

CONSTRUCTION DIVISION

SPECIFICATION NO. 2766
 BERTHS 196-199 WHARF REHABILITATION
 PROJ. CONST. MGR.: PHONG NGO

ENGINEERING ESTIMATE: \$9,246,320
 ADVERTISED DATE: MARCH 2, 2016
 BID OPENING DATE: JUNE 16, 2016

	GRAND TOTAL ITEM 1-78	ITEM 1 LUMP SUM CONSTRUCTION BERTHS 198-199 (DRAWING NO. 1-3108) LUMP SUM
ENGINEERING ESTIMATE	\$ 9,246,320.00	\$ 512,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 6,081,480.00	\$ 580,000.00
2) REYES CONSTRUCTION	\$ 8,258,525.00	\$ 667,000.00
3) CONNOLLY-PACIFIC	\$ 10,370,060.00	\$ 965,600.00
4) JOHN S. MEEK COMPANY, INC.	\$ 10,481,965.00	\$ 849,000.00

1) AVERAGE BID	\$ 8,798,007.50	\$ 765,400.00
2) STANDARD DEVIATION	\$ 2,079,873.79	\$ 174,283.98
3) ENG. EST. - LOW BIDDER	\$ 3,164,840.00	\$ (68,000.00)

* AS IN BID

TRANSMITTAL 1

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 4 PAVEMENT MARKINGS		ITEM 5 REPAIR EXISTING MOORING BOLLARDS IN TIMBER WHARF	
	Lin. Ft. Approx. Qty. =	1700	Each Approx. Qty. =	3
ENGINEERING ESTIMATE	\$ 3.00	\$ 5,100.00	\$ 8,000.00	\$ 24,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 2.00	\$ 3,400.00	\$ 4,200.00	\$ 12,600.00
2) REYES CONSTRUCTION	\$ 5.00	\$ 8,500.00	\$ 4,500.00	\$ 13,500.00
3) CONNOLLY-PACIFIC	\$ 2.20	\$ 3,740.00	\$ 4,600.00	\$ 13,800.00
4) JOHN S. MEEK COMPANY, INC.	\$ 2.75	\$ 4,675.00	\$ 9,775.00	\$ 29,325.00
1) AVERAGE BID	\$ 2.99	\$ 5,078.75	\$ 5,768.75	\$ 17,306.25
2) STANDARD DEVIATION	\$ 1.38	\$ 2,343.67	\$ 2,676.24	\$ 8,028.71
3) ENG. EST. - LOW BIDDER	\$ 1.00	\$ 1,700.00	\$ 3,800.00	\$ 11,400.00

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SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHAELITATION
PROJ. CONST. MGR.: PHONG N30

	ITEM 6 REPAIR EXISTING MOORING BOLLARDS IN CONCRETE WHARF		ITEM 7 REPAIRS TO UNDERMINING AT ROCK SLOPE WITH CONCRETE FILLED BAGS	
	Each Approx. Qty. =	8	Bags Approx. Qty. =	2100
ENGINEERING ESTIMATE	\$10,000.00	\$	\$ 22.00	\$ 46,200.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 4,000.00	\$	\$ 50.00	\$ 105,000.00
2) REYES CONSTRUCTION	\$ 4,300.00	\$	\$ 30.00	\$ 63,000.00
3) CONNOLLY-PACIFIC	\$ 4,400.00	\$	\$ 41.00	\$ 86,100.00
4) JOHN S. MEEK COMPANY, INC.	\$ 9,775.00	\$	\$ 69.50	\$ 145,950.00
1) AVERAGE BID	\$ 5,618.75	\$	\$ 47.63	\$ 100,012.50
2) STANDARD DEVIATION	\$ 2,776.04	\$	\$ 16.72	\$ 35,112.26
3) ENG. EST. - LOW BIDDER	\$ 6,000.00	\$	\$ (28.00)	\$ (58,800.00)

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PROJ. CONST. MGR.: PHONG NGO

	ITEM 8		ITEM 9	
	REPAIRS TO UNDERMINING AT ROCK SLOPE WITH SLURRY FILL		REPAIRS TO UNDERMINING AT PILE ENCASEMENT WITH SLURRY FILL AND CONCRETE FILLED BAGS	
	Cu. Yds. Approx. Qty. =	400	Locations Approx. Qty. =	36
ENGINEERING ESTIMATE	\$ 600.00	\$	\$ 1,320.00	\$ 47,520.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 200.00	\$	\$ 3,500.00	\$ 126,000.00
2) REYES CONSTRUCTION	\$ 340.00	\$	\$ 2,900.00	\$ 104,400.00
3) CONNOLLY-PACIFIC	\$ 397.00	\$	\$ 3,600.00	\$ 129,600.00
4) JOHN S. MEEK COMPANY, INC.	\$ 380.00	\$	\$ 3,000.00	\$ 108,000.00

1) AVERAGE BID	\$ 329.25	\$	\$ 3,250.00	\$	131,700.00	\$ 117,000.00
2) STANDARD DEVIATION	\$ 89.42	\$	\$ 351.19	\$	35,767.21	12,642.78
3) ENG. EST. - LOW BIDDER	\$ 400.00	\$	\$ (2,180.00)	\$	160,000.00	(78,480.00)

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	ITEM 10		ITEM 11	
	SHOTCRETE REPAIRS WITHOUT EXPOSED REINFORCING		SHOTCRETE REPAIRS WITH EXPOSED REINFORCING	
	Cu. Ft. Approx. Qty. =		Cu. Ft. Approx. Qty. =	
	400		200	
ENGINEERING ESTIMATE	\$ 1,320.00	\$	\$ 1,540.00	\$
	528,000.00		308,000.00	
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 220.00	\$	\$ 300.00	\$
	88,000.00		* \$65,000.00	
			60,000.00	
2) REYES CONSTRUCTION	\$ 1,350.00	\$	\$ 1,400.00	\$
	540,000.00		280,000.00	
3) CONNOLLY-PACIFIC	\$ 1,465.00	\$	\$ 2,345.00	\$
	586,000.00		469,000.00	
4) JOHN S. MEEK COMPANY, INC.	\$ 1,300.00	\$	\$ 1,400.00	\$
	520,000.00		280,000.00	

1) AVERAGE BID	\$ 1,083.75	\$	\$ 1,361.25	\$
2) STANDARD DEVIATION	\$ 579.96	\$	\$ 836.07	\$
3) ENG. EST. - LOW BIDDER	\$ 1,100.00	\$	\$ 1,240.00	\$
	433,500.00		272,250.00	
	231,984.91		167,213.19	
	440,000.00		248,000.00	

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	ITEM 12		ITEM 13	
	EPOXY INJECTION REPAIRS		CONCRETE COLUMN REPAIR WITH JACKET ENCASEMENT (JACK3)	
	Lin. Ft. Approx. Qty. =	700	Each Approx. Qty. =	29
ENGINEERING ESTIMATE	\$ 375.00	\$ 262,500.00	\$ 4,850.00	\$ 140,650.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 98.00	\$ 68,600.00	\$ 4,200.00	\$ 121,800.00
2) REYES CONSTRUCTION	\$ 275.00	\$ 192,500.00	\$ 8,000.00	\$ 232,000.00
3) CONNOLLY-PACIFIC	\$ 364.00	\$ 254,800.00	\$ 6,300.00	\$ 182,700.00
4) JOHN S. MEEK COMPANY, INC.	\$ 300.00	\$ 210,000.00	\$ 8,950.00	\$ 259,550.00

1) AVERAGE BID	\$ 259.25	\$ 181,475.00	\$ 6,862.50	\$ 199,012.50
2) STANDARD DEVIATION	\$ 113.85	\$ 79,692.22	\$ 2,086.21	\$ 60,500.23
3) ENG. EST. - LOW BIDDER	\$ 277.00	\$ 193,900.00	\$ 650.00	\$ 18,850.00

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BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 16 REPAIR TIMBER CROSS BRACING		ITEM 17 REPAIR SPLITS IN TIMBER MEMBERS	
	Each Approx. Qty. =		Each Approx. Qty. =	
			3	70
ENGINEERING ESTIMATE	\$ 1,650.00	\$	\$ 550.00	\$ 38,500.00
		4,950.00		
		* \$7,500.00		
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 3,500.00	\$	\$ 400.00	\$ 28,000.00
		10,500.00		
2) REYES CONSTRUCTION	\$ 3,400.00	\$	\$ 530.00	\$ 37,100.00
		10,200.00		
3) CONNOLLY-PACIFIC	\$ 3,560.00	\$	\$ 1,360.00	\$ 95,200.00
		10,680.00		
4) JOHN S. MEEK COMPANY, INC.	\$ 5,900.00	\$	\$ 1,325.00	\$ 92,750.00
		17,700.00		

1) AVERAGE BID	\$ 4,090.00	\$	\$	\$	\$	\$	\$
2) STANDARD DEVIATION	\$ 1,208.47	\$	\$	\$	\$	\$	\$
3) ENG. EST. - LOW BIDDER	\$ (1,850.00)	\$	\$	\$	\$	\$	\$
		12,270.00		903.75		63,262.50	
		3,625.41		509.60		35,671.82	
		(5,550.00)		150.00		10,500.00	

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	ITEM 18		ITEM 19		
	PATCH EXISTING TIMBER PILE PVC WRAP		REPAIR BROKEN OR DAMAGED PILE WRAP BANDS		
	Each Approx. Qty. =		50	Each Approx. Qty. =	
			110		
ENGINEERING ESTIMATE	\$ 300.00	\$	\$ 15,000.00	\$ 300.00	\$ 33,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 150.00	\$	7,500.00	\$ 185.00	\$ 20,350.00
2) REYES CONSTRUCTION	\$ 320.00	\$	16,000.00	\$ 175.00	\$ 19,250.00
3) CONNOLLY-PACIFIC	\$ 300.00	\$	15,000.00	\$ 200.00	\$ 22,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 180.00	\$	9,000.00	\$ 320.00	\$ 35,200.00

1) AVERAGE BID	\$ 237.50	\$	11,875.00	\$ 220.00	\$ 24,200.00
2) STANDARD DEVIATION	\$ 85.00	\$	4,250.00	\$ 67.45	\$ 7,419.91
3) ENG. EST. - LOW BIDDER	\$ 150.00	\$	7,500.00	\$ 115.00	\$ 12,650.00

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	ITEM 20		ITEM 21			
	TIMBER PILE POLYETHYLENE WRAP		TIMBER PILE REPAIR WITH JACKET ENCASUREMENT (JACK2)			
	Each Approx. Qty. =		25 Each Approx. Qty. =			
ENGINEERING ESTIMATE	\$ 1,650.00	\$	\$ 41,250.00	\$ 9,500.00	\$	\$ 38,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 1,400.00	\$	35,000.00	\$ 6,170.00	\$	24,680.00
2) REYES CONSTRUCTION	\$ 1,170.00	\$	29,250.00	\$ 9,700.00	\$	38,800.00
3) CONNOLLY-PACIFIC	\$ 3,000.00	\$	75,000.00	\$ 7,500.00	\$	30,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 5,800.00	\$	145,000.00	\$ 7,500.00	\$	30,000.00

1) AVERAGE BID	\$ 2,842.50	\$	71,062.50	\$ 7,717.50	\$	30,870.00
2) STANDARD DEVIATION	\$ 2,133.05	\$	53,326.19	\$ 1,462.84	\$	5,851.35
3) ENG. EST. - LOW BIDDER	\$ 250.00	\$	6,250.00	\$ 3,330.00	\$	13,320.00

* AS IN BID

	ITEM 22 TIMBER PILE SPLICE REPAIR		ITEM 23 REPLACE TIMBER CONNECTIONS	
	Each Approx. Qty. =		4 Each Approx. Qty. =	
				50
ENGINEERING ESTIMATE	\$ 13,650.00	\$ 54,600.00	\$ 300.00	\$ 15,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 10,400.00	\$ 41,600.00	\$ 495.00	\$ 24,750.00
2) REYES CONSTRUCTION	\$ 17,000.00	\$ 68,000.00	\$ 880.00	\$ 44,000.00
3) CONNOLLY-PACIFIC	\$ 13,100.00	\$ 52,400.00	\$ 400.00	\$ 20,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 22,500.00	\$ 90,000.00	\$ 390.00	\$ 19,500.00

1) AVERAGE BID	\$ 15,750.00	\$ 63,000.00	\$ 541.25	\$ 27,062.50
2) STANDARD DEVIATION	\$ 5,252.62	\$ 21,010.47	\$ 230.74	\$ 11,536.85
3) ENG. EST. - LOW BIDDER	\$ 3,250.00	\$ 13,000.00	\$ (195.00)	\$ (9,750.00)

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	ITEM 24 TREATED WOOD WASTE TRANSPORTATION AND DISPOSAL LUMP SUM	ITEM 25 OIL LINES REMOVAL AND DISPOSAL LUMP SUM	ITEM 26 MOLASSES LINE REMOVAL AND DISPOSAL LUMP SUM
ENGINEERING ESTIMATE	\$ 200,000.00	\$ 280,000.00	\$ 225,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 10,000.00	\$ 60,000.00	\$ 100,000.00
2) REYES CONSTRUCTION	\$ 40,000.00	\$ 100,000.00	\$ 150,000.00
3) CONNOLLY-PACIFIC	\$ 33,800.00	\$ 405,500.00	\$ 202,700.00
4) JOHN S. MEEK COMPANY, INC.	\$ 8,250.00	\$ 242,000.00	\$ 172,000.00

1) AVERAGE BID	\$ 23,012.50	\$ 201,875.00	\$ 156,175.00
2) STANDARD DEVIATION	\$ 16,250.15	\$ 156,610.12	\$ 43,238.75
3) ENG. EST. - LOW BIDDER	\$ 190,000.00	\$ 220,000.00	\$ 125,000.00

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BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 27 ELECTRICAL AND TELEPHONE LINES REMOVAL AND DISPOSAL LUMP SUM	ITEM 28 REMOVAL AND DISPOSAL OF BLACK COATING ON CONCRETE LUMP SUM	ITEM 29 REPAIR RUBBER FENDERS LUMP SUM
ENGINEERING ESTIMATE	\$ 125,000.00	\$ 200,000.00	\$ 16,500.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 5,000.00	\$ 35,000.00	\$ 4,000.00
2) REYES CONSTRUCTION	\$ 7,000.00	\$ 70,000.00	\$ 3,000.00
3) CONNOLLY-PACIFIC	\$ 85,200.00	\$ 81,100.00	\$ 2,800.00
4) JOHN S. MEEK COMPANY, INC.	\$ 36,000.00	\$ 85,000.00	\$ 24,000.00

1) AVERAGE BID	\$ 33,300.00	\$ 67,775.00	\$ 8,450.00
2) STANDARD DEVIATION	\$ 37,387.52	\$ 22,755.27	\$ 10,379.95
3) ENG. EST. - LOW BIDDER	\$ 120,000.00	\$ 165,000.00	\$ 12,500.00

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PROJ. CONST. MGR.: PHONG NGO

	ITEM 30		ITEM 31	
	DEMOLISH AND DISPOSE OF OFF DEPARTMENT PROPERTY ASPHALT CONCRETE PAVEMENT 2 INCHES TO 5 INCHES THICK		REMOVE EXISTING AND INSTALL NEW TIMBER DECKING	
	Cu. Yds. Approx. Qty. =		100	Sq. Ft. Approx. Qty. =
				8400
ENGINEERING ESTIMATE	\$ 55.00	\$ 5,500.00	\$ 30.00	\$ 252,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 210.00	\$ 21,000.00	\$ 33.00	\$ 277,200.00
2) REYES CONSTRUCTION	\$ 270.00	\$ 27,000.00	\$ 40.00	\$ 336,000.00
3) CONNOLLY-PACIFIC	\$ 290.00	\$ 29,000.00	\$ 72.00	\$ 604,800.00
4) JOHN S. MEEK COMPANY, INC.	\$ 365.00	\$ 36,500.00	\$ 41.75	\$ 350,700.00

1) AVERAGE BID	\$ 283.75	\$ 28,375.00	\$ 46.69	\$ 392,175.00
2) STANDARD DEVIATION	\$ 63.95	\$ 6,394.99	\$ 17.29	\$ 145,263.49
3) ENG. EST. - LOW BIDDER	\$ (155.00)	\$ (15,500.00)	\$ (3.00)	\$ (25,200.00)

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BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NSO

	ITEM 32		ITEM 33	
	INSTALL SUPPLEMENTAL TIMBER JOISTS		ASPHALT CONCRETE PAVING	
	Lin. Ft. Approx. Qty. =	7000	Tons Approx. Qty. =	195
ENGINEERING ESTIMATE	\$ 30.00	\$ 210,000.00	\$ 100.00	\$ 19,500.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 20.00	\$ 140,000.00	\$ 390.00	\$ 76,050.00
2) REYES CONSTRUCTION	\$ 40.00	\$ 280,000.00	\$ 175.00	\$ 34,125.00
3) CONNOLLY-PACIFIC	\$ 26.50	\$ 185,500.00	\$ 260.00	\$ 50,700.00
4) JOHN S. MEEK COMPANY, INC.	\$ 28.30	\$ 198,100.00	\$ 168.00	\$ 32,760.00

1) AVERAGE BID	\$ 28.70	\$ 200,900.00	\$ 248.25	\$ 48,408.75
2) STANDARD DEVIATION	\$ 8.33	\$ 58,339.87	\$ 103.34	\$ 20,151.07
3) ENG. EST. - LOW BIDDER	\$ 10.00	\$ 70,000.00	\$ (290.00)	\$ (56,550.00)

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	ITEM 34		ITEM 35
	LUMP SUM CONSTRUCTION BERTHS 196-197 (DRAWING NO. 1-3049)		FURNISH AND APPLY SLURRY SEAL
	LUMP SUM	Sq. Yds. Approx. Qty. =	8400
ENGINEERING ESTIMATE	\$ 555,000.00	\$ 2.75	\$ 23,100.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 390,000.00	\$ 3.00	\$ 25,200.00
2) REYES CONSTRUCTION	\$ 340,000.00	\$ 1.00	\$ 8,400.00
3) CONNOLLY-PACIFIC	\$ 853,000.00	\$ 2.70	\$ 22,680.00
4) JOHN S. MEEK COMPANY, INC.	\$ 849,000.00	\$ 2.40	\$ 20,160.00

1) AVERAGE BID	\$ 608,000.00	\$ 2.28	\$ 19,110.00
2) STANDARD DEVIATION	\$ 281,338.47	\$ 0.88	\$ 7,430.56
3) ENG. EST. - LOW BIDDER	\$ 165,000.00	\$ (0.25)	\$ (2,100.00)

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	ITEM 36		ITEM 37	
	Lin. Ft. Approx. Qty. =		Lin. Ft. Approx. Qty. =	
ENGINEERING ESTIMATE	2.50	\$ 3,250.00	3.00	\$ 22,800.00
1) VORTEX MARINE CONSTRUCTION, INC.	8.00	\$ 10,400.00	2.00	\$ 15,200.00
2) REYES CONSTRUCTION	5.00	\$ 6,500.00	4.00	\$ 30,400.00
3) CONNOLLY-PACIFIC	11.00	\$ 14,300.00	2.20	\$ 16,720.00
4) JOHN S. MEEK COMPANY, INC.	3.50	\$ 4,550.00	1.20	\$ 9,120.00

1) AVERAGE BID	\$ 6.88	\$ 8,937.50	\$ 2.35	\$ 17,860.00
2) STANDARD DEVIATION	\$ 3.33	\$ 4,323.84	\$ 1.18	\$ 8,981.73
3) ENG. EST. - LOW BIDDER	\$ (5.50)	\$ (7,150.00)	\$ 1.00	\$ 7,600.00

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	ITEM 38		ITEM 39	
	REPAIRS TO UNDERMINING AT ROCK SLOPE WITH CONCRETE FILLED BAGS	REPAIRS TO UNDERMINING AT ROCK SLOPE WITH SLURRY FILL		
	Bags Approx. Qty. =	4700	Cu. Yds. Approx. Qty. =	200
ENGINEERING ESTIMATE	\$ 22.00	\$ 103,400.00	\$ 600.00	\$ 120,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 50.00	\$ 235,000.00	\$ 200.00	\$ 40,000.00
2) REYES CONSTRUCTION	\$ 30.00	\$ 141,000.00	\$ 300.00	\$ 60,000.00
3) CONNOLLY-PACIFIC	\$ 39.00	\$ 183,300.00	\$ 400.00	\$ 80,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 69.50	\$ 326,650.00	\$ 475.00	\$ 95,000.00

1) AVERAGE BID	\$ 47.13	\$ 221,487.50	\$ 343.75	\$ 68,750.00
2) STANDARD DEVIATION	\$ 17.01	\$ 79,954.70	\$ 119.68	\$ 23,935.68
3) ENG. EST. - LOW BIDDER	\$ (28.00)	\$ (131,600.00)	\$ 400.00	\$ 80,000.00

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	ITEM 40 CAST-IN-PLACE CONCRETE REPAIRS	ITEM 41 SHOTCRETE REPAIRS
	LUMP SUM	Cu. Ft. Approx. Qty. = 20
ENGINEERING ESTIMATE	\$ 25,000.00	\$ 1,540.00 \$ 30,800.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 10,000.00	\$ 250.00 \$ 5,000.00
2) REYES CONSTRUCTION	\$ 17,000.00	\$ 2,000.00 \$ 40,000.00
3) CONNOLLY-PACIFIC	\$ 17,100.00	\$ 2,465.00 \$ 49,300.00
4) JOHN S. MEEK COMPANY, INC.	\$ 12,860.00	\$ 2,200.00 \$ 44,000.00

1) AVERAGE BID	\$ 14,240.00	\$ 1,728.75	\$ 34,575.00
2) STANDARD DEVIATION	\$ 3,448.63	\$ 1,004.06	\$ 20,081.23
3) ENG. EST. - LOW BIDDER	\$ 15,000.00	\$ 1,290.00	\$ 25,800.00

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	ITEM 42		ITEM 43	
	EPOXY INJECTION REPAIRS		REPAIR TIMBER CROSS BRACING	
	Lin. Ft. Approx. Qty. =	60	Each Approx. Qty. =	2
ENGINEERING ESTIMATE	\$ 375.00	\$ 22,500.00	\$ 1,650.00	\$ 3,300.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 98.00	\$ 5,880.00	\$ 3,500.00	\$ 7,000.00
2) REYES CONSTRUCTION	\$ 375.00	\$ 22,500.00	\$ 5,100.00	\$ 10,200.00
3) CONNOLLY-PACIFIC	\$ 357.00	\$ 21,420.00	\$ 3,600.00	\$ 7,200.00
4) JOHN S. MEEK COMPANY, INC.	\$ 300.00	\$ 18,000.00	\$ 3,315.00	\$ 6,630.00

1) AVERAGE BID	\$ 282.50	\$ 16,950.00	\$ 3,878.75	\$ 7,757.50
2) STANDARD DEVIATION	\$ 127.09	\$ 7,625.20	\$ 822.68	\$ 1,645.36
3) ENG. EST. - LOW BIDDER	\$ 277.00	\$ 16,620.00	\$ (1,850.00)	\$ (3,700.00)

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	ITEM 44 REPLACE TIMBER CONNECTORS		ITEM 45 TIMBER PILE REPAIR WITH JACKET ENCASEMENT (JACK 2)	
	Each Approx. Qty. =		10 Each Approx. Qty. =	
ENGINEERING ESTIMATE	\$ 300.00	\$ 3,000.00	\$ 9,500.00	\$ 247,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 495.00	\$ 4,950.00	\$ 6,170.00	\$ 160,420.00
2) REYES CONSTRUCTION	\$ 1,000.00	\$ 10,000.00	\$ 9,100.00	\$ 236,600.00
3) CONNOLLY-PACIFIC	\$ 1,870.00	\$ 18,700.00	\$ 7,700.00	\$ 200,200.00
4) JOHN S. MEEK COMPANY, INC.	\$ 3,550.00	\$ 35,500.00	\$ 6,600.00	\$ 171,600.00

1) AVERAGE BID	\$ 1,728.75	\$ 17,287.50	\$ 7,392.50	\$ 192,205.00
2) STANDARD DEVIATION	\$ 1,340.41	\$ 13,404.13	\$ 1,308.01	\$ 34,008.27
3) ENG. EST. - LOW BIDDER	\$ (195.00)	\$ (1,950.00)	\$ 3,330.00	\$ 86,580.00

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BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 46		ITEM 47	
	TIMBER PILE SPLICE REPAIR		PATCH EXISTING TIMBER PILE PVC WRAP	
	Each Approx. Qty. =	29	Each Approx. Qty. =	150
ENGINEERING ESTIMATE	\$ 13,650.00	\$ 395,850.00	\$ 300.00	\$ 45,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 10,400.00	\$ 301,600.00	\$ 150.00	\$ 22,500.00
2) REYES CONSTRUCTION	\$ 16,000.00	\$ 464,000.00	\$ 370.00	\$ 55,500.00
3) CONNOLLY-PACIFIC	\$ 21,200.00	\$ 614,800.00	\$ 202.00	\$ 30,300.00
4) JOHN S. MEEK COMPANY, INC.	\$ 18,850.00	\$ 546,650.00	\$ 179.00	\$ 26,850.00

1) AVERAGE BID	\$ 16,612.50	\$ 481,762.50	\$ 225.25	\$ 33,787.50
2) STANDARD DEVIATION	\$ 4,655.53	\$ 135,010.37	\$ 98.82	\$ 14,822.64
3) ENG. EST. - LOW BIDDER	\$ 3,250.00	\$ 94,250.00	\$ 150.00	\$ 22,500.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 48		ITEM 49	
	REPAIR BROKEN OR DAMAGED PILE WRAP BANDS		TIMBER PILE TIDAL PVC WRAP	
	Each Approx. Qty. =	480	Each Approx. Qty. =	130
ENGINEERING ESTIMATE	\$ 300.00	\$ 144,000.00	\$ 650.00	\$ 84,500.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 185.00	\$ 88,800.00	\$ 600.00	\$ 78,000.00
2) REYES CONSTRUCTION	\$ 175.00	\$ 84,000.00	\$ 820.00	\$ 106,600.00
3) CONNOLLY-PACIFIC	\$ 140.00	\$ 67,200.00	\$ 820.00	\$ 106,600.00
4) JOHN S. MEEK COMPANY, INC.	\$ 245.00	\$ 117,600.00	\$ 725.00	\$ 94,250.00

1) AVERAGE BID	\$ 186.25	\$ 89,400.00	\$ 741.25	\$ 96,362.50
2) STANDARD DEVIATION	\$ 43.66	\$ 20,957.10	\$ 104.27	\$ 13,555.53
3) ENG. EST. - LOW BIDDER	\$ 115.00	\$ 55,200.00	\$ 50.00	\$ 6,500.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 50		ITEM 51	
	TIMBER PILE SUBMERGED PVC WRAP		TIMBER PILE ROCKLINE/MUDLINE CRATER DIGGING	
	Each Approx. Qty. =	60	Cu. Yds. Approx. Qty. =	80
ENGINEERING ESTIMATE	\$ 1,200.00	\$ 72,000.00	\$ 1,000.00	\$ 80,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 700.00	\$ 42,000.00	\$ 960.00	\$ 76,800.00
2) REYES CONSTRUCTION	\$ 730.00	\$ 43,800.00	\$ 1,000.00	\$ 80,000.00
3) CONNOLLY-PACIFIC	\$ 840.00	\$ 50,400.00	\$ 810.00	\$ 64,800.00
4) JOHN S. MEEK COMPANY, INC.	\$ 900.00	\$ 54,000.00	\$ 1,950.00	\$ 156,000.00

1) AVERAGE BID	\$ 792.50	\$ 47,550.00	\$ 1,180.00	\$ 94,400.00
2) STANDARD DEVIATION	\$ 93.59	\$ 5,615.16	\$ 519.81	\$ 41,584.61
3) ENG. EST. - LOW BIDDER	\$ 500.00	\$ 30,000.00	\$ 40.00	\$ 3,200.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 52		ITEM 53			
	BERTHS 196-197 RAMP SUPPORT REPAIRS		TIMBER CAP END REPAIRS			
	Each Approx. Qty. =		2 Each Approx. Qty. =			
ENGINEERING ESTIMATE	\$ 40,000.00	\$	\$ 80,000.00	\$ 3,985.00	\$	\$ 59,775.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 10,300.00	\$	20,600.00	\$ 1,600.00	\$	24,000.00
2) REYES CONSTRUCTION	\$ 9,500.00	\$	19,000.00	\$ 2,000.00	\$	30,000.00
3) CONNOLLY-PACIFIC	\$ 7,600.00	\$	15,200.00	\$ 1,300.00	\$	19,500.00
4) JOHN S. MEEK COMPANY, INC.	\$ 7,650.00	\$	15,300.00	\$ 1,489.00	\$	22,335.00

1) AVERAGE BID	\$ 8,762.50	\$	17,525.00	\$ 1,597.25	\$	23,958.75
2) STANDARD DEVIATION	\$ 1,353.62	\$	2,707.24	\$ 295.69	\$	4,435.29
3) ENG. EST. - LOW BIDDER	\$ 29,700.00	\$	59,400.00	\$ 2,385.00	\$	35,775.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 54	ITEM 55	ITEM 56
	FURNISH AND INSTALL NEW RUBBER FENDERS	REPAIR EXISTING RUBBER FENDERS	REMOVE AND REPLACE UTILITY COVERS
	Each Approx. Qty. = 4	LUMP SUM	LUMP SUM
ENGINEERING ESTIMATE	\$ 35,000.00	\$ 31,200.00	\$ 5,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 9,750.00	\$ 17,000.00	\$ 4,700.00
2) REYES CONSTRUCTION	\$ 9,700.00	\$ 14,000.00	\$ 4,000.00
3) CONNOLLY-PACIFIC	\$ 11,600.00	\$ 12,000.00	\$ 1,400.00
4) JOHN S. MEEK COMPANY, INC.	\$ 29,550.00	\$ 79,000.00	\$ 1,200.00

1) AVERAGE BID	\$ 15,150.00	\$ 60,600.00	\$ 30,500.00	\$ 2,825.00
2) STANDARD DEVIATION	\$ 9,640.63	\$ 38,562.50	\$ 32,398.56	\$ 1,785.82
3) ENG. EST. - LOW BIDDER	\$ 25,250.00	\$ 101,000.00	\$ 14,200.00	\$ 300.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 57 TREATED WOOD WASTE TRANSPORTATION AND DISPOSAL LUMP SUM	ITEM 58 OIL LINES REMOVAL AND DISPOSAL LUMP SUM	ITEM 59 MOLASSES LINES REMOVAL AND DISPOSAL LUMP SUM
ENGINEERING ESTIMATE	\$ 200,000.00	\$ 325,000.00	\$ 250,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 15,000.00	\$ 140,000.00	\$ 135,000.00
2) REYES CONSTRUCTION	\$ 65,000.00	\$ 200,000.00	\$ 180,000.00
3) CONNOLLY-PACIFIC	\$ 20,300.00	\$ 202,800.00	\$ 101,400.00
4) JOHN S. MEEK COMPANY, INC.	\$ 11,500.00	\$ 315,000.00	\$ 251,000.00

1) AVERAGE BID	\$ 27,950.00	\$ 214,450.00	\$ 166,850.00
2) STANDARD DEVIATION	\$ 24,963.51	\$ 73,024.27	\$ 64,684.54
3) ENG. EST. - LOW BIDDER	\$ 185,000.00	\$ 185,000.00	\$ 115,000.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 60 ELECTRICAL AND TELEPHONE LINES REMOVAL AND DISPOSAL LUMP SUM	ITEM 61 REMOVAL AND DISPOSAL OF BLACK COATING ON CONCRETE LUMP SUM	ITEM 62 DEMOLISH AND DISPOSE OFF DEPARTMENT PROPERTY ASPHALT CONCRETE PAVEMENT 2 INCHES TO 5 INCHES THICK Cu. Yds. Approx. Qty. =
ENGINEERING ESTIMATE	\$ 125,000.00	\$ 200,000.00	\$ 55.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 85,000.00	\$ 15,000.00	\$ 160.00
2) REYES CONSTRUCTION	\$ 50,000.00	\$ 40,000.00	\$ 270.00
3) CONNOLLY-PACIFIC	\$ 47,300.00	\$ 40,600.00	\$ 215.00
4) JOHN S. MEEK COMPANY, INC.	\$ 89,000.00	\$ 41,000.00	\$ 380.00

1) AVERAGE BID	\$ 67,825.00	\$ 34,150.00	\$ 256.25	\$ 33,312.50
2) STANDARD DEVIATION	\$ 22,228.87	\$ 12,773.28	\$ 93.93	\$ 12,210.95
3) ENG. EST. - LOW BIDDER	\$ 40,000.00	\$ 185,000.00	\$ (105.00)	\$ (13,650.00)

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 63		ITEM 64	
	REMOVE EXISTING, AND INSTALL NEW, TIMBER DECKING	INSTALL SUPPLEMENTAL TIMBER JOISTS		
	Sq. Ft. Approx. Qty. = 14000		Ln. Ft. Approx. Qty. = 9500	
ENGINEERING ESTIMATE	\$ 30.00	\$ 420,000.00	\$ 30.00	\$ 285,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 33.00	\$ 462,000.00	\$ 20.00	\$ 190,000.00
2) REYES CONSTRUCTION	\$ 40.00	\$ 560,000.00	\$ 40.00	\$ 380,000.00
3) CONNOLLY-PACIFIC	\$ 56.75	\$ 794,500.00	\$ 21.60	\$ 205,200.00
4) JOHN S. MEEK COMPANY, INC.	\$ 42.75	\$ 598,500.00	\$ 29.00	\$ 275,500.00

1) AVERAGE BID	\$ 43.13	\$ 603,750.00	\$ 27.65	\$ 262,675.00
2) STANDARD DEVIATION	\$ 9.97	\$ 139,547.18	\$ 9.12	\$ 86,630.76
3) ENG. EST. - LOW BIDDER	\$ (3.00)	\$ (42,000.00)	\$ 10.00	\$ 95,000.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 65 ASPHALT CONCRETE PAVING		ITEM 66 RENAIL TIMBER PILE PVC WRAP	
	Tons Approx. Qty. =	300	Each Approx. Qty. =	200
ENGINEERING ESTIMATE	\$ 100.00	\$ 30,000.00	\$ 150.00	\$ 30,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 290.00	\$ 87,000.00	\$ 100.00	\$ 20,000.00
2) REYES CONSTRUCTION	\$ 150.00	\$ 45,000.00	\$ 120.00	\$ 24,000.00
3) CONNOLLY-PACIFIC	\$ 222.00	\$ 66,600.00	\$ 300.00	\$ 60,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 160.00	\$ 48,000.00	\$ 175.00	\$ 35,000.00
1) AVERAGE BID	\$ 205.50	\$ 61,650.00	\$ 173.75	\$ 34,750.00
2) STANDARD DEVIATION	\$ 64.71	\$ 19,413.65	\$ 89.94	\$ 17,988.42
3) ENG. EST. - LOW BIDDER	\$ (190.00)	\$ (57,000.00)	\$ 50.00	\$ 10,000.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 67 CORE SAMPLES (CONTINGENCY ITEM)		ITEM 68 CONSTRUCT FULL SPAN CAP BEAM REPAIR (CONTINGENCY ITEM)	
	Cores Approx. Qty. =		20] Each Approx. Qty. =	
ENGINEERING ESTIMATE	\$ 350.00	\$ 7,000.00	\$ 10,500.00	\$ 105,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 240.00	\$ 4,800.00	\$ 9,300.00	\$ 93,000.00
2) REYES CONSTRUCTION	\$ 275.00	\$ 5,500.00	\$ 10,000.00	\$ 100,000.00
3) CONNOLLY-PACIFIC	\$ 300.00	\$ 6,000.00	\$ 26,900.00	\$ 269,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 450.00	\$ 9,000.00	\$ 52,000.00	\$ 520,000.00

1) AVERAGE BID	\$ 316.25	\$ 6,325.00	\$ 24,550.00	\$ 245,500.00
2) STANDARD DEVIATION	\$ 92.50	\$ 1,850.00	\$ 20,027.40	\$ 200,273.98
3) ENG. EST. - LOW BIDDER	\$ 110.00	\$ 2,200.00	\$ 1,200.00	\$ 12,000.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 69 CONSTRUCT PARTIAL CAP BEAM REPLACEMENT (CONTINGENCY ITEM)		ITEM 70 FRONT MARGINAL BEAM REPAIR (CONTINGENCY ITEM)	
	Each Approx. Qty. =		10 Each Approx. Qty. =	
ENGINEERING ESTIMATE	\$ 6,500.00	\$	\$ 65,000.00	\$ 4,500.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 4,000.00	\$	40,000.00	\$ 7,000.00
2) REYES CONSTRUCTION	\$ 9,800.00	\$	98,000.00	\$ 11,800.00
3) CONNOLLY-PACIFIC	\$ 10,200.00	\$	102,000.00	\$ 6,900.00
4) JOHN S. MEEK COMPANY, INC.	\$ 8,500.00	\$	85,000.00	\$ 21,000.00

1) AVERAGE BID	\$ 8,125.00	\$	81,250.00	\$ 11,675.00	\$	93,400.00
2) STANDARD DEVIATION	\$ 2,844.15	\$	28,441.46	\$ 6,623.88	\$	52,991.07
3) ENG. EST. - LOW BIDDER	\$ 2,500.00	\$	25,000.00	\$ (2,500.00)	\$	(20,000.00)

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 71 PERFORM UNFORESEEN UTILITY AND SUBSTRUCTURE MODIFICATIONS, REMOVALS, AND ADDITIONS (ALLOWANCE ITEM)	ITEM 72 UNFORESEEN WATERSIDE RELATED WORK (ALLOWANCE ITEM)	ITEM 73 UNFORESEEN LANDSIDE RELATED WORK (ALLOWANCE ITEM)
ENGINEERING ESTIMATE	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
2) REYES CONSTRUCTION	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
3) CONNOLLY-PACIFIC	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00

1) AVERAGE BID	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
2) STANDARD DEVIATION	\$ -	\$ -	\$ -
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ -

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 74 PREMIUM TIME (ALLOWANCE ITEM)	ITEM 75 ADDITIONAL UNFORESEEN CONTAMINATION (ALLOWANCE ITEM)	ITEM 76 PARTNERING FACILITATOR (ALLOWANCE ITEM)
ENGINEERING ESTIMATE	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00
2) REYES CONSTRUCTION	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00
3) CONNOLLY-PACIFIC	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00
4) JOHN S. MEEK COMPANY, INC.	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00

1) AVERAGE BID	\$ 50,000.00	\$ 50,000.00	\$ 20,000.00
2) STANDARD DEVIATION	\$ -	\$ -	\$ -
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ -

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	ITEM 77 UNFORESEEN REGULATORY WORK (ALLOWANCE ITEM)	ITEM 78 INTERNET-BASED PROJECT COLLABORATION (ALLOWANCE ITEM)	GRAND TOTAL BID ITEMS 1-78
ENGINEERING ESTIMATE	\$ 100,000.00	\$ 25,000.00	\$ 9,246,320.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$ 100,000.00	\$ 25,000.00	\$ * \$6,071,480.00 6,081,480.00
2) REYES CONSTRUCTION	\$ 100,000.00	\$ 25,000.00	\$ 8,258,525.00
3) CONNOLLY-PACIFIC	\$ 100,000.00	\$ 25,000.00	\$ 10,370,060.00
4) JOHN S. MEEK COMPANY, INC.	\$ 100,000.00	\$ 25,000.00	\$ 10,481,965.00

1) AVERAGE BID	\$ 100,000.00	\$ 25,000.00	\$ 8,798,007.50
2) STANDARD DEVIATION	\$ -	\$ -	\$ 2,079,873.79
3) ENG. EST. - LOW BIDDER	\$ -	\$ -	\$ 3,164,840.00

* AS IN BID

SPECIFICATION NO. 2766
BERTHS 196-199 WHARF REHABILITATION
PROJ. CONST. MGR.: PHONG NGO

	LOCAL BUSINESS PREFERENCE	REDUCED BID AMOUNT
		GRAND TOTAL SUM LESS LOCAL BUSINESS PREFERENCE
ENGINEERING ESTIMATE	\$0.00	\$9,246,320.00
1) VORTEX MARINE CONSTRUCTION, INC.	\$0.00	\$6,081,480.00
2) REYES CONSTRUCTION	\$660,682.00	\$7,597,843.00
3) CONNOLLY-PACIFIC	\$829,604.00	\$9,540,456.00
4) JOHN S. MEEK COMPANY, INC.	\$838,557.20	\$9,643,407.80

1) AVERAGE BID	\$	582,210.80	\$	8,215,796.70
2) STANDARD DEVIATION	\$	396,671.16	\$	1,705,869.31
3) ENG. EST. - LOW BIDDER	\$	-	\$	3,164,840.00

* AS IN BID


SHAUN SHARESTANI
 Chief Harbor Engineer
 Construction Division