

PROJECT: VINEYARD - PUNCHBOWL TRAFFIC IMPROVEMENT PROJECT

PROJECT NO.: 98A-01-89

ISLAND: OAHU

DATE ADVERTISED: Honolulu Advertiser - November 27, 29 and December 3, 1990

BIDS OPENED: DECEMBER 20, 1990

COMPLETION TIME: ONE HUNDRED TWENTY (120) Working Days

SITE ENGINEERING
INC.KAIKOR CONSTRUCTION
CO., LTD.IDEAL CONSTRUCTION
INC.OKADA TRUCKING
CO., LTD.STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
201.0100	Removing Large Trees	10	Each	\$ 958.40	\$ 9,584.00	\$ 2,300.00	\$ 23,000.00	\$ 5,000.00	\$ 50,000.00	\$ 300.00	\$ 3,000.00	\$ 700.00	\$ 7,000.00
202.0410	Removal of Existing Wheelchair Ramp	4	Each	\$ 241.00	\$ 964.00	\$ 250.00	\$ 1,000.00	\$ 100.00	\$ 400.00	\$ 575.00	\$ 2,300.00	\$ 200.00	\$ 800.00
202.0411	Removal of Existing Drain Box	1	Each	\$ 2,250.00	\$ 2,250.00	\$ 1,800.00	\$ 1,800.00	\$ 2,000.00	\$ 2,000.00	\$ 1,650.00	\$ 1,650.00	\$ 300.00	\$ 300.00
202.0420	Removal of Existing Curb and Gutter	520	Lin Ft	\$ 10.53	\$ 5,475.60	\$ 4.00	\$ 2,080.00	\$ 10.00	\$ 5,200.00	\$ 6.00	\$ 3,120.00	\$ 5.00	\$ 2,600.00
202.0421	Removal of Existing Concrete Sidewalk	520	Lin Ft	\$ 17.82	\$ 9,266.40	\$ 4.00	\$ 2,080.00	\$ 15.00	\$ 7,800.00	\$ 12.00	\$ 6,240.00	\$ 10.00	\$ 5,200.00
202.0422	Removal of Existing Thru Gutter	180	Lin Ft	\$ 12.62	\$ 2,271.60	\$ 7.50	\$ 1,350.00	\$ 15.00	\$ 2,700.00	\$ 4.00	\$ 720.00	\$ 5.00	\$ 900.00
202.0423	Removal of Existing Irrigation Line	440	Lin Ft	\$ 9.06	\$ 3,986.40	\$ 1.25	\$ 550.00	\$ 15.00	\$ 6,600.00	\$ 4.00	\$ 1,760.00	\$ 2.00	\$ 880.00
203.0100	Roadway Excavation	1130	Cu Yd	\$ 103.09	\$ 116,491.70	\$ 120.00	\$ 135,600.00	\$ 200.00	\$ 226,000.00	\$ 544.20	\$ 614,946.00	\$ 30.00	\$ 33,900.00
206.2020	Structural Excavation for Drainage System	211	Cu Yd	\$ 181.29	\$ 38,252.19	\$ 90.00	\$ 18,990.00	\$ 150.00	\$ 31,650.00	\$ 300.00	\$ 63,300.00	\$ 100.00	\$ 21,100.00
206.2030	Structural Excavation for Sprinkler System	18	Cu Yd	\$ 111.16	\$ 2,000.88	\$ 130.00	\$ 2,340.00	\$ 150.00	\$ 2,700.00	\$ 100.00	\$ 1,800.00	\$ 50.00	\$ 900.00
206.2040	Structural Excavation for Water System	4	Cu Yd	\$ 774.25	\$ 3,097.00	\$ 115.00	\$ 460.00	\$ 150.00	\$ 600.00	\$ 1,850.00	\$ 7,400.00	\$ 50.00	\$ 200.00
206.5000	Structural Excavation for Retaining Walls	330	Cu Yd	\$ 76.45	\$ 25,228.50	\$ 50.00	\$ 16,500.00	\$ 150.00	\$ 49,500.00	\$ 175.00	\$ 57,750.00	\$ 50.00	\$ 16,500.00
206.7200	Structural Backfill for Retaining Walls	420	Cu Yd	\$ 54.83	\$ 23,028.60	\$ 60.00	\$ 25,200.00	\$ 125.00	\$ 52,500.00	\$ 55.00	\$ 23,100.00	\$ 50.00	\$ 21,000.00
206.8300	Filter Material for Retaining Walls	7	Cu Yd	\$ 133.42	\$ 933.94	\$ 225.00	\$ 1,575.00	\$ 200.00	\$ 1,400.00	\$ 125.00	\$ 875.00	\$ 80.00	\$ 560.00
206.8310	Filter Fabric for Retaining Walls	20	Sq Yd	\$ 16.75	\$ 335.00	\$ 35.00	\$ 700.00	\$ 50.00	\$ 1,000.00	\$ 12.00	\$ 240.00	\$ 25.00	\$ 500.00
304.1110	Aggregate Base	425	Cu Yd	\$ 76.24	\$ 32,402.00	\$ 140.00	\$ 59,500.00	\$ 125.00	\$ 53,125.00	\$ 75.00	\$ 31,875.00	\$ 60.00	\$ 25,500.00
305.1110	Aggregate Subbase	670	Cu Yd	\$ 65.73	\$ 44,039.10	\$ 40.00	\$ 26,800.00	\$ 125.00	\$ 83,750.00	\$ 45.00	\$ 30,150.00	\$ 50.00	\$ 33,500.00
401.0300	Asphalt Concrete Pavement, Mix No. III	420	Ton	\$ 150.17	\$ 63,071.40	\$ 120.00	\$ 50,400.00	\$ 400.00	\$ 168,000.00	\$ 145.00	\$ 60,900.00	\$ 90.00	\$ 37,800.00
401.0500	Asphalt Concrete Pavement, Mix No. V	120	Ton	\$ 171.82	\$ 20,618.40	\$ 135.00	\$ 16,200.00	\$ 400.00	\$ 48,000.00	\$ 165.00	\$ 19,800.00	\$ 90.00	\$ 10,800.00
408.0100	MC-30 Liquid Asphalt for Prime Coat	630	Gal	\$ 5.03	\$ 3,168.90	\$ 3.00	\$ 1,890.00	\$ 3.00	\$ 1,890.00	\$ 4.80	\$ 3,024.00	\$ 5.00	\$ 3,150.00
503.0002	Class A Concrete for Drainage System	34	Cu Yd	\$ 1,264.18	\$ 42,982.12	\$ 850.00	\$ 28,900.00	\$ 1,000.00	\$ 34,000.00	\$ 850.00	\$ 28,900.00	\$ 450.00	\$ 15,300.00

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ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
503.0040	Class A Concrete for Water System	1	Cu Yd	\$ 997.00	\$ 997.00	\$ 800.00	\$ 800.00	\$ 1,000.00	\$ 1,000.00	\$ 400.00	\$ 400.00	\$ 450.00	\$ 450.00
503.1040	Concrete in Retaining Walls	260	Cu Yd	\$ 592.41	\$ 154,026.60	\$ 550.00	\$ 143,000.00	\$ 1,000.00	\$ 260,000.00	\$ 650.00	\$ 169,000.00	\$ 450.00	\$ 117,000.00
602.0050	Reinforcing Steel for Retaining Walls		L.S.	L.S.	\$ 15,393.00	L.S.	\$ 32,328.00	L.S.	\$ 20,850.00	L.S.	\$ 14,600.00	L.S.	\$ 38,719.00
602.1021	Reinforcing Steel for Drainage System		L.S.	L.S.	\$ 3,211.00	L.S.	\$ 6,135.00	L.S.	\$ 4,350.00	L.S.	\$ 3,100.00	L.S.	\$ 4,000.00
603.0010	Bed Course Material for Culvert	16	Cu Yd	\$ 56.93	\$ 910.88	\$ 200.00	\$ 3,200.00	\$ 125.00	\$ 2,000.00	\$ 65.00	\$ 1,040.00	\$ 70.00	\$ 1,120.00
603.1066	18-Inch Reinforced Concrete Pipe, Class III	10	Lin Ft	\$ 71.40	\$ 714.00	\$ 140.00	\$ 1,400.00	\$ 300.00	\$ 3,000.00	\$ 45.00	\$ 450.00	\$ 80.00	\$ 800.00
603.2066	24-Inch Corrugated Metal Pipe, Sheet Thickness, 0.079 Inch	16	Lin Ft	\$ 33.93	\$ 542.88	\$ 105.00	\$ 1,680.00	\$ 400.00	\$ 6,400.00	\$ 60.00	\$ 960.00	\$ 90.00	\$ 1,440.00
603.2068	30-Inch Corrugated Metal Pipe, Sheet Thickness, 0.079 Inch	71	Lin Ft	\$ 65.53	\$ 4,652.63	\$ 80.00	\$ 5,680.00	\$ 450.00	\$ 31,950.00	\$ 70.00	\$ 4,970.00	\$ 100.00	\$ 7,100.00
603.9000	Cutting and Plugging Existing Drain Line		L.S.	L.S.	\$ 2,313.00	L.S.	\$ 1,000.00	L.S.	\$ 2,000.00	L.S.	\$ 4,000.00	L.S.	\$ 2,500.00
604.0360	Concrete Wall for Drain Manholes	6	Lin Ft	\$ 895.33	\$ 5,371.98	\$ 300.00	\$ 1,800.00	\$ 2,000.00	\$ 12,000.00	\$ 850.00	\$ 5,100.00	\$ 1,200.00	\$ 7,200.00
604.0401	Standard Water Valve Box	1	Each	\$ 545.00	\$ 545.00	\$ 300.00	\$ 300.00	\$ 500.00	\$ 500.00	\$ 475.00	\$ 475.00	\$ 400.00	\$ 400.00
604.0412	Removal of Existing Water Meter Box	1	Each	\$ 285.00	\$ 285.00	\$ 100.00	\$ 100.00	\$ 500.00	\$ 500.00	\$ 125.00	\$ 125.00	\$ 200.00	\$ 200.00
604.1410	Existing Storm Drain Manhole to be Demolished	18	Lin Ft	\$ 226.44	\$ 4,075.92	\$ 420.00	\$ 7,560.00	\$ 300.00	\$ 5,400.00	\$ 200.00	\$ 3,600.00	\$ 150.00	\$ 2,700.00
604.1420	Existing Catch Basin to be Demolished	8	Lin Ft	\$ 242.54	\$ 1,940.32	\$ 420.00	\$ 3,360.00	\$ 500.00	\$ 4,000.00	\$ 225.00	\$ 1,800.00	\$ 200.00	\$ 1,600.00
604.1470	Existing Type C Water Manhole to be Demolished	6	Lin Ft	\$ 212.00	\$ 1,272.00	\$ 170.00	\$ 1,020.00	\$ 300.00	\$ 1,800.00	\$ 200.00	\$ 1,200.00	\$ 150.00	\$ 900.00
604.2170	Type DA Cast Iron Frame and Cover (City and County Standard)	2	Each	\$ 349.50	\$ 699.00	\$ 300.00	\$ 600.00	\$ 500.00	\$ 1,000.00	\$ 350.00	\$ 700.00	\$ 600.00	\$ 1,200.00
604.2174	Type DB Cast Iron Frame and Cover (City and County Standard)	1	Each	\$ 349.50	\$ 349.50	\$ 300.00	\$ 300.00	\$ 600.00	\$ 600.00	\$ 350.00	\$ 350.00	\$ 600.00	\$ 600.00

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604.3030	Removing, Cleaning, Painting, and Reinstalling Type P Cast Iron Frame and Cover for Drainage Manhole	2	Each	\$ 88.00	\$ 176.00	\$ 300.00	\$ 600.00	\$ 400.00	\$ 800.00	\$ 310.00	\$ 620.00	\$ 300.00	\$ 600.00
604.4200	Adjusting Type A Cast Iron Frame and Cover for Storm Drain Manhole	1	Each	\$ 273.15	\$ 273.15	\$ 300.00	\$ 300.00	\$ 300.00	\$ 300.00	\$ 600.00	\$ 600.00	\$ 300.00	\$ 300.00
604.4260	Adjusting 20-Inch Cast Iron Frame and Cover for Water Manhole	2	Each	\$ 203.26	\$ 406.52	\$ 300.00	\$ 600.00	\$ 300.00	\$ 600.00	\$ 600.00	\$ 1,200.00	\$ 300.00	\$ 600.00
604.4300	Adjusting Type SA Cast Iron Frame and Cover for Sewer Manhole	3	Each	\$ 273.15	\$ 819.45	\$ 300.00	\$ 900.00	\$ 500.00	\$ 1,500.00	\$ 600.00	\$ 1,800.00	\$ 300.00	\$ 900.00
604.4600	Adjusting Type A Water Manhole Top Slab	2	Each	\$ 316.40	\$ 632.80	\$ 1,100.00	\$ 2,200.00	\$ 500.00	\$ 1,000.00	\$ 8,500.00	\$ 17,000.00	\$ 2,500.00	\$ 5,000.00
606.3100	Guardrail, Type 3 - Single With Steel Post	630	Lin Ft	\$ 19.54	\$ 12,310.20	\$ 20.00	\$ 12,600.00	\$ 27.00	\$ 17,010.00	\$ 18.50	\$ 11,655.00	\$ 50.00	\$ 31,500.00
607.0160	6-Foot Chain Link Fence Without Top Rail With Concrete Footing	830	Lin Ft	\$ 15.45	\$ 12,823.50	\$ 21.00	\$ 17,430.00	\$ 21.00	\$ 17,430.00	\$ 18.00	\$ 14,940.00	\$ 25.00	\$ 20,750.00
607.0330	3-Foot Chain Link Fence Without Top Rail on Concrete Structure	170	Lin Ft	\$ 8.90	\$ 1,513.00	\$ 10.00	\$ 1,700.00	\$ 12.00	\$ 2,040.00	\$ 12.00	\$ 2,040.00	\$ 15.00	\$ 2,550.00
608.0300	Patterned Concrete Sidewalk	320	Sq Yd	\$ 86.57	\$ 27,702.40	\$ 55.00	\$ 17,600.00	\$ 50.00	\$ 16,000.00	\$ 160.00	\$ 51,200.00	\$ 90.00	\$ 28,800.00
608.9000	Root Barrier for Sidewalk	110	Cu Ft	\$ 16.78	\$ 1,845.80	\$ 19.00	\$ 2,090.00	\$ 20.00	\$ 2,200.00	\$ 12.50	\$ 1,375.00	\$ 300.00	\$ 33,000.00
609.2010	Curb, Type 2A	370	Lin Ft	\$ 45.21	\$ 16,727.70	\$ 21.00	\$ 7,770.00	\$ 50.00	\$ 18,500.00	\$ 12.00	\$ 4,440.00	\$ 18.00	\$ 6,660.00
609.2720	Curb and Gutter, Type 2DG	435	Lin Ft	\$ 33.88	\$ 14,737.80	\$ 22.00	\$ 9,570.00	\$ 75.00	\$ 32,625.00	\$ 22.00	\$ 9,570.00	\$ 20.00	\$ 8,700.00
609.2800	Stone Curb Relocation	65	Lin Ft	\$ 21.46	\$ 1,394.90	\$ 21.00	\$ 1,365.00	\$ 25.00	\$ 1,625.00	\$ 12.00	\$ 780.00	\$ 20.00	\$ 1,300.00
609.9000	Concrete Thru Gutter	80	Lin Ft	\$ 27.57	\$ 2,205.60	\$ 27.00	\$ 2,160.00	\$ 50.00	\$ 4,000.00	\$ 22.00	\$ 1,760.00	\$ 20.00	\$ 1,600.00
614.0200	Reconstructed Survey Monument	1	Each	\$ 785.00	\$ 785.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 800.00	\$ 800.00
616.0400	Removing, Cleaning, and Returning Impact (Q, H, and F) Sprinkler Head	1	Each	\$ 83.05	\$ 83.05	\$ 82.00	\$ 82.00	\$ 100.00	\$ 100.00	\$ 80.00	\$ 80.00	\$ 20.00	\$ 20.00

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ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
616.0500	Removing, Cleaning, and Reinstalling Impact (Q, H, and F) Sprinkler Head	20	Each	\$ 91.36	\$ 1,827.20	\$ 90.00	\$ 1,800.00	\$ 100.00	\$ 2,000.00	\$ 86.50	\$ 1,730.00	\$ 20.00	\$ 400.00
616.0600	Impact Rotor (Q, H, and F) Sprinkler Head	1	Each	\$ 242.53	\$ 242.53	\$ 240.00	\$ 240.00	\$ 300.00	\$ 300.00	\$ 230.00	\$ 230.00	\$ 70.00	\$ 70.00
616.1200	1/2 Inch PVC Pipe	280	Lin Ft	\$ 4.06	\$ 1,136.80	\$ 4.00	\$ 1,120.00	\$ 5.50	\$ 1,540.00	\$ 3.85	\$ 1,078.00	\$ 2.50	\$ 700.00
616.1210	3/4 Inch PVC Pipe	280	Lin Ft	\$ 4.48	\$ 1,254.40	\$ 5.00	\$ 1,400.00	\$ 6.00	\$ 1,680.00	\$ 4.25	\$ 1,190.00	\$ 2.75	\$ 770.00
616.1220	1-Inch PVC Pipe	190	Lin Ft	\$ 5.18	\$ 984.20	\$ 5.00	\$ 950.00	\$ 7.00	\$ 1,330.00	\$ 4.90	\$ 931.00	\$ 3.00	\$ 570.00
616.1230	1-1/4 Inch PVC Pipe	490	Lin Ft	\$ 5.89	\$ 2,886.10	\$ 6.00	\$ 2,940.00	\$ 7.50	\$ 3,675.00	\$ 5.60	\$ 2,744.00	\$ 3.50	\$ 1,715.00
616.1240	1-1/2 Inch PVC Pipe	300	Lin Ft	\$ 6.47	\$ 1,941.00	\$ 6.50	\$ 1,950.00	\$ 8.00	\$ 2,400.00	\$ 6.15	\$ 1,845.00	\$ 4.00	\$ 1,200.00
616.1250	2-Inch PVC Pipe	720	Lin Ft	\$ 7.64	\$ 5,500.80	\$ 7.50	\$ 5,400.00	\$ 8.50	\$ 6,120.00	\$ 7.25	\$ 5,220.00	\$ 4.50	\$ 3,240.00
616.2100	P-12 (Q, H, and F) Sprinkler Head	49	Each	\$ 73.09	\$ 3,581.41	\$ 72.00	\$ 3,528.00	\$ 100.00	\$ 4,900.00	\$ 70.00	\$ 3,430.00	\$ 50.00	\$ 2,450.00
616.2110	P-15 (Q, H, and F) Sprinkler Head	8	Each	\$ 73.09	\$ 584.72	\$ 72.00	\$ 576.00	\$ 100.00	\$ 800.00	\$ 70.00	\$ 560.00	\$ 50.00	\$ 400.00
616.2700	B-1 Bubbler Head	96	Each	\$ 26.18	\$ 2,513.28	\$ 26.00	\$ 2,496.00	\$ 36.00	\$ 3,456.00	\$ 25.00	\$ 2,400.00	\$ 50.00	\$ 4,800.00
616.3540	2-Inch Remote Control Valve with Valve Box	2	Each	\$ 277.42	\$ 554.84	\$ 275.00	\$ 550.00	\$ 300.00	\$ 600.00	\$ 265.00	\$ 530.00	\$ 400.00	\$ 800.00
617.0100	Imported Planting Soil	100	Cu Yd	\$ 83.05	\$ 8,305.00	\$ 47.00	\$ 4,700.00	\$ 100.00	\$ 10,000.00	\$ 80.00	\$ 8,000.00	\$ 40.00	\$ 4,000.00
618.0100	Grassed Surfaces	5380	Sq Ft	\$ 0.50	\$ 2,690.00	\$ 0.50	\$ 2,690.00	\$ 0.55	\$ 2,959.00	\$ 0.50	\$ 2,690.00	\$ 0.25	\$ 1,345.00
619.0160	Planting Trees, Citharexylum Spinosum (Fiddlewood) 72 Inches High in 15-Gallon Cans	19	Each	\$ 415.30	\$ 7,890.70	\$ 410.00	\$ 7,790.00	\$ 500.00	\$ 9,500.00	\$ 400.00	\$ 7,600.00	\$ 500.00	\$ 9,500.00
619.7200	Planting Vines, Ipomoea Horsfalliae (Prince Kuhio Vine) 18 Inches Long in 1-Gallon Cans	200	Each	\$ 16.61	\$ 3,322.00	\$ 16.00	\$ 3,200.00	\$ 20.00	\$ 4,000.00	\$ 15.75	\$ 3,150.00	\$ 15.00	\$ 3,000.00
621.5100	Regulatory and Warning Sign (10 Square Feet or Less) with Post	6	Each	\$ 265.79	\$ 1,594.74	\$ 265.00	\$ 1,590.00	\$ 300.00	\$ 1,800.00	\$ 250.00	\$ 1,500.00	\$ 400.00	\$ 2,400.00

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621.5500	Regulatory and Warning Sign (Construction) with Post	7	Each	\$ 271.32	\$ 1,899.24	\$ 270.00	\$ 1,890.00	\$ 305.00	\$ 2,135.00	\$ 260.00	\$ 1,820.00	\$ 400.00	\$ 2,800.00
621.5600	Relocate Regulatory and Warning Sign with Post	23	Each	\$ 160.58	\$ 3,693.34	\$ 160.00	\$ 3,680.00	\$ 175.00	\$ 4,025.00	\$ 155.00	\$ 3,565.00	\$ 350.00	\$ 8,050.00
621.7000	Removing, Cleaning, and Returning Warning Sign	2	Each	\$ 149.50	\$ 299.00	\$ 185.00	\$ 370.00	\$ 150.00	\$ 300.00	\$ 145.00	\$ 290.00	\$ 200.00	\$ 400.00
621.7100	Construction Sign with Post	16	Each	\$ 437.44	\$ 6,999.04	\$ 475.00	\$ 7,600.00	\$ 500.00	\$ 8,000.00	\$ 415.00	\$ 6,640.00	\$ 400.00	\$ 6,400.00
622.7005	Furnish and Install One 2-Inch Duct	930	Lin Ft	\$ 42.08	\$ 39,134.40	\$ 23.00	\$ 21,390.00	\$ 48.00	\$ 44,640.00	\$ 21.00	\$ 19,530.00	\$ 22.50	\$ 20,925.00
622.7011	Furnish and Install Wire, 600V 3-1/C, #6 with Ground Wire	30	Lin Ft	\$ 3.32	\$ 99.60	\$ 5.00	\$ 150.00	\$ 4.50	\$ 135.00	\$ 4.50	\$ 135.00	\$ 1.50	\$ 45.00
622.7012	Furnish and Install Wire, 600V, 3-1/C #2 with Ground Wire	380	Lin Ft	\$ 5.54	\$ 2,105.20	\$ 6.00	\$ 2,280.00	\$ 6.25	\$ 2,375.00	\$ 6.25	\$ 2,375.00	\$ 3.00	\$ 1,140.00
622.7013	Furnish and Install City and County of Honolulu, Department of Transportation Services Pullbox, Type "SLD-1"	2	Each	\$ 677.77	\$ 1,355.54	\$ 700.00	\$ 1,400.00	\$ 765.00	\$ 1,530.00	\$ 450.00	\$ 900.00	\$ 350.00	\$ 700.00
622.7014	Furnish and Install City and County of Honolulu, Fire Alarm Pullbox, Type "A"	4	Each	\$ 839.46	\$ 3,357.84	\$ 700.00	\$ 2,800.00	\$ 950.00	\$ 3,800.00	\$ 420.00	\$ 1,680.00	\$ 350.00	\$ 1,400.00
622.7015	Furnish and Install Street Light Base, Re- install Street Light	4	Each	\$ 619.07	\$ 2,476.28	\$ 450.00	\$ 1,800.00	\$ 700.00	\$ 2,800.00	\$ 1,060.00	\$ 4,240.00	\$ 1,900.00	\$ 7,600.00
622.7016	Demolish Existing Street Light Base	4	Each	\$ 117.19	\$ 468.76	\$ 100.00	\$ 400.00	\$ 200.00	\$ 800.00	\$ 250.00	\$ 1,000.00	\$ 500.00	\$ 2,000.00
623.2010	Furnish and Install Type I Signal Standard	22	Each	\$ 585.85	\$ 12,888.70	\$ 300.00	\$ 6,600.00	\$ 650.00	\$ 14,300.00	\$ 500.00	\$ 11,000.00	\$ 550.00	\$ 12,100.00
623.2030	Furnish and Install Foundation for Type I Signal Standard	2	Each	\$ 567.02	\$ 1,134.04	\$ 700.00	\$ 1,400.00	\$ 640.00	\$ 1,280.00	\$ 500.00	\$ 1,000.00	\$ 880.00	\$ 1,760.00
623.3000	Furnish and Install Traffic Signal Assembly (One Way, 12-Inch, Two Vertical with Slip Fitter Mounting)	1	Each	\$ 596.92	\$ 596.92	\$ 500.00	\$ 500.00	\$ 650.00	\$ 650.00	\$ 475.00	\$ 475.00	\$ 550.00	\$ 550.00

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				SITE ENGINEERING INC.		KAIKOR CONSTRUCTION CO., LTD.		IDEAL CONSTRUCTION INC.		OKADA TRUCKING CO., LTD.		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
623.3010	Furnish and Install Traffic Signal Assembly (Two Way, 12-Inch, Two Vertical with Slip Fitter Mounting)	1	Each	\$ 1,202.71	\$ 1,202.71	\$ 800.00	\$ 800.00	\$ 1,400.00	\$ 1,400.00	\$ 935.00	\$ 935.00	\$ 550.00	\$ 550.00
623.3030	Furnish and Install Traffic Signal Assembly (One Way, 12-Inch, One Vertical with Bracket Mounting)	1	Each	\$ 499.47	\$ 499.47	\$ 500.00	\$ 500.00	\$ 600.00	\$ 600.00	\$ 540.00	\$ 540.00	\$ 550.00	\$ 550.00
623.4020	Furnish and Install Pedestrian Signal Assembly (One Way, 12-Inch, One Vertical with Bracket Mounting)	2	Each	\$ 759.72	\$ 1,519.44	\$ 700.00	\$ 1,400.00	\$ 850.00	\$ 1,700.00	\$ 735.00	\$ 1,470.00	\$ 580.00	\$ 1,160.00
623.4030	Furnish and Install Pedestrian Signal Assembly (Two Way, 12-Inch, Two Vertical with Bracket Mounting)	1	Each	\$ 1,430.85	\$ 1,430.85	\$ 1,200.00	\$ 1,200.00	\$ 1,625.00	\$ 1,625.00	\$ 1,385.00	\$ 1,385.00	\$ 580.00	\$ 580.00
623.4040	Furnish and Install Pedestrian Pushbutton with Instruction Sign	3	Each	\$ 147.29	\$ 441.87	\$ 200.00	\$ 600.00	\$ 165.00	\$ 495.00	\$ 125.00	\$ 375.00	\$ 230.00	\$ 690.00
623.4041	Remove and Relocate or Adjust Existing Pedestrian Signal Assembly, Pedestrian Pushbutton and Instruction Sign		L.S.	L.S.	\$ 1,414.00	L.S.	\$ 500.00	L.S.	\$ 1,500.00	L.S.	\$ 900.00	L.S.	\$ 1,770.00
623.5000	Furnish and Install One 2-Inch Duct	930	Lin Ft	\$ 42.08	\$ 39,134.40	\$ 23.00	\$ 21,390.00	\$ 50.00	\$ 46,500.00	\$ 52.00	\$ 48,360.00	\$ 22.50	\$ 20,925.00
623.5010	Furnish and Install Two 2-Inch Ducts	520	Lin Ft	\$ 46.51	\$ 24,185.20	\$ 135.00	\$ 70,200.00	\$ 55.00	\$ 28,600.00	\$ 63.00	\$ 32,760.00	\$ 27.50	\$ 14,300.00
623.5020	Furnish and Install Three 2-Inch Ducts	30	Lin Ft	\$ 50.94	\$ 1,528.20	\$ 75.00	\$ 2,250.00	\$ 60.00	\$ 1,800.00	\$ 65.00	\$ 1,950.00	\$ 30.50	\$ 915.00
623.6010	Furnish and Install Traffic Signal type B Pullbox	5	Each	\$ 603.57	\$ 3,017.85	\$ 800.00	\$ 4,000.00	\$ 675.00	\$ 3,375.00	\$ 420.00	\$ 2,100.00	\$ 550.00	\$ 2,750.00
623.7010	Furnish and Install No. 14, 24 Conductor Interconnect Cable	630	Lin Ft	\$ 4.43	\$ 2,790.90	\$ 8.00	\$ 5,040.00	\$ 5.00	\$ 3,150.00	\$ 6.00	\$ 3,780.00	\$ 4.00	\$ 2,520.00
623.7015	Furnish and Install No. 14, 2 Conductor Loop Detector Lead-in Cable	500	Lin Ft	\$ 1.11	\$ 555.00	\$ 7.00	\$ 3,500.00	\$ 1.25	\$ 625.00	\$ 1.10	\$ 550.00	\$ 2.00	\$ 1,000.00
623.7041	Furnish and Install Loop Detector Sensing Unit (8 Ft. x 6 Ft.) One Loop	7	Each	\$ 442.99	\$ 3,100.93	\$ 550.00	\$ 3,850.00	\$ 500.00	\$ 3,500.00	\$ 340.00	\$ 2,380.00	\$ 550.00	\$ 3,850.00

PROJECT: VINEYARD - PUNCHBOWL TRAFFIC IMPROVEMENT PROJECT

PROJECT NO.: 98A-01-89

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BIDS OPENED: DECEMBER 20, 1990

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ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
623.7043	Furnish and Install Loop Detector Sensing Unit (8 Ft. x 6 Ft.) Two Loops	9	Each	\$ 885.97	\$ 7,973.73	\$ 1,100.00	\$ 9,900.00	\$ 1,000.00	\$ 9,000.00	\$ 745.00	\$ 6,705.00	\$ 1,100.00	\$ 9,900.00
623.7045	Furnish and Install Loop Detector Sensing Unit (8 Ft. x 6 Ft.) Four Loops	2	Each	\$ 1,550.45	\$ 3,100.90	\$ 2,000.00	\$ 4,000.00	\$ 1,750.00	\$ 3,500.00	\$ 1,425.00	\$ 2,850.00	\$ 2,200.00	\$ 4,400.00
623.7047	Furnish and Install Loop Detector Sensing Unit (8 Ft. x 6 Ft.) Five Loops	3	Each	\$ 1,993.44	\$ 5,980.32	\$ 2,700.00	\$ 8,100.00	\$ 2,250.00	\$ 6,750.00	\$ 1,600.00	\$ 4,800.00	\$ 2,800.00	\$ 8,400.00
623.8021	Furnish and Install Pipe Stanchion for Traffic Signal Controller	2	Each	\$ 692.17	\$ 1,384.34	\$ 400.00	\$ 800.00	\$ 775.00	\$ 1,550.00	\$ 935.00	\$ 1,870.00	\$ 270.00	\$ 540.00
623.8022	Removal and Salvaging of Existing Traffic Signal Materials and Equipment		L.S.	L.S.	\$ 7,071.00	L.S.	\$ 100.00	L.S.	\$ 8,000.00	L.S.	\$ 2,750.00	L.S.	\$ 8,900.00
624.1120	Furnishing and Installing 6-Inch Ductile Iron Pipe	12	Lin Ft	\$ 82.35	\$ 988.20	\$ 105.00	\$ 1,260.00	\$ 300.00	\$ 3,600.00	\$ 30.00	\$ 360.00	\$ 100.00	\$ 1,200.00
624.1303	Furnishing and Installing 8-Inch X 6-Inch Tapping Sleeve Including 6-Inch Tapping Valve (Class 150)	1	Each	\$ 1,913.00	\$ 1,913.00	\$ 3,800.00	\$ 3,800.00	\$ 2,000.00	\$ 2,000.00	\$ 2,250.00	\$ 2,250.00	\$ 3,000.00	\$ 3,000.00
624.1600	Furnishing and Installing 6-Inch Ductile Iron Nipple (Class 150) Flange End	1	Each	\$ 445.00	\$ 445.00	\$ 355.00	\$ 355.00	\$ 250.00	\$ 250.00	\$ 380.00	\$ 380.00	\$ 300.00	\$ 300.00
624.1781	Furnishing and Installing Type III Meter Box Including Cast Iron Frame	1	Each	\$ 1,085.00	\$ 1,085.00	\$ 550.00	\$ 550.00	\$ 1,000.00	\$ 1,000.00	\$ 1,100.00	\$ 1,100.00	\$ 500.00	\$ 500.00
624.1859	Furnishing and Installing 2-1/2 Inch Single Service Lateral and All Appurtenances	1	Each	\$ 2,268.00	\$ 2,268.00	\$ 2,200.00	\$ 2,200.00	\$ 2,500.00	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00	\$ 600.00	\$ 600.00
624.4670	Removing, Cleaning, Painting, and Reinstalling Fire Hydrant	2	Each	\$ 647.00	\$ 1,294.00	\$ 1,100.00	\$ 2,200.00	\$ 500.00	\$ 1,000.00	\$ 950.00	\$ 1,900.00	\$ 2,500.00	\$ 5,000.00
624.4800	Removing, Cleaning, Painting, and Reinstalling 2-Inch Water Meter	1	Each	\$ 295.00	\$ 295.00	\$ 600.00	\$ 600.00	\$ 250.00	\$ 250.00	\$ 200.00	\$ 200.00	\$ 500.00	\$ 500.00
624.7010	Removing, Cleaning, and Returning Cast Iron Meter Box Frame and Cover (To BWS Kalihi Yard)	1	Each	\$ 88.00	\$ 88.00	\$ 450.00	\$ 450.00	\$ 250.00	\$ 250.00	\$ 185.00	\$ 185.00	\$ 250.00	\$ 250.00

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ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
624.7020	Removing, Cleaning, and Returning 24-Inch Cast Iron Water Manhole Frame and Cover (To BWS Kalihi Yard)	1	Each	\$ 88.00	\$ 88.00	\$ 350.00	\$ 350.00	\$ 500.00	\$ 500.00	\$ 150.00	\$ 150.00	\$ 250.00	\$ 250.00
624.9000	Cutting and Plugging Existing Fire Hydrant Connection		L.S.	L.S.	\$ 843.00	L.S.	\$ 800.00	L.S.	\$ 2,500.00	L.S.	\$ 2,000.00	L.S.	\$ 2,500.00
625.1748	Furnishing and Installing 6-Inch Removable Cap with 2-1/2 Inch Clean Out	1	Each	\$ 312.00	\$ 312.00	\$ 650.00	\$ 650.00	\$ 500.00	\$ 500.00	\$ 550.00	\$ 550.00	\$ 1,000.00	\$ 1,000.00
629.1010	Pavement Striping	4360	Lin Ft	\$ 0.78	\$ 3,400.80	\$ 0.75	\$ 3,270.00	\$ 1.00	\$ 4,360.00	\$ 0.75	\$ 3,270.00	\$ 3.00	\$ 13,080.00
629.1020	Crosswalk Marking	21	Lane	\$ 221.49	\$ 4,651.29	\$ 200.00	\$ 4,200.00	\$ 250.00	\$ 5,250.00	\$ 210.00	\$ 4,410.00	\$ 250.00	\$ 5,250.00
629.1030	Pavement Arrows	19	Each	\$ 110.74	\$ 2,104.06	\$ 110.00	\$ 2,090.00	\$ 125.00	\$ 2,375.00	\$ 105.00	\$ 1,995.00	\$ 200.00	\$ 3,800.00
629.1040	Pavement Words	6	Each	\$ 199.34	\$ 1,196.04	\$ 190.00	\$ 1,140.00	\$ 200.00	\$ 1,200.00	\$ 190.00	\$ 1,140.00	\$ 400.00	\$ 2,400.00
629.2010	Type A Pavement Markers	120	Each	\$ 2.99	\$ 358.80	\$ 3.00	\$ 360.00	\$ 3.50	\$ 420.00	\$ 2.85	\$ 342.00	\$ 10.00	\$ 1,200.00
629.2031	Type CL Pavement Markers	104	Each	\$ 3.87	\$ 402.48	\$ 5.00	\$ 520.00	\$ 4.00	\$ 416.00	\$ 3.75	\$ 390.00	\$ 10.00	\$ 1,040.00
629.2040	Type D Pavement Markers	6	Each	\$ 5.53	\$ 33.18	\$ 4.00	\$ 24.00	\$ 6.00	\$ 36.00	\$ 5.50	\$ 33.00	\$ 10.00	\$ 60.00
629.2070	Type H Pavement Markers	28	Each	\$ 4.43	\$ 124.04	\$ 6.00	\$ 168.00	\$ 5.00	\$ 140.00	\$ 4.25	\$ 119.00	\$ 10.00	\$ 280.00
630.9999	Furnish and Install Work Indicated on Hawaiian Electric Company Drawings No. 26820 and 26821		L.S.	L.S.	\$ 25,471.00	L.S.	\$ 9,700.00	L.S.	\$ 30,000.00	L.S.	\$ 51,200.00	L.S.	\$ 12,000.00
645.1000	Traffic Control		F.A.	F.A.	\$ 30,000.00	F.A.	\$ 30,000.00	F.A.	\$ 30,000.00	F.A.	\$ 30,000.00	F.A.	\$ 30,000.00
645.2000	Police Officers and/or Additional Traffic Control Devices		F.A.	F.A.	\$ 12,500.00	F.A.	\$ 12,500.00	F.A.	\$ 12,500.00	F.A.	\$ 12,500.00	F.A.	\$ 12,500.00
650.3010	Wheelchair Ramp, Type A (Modified)	1	Each	\$ 782.00	\$ 782.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 385.00	\$ 385.00	\$ 600.00	\$ 600.00
650.3030	Wheelchair Ramp, Type C	2	Each	\$ 1,063.00	\$ 2,126.00	\$ 400.00	\$ 800.00	\$ 1,500.00	\$ 3,000.00	\$ 830.00	\$ 1,660.00	\$ 600.00	\$ 1,200.00
650.3040	Wheelchair Ramp, (City & County Standard)	6	Each	\$ 647.00	\$ 3,882.00	\$ 450.00	\$ 2,700.00	\$ 1,500.00	\$ 9,000.00	\$ 615.00	\$ 3,690.00	\$ 600.00	\$ 3,600.00

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ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
699.1000	Mobilization (Not to Exceed 10% of the Sum of All Items Excluding F.A. Items and This Item)		L.S.	L.S.	\$ 40,021.07	L.S.	\$ 95,000.00	L.S.	\$ 15,558.00	L.S.	\$ 150,000.00	L.S.	\$ 79,879 .00
SUM OF ALL ITEMS					\$ 1,107,505.00		\$ 1,114,142.00		\$ 1,700,000.00		\$ 1,781,927.00		\$ 938,318 .00

LINCOLN CHAR
Project Manager

12/31/90
Date