TCH CONSULTING GROUP, INC.

Sample Estimate Reports

XL Pro Estimating Software

Estimate Reports were created in XL-Pro™ Software

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
1.00	GENERAL ITEMS			1.00	LSUM						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
	G-1		MOBILIZATION / DEMOBILIZATION	1.00	LSUM						-				-		-	-	-	-	-	-	-
			project administration								-				-		-	-	-	-	-	-	-
			project manager	2.00	mnth		172.000	MH/U		75.00	12,900.00				-	344.000	34,701.00	-	-	-	34,701.00	19,259.06	38,518.11
			project supervision								-				-		-	-	-	-	-	-	-
			superintendent	10.00	mnth		172.000	MH/U		45.00	7,740.00				-	1720.000	104,103.00	-	-	-	104,103.00	11,555.43	115,554.33
			superintendent - pu-truck	10.00	mnth						-	750.00			-		-	7,950.00	-	-	7,950.00	882.45	8,824.50
			equipment transportation								-				-		-	-	-	-	-	-	-
			equipment transportation	1.00	job		172.000	MH/U			4,300.00	11,180.00			-	172.000	5,783.50	11,850.80	-	-	17,634.30	19,574.07	19,574.07
			fuel surcharge	10.00	mnth						-	250.00			-		-	2,650.00	-	-	2,650.00	294.15	2,941.50
			dust control								-				-		-	-	-	-	-	-	-
			hydrant meter, city rental fee	1.00	job						-			350.00	-		-	-	-	371.00	371.00	411.81	411.81
			water-usage	8.00	mnth						-			250.00	-		-	-	-	2,120.00	2,120.00	294.15	2,353.20
			water-truck, operated during excavation and backfill	5.00	mnth						-	5,500.00			-		-	29,150.00	-	-	29,150.00	6,471.30	32,356.50
			concrete testing								-				-		-	-	-	-	-	-	-
			sampling and lab testing	1.00	job						-		5,500.00		-		-	-	5,500.00	-	5,500.00	6,105.00	6,105.00
			concrete cylinders	10.00	each						-		25.00		-		-	-	250.00	-	250.00	27.75	277.50
			4" core and patch	10.00	each	15.00	0.250	MH/U			6.25		42.50		159.00	2.500	84.06	-	425.00	-	668.06	74.15	741.55
			grout	1.00	each						-		350.00		-		-	-	350.00	-	350.00	388.50	388.50
			patch core holes	10.00	each						-		15.00		-		-	-	150.00	-	150.00	16.65	166.50
			soil testing								-				-		-	-	-	-	-	-	-
			proctor	2.00	each						-		225.00		-		-	-	450.00	-	450.00	249.75	499.50
			earthwork density (100 ft spacing x 9 lifts)	97.02	each						-		42.50		-		-	-	4,123.35	-	4,123.35	47.18	4,576.92
			utilities	2.00	each						-		42.50		-		-	-	85.00	-	85.00	47.18	94.35
			asphalt	1.00	each						-		65.00		-		-	-	65.00	-	65.00	72.15	72.15
			limerock	4.00	each						-		42.50		-		-	-	170.00	-	170.00	47.18	188.70
			technician, on-site 5hrs, every other day	156.25	hrs						-		42.50		-		-	-	6,640.63	-	6,640.63	47.18	7,371.09
			project sign								-				-		-	-	-	-	-	-	-
			project sign	1.00	each						-		550.00		-		-	-	550.00	-	550.00	610.50	610.50
			information signage	1.00	job						-		250.00		-		-	-	250.00	-	250.00	277.50	277.50
			permits								-				-			-	-	-	-	-	-
			city building permit (waived by city)		nic						-				-		-	-	-	-	-	-	-
			swppp permit	1.00	job						-		650.00		-		-	-	650.00	-	650.00	721.50	721.50
			survey								-				-			-	-	-	-	-	-
			initial survey and baseline	1.00	job						-		2,760.00		-		-	-	2,760.00	-	2,760.00	3,063.60	3,063.60
			construction layout	1.00	job						-		5,500.00		-		-	-	5,500.00	-	5,500.00	6,105.00	6,105.00
			permanent survey markers	2.00	each	25.00					-		75.00		53.00		-	-	150.00	-	203.00	112.67	225.33
			as-builts	1.00	job						-		4,000.00		-		-	-	4,000.00	-	4,000.00	4,440.00	4,440.00
			video / photographic records								-				-		-	-	-	-	-	-	-
			preconstruction video	1.00	lsum						-		850.00		-		-	-	850.00	-	850.00	943.50	943.50
			aerials	5.00	each						-		175.00		-		-	-	875.00	-	875.00	194.25	971.25
			scheduling								-				-		-	-	-	-	-	-	-
			initial schedule	1.00	each						-		750.00		-		-	-	750.00	-	750.00	832.50	832.50
			monthly update	9.00	each						-		150.00		-		-	-	1,350.00	-	1,350.00	166.50	1,498.50
			project closeout								-				-			-	-	-	-	-	-
			punchlist	1.00	lsum		120.000	MH/U			3,000.00	3,000.00			-	120.000	4,035.00	3,180.00	-	-	7,215.00	8,008.65	8,008.65
	SUBTOTAL AMOUNT														212.00	2358.500	148,706.56	54,780.80	35,893.98	2,491.00	242,084.34	268,713.61	268,713.61
											-				-		-	-	-	-	-	-	-
	G-2		TRENCH SAFETY ACT	1.00	LSUM						-				-		-	-	-	-	-	-	-
			trench safety measures per/cy	4000.00	cuyd						-	0.25			-		-	1,060.00	-	-	1,060.00	0.29	1,176.60
	SUBTOTAL AMOUNT														-		-	1,060.00	-	-	1,060.00	1,176.60	1,176.60
											-				-			-	-	-	-	-	-
	G-3		DUST CONTROL	1.00	LSUM						-				-		-	-	-	-	-	-	-
			hydrant meter, city rental fee	1.00	job						-			350.00	-		-	-	-	371.00	371.00	411.81	411.81
			water-usage	8.00	mnth						-			150.00	-		-	-	-	1,272.00	1,272.00	176.49	1,411.92
			water-truck, operated during excavation and backfill	2.00	mnth		86.000	MH/U			2,150.00	7,200.00			-	172.000	5,783.50	15,264.00	-	-	21,047.50	11,681.36	23,362.73
	SUBTOTAL AMOUNT														-	172.000	5,783.50	15,264.00	-	1,643.00	22,690.50	25,186.46	25,186.46
											-				-			-	-	-	-	-	-
	G-4		HISTORICAL & ARCHEOLOGICAL CONTROL	1.00	LSUM						-				-		-	-	-	-	-	-	-
			historical tranning sessions (held quarterly)	1.00	job						-		100.00		-		-	-	100.00	-	100.00	111.00	111.00
			archaeology permit fee (waived by city)		nic						-				-		-	-	-	-	-	-	-
	SUBTOTAL AMOUNT														-		-	-	100.00	-	100.00	111.00	111.00

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
											-				-			-	-	-	-	-	-
			G-5 PERFORMANCE BOND	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			contractor performance bond	1.00	job						-				-		-	-	-	-	-	-	-
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**
											-				-			-	-	-	-	-	-
			G-6 PAYMENT BOND	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			contractor payment bond	1.00	job						-				-		-	-	-	-	-	-	-
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**
											-				-			-	-	-	-	-	-
			G-7 STAGING AREA	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			property rental								-				-		-	-	-	-	-	-	-
			monthly rent	9.00	mnth						-			500.00	-		-	-	-	4,770.00	4,770.00	588.30	5,294.70
			contractor trailer compound (palmer street)								-				-		-	-	-	-	-	-	-
			sgl-wide trailer	9.00	mnth						-		300.00		-		-	-	2,700.00	-	2,700.00	333.00	2,997.00
			delivery and set-up	1.00	job						-		400.00		-		-	-	400.00	-	400.00	444.00	444.00
			porch deck / ramp / railing	1.00	job	300.00	28.000	MH/U			700.00	150.00			318.00	28.000	941.50	159.00	-	-	1,418.50	1,574.54	1,574.54
			fence, rent	250.00	lnft						-		11.50		-		-	-	2,875.00	-	2,875.00	12.77	3,191.25
			dbl vehicle gate, (truck pull though layout)	2.00	each						-		250.00		-		-	-	500.00	-	500.00	277.50	555.00
			signs	1.00	job						-		150.00		-		-	-	150.00	-	150.00	166.50	166.50
			chemical toilets	10.00	mnth						-		95.00		-		-	-	950.00	-	950.00	105.45	1,054.50
			utility connection fees	1.00	job						-			400.00	-		-	-	-	424.00	424.00	470.64	470.64
			electric and light	1.00	job						-			4,500.00	-		-	-	-	4,770.00	4,770.00	5,294.70	5,294.70
			sewer	1.00	job						-			450.00	-		-	-	-	477.00	477.00	529.47	529.47
			potable water	1.00	job						-			350.00	-		-	-	-	371.00	371.00	411.81	411.81
			contractor equipment								-				-		-	-	-	-	-	-	-
			4 x 4 rt backhoe	10.00	mnth						-	3,850.00			-		-	40,810.00	-	-	40,810.00	4,529.91	45,299.10
			16' jon boat	1.00	lsum						-	4,500.00			-		-	4,770.00	-	-	4,770.00	5,294.70	5,294.70
			contractor office furniture and equipment								-				-		-	-	-	-	-	-	-
			office funiture	1.00	lsum						-			1,500.00	-		-	-	-	1,590.00	1,590.00	1,764.90	1,764.90
			office equipment, all-in-one printer	1.00	lsum						-			1,000.00	-		-	-	-	1,060.00	1,060.00	1,176.60	1,176.60
			computer	1.00	each						-			1,100.00	-		-	-	-	1,166.00	1,166.00	1,294.26	1,294.26
			temporary services, utility	10.00	mnth						-			75.00	-		-	-	-	795.00	795.00	88.25	882.45
			temporary services, cable	10.00	mnth						-			150.00	-		-	-	-	1,590.00	1,590.00	176.49	1,764.90
			temporary services, cell	10.00	mnth						-			250.00	-		-	-	-	2,650.00	2,650.00	294.15	2,941.50
			temporary services, telephone	10.00	mnth						-			150.00	-		-	-	-	1,590.00	1,590.00	176.49	1,764.90
			bottled water	10.00	mnth						-		64.50		-		-	-	645.00	-	645.00	71.60	715.95
			chemical toilets	20.00	mnth						-		95.00		-		-	-	1,900.00	-	1,900.00	105.45	2,109.00
			clean-up								-				-		-	-	-	-	-	-	-
			dumpster	10.00	mnth						-		240.00		-		-	-	2,400.00	-	2,400.00	266.40	2,664.00
			SUBTOTAL AMOUNT												**318.00**	**28.000**	**941.50**	**45,739.00**	**12,520.00**	**21,253.00**	**80,771.50**	**89,656.37**	**89,656.37**
											-				-		-	-	-	-	-	-	-
			G-8 ADVANCE UTILITY EXPLORATION	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			utility locates and painted markings	1.00	job	10.00					-				10.60		-	-	-	-	10.60	11.77	11.77
			pot-hole investigation (hand-dig)	1.00	job		12.000	MH/U			300.00				-	12.000	403.50	-	-	-	403.50	447.89	447.89
			subsurface investigation	1.00	job		24.000	MH/U			600.00	540.00			-	24.000	807.00	572.40	-	-	1,379.40	1,531.13	1,531.13
			SUBTOTAL AMOUNT												**10.60**	**36.000**	**1,210.50**	**572.40**	**-**	**-**	**1,793.50**	**1,990.79**	**1,990.79**
											-				-		-	-	-	-	-	-	-
			G-9 MAINTENANCE OF TRAFFIC	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			maintenance of trafic								-				-		-	-	-	-	-	-	-
			mot plan, stamped by engineer	1.00	lsum		8.000	MH/U		85.00	680.00		4,000.00		-	8.000	914.60	-	4,000.00	-	4,914.60	5,455.21	5,455.21
			mot maintenance	300.00	day		0.500	MH/U			12.50				-	150.000	5,043.75	-	-	-	5,043.75	18.66	5,598.56
			varible-message board (2-signs at 30 day)	60.00	day						-	35.00		120.00	-		-	2,226.00	-	7,632.00	9,858.00	182.37	10,942.38
			temporary plastic curb w/pins		nic						-				-		-	-	-	-	-	-	-
			barrel /drum rental (project limits)	20571.43	day						-		0.35		-		-	-	7,200.00	-	7,200.00	0.39	7,992.00
			advance warning signs (post installed)	21.00	each						-		45.00		-		-	-	945.00	-	945.00	49.95	1,048.95
			project advance warning sign rental	6300.00	day						-		0.55		-		-	-	3,465.00	-	3,465.00	0.61	3,846.15
			advance warning signs (index 621)	5.00	each						-		45.00		-		-	-	225.00	-	225.00	49.95	249.75
			high intensity lights 9work zone)	3000.00	day						-		0.70		-		-	-	2,100.00	-	2,100.00	0.78	2,331.00
			index 621 - work zone sign rental	1500.00	day						-		0.55		-		-	-	825.00	-	825.00	0.61	915.75
			barrel /drum rental @ 300' work zone (curb opt)	2571.43	day						-		0.35		-		-	-	900.00	-	900.00	0.39	999.00
			road-closed sign package								-				-		-	-	-	-	-	-	-
			radios	3.00	each						-	75.00			-		-	238.50	-	-	238.50	88.25	264.74
			flagger (1 each)		inc		8.000	MH/U			200.00				-		-	-	-	-	-	-	-
			flagger (2 each)	30.00	day		16.000	MH/U			400.00				-	480.000	16,140.00	-	-	-	16,140.00	597.18	17,915.40
			off-duty officer @ $55.00 p/hr *special*	10.00	day						-		440.00		-		-	-	4,400.00	-	4,400.00	488.40	4,884.00

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			traffic marking								-				-		-	-	-	-	-	-	-
			temporary traffic stripe	1250.00	lnft						-		2.00		-		-	-	2,500.00	-	2,500.00	2.22	2,775.00
			black-out parking spaces, west-side only	60.00	each						-		25.00		-		-	-	1,500.00	-	1,500.00	27.75	1,665.00
			temporary restripe parking spaces (54' each)	60.00	each						-		65.00		-		-	-	3,900.00	-	3,900.00	72.15	4,329.00
			rpm's	3.00	each						-		7.50		-		-	-	22.50	-	22.50	8.33	24.98
			marine signage								-				-			-	-	-	-	-	-
			no wake signs	1.00	each						-		250.00		-		-	-	250.00	-	250.00	277.50	277.50
			manatee warning signs	1.00	each						-		250.00		-		-	-	250.00	-	250.00	277.50	277.50
			protection of work	1.00	job	500.00					-				530.00		-	-	-	-	530.00	588.30	588.30
			mot removal								-				-			-	-	-	-	-	-
			pickup & load traffic control devices	2.00	day		16.000				400.00	720.00			-	32.000	1,076.00	1,526.40	-	-	2,602.40	1,444.33	2,888.66
			damage and replacement @ 5%	1.00	job						-		2,000.00		-		-	-	2,000.00	-	2,000.00	2,220.00	2,220.00
			misc restoration	1.00	job	1,000.00	24.000				600.00	360.00			1,060.00	24.000	807.00	381.60	-	-	2,248.60	2,495.95	2,495.95
			SUBTOTAL AMOUNT												**1,590.00**	**694.000**	**23,981.35**	**4,372.50**	**34,482.50**	**7,632.00**	**72,058.35**	**79,984.77**	**79,984.77**
											-				-		-	-	-	-	-	-	-
			G-10 BONDS AND INSURANCE	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			payment and performance bond (125% of contract)	1.00	?						-				-		-	-	-	-	-	-	-
			general liability insurance	1.00	job						-				-		-	-	-	-	-	-	-
			builders risk insurance	1.00	job						-				-		-	-	-	-	-	-	-
			longshoreman insurance = 100% of w.c. @ 38.9%	1.00	job						-			226,222.74	-		-	-	-	239,796.10	239,796.10	266,173.68	266,173.68
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**-**	**239,796.10**	**239,796.10**	**266,173.68**	**266,173.68**
											-				-			-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
2.00			**DEMOLITION**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			D-1 GENERAL DEMOLITION	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			dingwall demolition								-				-		-	-	-	-	-	-	-
			concrete demolition	1078.00	lnft		300.000	U/Shft	EXC-1		0.66	1.84			-	28.747	952.35	2,103.67	-	-	3,056.02	3.15	3,392.19
			truck rental	56.00	hrs						-		55.00		-		-	-	3,080.00	-	3,080.00	61.05	3,418.80
			concrete disposal = 107 x 1.5 = 160 /12 =14 loads	14.00	loads						-		150.00		-		-	-	2,100.00	-	2,100.00	166.50	2,331.00
			saw cut conc dingwall for repair	8.00	lnft	0.20	0.028	MH/U			0.69	0.65			1.70	0.221	7.44	5.51	-	-	14.65	2.03	16.26
			existing conc dingwall repair *allow*	1.00	cuyd	85.00	8.000	MH/U			200.00	5.00			90.10	8.000	269.00	5.30	-	-	364.40	404.48	404.48
			excavation and soil removal								-				-		-	-	-	-	-	-	-
			strip topsoil, shell-fill dirt	598.00	cuyd		380.000	U/Shft	EXC-1		0.52	1.45			-	12.589	417.08	921.29	-	-	1,338.37	2.48	1,485.59
			load and dispose off-site (palmer st.)	46.51	loads						-		65.00		-		-	-	3,023.22	-	3,023.22	72.15	3,355.78
			remove ext pipe handrail	10.00	lnft		0.250	MH/U			6.25				-	2.500	84.06	-	-	-	84.06	9.33	93.31
			concrete demolition	190.00	sqft		380.000	U/Shft	EXC-1		0.52	1.45			-	4.000	132.52	292.72	-	-	425.24	2.48	472.01
			truck rental	4.00	hrs						-		65.00		-		-	-	260.00	-	260.00	72.15	288.60
			concrete disposal = 7 x 1.5 = 10.5 /16 =1 loads	2.00	loads						-		150.00		-		-	-	300.00	-	300.00	166.50	333.00
			old light pole foundations	8.00	each		0.600	MH/U			15.00	27.00			-	4.800	161.40	228.96	-	-	390.36	54.16	433.30
			relocate water meter	2.00	each		2.500	CH/U	WTR-1		279.70	246.65			-	25.000	752.39	522.90	-	-	1,275.29	707.79	1,415.57
			misc debris disposal, dumpster	1.00	load						-		450.00		-		-	-	450.00	-	450.00	499.50	499.50
			remove concrete mass	26.00	cuyd		0.638	MH/U			15.96	45.00	16.00		-	16.596	558.03	1,240.20	416.00	-	2,214.23	94.53	2,457.80
			relocate submerged pavers	1.00	job		65.000	MH/U			1,625.00	1,408.33			-	65.000	2,185.63	1,492.83	-	-	3,678.46	4,083.09	4,083.09
			remove submerged poles/pipes	1.00	job		4.000	MH/U			100.00	86.67	470.00		-	4.000	134.50	91.87	470.00	-	696.37	772.97	772.97
			remove vegetation	1.00	lsum		8.000	MH/U			200.00	360.00	235.00		-	8.000	269.00	381.60	235.00	-	885.60	983.02	983.02
			landscape disposal	5.00	loads						-		450.00		-		-	-	2,250.00	-	2,250.00	499.50	2,497.50
			replace damaged parking meter *allowance*	1.00	nic						-				-		-	-	-	-	-	-	-
			asphalt paving: saw cut, removal, milling								-				-		-	-	-	-	-	-	-
			saw cut asphalt (speedy)	1078.00	lnft						-		1.90		-		-	-	2,048.20	-	2,048.20	2.11	2,273.50
			remove asphalt and base	360.00	sqyd		550.000	U/Shft	BASE		1.16	2.72			-	15.709	563.43	1,037.95	-	-	1,601.38	4.94	1,777.54
			mill asphalt	360.00	sqyd		0.080	MH/U			2.00	6.80			-	28.800	968.40	2,594.88	-	-	3,563.28	10.99	3,955.24
			load and dispose off-site (dump)	55.00	ton		0.015	MH/U			0.38	0.68			-	0.825	27.74	39.35	-	-	67.09	1.35	74.47
			haul to dump	4.00	load						-		125.00	6.25	-		-	-	500.00	26.50	526.50	146.10	584.42
			remove sewer pipe 4"								-				-		-	-	-	-	-	-	-
			remove sewer pipe	64.00	lnft		200.000	U/Shft	WTR-1		4.48	3.95			-	12.800	385.23	267.73	-	-	652.96	11.32	724.79
			install temp sewer materials	1.00	lsum	200.00					-				212.00		-	-	-	-	212.00	235.32	235.32
			install temp sewer labor buried	80.00	lnft		150.000	U/Shft	WTR-1		5.97	5.26			-	21.333	642.05	446.22	-	-	1,088.27	15.10	1,207.98
			install temp sewer labor hang	140.00	lnft		0.250	MH/U			6.25				-	35.000	1,176.88	-	-	-	1,176.88	9.33	1,306.33
			remove water pipe 1 1/2"								-				-		-	-	-	-	-	-	-
			remove sewer pipe	64.00	lnft		150.000	U/Shft	WTR-1		5.97	5.26			-		513.64	356.97	-	-	870.61	15.10	966.38
			install temp sewer materials	1.00	lsum	200.00					-				212.00		-	-	-	-	212.00	235.32	235.32
			install temp sewer labor buried	80.00	lnft		150.000	U/Shft	WTR-1		5.97	5.26			-		642.05	446.22	-	-	1,088.27	15.10	1,207.98
			install temp sewer labor hang	140.00	lnft		0.250	MH/U			6.25				-	35.000	1,176.88	-	-	-	1,176.88	9.33	1,306.33
			tree removal and storage								-				-		-	-	-	-	-	-	-
			hand trim & bundle palms	19.00	each						-	-	95.00		-		-	-	1,805.00	-	1,805.00	105.45	2,003.55

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			remove palm	19.00	each		5.500	MH/U			137.50	100.83			-	104.500	3,513.81	2,030.78	-	-	5,544.60	323.92	6,154.50
			load and transport to nursery	19.00	each		0.500	MH/U			12.50		65.00		-	9.500	319.44	-	1,235.00	-	1,554.44	90.81	1,725.43
			set up nursery	1.00	job						-		750.00		-		-	-	750.00	-	750.00	832.50	832.50
			plant and guy	19.00	each	25.00	2.600	MH/U			65.00	29.25			503.50	49.400	1,661.08	589.10	-	-	2,753.67	160.87	3,056.57
			temporary walkway (santa-maria restaurant)								-				-		-	-	-	-	-	-	-
			remove wood decking	261.02	sqft		0.045	MH/U			1.13				-	11.746	394.96	-	-	-	394.96	1.68	438.40
			remove wood pile conc encased	4.00	each		1.750	MH/U			43.75	113.75			-	7.000	235.38	482.30	-	-	717.68	199.15	796.62
			temp wood rail 2x6	1332.00	lnft	0.75					-				1,058.94		-	-	-	-	1,058.94	0.88	1,175.42
			temp wood rail post 4x4	166.50	lnft	2.00					-				352.98		-	-	-	-	352.98	2.35	391.81
			temp wood rail 1/2"x8" thru bolt, nut and 2 washer	444.00	each	3.00					-				1,411.92		-	-	-	-	1,411.92	3.53	1,567.23
			temp wood decking 2x6 screwed	1769.38	lnft	0.75					-				1,406.66		-	-	-	-	1,406.66	0.88	1,561.39
			deck screws	7.04	each	40.00					-				298.50		-	-	-	-	298.50	47.06	331.33
			temp wood stringer 2x10	1100.00	lnft	1.00					-				1,166.00		-	-	-	-	1,166.00	1.18	1,294.26
			stringer splice 1/2"x6" thru bolt, nut and 2 washer	72.00	each	3.00					-				228.96		-	-	-	-	228.96	3.53	254.15
			temp wood pile cap 3x8	176.00	lnft	3.00					-				559.68		-	-	-	-	559.68	3.53	621.24
			temp pile cap 1/2"x16" threaded rod, 2 nut and 2 washer	44.00	each	5.00					-				233.20		-	-	-	-	233.20	5.88	258.85
			temp wood pile x-brace 2x8	286.00	lnft	0.95					-				288.00		-	-	-	-	288.00	1.12	319.68
			x-brace 1/2"x18" threaded rod, 2 nut and 2 washer	44.00	each	5.00					-				233.20		-	-	-	-	233.20	5.88	258.85
			piling								-				-			-	-	-	-	-	-
			crane	3.00	day		8.000	MH/U		40.00	320.00	441.86			-	24.000	1,291.20	1,405.12	-	-	2,696.32	997.64	2,992.91
			hammer	3.00	day						-	200.00			-		-	636.00	-	-	636.00	235.32	705.96
			wood piles 20' x 22 ea	440.00	lnft	10.75	0.245	MH/U			6.13				5,013.80	107.800	3,624.78	-	-	-	8,638.58	21.79	9,588.82
			wood piles cut-oof / notch top	22.00	each		1.200	MH/U			30.00				-	26.400	887.70	-	-	-	887.70	44.79	985.35
			static test	1.00	each						-		2,500.00		-		-	-	2,500.00	-	2,500.00	2,775.00	2,775.00
			dock construction labor								-				-		-	-	-	-	-	-	-
			small tools	1.00	job						-	650.00			-		-	689.00	-	-	689.00	764.79	764.79
			sundry & consumable	1.00	lsum	300.00					-				318.00		-	-	-	-	318.00	352.98	352.98
			2 carpenters and 1 helpers, in-house	1.00	lsum		350.000				8,750.00				-	350.000	11,768.75	-	-	-	11,768.75	13,063.31	13,063.31
			temp walk on grade								-				-			-	-	-	-	-	-
			2x4 framing	147.00	lnft	1.00	0.064	MH/U			1.60				155.82	9.408	316.34	-	-	-	472.16	3.57	524.10
			guardrail 4x4 post 2x4 rail	50.00	lnft	2.50	0.106	MH/U			2.66				132.50	5.319	178.86	-	-	-	311.36	6.91	345.61
			8" 57 stone	2.80	cuyd	18.50	150.000	U/Shft	BCKF-S		5.89	7.22	10.00		54.90	0.896	22.17	21.42	27.99	-	126.48	50.15	140.39
			plywood walk 3/4"	112.81	sqft	1.20	0.043	MH/U			1.06				143.49	4.800	161.41	-	-	-	304.91	3.00	338.45
			relocate restaurant sign and light to temp walk	1.00	lsum	25.00	3.000	MH/U			75.00		300.00		26.50	3.000	100.88	-	300.00	-	427.38	474.39	474.39
			reinstall restaurant sign and light permanent walk	1.00	lsum	75.00	4.000	MH/U			100.00		300.00		79.50	4.000	134.50	-	300.00	-	514.00	570.54	570.54
			SUBTOTAL AMOUNT												**1,019.30**	**492.321**	**17,514.01**	**15,096.06**	**18,922.42**	**26.50**	**52,578.29**	**101,253.73**	**101,253.73**
											-				-			-	-	-	-	-	-
2-UPI			**UNIT PRICE ALTERNATES**		**NIC**						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
			D-2 DING WALL DEMOLITION	**1.00**	**lnft**						-				-		-	-	-	-	-	-	-
			concrete demolition and removal	1.00	lnft						-		13.00		-		-	-	13.00	-	13.00	14.43	14.43
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**13.00**	**-**	**13.00**	**14.43**	**14.43**
											-				-			-	-	-	-	-	-
			D-3 EXCAVATION AND REMOVAL OF SOIL	**1.00**	**cuyd**						-				-		-	-	-	-	-	-	-
			excavation and disposal of soil	1.00	cuyd						-		42.00		-		-	-	42.00	-	42.00	46.62	46.62
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**42.00**	**-**	**42.00**	**46.62**	**46.62**
											-				-			-	-	-	-	-	-
			D-4 REMOVE EXIST ASPHALT	**1.00**	**sqyd**						-				-		-	-	-	-	-	-	-
			removal of asphalt	1.00	sqyd						-		32.00		-		-	-	32.00	-	32.00	35.52	35.52
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**32.00**	**-**	**32.00**	**35.52**	**35.52**
											-				-			-	-	-	-	-	-
			D-5 REMOVAL OF SEWER PIPE	**1.00**	**lnft**						-				-		-	-	-	-	-	-	-
			remove sewer pipe	1.00	lnft						-		70.00		-		-	-	70.00	-	70.00	77.70	77.70
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**70.00**	**-**	**70.00**	**77.70**	**77.70**
											-				-			-	-	-	-	-	-
			D-6 REMOVAL OF WATER PIPE	**1.00**	**lnft**						-				-		-	-	-	-	-	-	-
			remove water pipe	1.00	lnft						-		50.00		-		-	-	50.00	-	50.00	55.50	55.50
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**50.00**	**-**	**50.00**	**55.50**	**55.50**
											-				-			-	-	-	-	-	-
			D-7 TREE REMOVAL AND STORAGE	**1.00**	**each**						-				-		-	-	-	-	-	-	-
			tree removal and storage	1.00	each						-		1,000.00		-		-	-	1,000.00	-	1,000.00	1,110.00	1,110.00
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**1,000.00**	**-**	**1,000.00**	**1,110.00**	**1,110.00**
											-				-			-	-	-	-	-	-
			D-8 TEMPORARY WALKWAY TO SANTA MARIA	**1.00**	**lnft**						-				-		-	-	-	-	-	-	-
			install temporary walkway & utilities	1.00	lnft						-		450.00		-		-	-	450.00	-	450.00	499.50	499.50

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**-**	**-**	**-**	**-**	**-**
											-				-			-	-	-	-	-	-
			D-9 SIGNAGE REMOVAL AND STORAGE	**1.00**	**each**						-				-		-	-	-	-	-	-	-
			remove signs (city)	1.00	each						-		75.00		-		-	-	75.00	-	75.00	83.25	83.25
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**75.00**	**-**	**75.00**	**83.25**	**83.25**
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
3.00			**ENVIRONMENTAL CONTROLS**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			CE-1 ENVIRONMENTAL CONTROLS	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			silt fence								-				-			-	-	-	-	-	-
			dbl silt fence material	2400.00	lnft	0.96					-				2,442.24		-	-	-	-	2,442.24	1.13	2,710.89
			silt fence installation	2400.00	lnft		0.020	MH/U			0.50	0.44			-	48.000	1,614.00	1,113.00	-	-	2,727.00	1.26	3,026.97
			silt fence maintenance	240.00	lnft	0.96					-				244.22		-	-	-	-	244.22	1.13	271.09
			silt fence removal	2400.00	lnft		0.010	MH/U			0.25				-	24.000	807.00	-	-	-	807.00	0.37	895.77
			disposal	1.00	job						-		75.00		-		-	-	75.00	-	75.00	83.25	83.25
			turbidity barrier								-				-			-	-	-	-	-	-
			floating turbidity barrier material	1250.00	lnft	9.85					-				13,051.25		-	-	-	-	13,051.25	11.59	14,486.89
			cables and anchors	1.00	job	150.00	4.000	MH/U			100.00				159.00	4.000	134.50	-	-	-	293.50	325.79	325.79
			floating turbidity barrier installation	1250.00	lnft		0.043				1.06				-	53.191	1,788.56	-	-	-	1,788.56	1.59	1,985.31
			floating turbidity barrier maintenance	125.00	lnft	12.50	0.085				2.13				1,656.25	10.638	357.71	-	-	-	2,013.96	17.88	2,235.50
			floating turbidity barrier removal	1250.00	lnft		0.021				0.53				-	26.596	894.28	-	-	-	894.28	0.79	992.65
			disposal	1.00	job						-		150.00		-		-	-	150.00	-	150.00	166.50	166.50
			turbidity monitoring								-				-		-	-	-	-	-	-	-
			tubdidity meter	1.00	each						-	950.00			-		-	1,007.00	-	-	1,007.00	1,117.77	1,117.77
			plastic ware	1.00	job						-	150.00			-		-	159.00	-	-	159.00	176.49	176.49
			erosion control measures								-				-		-	-	-	-	-	-	-
			inlet protection device	6.00	each	55.00	0.500				12.50				349.80	3.000	100.88	-	-	-	450.68	83.37	500.25
			sand bags	50.00	each	6.50	0.150				3.75				344.50	7.500	252.19	-	-	-	596.69	13.25	662.32
			visqueen	4.00	roll	45.00					-				190.80		-	-	-	-	190.80	52.95	211.79
			spill prevention								-				-		-	-	-	-	-	-	-
			spill prevention measures	1.00	job	600.00					-			500.00	636.00		-	-	-	530.00	1,166.00	1,294.26	1,294.26
			oyster bed relocation labor and equipment	1.00	lsum						-	-			-		-	-	-	-	-	-	-
			relocate oyster bed	1.00	job		220.000	MH/U			5,500.00				-	220.000	7,397.50	-	-	-	7,397.50	8,211.23	8,211.23
			SUBTOTAL AMOUNT												**19,074.06**	**396.926**	**13,346.62**	**2,279.00**	**225.00**	**530.00**	**35,454.69**	**39,354.70**	**39,354.70**
											-				-		-	-	-	-	-	-	-
3-UPI			**UNIT PRICE ALTERNATES**		**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			CE-2 DBL SILT FENCE	**1.00**	**LNFT**						-		5.50		-		-	-	5.50	-	5.50	6.11	6.11
			CE-3 TURBIDITY CONTROL	**1.00**	**LNFT**						-		25.00		-		-	-	25.00	-	25.00	27.75	27.75
			CE-5 RELOCATE OYSTER BED	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			oyster bed relocation labor and equipment	1.00	lsum		200.000	MH/U			5,000.00	2,600.00			-	200.000	6,725.00	2,756.00	-	-	9,481.00	10,523.91	10,523.91
			SUBTOTAL AMOUNT												**-**	**200.000**	**6,725.00**	**2,756.00**	**-**	**-**	**9,481.00**	**10,523.91**	**10,523.91**
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
4.00			**ROADWAY AND CONCRETE PAVING ITEMS**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			P-1 ROADWAY PAVING ITEMS	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			type "f" curb and gutter								-				-		-	-	-	-	-	-	-
			excavate and grade for curb	44.44	cuyd		0.023				0.57	1.26			-	1.016	34.16	59.23	-	-	93.38	2.33	103.66
			load and dispose off-site	55.56	cuyd								1.81		-		-	-	100.31	-	100.31	2.00	111.34
			subgrade	2400.00	sqft		0.043	MH/U			1.06				-	102.128	3,434.04	-	-	-	3,434.04	1.59	3,811.79
			concrete		nic	90.00					-				-		-	-	-	-	-	-	-
			machine placement only		nic						-		2.50		-		-	-	-	-	-	-	-
			hand-form at transition	94.00	lnft	5.87	0.128	MH/U			3.20	0.20	1.50		584.55	12.032	404.58	19.93	141.00	-	1,150.06	13.58	1,276.57
			drill and epoxt rebar	4.00	each	1.50	0.085	MH/U			2.13				6.36	0.340	11.45	-	-	-	17.81	4.94	19.77
			sawcut curb	1.00	job	25.00	8.000	MH/U			200.00	85.00			26.50	8.000	269.00	90.10	-	-	385.60	428.02	428.02
			subcontractor price *** $11.36	1200.00	lnft						-		11.36		-		-	-	13,632.00	-	13,632.00	12.61	15,131.52
			asphalt paving								-				-		-	-	-	-	-	-	-
			paving sub mobilization	1.00	job						-		2,500.00		-		-	-	2,500.00	-	2,500.00	2,775.00	2,775.00
			12' compacted subgrade	360.00	sqyd		0.032	MH/U			0.80	1.76			-	11.520	387.36	671.62	-	-	1,058.98	3.27	1,175.46
			aggregate base	160.00	ton						-		26.50		-		-	-	4,240.00	-	4,240.00	29.42	4,706.40
			08' compacted aggregate base	360.00	sqyd		500.000	U/Shft	BASE		1.28	2.99			-	17.280	619.78	1,141.75	-	-	1,761.52	5.43	1,955.29
			asphalt mix + overpave qnty	37.80	ton	72.50					-		14.44		2,904.93		-	-	546.00	-	3,450.93	101.34	3,830.53
			1 1/2" acsc	360.00	sqyd		0.111	MH/U			2.78	9.72			-	40.000	1,345.00	3,710.00	-	-	5,055.00	15.59	5,611.05
			pavement markings								-				-		-	-	-	-	-	-	-
			centerline	1200.00	lnft						-		2.00		-		-	-	2,400.00	-	2,400.00	2.22	2,664.00

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			crosswalk 1	1.00	each						-		350.00		-		-	-	350.00	-	350.00	388.50	388.50
			crosswalk 1	1.00	each						-		450.00		-		-	-	450.00	-	450.00	499.50	499.50
			parking striping	120.00	each						-		25.00		-		-	-	3,000.00	-	3,000.00	27.75	3,330.00
			rpm	3.00	each						-		6.50		-		-	-	19.50	-	19.50	7.22	21.65
			concrete sidewalk								-				-		-	-	-	-	-	-	-
			12' compacted subgrade	98.00	sqyd		0.032	MH/U			0.80	1.76			-	3.136	105.45	182.83	-	-	288.28	3.27	319.99
			4" concrete sidewalk @ ramp, no form	5.20	cuyd	115.00	1.000	MH/U			25.00				633.88	5.200	174.85	-	-	-	808.73	172.63	897.69
			4"concrete sidewalk formed	5.70	cuyd	115.00	1.500	MH/U			37.50				694.83	8.550	287.49	-	-	-	982.32	191.29	1,090.38
			sidewalk forming	23.00	sqft	1.00	0.074	MH/U			1.86				24.38	1.713	57.59	-	-	-	81.97	3.96	90.99
			concrete sidewalk finish	98.00	sqyd		0.153	MH/U			3.83				-	15.013	504.80	-	-	-	504.80	5.72	560.33
			6"x2" avg concrete retaining wall @ ramp	6.00	cuyd	115.00	3.000	MH/U			75.00				731.40	18.000	605.25	-	-	-	1,336.65	247.28	1,483.68
			retaining wall forming	652.00	sqft	1.00	0.168	MH/U			4.20				691.12	109.536	3,683.15	-	-	-	4,374.27	7.45	4,855.44
			ada plastic composite mats	72.00	sqft		0.085	MH/U			2.13		15.50		-	6.128	206.04	-	1,116.00	-	1,322.04	20.38	1,467.47
			SUBTOTAL AMOUNT												**6,297.95**	**359.591**	**12,129.99**	**5,875.45**	**28,494.81**	**-**	**52,798.20**	**58,606.00**	**58,606.00**
											-				-			-	-	-	-	-	-
4-UPI	**UNIT PRICE ALTERNATES**				**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
	P-2		**CONCRETE CURB**	**1.00**	**LNFT**						-		25.00		-		-	-	25.00	-	25.00	27.75	27.75
	P-3		**CONCRETE WALKWAYS AND HANDRAIL**	**1.00**	**SQFT**						-		25.00		-		-	-	25.00	-	25.00	27.75	27.75
	P-4		**ASPHALT PAVING**	**1.00**	**LNFT**						-		30.00		-		-	-	30.00	-	30.00	33.30	33.30
											-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
5.00	**STRUCTURAL ITEMS**			**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
	S-1		**CONCRETE PREAST PANEL SEAWALL**	1.00	LSUM						-				-		-	-	-	-	-	-	-
			concrete seawall panels @ 4.2 tons each								-				-		-	-	-	-	-	-	-
			dewatering								-				-		-	-	-	-	-	-	-
			dewatering pumps	60.00	day						-	45.00	96.00		-		-	2,862.00	5,760.00	-	8,622.00	159.51	9,570.42
			hdpe discharge pipe	100.00	lnft	10.00					-				1,060.00		-	-	-	-	1,060.00	11.77	1,176.60
			back fill								-				-			-	-	-	-	-	-
			back fill between seawalls, shell	3364.20	cuyd		150.000	U/Shft	BACKFIL4		10.35	12.84	11.25		-	1583.153	46,813.56	45,804.89	37,847.25	-	130,465.69	43.05	144,816.92
			back fill over cantlever slab, shell	30.80	cuyd		150.000	U/Shft	BACKFIL4		10.35	12.84	11.25		-	14.494	428.59	419.35	346.50	-	1,194.44	43.05	1,325.83
			aggregate backfill behind wall	270.00	ton	28.50	75.000	U/Shft	BCKF-S		11.78	14.44			8,156.70	172.800	4,277.54	4,131.58	-	-	16,565.83	68.10	18,388.07
			filter fabric behind wall	1286.00	sqyd	1.60	0.036	MH/U			0.90	0.15			2,181.06	46.515	1,564.06	204.47	-	-	3,949.59	3.41	4,384.05
			geogrid	2884.44	sqyd	3.69	0.043	MH/U			1.08				11,282.22	124.031	4,170.55	-	-	-	15,452.77	5.95	17,152.57
			seawall panels								-				-			-	-	-	-	-	-
			seawall subcontractor mobilization	1.00	job						-		25,000.00		-		-	-	25,000.00	-	25,000.00	27,750.00	27,750.00
			high-tide and severe weather - contingency	15.00	day		52.767	MH/U		28.00	738.73	964.79			-	791.500	14,903.94	15,340.21	-	-	30,244.15	2,238.07	33,571.01
			crane mobilization and setup	2.00	each						-		6,500.00		-		-	-	13,000.00	-	13,000.00	7,215.00	14,430.00
			crane mat, rent	1.00	job						-		1,500.00		-		-	-	1,500.00	-	1,500.00	1,665.00	1,665.00
			custom spreader bar and straps (panels)	1.00	job						-		3,500.00		-		-	-	3,500.00	-	3,500.00	3,885.00	3,885.00
			85 ton crawler crane w/ operator & fuel	6.00	mnth		172.000	MH/U		40.00	6,880.00	8,250.00	5,400.00		-	1032.000	55,521.60	52,470.00	32,400.00	-	140,391.60	25,972.45	155,834.68
			950 loader w/ operator & fuel		*nic*		172.000	MH/U			4,300.00	8,850.00	3,600.00		-		-	-	-	-	-	-	-
			pile vibro-hammer and leads	5.00	mnth						-		6,000.00		-		-	-	30,000.00	-	30,000.00	6,660.00	33,300.00
			pile hammer and leads, concrete pile	1.00	mnth						-		9,000.00		-		-	-	9,000.00	-	9,000.00	9,990.00	9,990.00
			1-ea 30' template w-8 guide beam, purchase	1.00	lsum	5,500.00					-				5,830.00		-	-	-	-	5,830.00	6,471.30	6,471.30
			3-ea template w-12 piles, purchase		above						-				-		-	-	-	-	-	-	-
			weld/cut templete blocks	2.00	each		2.500	MH/U			62.50				-	5.000	168.13	-	-	-	168.13	93.31	186.62
			drive template piles and set guide beam	44.00	each		4.500	MH/U			112.50				-	198.000	6,657.75	-	-	-	6,657.75	167.96	7,390.10
			rigging and sundry	1.00	lsum						-		1,200.00		-		-	-	1,200.00	-	1,200.00	1,332.00	1,332.00
			jetting rig, custom fabricated	1.00	job						-	6,000.00			-		-	6,360.00	-	-	6,360.00	7,059.60	7,059.60
			jet pump, new $17,000 used, $10,000, pump unit $3,800	150.00	day						-	115.00	180.00		-		-	18,285.00	27,000.00	-	45,285.00	335.11	50,266.35
			hoses and fittings	1.00	job						-	750.00			-		-	795.00	-	-	795.00	882.45	882.45
			floating screen assy	1.00	job						-	850.00			-		-	901.00	-	-	901.00	1,000.11	1,000.11
			unload and stage panels (5 per/truck)	93.60	loads		4.500	MH/U		29.42	132.39				-	421.200	16,666.84	-	-	-	16,666.84	197.65	18,500.19
			rr tie - cribbing	1.00	job	500.00	1.000	MH/U			25.00				530.00	1.000	33.63	-	-	-	563.63	625.62	625.62
			conc panel 25 ft 2.5' wide, 62.5 sf	433.00	each	**1,416.00**	5.000	MH/U		29.42	147.10				649,915.68	2165.000	85,668.83	-	-	-	735,584.51	1,885.68	816,498.81
			conc panel 30 ft 2.5' wide, 75 sqft	33.00	each	**1,700.00**	7.500	MH/U		29.42	220.65				59,466.00	247.500	9,793.55	-	-	-	69,259.55	2,329.64	76,878.10
			conc corner panel 25 ft	1.00	each	**3,450.00**	9.500	MH/U		29.42	279.49				3,657.00	9.500	375.91	-	-	-	4,032.91	4,476.53	4,476.53
			conc corner panel 30 ft	1.00	each	**4,140.00**	9.500	MH/U		29.42	279.49				4,388.40	9.500	375.91	-	-	-	4,764.31	5,288.39	5,288.39
			soil anchors								-				-			-	-	-	-	-	-
			manta-ray mr-1anchor	104.00	each						-				-		-	-	-	-	-	-	-
			tie back rods 33 ft long 1"dia	104.00	each						-				-		-	-	-	-	-	-	-
			tie back rods @ corner 1"dia 3 ea	3.00	each						-				-		-	-	-	-	-	-	-
			turn buckles ss	104.00	each						-				-		-	-	-	-	-	-	-
			plate 1x8x8	110.00	each						-				-		-	-	-	-	-	-	-

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			washer	110.00	each						-				-		-	-	-	-	-	-	-
			nut	110.00	each						-				-		-	-	-	-	-	-	-
			bitumastic wrap	758.00	lnft										-	16.128	-	-	-	-	-	-	-
			steel test rig	1.00	each						-				-		-	-	-	-	-	-	-
			lock load	104.00	each						-				-		-	-	-	-	-	-	-
			preformance test	11.00	each						-				-		-	-	-	-	-	-	-
			prepare lock load and test report	1.00	lsum						-				-		-	-	-	-	-	-	-
			soil anchor subcontractor price								-				-		-	-	-	-	-	-	-
			subcontractor mobilization	1.00	lsum						-		25,000.00		-		-	-	25,000.00	-	25,000.00	27,750.00	27,750.00
			soil anchors (manta ray) complete w/testing	1.00	lsum						-		128,835.00		-		-	-	128,835.00	-	128,835.00	143,006.85	143,006.85
			prominade concrete								-				-		-	-	-	-	-	-	-
			prominade glass reinforced conc	127.05	cuyd	115.00					-				15,487.40		-	-	-	-	15,487.40	135.31	17,191.01
			finish	1155.00	sqyd		0.119	MH/U			2.98				-	137.617	4,627.37	-	-	-	4,627.37	4.45	5,136.38
			coquina aggregate band	102.00	sqyd						-		36.00		-		-	-	3,672.00	-	3,672.00	39.96	4,075.92
			prominade drain inlet 12"x12" cast iron grate	39.00	each	260.00	2.500	MH/U			62.50				10,748.40	97.500	3,278.44	-	-	-	14,026.84	399.23	15,569.79
			prominade drain pipe 6" perf pvc	912.00	lnft	3.00	0.250	MH/U			6.25	2.00			2,900.16	228.000	7,666.50	1,933.44	-	-	12,500.10	15.21	13,875.11
			aggregate backfill	202.67	cuyd	18.50	75.000	U/Shft	BCKF-S		11.78	14.44	10.00		3,974.29	129.707	3,210.53	3,101.24	2,026.67	-	12,312.72	67.44	13,667.12
			filter fabric	1013.33	sqyd	0.55	0.028	MH/U			0.69				590.77	28.028	942.45	-	-	-	1,533.23	1.68	1,701.88
			permanent walkway to santa maria restaurant								-				-		-	-	-	-	-	-	-
			wood rail cap 2x8	60.00	lnft	0.95					-				60.42		-	-	-	-	60.42	1.12	67.07
			wood rail 2x6	240.00	lnft	0.75					-				190.80		-	-	-	-	190.80	0.88	211.79
			wood rail post 4x4	90.00	lnft	1.75					-				166.95		-	-	-	-	166.95	2.06	185.31
			wood rail 1/2"x8" carrage bolt, nut and washer ss	80.00	each	8.50					-				720.80		-	-	-	-	720.80	10.00	800.09
			wood rail post 1/2"x16" threaded rod, 2 nut + 2 washer ss	40.00	each	18.50					-				784.40		-	-	-	-	784.40	21.77	870.68
			wood decking 2x6 screwed ss	403.00	lnft	0.70					-				299.03		-	-	-	-	299.03	0.82	331.92
			deck screws ss, 648 ea	5.00	bx	16.50					-				87.45		-	-	-	-	87.45	19.41	97.07
			wood stringer 3x12	162.00	lnft	3.30					-				566.68		-	-	-	-	566.68	3.88	629.01
			stringer splice 3/4"x6" thru bolt, nut and 2 washer ss	18.00	each	12.50					-				238.50		-	-	-	-	238.50	14.71	264.74
			wood pile cap 3x12	80.00	lnft	3.30					-				279.84		-	-	-	-	279.84	3.88	310.62
			pile cap 3/4"x16" threaded rod, 2 nut and 2 washer ss	20.00	each	26.50					-				561.80		-	-	-	-	561.80	31.18	623.60
			wood pile x-brace 2x8	100.00	lnft	0.95					-				100.70		-	-	-	-	100.70	1.12	111.78
			x-brace 3/4"x16" threaded rod, 2 nut and 2 washer ss	25.00	each	26.50					-				702.25		-	-	-	-	702.25	31.18	779.50
			material waste @ 15%	1.00	job	720.60					-				763.84		-	-	-	-	763.84	847.86	847.86
			material delivery charge - jacksonville	1.00	job	350.00					-				371.00		-	-	-	-	371.00	411.81	411.81
			dock construction labor								-				-		-	-	-	-	-	-	-
			small tools	1.00	job						-	650.00			-		-	689.00	-	-	689.00	764.79	764.79
			sundry & consumable	1.00	lsum	300.00					-				318.00		-	-	-	-	318.00	352.98	352.98
			2 carpenters and 1 helpers, in-house	1.00	lsum		350.000				8,750.00				-	350.000	11,768.75	-	-	-	11,768.75	13,063.31	13,063.31
			piling								-				-			-	-	-	-	-	-
			crane	2.00	day		8.000	MH/U		40.00	320.00	441.86			-	16.000	860.80	936.74	-	-	1,797.54	997.64	1,995.27
			hammer	5.00	day						-	275.00			-		-	1,457.50	-	-	1,457.50	323.57	1,617.83
			12" wood piles 32' x 8 ea	256.00	lnft	15.75	0.245	MH/U		28.40	6.96				4,273.92	62.720	2,395.78	-	-	-	6,669.70	28.92	7,403.37
			12" wood piles 38' x 2 ea	76.00	lnft	15.75	0.245	MH/U		28.40	6.96				1,268.82	18.620	711.25	-	-	-	1,980.07	28.92	2,197.87
			points	10.00	each	68.50	0.450	MH/U		28.40	12.78				726.10	4.500	171.89	-	-	-	897.99	99.68	996.77
			wood piles cut-oof / notch top	10.00	each		1.200	MH/U			30.00				-	12.000	403.50	-	-	-	403.50	44.79	447.89
			testing								-				-			-	-	-	-	-	-
			static test	2.00	each		8.000	MH/U			200.00		2,250.00		-	16.000	538.00	-	4,500.00	-	5,038.00	2,796.09	5,592.18
			gates (no specifications)								-				-			-	-	-	-	-	-
			temp gate @ santa maria restaurant	1.00	each	150.00	1.000				25.00				159.00	1.000	33.63	-	-	-	192.63	213.81	213.81
			ss gate @ santa maria restaurant	1.00	each	950.00	5.000	MH/U			125.00				1,007.00	5.000	168.13	-	-	-	1,175.13	1,304.39	1,304.39
			SUBTOTAL AMOUNT												**793,815.36**	**7944.013**	**284,197.40**	**155,691.44**	**350,587.42**	**-**	**1,584,291.61**	**1,758,563.69**	**1,758,563.69**
											-				-		-	-	-	-	-	-	-
5-UPI	**UNIT PRICE ALTERNATES**				**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			S-2 F & I CONCRETE SEAWALL PANEL	**1.00**	**each**						-				-		-	-	-	-	-	-	-
			concrete seawall panel (avg)	1.00	each						-		5,500.00		-		-	-	5,500.00	-	5,500.00	6,105.00	6,105.00
			S-3 PROMENADE DECKING	**1.00**	**SQFT**						-				-		-	-	-	-	-	-	-
			prominade concrete deck	1.00	sqft						-		26.00		-		-	-	26.00	-	26.00	28.86	28.86
			S-4 PERMANENT WALKWAY TO SANTA MARIA	**1.00**	**SQFT**						-				-		-	-	-	-	-	-	-
			permanent walkway	1.00	sqft						-		75.00		-		-	-	75.00	-	75.00	83.25	83.25
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
6.00	**GRADING ITEMS**			**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
	GR-1 COMPLETE GRADING			**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			grade right-of-way								-				-		-	-	-	-	-	-	-

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			dewatering pumps *contingency*	30.00	day		1.000	MH/U			25.00	65.00			-	30.000	1,008.75	2,067.00	-	-	3,075.75	113.80	3,414.08
			hdpe discharge pipe	50.00	lnft	10.00					-				530.00		-	-	-	-	530.00	11.77	588.30
			import, place and grade fill dirt at berm	145.00	cuyd		400.000	U/Shft	BCKFILL		0.93	2.13	13.50		-	5.800	181.96	327.23	1,957.50	-	2,466.69	18.88	2,738.02
			reload import, place and grade topsoil fill dirt at row	209.44	cuyd		400.000	U/Shft	BCKFILL		0.93	2.13	2.50		-	5.800	262.82	472.65	523.60	-	1,259.07	6.67	1,397.57
			fine grade berm	195.00	sqyd		500.000	U/Shft	GRD-1		0.71	0.62			-	6.240	187.26	127.43	-	-	314.69	1.79	349.31
			fine grade right-of-way	1568.00	sqyd		750.000	U/Shft	GRD-1		0.48	0.41			-		1,003.86	683.11	-	-	1,686.98	1.19	1,872.55
			adjust utility structures								-				-			-	-	-	-	-	-
			sawcut existing tops (speedy)	8.00	each						-		220.00		-		-	-	1,760.00	-	1,760.00	244.20	1,953.60
			remove existing tops w/grate or hatch	8.00	each		5.500	MH/U			137.50	82.50	75.00		-	44.000	1,479.50	699.60	600.00	-	2,779.10	385.60	3,084.80
			cast new tops w/grate	5.00	each						-		650.00		-		-	-	3,250.00	-	3,250.00	721.50	3,607.50
			cip new top w/ ext alum hatch cover	3.00	each	250.00	32.000	MH/U			800.00	15.00			795.00	96.000	3,228.00	47.70	-	-	4,070.70	1,506.16	4,518.48
			debris disposal	1.00	job						-		450.00		-		-	-	450.00	-	450.00	499.50	499.50
			SUBTOTAL AMOUNT												**1,325.00**	**187.840**	**7,352.16**	**4,424.72**	**8,541.10**	**-**	**21,642.99**	**24,023.71**	**24,023.71**
											-				-		-	-	-	-	-	-	-
6-UPI			**UNIT PRICE ALTERNATES**		**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			GR-2 REGRADE RIGHT-OF-WAY	**1.00**	**SQFT**						-		2.00		-		-	-	2.00	-	2.00	2.22	2.22
			GR-3 FIELD ADJUSTMENT OF UTILITY STRUCTURES	**1.00**	**EACH**						-		2,200.00		-		-	-	2,200.00	-	2,200.00	2,442.00	2,442.00
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
7.00			**UTILITY ITEMS**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			UT-1 UTILITIES COMPLETE	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			potable water								-				-			-	-	-	-	-	-
			1 1/2" pvc pipe hang from walkway labor	56.00	lnft		0.500	MH/U			12.50				-	28.000	941.50	-	-	-	941.50	18.66	1,045.07
			1 1/2" pvc pipe buried labor	48.00	lnft		50.000	U/Shft	WTR-1		17.90	15.79			-	38.400	1,155.69	803.19	-	-	1,958.88	45.30	2,174.36
			1 1/2" materials	1.00	lsum	595.00					-				630.70		-	-	-	-	630.70	700.08	700.08
			testing and disinfection								-				-		-	-	-	-	-	-	-
			pressure test	1.00	job		12.000	MH/U			300.00	520.00			-	12.000	403.50	551.20	-	-	954.70	1,059.72	1,059.72
			disinfection	1.00	job	65.00					-				68.90		-	-	-	-	68.90	76.48	76.48
			recover test water and dispose	1.00	job		4.000	MH/U			100.00	260.00			-	4.000	134.50	275.60	-	-	410.10	455.21	455.21
			sanitary sewer								-				-		-	-	-	-	-	-	-
			4" pvc pipe hang from walkway labor	56.00	lnft		0.500	MH/U			12.50				-	28.000	941.50	-	-	-	941.50	18.66	1,045.07
			4" pvc pipe buried labor	48.00	lnft		50.000	U/Shft	WTR-1		17.90	15.79			-		1,155.69	803.19	-	-	1,958.88	45.30	2,174.36
			4" materials	1.00	lsum	1,283.00					-				1,359.98		-	-	-	-	1,359.98	1,509.58	1,509.58
			storm water								-				-			-	-	-	-	-	-
			dumpster	2.00	pull						-		235.00		-		-	-	470.00	-	470.00	260.85	521.70
			dewatering @ vortech box(s)								-				-		-	-	-	-	-	-	-
			sump-pump system #1, installed w/rock	1.00	lsum		4.000	MH/U			100.00	55.00	400.00		-	4.000	134.50	58.30	400.00	-	592.80	658.01	658.01
			24/7 runtime support	7.00	day		1.000	MH/U			25.00	144.00	162.00		-	7.000	235.38	1,068.48	1,134.00	-	2,437.86	386.57	2,706.02
			removal and damage replacement	1.00	lsum		2.000	MH/U			50.00	27.50			-	2.000	67.25	29.15	-	-	96.40	107.00	107.00
			sump-pump system #2, installed w/rock	1.00	lsum		4.000	MH/U			100.00	55.00	400.00		-	4.000	134.50	58.30	400.00	-	592.80	658.01	658.01
			24/7 runtime support	7.00	day		1.000	MH/U			25.00	144.00	162.00		-	7.000	235.38	1,068.48	1,134.00	-	2,437.86	386.57	2,706.02
			removal and damage replacement	1.00	lsum		2.000	MH/U			50.00	27.50			-	2.000	67.25	29.15	-	-	96.40	107.00	107.00
			sump-pump system #3, installed w/rock	1.00	lsum		4.000	MH/U			100.00	55.00	400.00		-	4.000	134.50	58.30	400.00	-	592.80	658.01	658.01
			24/7 runtime support	7.00	day		1.000	MH/U			25.00	144.00	162.00		-	7.000	235.38	1,068.48	1,134.00	-	2,437.86	386.57	2,706.02
			removal and damage replacement	1.00	lsum		2.000	MH/U			50.00	27.50			-	2.000	67.25	29.15	-	-	96.40	107.00	107.00
			shoring box	2.00	mnth						-		1,000.00		-		-	-	2,000.00	-	2,000.00	1,110.00	2,220.00
			rock box	1.00	job						-		1,500.00		-		-	-	1,500.00	-	1,500.00	1,665.00	1,665.00
			well point *allowance*	3.00	each						-		9,500.00		-		-	-	28,500.00	-	28,500.00	10,545.00	31,635.00
			vortech system pile foundation and connection slab								-				-		-	-	-	-	-	-	-
			high-tide and severe weather	1.00	lsum		69.000	MH/U		28.00	1,932.00	3,150.00			-	69.000	2,598.54	3,339.00	-	-	5,937.54	6,590.67	6,590.67
			85 ton crawler crane w/ operator & fuel	1.00	mnth		172.000	MH/U		40.00	6,880.00	8,850.00	5,400.00		-	172.000	9,253.60	9,381.00	5,400.00	-	24,034.60	26,678.41	26,678.41
			hammer and leads rental	1.00	mnth						-	7,500.00			-		-	7,950.00	-	-	7,950.00	8,824.50	8,824.50
			sundry, blocks	1.00	job						-	1,500.00			-		-	1,590.00	-	-	1,590.00	1,764.90	1,764.90
			4-way spreader rigging	1.00	job						-	175.00			-		-	185.50	-	-	185.50	205.91	205.91
			18" concrete pile	175.00	vlf	27.00					-				5,008.50		-	-	-	-	5,008.50	31.77	5,559.44
			24" concrete pile	200.00	vlf	48.40					-				10,260.80		-	-	-	-	10,260.80	56.95	11,389.49
			install 18" piles, includes (1) for prominade x 6 ea.	175.00	each		0.123	MH/U		45.00	5.54				-	21.525	1,302.80	-	-	-	1,302.80	8.26	1,446.11
			install 24" piles @ 20 vft x 10 ea.	200.00	each		0.145	MH/U		45.00	6.53				-	29.000	1,755.23	-	-	-	1,755.23	9.74	1,948.30
			cut piles 18" piles	6.00	each		0.500	MH/U		45.00	22.50				-	3.000	181.58	-	-	-	181.58	33.59	201.55
			cut piles 24" piles	10.00	each		0.750	MH/U		45.00	33.75				-	7.500	453.94	-	-	-	453.94	50.39	503.87
			drill 3" hole	15.00	each						-		75.00		-		-	-	1,125.00	-	1,125.00	83.25	1,248.75
			20" embed #5 rebar	45.00	each	7.50	0.500	MH/U			12.50				357.75	22.500	756.56	-	-	-	1,114.31	27.49	1,236.89
			bonding agent	600.00	sqft	0.15	0.017	MH/U			0.43				95.40	10.213	343.40	-	-	-	438.80	0.81	487.07
			rebar embed	600.00	sqft	0.50	0.022	MH/U			0.55				318.00	13.200	443.85	-	-	-	761.85	1.41	845.65

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			6" cip rebar embed slab	12.00	cuyd	90.00	1.200	MH/U			30.00		18.00		1,144.80	14.400	484.20	-	216.00	-	1,845.00	170.66	2,047.95
			finish slab	600.00	sqft		0.024	MH/U			0.60				-	14.400	484.20	-	-	-	484.20	0.90	537.46
			pda load test	3.00	day						-		2,500.00		-		-	-	7,500.00	-	7,500.00	2,775.00	8,325.00
			analysis	1.00	job						-		3,000.00		-		-	-	3,000.00	-	3,000.00	3,330.00	3,330.00
			monitoring	3.00	day						-		550.00		-		-	-	1,650.00	-	1,650.00	610.50	1,831.50
			vortech 4000 box 1								-				-		-	-	-	-	-	-	-
			vortech system box 1	1.00	each	27,699.00					-				29,360.94		-	-	-	-	29,360.94	32,590.64	32,590.64
			diverter box	1.00	each	750.00	9.000	MH/U	STM-2		206.19	282.73			795.00	9.000	277.33	299.69	-	-	1,372.02	1,522.94	1,522.94
			bedding gravel	3.00	ton	16.50	150.000	U/Shft	BCKF-S		5.89	7.22	10.00		52.47	0.960	23.76	22.95	30.00	-	129.19	47.80	143.40
			excavation and grading	5.00	cuyd		150.000	U/Shft	EXC-1		1.31	3.68			-	0.267	8.83	19.51	-	-	28.35	6.29	31.47
			unload truck	1.00	each		2.000	MH/U			50.00				-	2.000	67.25	-	-	-	67.25	74.65	74.65
			set structure (bottom, ramneck and top)	1.00	lsum		21.000	MH/U	STM-2		481.11	659.69			-	21.000	647.09	699.28	-	-	1,346.37	1,494.47	1,494.47
			install baffels	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			grout pipe connections	5.00	each	45.00	3.500	MH/U			87.50				238.50	17.500	588.44	-	-	-	826.94	183.58	917.90
			inspection manhole ring/covers (3-each box)	3.00	each	25.00	1.500				37.50				79.50	4.500	151.31	-	-	-	230.81	85.40	256.20
			backfill structure	12.00	cuyd		400.000	U/Shft	BCKFILL		0.93	2.13			-	0.480	15.06	27.08	-	-	42.14	3.90	46.77
			clean system	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			vortech 7000 box 2								-				-		-	-	-	-	-	-	-
			vortech system box 1	1.00	each	33,499.00					-				35,508.94		-	-	-	-	35,508.94	39,414.92	39,414.92
			diverter box	1.00	each	750.00	9.000	MH/U	STM-2		206.19	282.73			795.00	9.000	277.33	299.69	-	-	1,372.02	1,522.94	1,522.94
			excavation and grading	6.00	cuyd		150.000	U/Shft	EXC-1		1.31	3.68			-	0.320	10.60	23.42	-	-	34.02	6.29	37.76
			unload truck	1.00	each		2.000	MH/U			50.00				-	2.000	67.25	-	-	-	67.25	74.65	74.65
			bedding gravel	3.00	ton	16.50	150.000	U/Shft	BCKF-S		5.89	7.22	10.00		52.47	0.960	23.76	22.95	30.00	-	129.19	47.80	143.40
			set structure (bottom, ramneck and top)	1.00	lsum		21.000	MH/U	STM-2		481.11	659.69			-	21.000	647.09	699.28	-	-	1,346.37	1,494.47	1,494.47
			install baffels	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			grout pipe connections	5.00	each	45.00	3.500	MH/U			87.50				238.50	17.500	588.44	-	-	-	826.94	183.58	917.90
			inspection manhole ring/covers (3-each box)	3.00	each	25.00	1.500				37.50				79.50	4.500	151.31	-	-	-	230.81	85.40	256.20
			backfill structure	15.00	cuyd		400.000	U/Shft	BCKFILL		0.93	2.13			-	0.600	18.82	33.85	-	-	52.67	3.90	58.47
			clean system	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			vortech 7000 box 3								-				-		-	-	-	-	-	-	-
			vortech system box 1	1.00	each	33,499.00					-				35,508.94		-	-	-	-	35,508.94	39,414.92	39,414.92
			diverter box	1.00	each	750.00	9.000	MH/U	STM-2		206.19	282.73			795.00	9.000	277.33	299.69	-	-	1,372.02	1,522.94	1,522.94
			bedding gravel	3.00	ton	16.50	150.000	U/Shft	BCKF-S		5.89	7.22	10.00		52.47	0.960	23.76	22.95	30.00	-	129.19	47.80	143.40
			excavation and grading	6.00	cuyd		150.000	U/Shft	EXC-1		1.31	3.68			-	0.320	10.60	23.42	-	-	34.02	6.29	37.76
			unload truck	1.00	each		2.000	MH/U			50.00				-	2.000	67.25	-	-	-	67.25	74.65	74.65
			set structure (bottom, ramneck and top)	1.00	lsum		21.000	MH/U	STM-2		481.11	659.69			-	21.000	647.09	699.28	-	-	1,346.37	1,494.47	1,494.47
			install baffels	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			grout pipe connections	5.00	each	45.00	3.500	MH/U			87.50				238.50	17.500	588.44	-	-	-	826.94	183.58	917.90
			inspection manhole ring/covers (3-each box)	3.00	each	25.00	1.500				37.50				79.50	4.500	151.31	-	-	-	230.81	85.40	256.20
			backfill structure	15.00	cuyd		400.000	U/Shft	BCKFILL		0.93	2.13			-	0.600	18.82	33.85	-	-	52.67	3.90	58.47
			clean system	1.00	each		1.000	MH/U			25.00				-	1.000	33.63	-	-	-	33.63	37.32	37.32
			storm pipe								-				-		-	-	-	-	-	-	-
			18" hdpe pipe	251.00	lnft	15.50	95.000	U/Shft	STM-2		9.65	13.23		2.00	4,123.93	105.684	3,256.55	3,519.27	-	532.12	11,431.87	50.56	12,689.38
			18" rc pipe	30.00	lnft	11.00	75.000	U/Shft	STM-2		12.22	16.75		2.00	349.80	16.000	493.02	532.80	-	63.60	1,439.22	53.25	1,597.54
			15" rc pipe	16.00	lnft	10.50	75.000	U/Shft	STM-2		12.22	16.75		2.00	178.08	8.533	262.95	284.16	-	33.92	759.10	52.66	842.61
			filter fabric - joint wrap	38.00	each	3.50	0.100	MH/U			2.50				140.98	3.800	127.78	-	-	-	268.76	7.85	298.32
			storm catch basin								-				-		-	-	-	-	-	-	-
			type c dbi	1.00	each	750.00	11.000	MH/U	STM-2		252.01	345.55	45.00		795.00	11.000	338.95	366.29	45.00	-	1,545.24	1,715.22	1,715.22
			grout pipe	12.00	cuft	12.96	0.150	MH/U			3.75				164.89	1.800	60.53	-	-	-	225.41	20.85	250.21
			bedding gravel	1.00	ton	16.50	150.000	U/Shft	BCKF-S		5.89	7.22	10.00		17.49	0.320	7.92	7.65	10.00	-	43.06	47.80	47.80
			storm flap valves								-				-		-	-	-	-	-	-	-
			18" flap valve	4.00	each	235.00	4.500	MH/U			112.50			25.00	996.40	18.000	605.25	-	-	106.00	1,707.65	473.87	1,895.49
			10" flap valve	2.00	each	175.00	4.250	MH/U			106.25			15.00	371.00	8.500	285.81	-	-	31.80	688.61	382.18	764.36
			cip ss anchors	6.00	sets	90.00	6.000	MH/U			150.00				572.40	36.000	1,210.50	-	-	-	1,782.90	329.84	1,979.02
			inlet protection and cleaning								-				-		-	-	-	-	-	-	-
			clean-out structure, end of project	11.00	each		0.500				12.50	1.00			-	5.500	184.94	11.66	-	-	196.60	19.84	218.22
			inlet protection device	5.00	each	55.00	0.250				6.25				291.50	1.250	42.03	-	-	-	333.53	74.04	370.22
			engineer certification of system (contect)	1.00	inc						-				-		-	-	-	-	-	-	-
			SUBTOTAL AMOUNT												**131,121.53**	**915.992**	**36,527.91**	**36,295.19**	**56,108.00**	**767.44**	**260,820.07**	**289,510.28**	**289,510.28**
											-				-			-	-	-	-	-	-
7-UPI	**UNIT PRICE ALTERNATES**				**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			UT-2 POTABLE WATER PIPE	**1.00**	**LNFT**						-		70.00		-		-	-	70.00	-	70.00	77.70	77.70
			UT-3 SANITARY SEWER PIPE	**1.00**	**LNFT**						-		50.00		-		-	-	50.00	-	50.00	55.50	55.50
			UT-4 BYPASS PUMPING / POWER GENERATION	**1.00**	**DAY**						-		450.00		-		-	-	450.00	-	450.00	499.50	499.50

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			UT-5 STORM WATER TREATMENT BOXES	**1.00**	**EACH**						-		90,000.00		-		-	-	90,000.00	-	90,000.00	99,900.00	99,900.00
											-				-			-	-	-	-	-	-
											-				-			-	-	-	-	-	-
8.00			**ELECTRICAL ITEMS**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
			ET-1 ELECTRICAL WORK COMPLETE	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			temp line relocation *sid carrol*								-				-		-	-	-	-	-	-	-
			south light pole connection to grid								-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
8-UPI			**UNIT PRICE ALTERNATES**		**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			ET-2 UNDERGROUND CONDUITS	**1.00**	**LNFT**						-				-		-	-	-	-	-	-	-
			ET-3 TRANSFORMERS	**1.00**	**EACH**						-				-		-	-	-	-	-	-	-
			ET-4 ALTERNATE LIGHTING	**1.00**	**EACH**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
9.00			**LANDSCAPING ITEMS**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
			LS-1 LANDSCAPING COMPLETE	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			sod	1566.07	sqyd						-		3.00		-		-	-	4,698.20	-	4,698.20	3.33	5,215.01
			plants 3 gal indian hawthorne	445.00	each	7.50	0.234	MH/U			5.85				3,537.75	104.149	3,502.01	-	-	-	7,039.76	17.56	7,814.13
			tranport and replant tree	19.00	each		5.500	MH/U			137.50	100.83	65.00		-	104.500	3,513.81	2,030.78	1,235.00	-	6,779.60	396.07	7,525.35
			guy	19.00	each	25.00	1.000	MH/U			25.00	11.25			503.50	19.000	638.88	226.58	-	-	1,368.95	79.98	1,519.53
			seagrass mitigation								-				-		-	-	-	-	-	-	-
			grade mitigation area	277.78	sqyd		0.213	MH/U			5.32				-	59.102	1,987.29	-	-	-	1,987.29	7.94	2,205.90
			import fill	138.89	cuyd		0.250	MH/U			6.25	15.00	12.50		-	34.722	1,167.53	2,208.33	1,736.11	-	5,111.98	40.85	5,674.30
			plant sprigging spartina (cord grass)	2500.00	each						-		1.15		-		-	-	2,875.00	-	2,875.00	1.28	3,191.25
			80% plant survival at 3 years	500.00	each						-		1.20		-		-	-	600.00	-	600.00	1.33	666.00
			3-year bi-annual monitoring	1.00	lsum						-		400.00		-		-	-	400.00	-	400.00	444.00	444.00
			mitigation site - as-built and certification	1.00	job						-		1,500.00		-		-	-	1,500.00	-	1,500.00	1,665.00	1,665.00
			SUBTOTAL AMOUNT												**4,041.25**	**321.473**	**10,809.52**	**4,465.69**	**13,044.31**	**-**	**32,360.78**	**35,920.47**	**35,920.47**
											-				-		-	-	-	-	-	-	-
9-UPI			**UNIT PRICE ITEMS**		**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			LS-2 TREE INSTALLATION	**1.00**	**EACH**						-		1,000.00		-		-	-	1,000.00	-	1,000.00	1,110.00	1,110.00
											-				-		-	-	-	-	-	-	-
9-ALT			**ALTERNATE BID ITEM**	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
			LS-3 IRRIGATION (ALTERNATE)	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			irrigation								-				-		-	-	-	-	-	-	-
			electrical disconnect	1.00	each	65.00	1.500			45.00	35.25				68.90	1.500	47.41	-	-	-	116.31	129.11	129.11
			ground rod	1.00	each	15.00	1.400				35.00				15.90	1.400	47.08	-	-	-	62.98	69.90	69.90
			zone control station	1.00	each	520.00	5.500				137.50				551.20	5.500	184.94	-	-	-	736.14	817.11	817.11
			control pedestal	1.00	each	315.00	3.000				75.00				333.90	3.000	100.88	-	-	-	434.78	482.60	482.60
			1" conduit bends	4.00	each	12.50	0.150				3.75				53.00	0.600	20.18	-	-	-	73.18	20.31	81.22
			concrete pad	1.00	each	41.00	2.000				50.00				43.46	2.000	67.25	-	-	-	110.71	122.89	122.89
			2" 'tap, slv & valve by city **per plan**		nic		1.000				25.00		150.00		-		-	-	-	-	-	-	-
			2" corp stop by city **per plan**		nic						-				-		-	-	-	-	-	-	-
			2" flex pipe by city **per plan**		nic	1.50	0.100				2.50				-		-	-	-	-	-	-	-
			wtr meter by city **per plan**		nic						-				-		-	-	-	-	-	-	-
			2" galv stand pipe	2.00	each	7.50	0.200				5.00				15.90	0.400	13.45	-	-	-	29.35	16.29	32.58
			2" galv 90	4.00	each	5.50	0.900				22.50				23.32	3.600	121.05	-	-	-	144.37	40.06	160.25
			2" galv union	4.00	each	5.50	0.650				16.25				23.32	2.600	87.43	-	-	-	110.75	30.73	122.93
			2" rp bfv	1.00	each	341.45	7.000				175.00				361.94	7.000	235.38	-	-	-	597.31	663.02	663.02
			12" volt module	10.00	each	24.42	0.330				8.25				258.85	3.300	110.96	-	-	-	369.81	41.05	410.49
			programer (hand)	1.00	each	247.50					-				262.35		-	-	-	-	262.35	291.21	291.21
			remote control valve 1-1/2"	10.00	each	60.00	0.850				21.25				636.00	8.500	285.81	-	-	-	921.81	102.32	1,023.21
			1-1/2" ball valve	10.00	each	15.50	0.400				10.00				164.30	4.000	134.50	-	-	-	298.80	33.17	331.67
			power wire 14	1000.00	lnft	0.10	0.010				0.25				103.88	10.000	336.25	-	-	-	440.13	0.49	488.54
			gate valve 2"	1.00	each	35.00	0.450				11.25				37.10	0.450	15.13	-	-	-	52.23	57.98	57.98
			round valve box	2.00	each	12.50	0.650				16.25				26.50	1.300	43.71	-	-	-	70.21	38.97	77.94
			12 x 18 box	10.00	each	18.50	1.400				35.00				196.10	14.000	470.75	-	-	-	666.85	74.02	740.20
			6" pop-up heads	240.00	each	4.00	0.250				6.25				1,017.60	60.000	2,017.50	-	-	-	3,035.10	14.04	3,368.96
			nozzels	240.00	each	0.45					-				114.48		-	-	-	-	114.48	0.53	127.07
			flex pvc hose 1/2"	240.00	lnft	0.55	0.106				2.66				139.92	25.532	858.51	-	-	-	998.43	4.62	1,108.26

AVENIDA MENENDEZ SEAWALL

ST. AUGUSTINE, FLORIDA

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT $ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW.	ADJ. $ HOURLY	UNIT $ LABOR	UNIT $ EQUIP	UNIT $ SUB-CON	UNIT $ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
			pvc 90 bend 1/2"	480.00	each	0.25	0.300				7.50				127.20	144.000	4,842.00	-	-	-	4,969.20	11.49	5,515.81
			pvc tee 1/2" & 3/4"	240.00	each	0.60	0.250				6.25				152.64	60.000	2,017.50	-	-	-	2,170.14	10.04	2,408.86
			pvc tee 1"	28.00	each	0.65	0.350				8.75				19.29	9.800	329.53	-	-	-	348.82	13.83	387.19
			pvc tee 2" x 1-1/2"	10.00	each	1.65	0.450				11.25				17.49	4.500	151.31	-	-	-	168.80	18.74	187.37
			drill and grout seawall at sleeve location	7.00	each	25.00	1.500				37.50	45.00			185.50	10.500	353.06	333.90	-	-	872.46	138.35	968.43
			pvc 4" sch40 sleeve	20.00	lnft	2.00	0.250				6.25	6.25			42.40	5.000	168.13	132.50	-	-	343.03	19.04	380.76
			pvc 2" cl200 main	1000.00	lnft	0.65	0.160				4.00	4.00			689.00	160.000	5,380.00	4,240.00	-	-	10,309.00	11.44	11,442.99
			pvc 1-1/2" branch	67.84	lnft	0.45	0.120				3.00	3.00			32.36	8.141	273.73	215.73	-	-	521.83	8.54	579.23
			pvc 1" branch	217.79	lnft	0.35	0.110				2.75	2.75			80.80	23.957	805.55	634.86	-	-	1,521.21	7.75	1,688.54
			pvc 3/4" branch	349.75	lnft	0.25	0.100				2.50	2.50			92.68	34.975	1,176.03	926.84	-	-	2,195.56	6.97	2,437.07
			pvc 1/2" branch	1878.82	lnft	0.15	0.090				2.25	2.25			298.73	169.094	5,685.78	4,480.99	-	-	10,465.50	6.18	11,616.70
			pvc fittings misc.	1.00	job	150.00					-				159.00		-	-	-	-	159.00	176.49	176.49
			sundry								-				-			-	-	-	-	-	-
			flags	2.00	pack	8.50					-				18.02		-	-	-	-	18.02	10.00	20.00
			cleaner	11.31	gal	20.00					-				239.82		-	-	-	-	239.82	23.53	266.20
			glue	12.24	gal	22.55					-				292.52		-	-	-	-	292.52	26.53	324.70
			spare parts	1.00	lsum	100.00					-				106.00		-	-	-	-	106.00	117.66	117.66
			bedding gravel	1.00	cuyd	45.00					-				47.70		-	-	-	-	47.70	52.95	52.95
			test and adjust system	1.00	job		24.000	MH/U			600.00				-	24.000	807.00	-	-	-	807.00	895.77	895.77
			SUBTOTAL AMOUNT												**7,049.08**	**808.648**	**27,187.78**	**10,964.81**	**-**	**-**	**45,201.67**	**50,173.85**	**50,173.85**
											-				-		-	-	-	-	-	-	-
9-UPI.	**UNIT PRICE ITEMS**				**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			LS-4 MITIGATION (SPARTINA GRASS)	**1.00**	**SQFT**						-		9.00		-		-	-	9.00	-	9.00	9.99	9.99
											-				-			-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
10.00	**HISTORIC CONSERVATION ITEMS**			**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
			HC-1 PREPARATION OF THE SEAWALL	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			clean east side of seawall	1082.00	lnft		0.148	MH/U			3.70				-	160.000	5,380.00	-	-	-	5,380.00	5.52	5,971.80
			patching and repair seawall	216.00	cuft	7.50	0.850	MH/U			21.25	1.00	30.09		1,717.20	183.600	6,173.55	228.96	6,500.00	-	14,619.71	75.13	16,227.88
			vibration monitoring								-				-			-	-	-	-	-	-
			vibration monitoring (7-points)	7.00	each						-		650.00		-		-	-	4,550.00	-	4,550.00	721.50	5,050.50
			tapes and tags	1.00	job						-			50.00	-		-	-	-	53.00	53.00	58.83	58.83
			reports	1.00	job						-			100.00	-		-	-	-	106.00	106.00	117.66	117.66
			SUBTOTAL AMOUNT												**-**	**160.000**	**5,380.00**	**-**	**-**	**-**	**5,380.00**	**5,971.80**	**5,971.80**
											-				-			-	-	-	-	-	-
10-UPI	**UNIT PRICE ITEMS**				**NIC**						-				-		-	-	-	-	-	-	-
											-				-		-	-	-	-	-	-	-
			HC-2 REPOINTING AND REPLACEMENT OF COQUINA	**1.00**	**CUFT**						-				-		-	-	-	-	-	-	-
			repair seawall	1.00	cuft						-		103.00		-		-	-	103.00	-	103.00	114.33	114.33
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**103.00**	**-**	**103.00**	**114.33**	**114.33**
											-				-			-	-	-	-	-	-
			HC-3 VIBRATION CONTROL MONITORING	**1.00**	**LSUM**						-				-		-	-	-	-	-	-	-
			vibration monitoring (7-points)	7.00	each						-		750.00		-		-	-	5,250.00	-	5,250.00	832.50	5,827.50
			tapes and tags	1.00	job						-			50.00	-		-	-	-	53.00	53.00	58.83	58.83
			reports	1.00	job						-			100.00	-		-	-	-	106.00	106.00	117.66	117.66
			SUBTOTAL AMOUNT												**-**		**-**	**-**	**5,250.00**	**159.00**	**5,409.00**	**6,003.99**	**6,003.99**
											-				-		-	-	-	-	-	-	-
											-				-			-	-	-	-	-	-
											-							-	-	-	-	-	-
																					5,692,227.66		
END OF ESTIMATE																							**$ 3,246,827.79**

NO. **EXCLUSIONS & QUALIFICATIONS**

END