00	180.
108(2)	Additional Number Plates for Federal Aid Markers	1	each	10.00	10.00	12.00	12.00	10.00	10.00	12.00	12.
111(3)	Reset Destination Signs	2	each	65.00	130.00	18.90	37.80	16.00	32.00	200.00	400.
111(3a)	Reset Regulatory or Warning Signs or Reflec- torized Markers	6	each	13.00	78.00	41.58	249.48	16.00	96.00	20.00	120.
112(1)	Highway Lighting System on Metal Lamp Posts (Single Bracket)	1	L.S.		32,962.00		39,180.00		38,870.00		42,000.
112(1a)	Highway Lighting System on Metal Lamp Posts on Structures (Single Bracket)	1	L.S.		2,304.00		2,740.00		2,717.00		4,500.
112(2)	Highway Lighting System on Metal Lamp Posts (Double Bracket)	1	L.S.		3,010.00		3,578.00		3,550.00		6,000.
112(4)	Expressway Sign Lighting System	1	L.S.		4,232.00		5,031.00		4,991.00		4,800.
112(5)	New Luminaires on Mast Arm Brackets on Wood Poles	1	L.S.		2,672.00		3,176.00		3,151.00		3,750.
112(5a)	Relocated Luminaires on Mast Arm Brackets on Wood Poles	1	L.S.		315.00		374.00		371.00		700.
112(6)	New Mast Arm Brackets on Wood Poles	1	L.S.		661.00		786.00		780.00		375.
112(6a)	Relocated Mast Arm Brackets on Wood Poles	1	L.S.		467.00		555.00		551.00		375.
113(1)	Traffic Signal System at Moanalua Road and Hale Street	1	L.S.		5,868.00		6,975.00		6,920.00		6,000.
113(2)	Traffic Signal System at Kam Hwy & Hale Street	1	L.S.		3,678.00		4,372.00		4,336.00		4,000.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

6 : 8

s. F-090-1(4) and SU-0720(6)
ROW, 6201, Y060, X281, X231, X021
April 30, 1964

Construction of Kamehameha Highway, Aiea Interchange
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			E. E. BLACK, LTD. Bid Bond - \$2500 + 2% over \$50,000		HAWAIIAN DREDGING & CONSTRUCTION CO., LTD. Bid Bond - \$2500 + 2% over \$50,000		REED & MARTIN INTERNAT., INC. Bid Bond - \$2500 + 2% of amount bid		DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
123(1a)	Furnishing and Installing 12-Inch Bell and Spigot C.I. Pipe	50	lin.ft.	10.38	519.00	7.77	388.50	7.70	385.00	10.00	500.00
123(1b)	Furnishing and Installing 8-Inch Bell and Spigot C.I. Pipe	150	lin.ft.	5.43	814.50	5.07	760.50	5.00	750.00	6.00	900.00
123(1c)	Furnishing and Installing 6-Inch Bell and Spigot C.I. Pipe	90	lin.ft.	4.07	366.30	3.93	353.70	3.80	342.00	5.00	450.00
123(2)	Furnishing and Installing Short Body C.I. Fittings for 250 psi Water Pressure Plus Water Hammer, Unless Otherwise Specified	13,338	lb.	0.35	4,668.30	0.32	4,268.16	0.23	3,067.74	0.45	6,002.10
123(3)	Removing, Cleaning, Painting and Reinstalling Existing Fire Hydrant	1	each	69.20	69.20	76.00	76.00	75.00	75.00	200.00	200.00
123(4)	Removing, Cleaning, and Salvaging Existing Fire Hydrant	2	each	52.38	104.76	75.60	151.20	50.00	100.00	150.00	300.00
123(5)	Removing, Cleaning, Painting and Reinstalling Gate Valves, Check Valves, and Water Meter	1	L.S.		500.00		747.00		37.00		250.00
123(6)	Class "A-1" Concrete for Navy Valve & Meter Boxes	13	cu.yd.	169.26	2,200.38	133.75	1,738.75	57.00	741.00	70.00	910.00
123(7)	Class "B-1" Concrete for Reaction Blocks	40	cu.yd.	53.04	2,121.60	36.54	1,461.60	52.00	2,080.00	60.00	2,400.00
123(8)	Reinforcing Steel for Navy Valve and Meter Boxes	1,350	lb.	0.16	216.00	0.20	270.00	0.18	243.00	0.20	270.00
123(9)	Standard Valve Box	5	each	75.90	379.50	107.10	535.50	30.00	150.00	80.00	400.00
123(10)	Furnishing and Installing 28-Inch Manhole Frame and Cover	1	each	221.00	221.00	132.00	132.00	155.00	155.00	100.00	100.00
123(11)	Structure Excavation for Navy Water System	270	cu.yd.	6.58	1,776.60	12.79	3,453.30	8.00	2,160.00	8.50	2,295.00
123(12)	Untreated Base for Pipe Foundation	25	cu.yd.	9.86	246.50	14.46	361.50	8.00	200.00	6.00	150.00
123(13)	Furnishing and Installing 3/4-Inch Air Relief Valve and Appurtenances for Navy Water System	1	each	70.00	70.00	82.00	82.00	94.00	94.00	85.00	85.00
123(14)	Furnishing and Installing 2-Inch Temporary Cleanout and Appurtenances for Navy Water System	1	each	19.00	19.00	19.00	19.00	30.00	30.00	50.00	50.00
123(15)	Removing, Cleaning and Salvaging Existing 24-Inch C.I. Pipe	213	lin.ft.	2.31	492.03	9.98	2,125.74	3.00	639.00	3.00	639.00
123(16)	Removing, Cleaning, Painting and Reinstalling Existing Steel Plate Covers	1	each	25.00	25.00	151.00	151.00	13.00	13.00	150.00	150.00
124(2)	Structures Excavation for Navy Sewer System	15	cu.yd.	30.38	455.70	31.50	472.50	7.00	105.00	8.50	127.50
124(3)	Cutting and Plugging Existing Sewer Lateral		F.A.		250.00		250.00		250.00		250.00
124(5)	Class "B-1" Concrete for Navy Sewer System	5	cu.yd.	40.00	200.00	138.60	693.00	52.00	260.00	60.00	300.00
124(6)	Reinforcing Steel for Navy Sewer System	260	lb.	0.16	41.60	0.23	59.80	0.20	52.00	0.20	52.00
124(11)	Adjusting Sewer Manhole Frame and Cover	2	each	31.62	63.24	315.00	630.00	50.00	100.00	40.00	80.00
125(1)	Removing Existing Poles	3	each	57.84	173.52	68.88	206.64	68.00	204.00	100.00	300.00
125(2)	Furnishing and Installing Poles	2	each	537.00	1,074.00	638.19	1,276.38	633.00	1,266.00	175.00	350.00
125(3)	Furnishing and Installing Anchors	6	each	142.33	853.98	168.84	1,013.04	168.00	1,008.00	75.00	450.00
125(3a)	Furnishing and Installing Down Guys	2	each	95.00	190.00	100.80	201.60	93.00	186.00	100.00	200.00
125(4)	Furnishing and Installing Six Four-Inch Transite Ducts Encased in Reinforced Concrete Jacket	430	lin.ft.	10.93	4,699.90	12.99	5,585.70	12.90	5,547.00	20.00	8,600.00
125(5)	Class A-1 Concrete for Type "A" Manhole	20	cu.yd.	179.91	3,598.20	126.00	2,520.00	212.00	4,240.00	140.00	2,800.00
125(6)	Reinforcing Steel for Type "A" Manhole	2,880	lb.	0.20	576.00	0.16	460.80	0.20	576.00	0.22	633.60
125(7)	Structure Excavation for Type "A" Manhole	95	cu.yd.	14.48	1,375.60	17.21	1,634.95	17.00	1,615.00	13.00	1,235.00

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125(8)	Furnishing and Installing 28-Inch Manhole Frame and Cover	4	each	285.87	1,143.48	339.89	1,359.56	337.00	1,348.00		100.00	400.00
125(9)	Furnishing and Installing Four 4-Inch Transite Ducts Encased in Reinforced Concrete Jacket	10	lin.ft.	34.00	340.00	40.32	403.20	29.00	290.00		12.00	120.00
SUM OF ALL ITEMS					1,372,878.18		1,518,255.89		1,537,647.19			1,549,806.00
GROUP I												
Sum of Items 58(3)I, 58(3a)I, 58(4)I, 58(4a)I					19,220.80		43,008.24		22,332.00		27,132.00	
Sum of Items 59(7b)II and 59(8b)II					15,615.34		16,786.36		20,126.00		22,910.00	
Deduct More Expensive Sum Above						19,220.80		43,008.24		22,322.00		27,132.00
GROUP II												
Sum of Items 58(6)I, 58(7)I, 58(7a)I, 58(8)I					15,879.84		44,696.24		18,624.00		23,616.00	
Sum of Items 59(9c)II and 59(10c)II					14,800.20		17,222.48		18,696.00		18,696.00	
Deduct More Expensive Sum Above						15,879.84		44,696.24		18,696.00		23,616.00
AMOUNT FOR COMPARISON OF BIDS						1,337,777.54		1,430,551.41		1,496,629.19		1,499,058.00

I certify that this bid tabulation accurately
reflects the bids received and publicly opened
for the construction of this project.

ROY NAKANO
Contracts & Specifications Engineer