RESOLUTION NO. 16-112

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AWARDING THE BID OF SHORELINE FOUNDATION, INC. FOR REPAIRS AND IMPROVEMENTS AT ZERO DUVAL SEAWALL AND MALLORY SQUARE T-PIER, IN AN AMOUNT NOT TO EXCEED \$1,418,469.00 IN ACCORDANCE WITH THE TERMS SPECIFIED IN ITB 002-16; AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT ON BEHALF OF THE CITY OF KEY WEST IN SUBSTANTIAL CONFORMANCE WITH DOCUMENTS CONTAINED IN THE BID PACKAGE, UPON ADVICE AND CONSENT OF THE CITY ATTORNEY; AUTHORIZING A WAIVER OF CODE OF ORDINANCES SECTION 2-845, TO AUTHORIZE THE CITY MANAGER TO ALLOCATE AN UNFORESEEN CONDITIONS ALLOWANCE AS NECESSARY; PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the City issued Invitation to Bid #002-16 for Repairs and Improvements at Zero Duval Seawall and Mallory Square T-Pier and five firms submitted responses on March 2, 2016; and

WHEREAS, city staff reviewed the responses, and CH2MHILL, the design and permitting engineer of record for the project, recommended award of the bid to the lowest responsive bidder, Shoreline Foundation, Inc.; and

WHEREAS, included in the contract award is an Unforeseen Condition Allowance in the amount of \$125,000.00, and staff recommends the waiver of section 2-845 of the Code of Ordinances, to authorize the City Manager to allocate that Unforeseen Conditions Allowance as necessary.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AS FOLLOWS:

Section 1: That the bid of Shoreline Foundation, Inc. for Repairs and Improvements at Zero Duval Seawall and the Mallory Square T-Pier, in an amount not to exceed \$1,418,469.00, in accordance with ITB No.002-16, is hereby awarded.

Section 2: That the City Manager is authorized to execute a contract in substantial conformance with documents contained in the bid package on behalf of the City of Key West, upon advice and consent of the City Attorney.

Section 3: That section 2-845 of the Code of Ordinances is hereby waived, to allow the City Manager to allocate an Unforeseen Conditions Allowance of up to \$125,000.00 as necessary.

Section 4: That this Resolution shall go into effect immediately upon its passage and adoption and authentication by the signature of the Presiding Officer and the Clerk of the Commission.

this <u>5th</u> day of <u>April</u> , 2016.	٠. ٠		
Authenticated by the Presiding Office	r and (Clerk of	the
Commission on 6th day of April,	2016.		
Filed with the Clerk on April 6		, 2016.	
Mayor Craig Cates	Yes		
Commissioner Sam Kaufman	Yes	-	
Commissioner Clayton Lopez	Yes	_	
Commissioner Richard Payne	Yes		
Commissioner Margaret Romero	Yes	_	
Commissioner Billy Wardlow	Yes	_	
Commissioner Jimmy Weekley	Yes	_	
	11		
Custo	4/		
APPEST:	AYOR		
CHERYL SMITH, CITY CLERK			



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

TO:

Jim Scholl, City Manager

FROM:

Jim Bouquet, P.E., Director of Engineering

CC:

Greg Veliz, Assistant City Manager

Sarah Spurlock, Assistant City Manager

DATE:

Revised March 28, 2016

SUBJECT:

Bid Award for Repairs and Improvements at Zero Duval and Mallory Square in the amount of \$1,418,469.00 to Shoreline Foundation, Inc.

ACTION STATEMENT:

Authorize the City Manager to execute a contract for construction of *Repairs and Improvements at Zero Duval Seawall and the Mallory Square T-Pier* in the amount of \$1,418,469.00 to Shoreline Foundation, Inc. and provide for any necessary budget transfers/amendments. Waiving Key West Code Section 2-845 and authorize the City Manager to allocate the Unforeseen Conditions Allowance as necessary.

BACKGROUND:

CH2M Hill, under Resolution 12-168, substantially completed the design and permitting for the Repairs at Zero Duval and Mallory Square T-Pier. The projects were placed on hold while awaiting grant funding. Subsequently, the City Commission (Resolution 14-266) accepted \$762,000 in Florida Department of Transportation (FDOT) Joint Participation Agreement grant funding for the Mallory Square portion of the project. With grant funding now available, CH2M Hill (under Resolution 15-138) updated/finalized a single set of bid documents (dated January 2016) encompassing both the Zero Duval Seawall and the Mallory Square T-Pier projects. The project was subsequently bid as Invitation to Bid (ITB) 002-16.

The following base bids for construction were received:

 Shoreline Foundation, Inc.
 \$1,618,469.00

 Orion Marine Construction, Inc.
 \$2,028,628.00

 Douglas N. Higgins, Inc.
 \$2,121,400.00

 American Bridge
 \$2,143,000.00

 Inland Construction & Engineering, Inc.
 \$2,772,000.00

The formal bid tabulation dated March 2, 2016 is attached.

Zero Duval and Mallory Square Revised March 18, 2016 Page 2

Bids received were reviewed by CH2M Hill (see attached recommendation letter dated March 9, 2016 and cost estimate dated March 10, 2016) and City staff. Based on this review, Shoreline Foundation, Inc. is recommended for contract award in the amount of:

 Lump Sum Base Bid Zero Duval:
 \$815,694.00

 Lump Sum Base Bid Mallory:
 \$562,775.00

 Permit Allowance:
 \$40,000.00

 Total Contract Award
 \$1,418,469.00

An Unforeseen Condition Allowance of \$125,000.00 is recommended by CH2M Hill to address possible unforeseen conditions (e.g., unsuitable soils, buried structures, petroleum contamination, etc.) and conflicts (e.g., underground utilities) encountered during construction. City Manager execution of change orders necessary to allocate this allowance in accordance with the ITB requires waiving Key West Code Section 2-285. This code section limits the City Manager's authority to approve change orders to 5% of the contract price or \$25,000.00, whichever is less. Allowing the City Manager to approve up to \$125,000.00 will provide for timely processing of change requests for unforeseen conditions, minimizing project delays in this time critical project and mitigating contractor general conditions charges to the City.

Staff is not recommending inclusion of the Concrete and Utility Allowance (\$75,000) due to budgetary constraints and that adequate project contingency should be available via the Unforeseen Conditions Allowance. Staff reserves the option to exercise Add Alternate No. 1 to replace timber piles at a later date following procurement of additional permits.

PURPOSE & JUSTIFICATION:

This project supports Goal #4 of the 2011 Key West Strategic Plan, specifically: Long term sustainability of the City's hard assets.

The seawall bulkhead and stormwater outfall pipe located at Zero Duval are in poor condition and undermining of the adjacent roadway is occurring. Under this project component, the bulkhead will be replaced, outfall repaired (including tide valve installation) and roadway stabilized.

The northern section of the T-Pier is cracked due to cruise ship movement while docked. This action is compromising the integrity of the entire pier. This project component will remove the damaged section of pier and construct a new section designed to withstand cruise ship action

Approval of this Task Order will facilitate construction to commence late April 2016 and conclude November 2016. Work has been coordinated with effected parties including Ports (cruise ship schedules), Fury Watersports (tenant at Zero Duval), Ocean Key and the Pier House.

FINANCIAL IMPACT:

This project will be funded as Project EN1002 Zero Duval Seawall Replacement/Mallory Pier Fender Rearrangement under account #101-1900-519-6300. The available funds of \$1,745,873.00 include

Zero Duval and Mallory Square Revised March 18, 2016 Page 3

the \$762,000 FDOT grant. Additionally, \$85,000.00 for repairs to the stormwater outfall will be funded from Project ST1301, Storm Flow Way Maintenance, under account #402-3802-538-6500.

RECOMMENDATION:

Staff recommends authorizing the City Manager to execute a contract for construction of *Repairs and Improvements at Zero Duval Seawall and the Mallory Square T-Pier* in the amount of \$1,418,469.00 to Shoreline Foundation, Inc. and provide for any necessary budget transfers/amendments. Also, recommend waiving Key West Code Section 2-845 and authorize the City Manager to allocate the Unforeseen Conditions Allowance as necessary.

INTEROFFICE MEMORANDUM

To: L. Kreed Howell, Engineering Project Manager

CC: James Bouquet, Director of Engineering

Sue Snider, Purchasing

From: Cheri Smith, City Clerk

Date: March 2, 2016

Subject: REPAIRS AND IMPROVEMENTS AT ZERO DUVAL

AND MALLORY SQUARE; BID 002-16

The following bids were opened Wednesday, March 22, 2016 at 3:00 p.m. in response to the above referenced project.

1. American Bridge Total: \$2,143,000.00 5411 West Tyson Avenue Alt. Bid: \$2,700.00 Tampa, FL 33611

2. Douglas N. Higgins, Inc. Total: \$2,121,400.00
3390 Travis Pointe Road Alt. Bid: \$9,600.00
Suite A
Ann Arbor, MI 48108

Inland Construction & Engineerings, Inc.
 309 East 11th Street
 Panama City, FL 32401
 Total: \$2,772,000.00
 Alt. Bid: \$9500.00

4. Orion Marine Construction, Inc. Total: \$2,028,628.00 5440 Tyson Avenue Alt. Bid: \$5,568.00 Tampa, FL 33611

5. Shoreline Foundation, Inc.

2781 SW 56th Avenue
Pembroke Park, FL 33023

Total: \$1,618,469.00
Alt. Bid: \$3,971.00



CH2M Key West 6410 5° St. Suite 2-A Key West, FL. 33042 0 +1 305 432 9124 www.ch2m.com

March 9, 2016

Mr. James Bouquet, P.E. Engineering Director City of Key West 3140 Flagler Avenue Key West, FL 33040

Re: Contractor Recommendation of Award for Repairs and Improvements at Zero Duval and Mallory Square

Dear Mr. Bouquet:

Five (5) bids were received for the subject contract on March 2, 2016 and are summarized in the attached Bid Results Summary Tables 1 and 2. All bids included a signed proposal and all required forms, as listed in the Bidder's Checklist, specification 00 44 00.

The apparent low bidder, Shoreline Foundation Inc. has identified recent construction experience working on similar projects in Florida as well as Texas and Pennsylvania. Select references provided as part of Shoreline's Bid were contacted by Casey Long, and a summary of the discussions are included as Attachment 1.

Based on Bid reviews, and conversations with references (attachment 1) we see no reason to preclude that the City award the *Repairs and Improvements at Zero Duval and Mallory Square* contract to **Shoreline Foundation Inc.**, in the amount of \$1,618,469.00. Note that this total does not include the Additive Alternate/Timber Piles \$3,971 each. If the city chooses to move forward with all four (4) possible piles, the contract award amount presented to the City Commission for award would need to be \$1,634,353.00.

Please call me if you have any questions or need additional information.

Sincerely,

CH2M HILL

Sean McCoy, P.E.

cc: File



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Table 1: Bid Results Summary

BIDDER	Total Lump Sum (A and B)	Unforeseen Conditions Allowance (C)	Permit Allowance (D)	Concrete & Utility Allowance (E)	TOTAL BASE BID (A-E)	Additive Alternate Bid (ea)	Total Base Bid w/ Add Alt
Douglas N. Higgins, Inc.	\$1,881,400.00	\$125,000.00	\$40,000.00	\$75,000.00	\$2,121,400.00	\$9,600.00	\$2,131,000.00
American Bridge Company	\$1,903,000.00	\$125,000.00	\$40,000.00	\$75,000.00	\$2,143,000.00	\$2,700.00	\$2,145,700.00
Shoreline Foundation INC.	\$1,378,469.00	\$125,000.00	\$40,000.00	\$75,000.00	\$1,618,469.00	\$3,971.00	\$1,622,440.00
Inland Const & Eng INC.	\$2,532,000.00	\$125,000.00	\$40,000.00	\$75,000.00	\$2,772,000.00	\$9,500.00	\$2,781,500.00
Orion Marine Construction INC	\$1,788,628.00	\$125,000.00	\$40,000.00	\$75,000.00	\$2,028,628.00	\$5,568.00	\$2,034,196.00



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\$1,622,440 | \$2,781,500.00 | \$2,034,196.00

Table 2: Bid Form Comparison

	Item	D.N. Higgins	American Bridge Company	Shoreline Foundation	Inland Const & Engineering INC	Orion Marine Const INC
A.	Zero Duval	#00 000 00	A405 000 00	Are 000 00	*105 000 00	\$404 F07 00
1	Mobilization	\$80,000.00	\$125,000.00	\$59,326.00	\$135,000.00	\$124,597.00
2	Demolition Wooden Deck	\$40,000.00	\$10,000.00	\$33,922.00	\$40,000.00	\$80,805.00
3	Demo/Re	\$35,000.00	\$90,000.00	\$59,314.00	\$200,000.00	\$142,441.00
4	Sheet Piles	\$180,000.00	\$150,000.00	\$115,382.00	\$350,000.00	\$113,226.00
5	Tie Backs and Walers	\$150,000.00	\$135,000.00	\$168,612.00	\$187,000.00	\$187,392.00
6	Concrete Cap	\$74,000.00	\$85,000.00	\$93,503.00	\$250,000.00	\$80,952.00
	Backfill/Flowable		THE RESERVE			
7	Fill Drainage Pipe Ext n	\$52,000.00	\$50,000.00	\$56,803.00	\$145,000.00	\$103,555.00
8	Repair	\$210,000.00	\$100,000.00	\$204,362.00	\$180,000.00	\$101,375.00
9	Misc General	\$70,000.00	\$30,000.00	\$13,421.00	\$50,000.00	\$4,766.00
10	Proj Close / Demob	\$15,000.00	\$5,000.00	\$11,049.00	\$35,000.00	\$12,471.00
	Subtotal "A"	\$906,000.00	\$780,000.00	\$815,694.00	\$1,572,000.00	\$951,580.00
B.	Mallory	MARE THE UNITED	EDAL WITH PROPERTY.	E Marie New	A STATE OF THE SAME	
1	Mobilization	\$90,000.00	\$250,000.00	\$48,526.00	\$120,000.00	\$177,040.00
2	Demolition	\$11,000.00	\$75,000.00	\$37,286.00	\$50,000.00	\$66,798.00
3	Piling	\$583,900.00	\$380,000.00	\$208,306.00	\$450,000.00	\$307,320.00
4	Concrete	\$187,000.00	\$378,000.00	\$227,701.00	\$250,000.00	\$246,423.00
5	Fenders	\$3,500.00	\$15,000.00	\$16,859.00	\$15,000.00	\$8,832.00
6	Misc General Proj Close /	\$50,000.00	\$20,000.00	\$13,048.00	\$40,000.00	\$3,113.00
7	Demob	\$50,000.00	\$5,000.00	\$11,049.00	\$35,000.00	\$27,522.00
	Subtotal "B"	\$975,400.00	\$1,123,000.00	\$562,775.00	\$960,000.00	\$837,048.00
	Unforeseen				4407.000.00	A405 000 00
C.	Conditions Permit	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00
D.	Allowance Conc & Util.	\$40,000.00	\$40,000.00	\$40,000.00	\$40,000.00	\$40,000.00
E.	Allowance	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00
Tota	al Base Bid (A-E)	\$2,121,400.00	\$2,143,000.00	\$1,618,469.00	\$2,772,000.00	\$2,028,628.00
1	Alt New Timber s (EA)	\$9,600.00	\$2,700.00	\$3,971.00	\$9,500.00	\$5,568.00
Ext	ended Total (A-E +		Man Harris	THE STATE OF	1897 Q V5 (S.)	THE REAL PROPERTY.

\$2,145,700

\$2,131,000

Add Alt)



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Attachment 1:

Reference Verification Summary

Pursuant to our discussion, I had a conversation with Gary Ledford in our Canaveral office regarding Shoreline Foundation and their work on the Cruise Terminal 10 project at Canaveral. Based upon my discussions with Gary, he indicated that the end product prepared by Shoreline was of reasonable quality and the contractor delivered the project per the plans and specifications. He indicated that the contractor required a little more supervision than normal to ensure that they were staying on schedule as well as thinking ahead on various pieces and parts of the work. There were a couple items that he indicated the contractor struggled with technically however, in the end they followed through and completed the work correctly.

I also had a conversation with Tom Lundeen, the Chief Engineer at the Port of Palm Beach, regarding the Slip No. 3 Project. He too indicated that the project was completed to reasonable quality, however also indicated that the project as a whole, required supervision to make sure that the project was staying on schedule. The administrative side was a little slow to keep up with the pace and he has yet to close out the project because of paperwork he still needs. He indicated that the contractor did good work, however did require supervision at various stages throughout the work more than other Marine contractors.

Based upon these recommendations and discussion with our Cost Estimator, I see no reason to preclude award to Shoreline Foundation; however recommend that the City be made aware that this Contractor may require additional hand-holding, possibly more than they may want to provide.

Sincerely, Casey Long

Repairs and Improvements

At

Zero Duval and Mallory Square City of Key West, FL

BASIS OF ESTIMATE



Estimate ID: 16-009

Project Name: Repairs and improvements at Zero Duval and Mallory Sq.

Class Estimate: Class 1 for a 100% Design Submittal

Requested By: Casey Long/CH2M HILL/West Palm Beach

Estimated By: Jorge Abisambra/CH2M HILL/TPA

Estimator Phone: 813-281-7922

Estimated QC By: Casey Long/CH2M HILL/WPB

Estimate Date: March 10th, 2016

Jorge Abisambra /TPA Estimator

Purpose of Estimate

The purpose of this estimate is to provide the engineer's opinion on the probable cost for the City of Key West Repairs and Improvements to Zero Duval and Mallory Square, located in Key West, Florida.

General Project Description

Develop construction documents for competitive bidding of the proposed bulkhead repair and pile supported mooring dolphin and associated upland improvements. The improvements at Zero Duval include the partial demolition of the existing facilities in the area, the construction of a new steel sheet pile bulkhead, concrete cap, and soil anchors. Site restoration and restoration of the existing timber dock will also be required. The construction at Mallory Square involves the partial demolition of the T-Pier structure, installation of concrete drilled shafts, the construction of a new dolphin and structure, and re-installation of an existing fender.

Project Purpose and Need

This estimate is based on the new design by CH2MHILL offices in West Palm Beach and Jacksonville

Overall Costs

The following is a summary breakdown of the costs including contingency and escalation with an accuracy range per the AACE standard guidelines for a class 1 estimate. See Appendix "A" for cost estimate summary, Appendix "B" for bid item breakdown. At this level of 100% design a +10% and -5% accuracy contingency is recommended. The estimate range is as follows:

Low Range	Estimate Range	High Range
-5%	Total: \$1,644,374.00	+10%
\$1,562,155.00		\$1,808,811.00

Project Schedule

The estimate is based on working 5 days a week, 10 hour day shifts (5-10's). The estimate also assumes that the work will be carried out in the second half of 2016. No detail P-6 schedule is provided.

Markups/Allowances

The following typical contractor and owner's markups where applied to the Cost Estimate:

Contractor Indirect Cost	12%
Profit Mark Up	18%
Subcontracts Mark Up	18%
Contractor's Contingency	3.0%
Project Construction Contingency	15%
Builder's Risk	0.75%
Payment and Performance Bond	12/1000

These markups and allowances represent the contractor's normal cost of doing business, the engineer's cost to provide oversight on behalf of the owner during the work, and an amount to cover the uncertainties for the work. Definitions for each category are provided below:

- CONTRACTOR INDIRECT COST: Indirect costs: are also known as fixed costs.
 These costs are not directly related to a particular function or product. Indirect costs
 include taxes, administration, and personnel. Indirect costs are frequently referred to
 as general overhead expenses (for example, rent and utilities) of running a business,
 and general and administrative expenses (for example, officers' salaries, accounting
 department costs and personnel department costs, maintenance of equipment,
 support from the home office).
- PROFIT MARKUP: This factor involves how much money the contractor wants to make. It is based on general market conditions, competition, risk involved, weather conditions, and logistic involved.
- SUBCONTRACTS MARKUP: This markup is applied by the prime contractor to subcontractors who will provide special support.
- CONTRACTOR CONTINGENCY: A contingency is applied to the overall project
 to account for uncertainties in completing the project. The percent uncertainty is
 defined in general accordance with ASTM E2516-11 Cost Estimate Classification System
 for a Class 1 estimate.
- ENGINEERING DESIGN AND CONTRUCTION SUPPORT: This fee covers
 engineering and construction above those cost covered by the Project Management
 Consultant (PMC). It covers cost to provide review of contractor submittals and
 provides oversight on behalf of the owner during setup and performance of the test
 pile program.

Escalation Rate

There is a 2 year escalation applied to this estimate on materials (1.5%/year); 1% on equipment and subcontracts (1.00%/year). Labor rates were manually changed to current labor rates applicable in Florida

Market Conditions

Costs are based on market conditions in the U.S. The current market conditions are drastically affecting the construction market. This is based upon recent bids in the U.S., and comparisons with Engineer's Estimates. Bids can be very erratic. Despite the estimator's best practices and adjustments, bids are being driven by current market conditions.

Estimate Classification

This cost estimate prepared is considered a Class 4 estimate, as defined by the American Association of Cost Engineering (AACE). It is considered accurate to -5% to +10%, based upon CH2M HILL engineering services.

The estimate is based on material, equipment, and labor pricing as of March 2016.

Estimate Methodology

This cost estimate is considered a Cost-based estimate, with portion of it being a Historical bid-based estimate based on an inspection condition report.

Historical bid-based methods are commonly used to develop Engineer's Estimates, and are appropriate when a design has advanced to the point where the quantification of units of work is possible. These methods apply historical unit costs to counts or measures of work items to determine a total cost for the item or project. Techniques such as historical bid pricing, historical percentage, and cost based estimating are also used to determine unit prices.

Cost-based estimate methods do not rely on historical bid data, but rather are based on determining, for an item or set of items, the contractor's cost for labor, equipment, materials and specialty subcontractor effort (if appropriate) needed to complete the work. A reasonable amount for contractor overhead and profit is then added. This method is preferable on unique projects or where geographical influences, market factors, and volatility of material prices can cause the use of historical bid-based methods to be unreliable. Also, since contractors generally utilize a cost-based estimating approach to prepare bids, this method can provide more accurate and defensible costs to support the decision for contract award/rejection and to support any future price negotiations with the contractor after contract award.

Quantity take offs and assumptions: A detailed takeoff was performed by CH2M HILL in April of 2015 from the supplied set of drawings in the reference document.

The crew productivity was assumed from typical experiences, and prices were quoted by specialty suppliers or taken from historical real projects recently executed in Florida.

Cost Resources

The following is a list of the various cost resources used in the development of the cost estimate.

- CH2M HILL historical data
- R.S. Means
- Estimator judgment
- Specialty vendors and suppliers

Labor Costs

Labor unit prices reflect a burdened rate, including workers compensation, FICA, unemployment taxes, Fringe Benefits, small tools & supplies, and travel allowance. Labor rates are based upon Florida and Texas Gulf Coast costs and per diem for specialty crafts when applicable.

Major Assumptions

The estimate is based on the assumption that the work will be done on a competitive bid basis, and the contractor will have a reasonable amount of time to complete the work by working five (5) days a week at 10 hours per day.

This estimate should be evaluated for market changes after 90 days of the issue date. It is assumed that most of the materials will be purchased and shipped locally. This estimate also assumes that all work will be executed by a local contractor under competitive bid conditions. Additional assumptions are as follows:

- Local sales taxes of 6.5% are applicable.
- Design and owner's risk of 15%
- Mobilization of a local contractor will from as far as Miami, including local contractors.
- The contractor shall accommodate emergency egress from the work area at all times.
 Contractor will have access and control of construction site during construction.
- Owner will coordinate with contractor and provide adequate notification when it is necessary to perform operations within the construction area.
- Contractor will accommodate owner access in the construction area in the event of an emergency.
- Specialty subcontractors will perform own relocation and improvements.
- Site access for the contractor and contractor staging areas are adequate for the contractor's needs.
- Estimate is based on bid-build delivery.

Excluded Costs

The cost estimate excludes the following costs:

- Soft costs for legal costs.
- Soft costs for design, construction management.
- No stand-by rate to cover the operational days was developed for the combination of crews on site if an unplanned standby happens.
- Material adjustment allowances above and beyond what is included at the time of the cost estimate.
- Builder's Risk premium.

Reference Documents

Reference documents prepared by CH2M HILL, dated 100% Submittal, June 4th, 2013.

Disclaimer

The opinions of cost (estimates) shown, and any resulting conclusions on project financial or economic feasibility or funding requirements, have been prepared for guidance in project evaluation and implementation from the information available at the time the opinion was prepared. The final costs of the project and resulting feasibility will depend on actual labor and material costs, competitive market conditions, actual site conditions, final project scope, implementation schedule, continuity of personnel and engineering, and other variable factors. The recent increases or decreases in material pricing may have a significant impact which is not predictable and careful review or consideration must be used in evaluation of material prices. As a result, the final project costs will vary from the opinions of cost presented herein. Because of these factors, project feasibility, benefit/cost ratios, risks, and funding needs must be carefully reviewed prior to making specific financial decisions or establishing project budgets to help ensure proper project evaluation and adequate funding.

APPENDIX A - Cost Estimate Summary

03/10/2016

14:44

16-113

Zero Duval & Mallory Square REV 2016

*** Jorge Abisambra

BID TOTALS

Biditem	Description	Quantity	Units	Unit Price	Bid Tota
	ZERO DUVAL & MALLORY SQUARE REI	PAIRS IMPROVEME	ENTS		
2000100	Mobilization & Demobilization	1.000	LS	261,201.04	261,201.04
2000140	Environmental Protection & Turbidity Barrier	300.000	FT	79.08	23,724.00
	***Subtotal Mob & Demob &	Turbidity Barrier			\$284,925.04
	ZERO DUVAL REPAIRS AND IMPROVEM	IENTS			
2000150	Demolition and Removal at Zero Duval (DS-100)	1.000	LS	44,586.09	44,586.09
2000160	Wood Deck Demolition/Reconstruction	350.000	SF	365.66	127,981.0
2000166	Sheet Piling (AZ14-770)	48.000	LF	5,268.93	252,908.6
2000174	Bulkhead Concrete Cap	48.000	LF	1,620.52	77,784.9
2000176	Backfill/Flowable Fill	40.000	CY	776.14	31,045.6
2000178	Drainage Pipe Extension & Repair	1.000	EA	40,369.21	40,369.2
2000180	Outfall Valve	1.000	EA	8,199.62	8,199.6
2000182	Site Restoration & Misc. General	1.000	LS	17,331.76	17,331.70
	***Subtotal Zer	ro Duval Repairs	4162	, Vi	\$600,206.8
	MALLORY SQUARE REPAIRS AND IMPR	OVEMENTS			
2000190	Demolition and Removal of Work Area	1.000	LS	55,719.71	55,719.7
2000200	Piling 36" Diam Drilled Shaft	6.000	EA	58,933.71	353,602.20
2000210	Concrete Cap Mooring Dolphin	120.000	CY	2,276.49	273,178.8
2000220	Floating Fender: Remove, Store and Place Back	1.000	EA	15,930.38	15,930.3
	***Subtotal Mallor	y Square Repairs			\$698,431.13
2000400	Project Close Out	1.000	LS	60,811.30	60,811.30
	***Subtotal	All Construction			\$1,644,374.37
		1997			1.
TEL SO		Bid Total ===	>		\$1,644,374.3

^{**}Notes:

APPENDIX B - Estimate Information Summary

16-113 - Zero Duval & Mallory Square REV 2016

Estimate Recap Report

Project Information

Estimate: 16-113 - Zero Duval & Mallory Square REV 2016

Project:

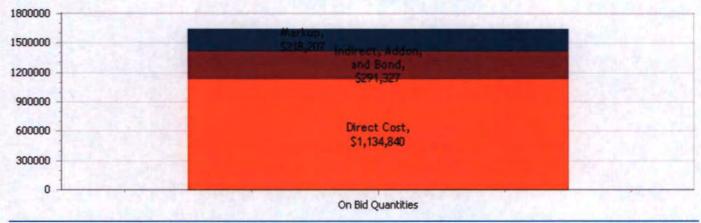
Estimator In Charge: -Job Duration: Owner: State: Engineer: Estimate Type:

Related Estimate:

Estimate Summary

	On Bid Quantities	%
Direct Cost	1,134,840	69.01%
Indirect Cost	77,423	4.71%
Addons	194,172	11.81%
Bond	19,732	1.20%
Pass Through Cost	0	0.00%
Direct Markup	204,271	12.42%
Indirect Markup	13,936	0.85%
Markup Addons	0	0.00%
+ / - Adjustments	0	
Pass Through Adjustment	0	
Unbalancing Difference	0	0.00%
Rounding Difference	1	
Desired Bid	0.00	
Final Bid Total	1,644,374.37	100.00%
Final Markup (% Based on Cost)	218,207	15.30%

Takeoff vs Bid Quantity



Other Totals

Total Sales Tax	\$21,869
Total Escalation	\$9,470
Labor % of Job Cost	19.43 %
Equipment % of Job Cost	22.95 %

Burden % of Direct Labor	27.92 %
Burden % of Indirect Labor	28.75 %
EOE % of Equipment	35.55 %
Current Minority %	0.00 %

Bid Date:

Review Date:

03/10/2016

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08/01/2014

4 months

Estimate

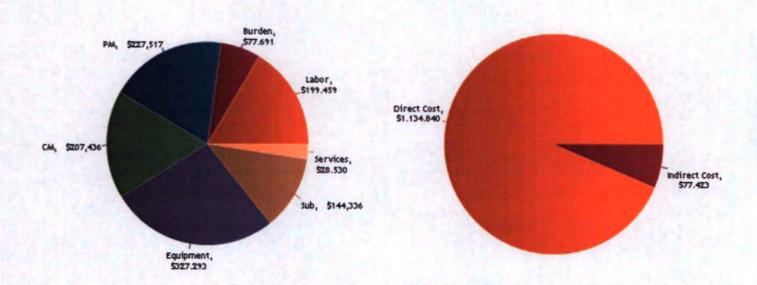
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Totals by Cost Type - Bid Quantities

あるとは、これは、	Direct	Indirect	Total	% of Total
Base Labor	172,055	27,405	199,459	16.45%
Burden	66,635	11,056	77,691	6.41%
Total Labor	238,690	38,461	277,151	22.86%
Inside Equipment	107,569	12,826	120,396	9.93%
Outside Equipment	80,342	10,208	90,550	7.47%
EOE	104,563	11,784	116,348	9.60%
Total Equipment	292,475	34,819	327,293	27.00%
Permanent Materials	227,517	0	227,517	18.77%
Construction Materials	203,293	4,143	207,436	17.11%
Subcontractors	144,336	0	144,336	11.91%
Services	28,530	0	28,530	2.35%
Design	0	0	0	0.00%
Quality	0	0	0	0.00%
Totals	1,134,840	77,423	1,212,262	100.00%



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Sales Tax Summary

Escalation Summary

THE RESERVE OF THE PERSON NAMED IN	Setup Tax %	Average Tax %	Total Taxes
Permanent Materials	6.50%	5.68%	12,051
Construction Materials	6.50%	2.10%	4,225
Inside Equipment	6.50%	0.00%	0
Outside Equipment	6.50%	6.50%	5,527
EOE	6.50%	0.01%	10
Subcontractors	0.00%	0.04%	56
Services	0.00%	0.00%	0
Design	0.00%	0.00%	0
Quality	0.00%	0.00%	0
Total Tax	The Later of	TO PLICE TO	21,869

	Average Escalation %	Total Escalation
Labor	0.00%	0
Inside Equipment	1.00%	1,192
Outside Equipment	0.00%	0
EOE	1.00%	1,150
Permanent Materials	1.50%	3,362
Construction Materials	1.00%	2,054
Subcontractors	1.20%	1,711
Services	0.00%	0
Design	0.00%	0
Quality	0.00%	0
Total Escalation	A STATE OF THE PARTY OF THE PAR	9,470

Labor Summary

In the state of th	Direct	Indirect	Total
Hourly Labor (MH, MHS, MHR, MHRS)			The second second
Manhours	4,463	750	5,213
Base Labor	156,413	24,914	181,327
Burden (Amount, % of Base Labor)	66,635	11,056	77,691
Premium	15,641	2,491	18,133
Total Labor	238,690	38,461	277,151
Daily Labor (DAY, DAYS, DY, DYS)			The state of the s
None	0	0	0
Weekly Labor (WK, WKS, WEEK)			
None	0	0	0
Monthly Labor (MO, MON, MNTH, MMO, MMOS)			DE LE COLON
None	0	0	0

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Summary IS Current

Last run 3/10/2016 2:43:00 PM Last run 3/10/2016 2:43:00 PM

Balanced Markup Calculation Spread IS Current

STATE OF THE PARTY	Cost	Markup %	Markup \$
Labor	199,459	18.00%	35,903
Burden	77,691	18.00%	13,984
Permanent Materials	227,517	18.00%	40,953
Construction Materials	207,436	18.00%	37,338
Inside Equipment	120,396	18.00%	21,671
Outside Equipment	90,550	18.00%	16,299
EOE	116,348	18.00%	20,943
Subcontractors	144,336	18.00%	25,980
Services	28,530	18.00%	5,135
Design	0	18.00%	0
Quality	0	18.00%	0
Overrides	0	0.00%	0
Total	1,212,262	18.00%	218,207

Addons, Bond and Markup Summary Dependent on Bid Summary

	Total	%
Cost Addons		
Indirects	145,472	8.85 %
Builder's Risk	12,333	0.75 %
Conctractor Contigency	36,368	2.21 %
Bond		
Bond	19,732	1.20 %
Markup		
Resource Markup	218,207	13.27 %
Fee	0	0.00 %
Total Markup	218,207	13.27 %
Markup, Addons, and Bond Total	432,112	26.28 %

Key Indicators Dependent on Bid Summary

THE PARTY OF THE P	Result	Formula
% Labor w.r.t. Total Cost	19.43%	Total Labor / Total Cost
% Markup on Labor	78.73%	Actual Markup By Bid Qty / Total Labor
% Markup on Lab && Eqp	36.10%	Actual Markup By Bid Qty / Total Labor + Equip \$
% Direct / Indirect WrkHrs	595.00%	Direct Manhours / Indirect Manhours
Indirect Cost / Direct Cost	6.82%	Indirect Cost / Direct Cost
% Subs on Total Bid	8.78%	Total Subcontractors / Bid Total
% Sub on Total Cost	10.12%	Total Subcontractors / Total Cost
% Labor on Total Cost	0.19	Total Labor / Total Cost
% PM on Total Cost	0.16	Total Permanent Materials / Total Cost
% Equip on Total Cost	0.23	Total Equipment / Total Cost

Estimate Notes

```
**********Estimate created on: 03/15/2012 by User#: 612 - John O'Reilly
Source used: Y:\TBG-ENGI\EST MASTERS BACKUP\MASTER12.zip (a backup) from 03/15/2012 10:42:38 AM

*********Estimate created on: 03/15/2012 by User#: 612 - John O'Reilly
Source used: Y:\TBG-ENGI\EST MASTERS BACKUP\MASTER12HB.zip (a backup) from 03/15/2012 11:30:47 AM

*********Estimate created on: 09/13/2012 by User#: 612 - John O'Reilly
Source used: Y:\TBG-ENGI\EST MASTERS BACKUP\MASTER12HB.zip (a backup) from 09/13/2012 12:48:25 PM
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CH2MHILL 16-113 657

Source estimate used: Y:\TBG-ENGI\EST\13-034A

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03/10/2016

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APPENDIX C - Cost and Price Summary

CH2MHILL 16-113 Jorge Abisan Page 03/10/2016 Zero Duval & Mallory Square REV 2016 15:35 ESTIMATE SUMMARY - COSTS & BID PRICES Quantity Unit Manhours Bid# Client# Rid Description ZERO DUVAL & MALLORY SQUARE REPAIRS IMPROVEMENTS 2000100 Mobilization & Demobilization 38,796 22,057 103,224 180,264 46,276 226,540 226,540,42 261,202 261,201.69 [C 261,201.04 261,201.04 15.3% 2000140 300.00 FT 4.256 7.282 4.835 16.373 4.203 20.576 3,148 15.3 % 23,725 79.08 23,724.00 ZERO DUVAL REPAIRS AND IMPROVEMENTS 2000150 1.00 LS Demolition and Removal at Zero Duval (DS-10,352 270 12,504 6,430 1,214 30,770 7,899 38,670 38,669.55 44,586 44,586.09 | 44,586.09 44,586.09 350.00 SF 2000160 15,693 59,883 12.748 88.324 22.674 317.14 127.981.00 110.997 16,983 127,980 365.66 365.66 Wood Deck Demolition/Record 2000166 Sheet Pilling (AZ14-770) 69,192 11,663 43,294 174,541 44,807 5,268.93 17,204 219,348 4,569.74 33,561 252,909 5,268.93 252,908.64 2000174 Bulkhead Concrete Cap 48.00 LF 12.076 10,322 15.3 % 15.782 14.887 9.644 1.293 53.682 13,781 67.463 1,405.48 77,785 1,620.52 1,620.52 77,784.96 2000176 Backfill/Flowable Fill 40.00 CY 3,882 8,345 6,787 2.411 21,426 5,500 4,120 15.3% 26.926 673.14 31,045 776.14 31,045,60 776.14 2000178 Drainage Pipe Extension & Rep 1.00 EA 7,891 7,816 1,752 4,822 5.579 27,860 7,152 35.012 35,012.25 5.357 15.3 % 40,369.21 2000180 Outfall Valve 1.00 EA 25 25.00 1,294 3.243 318 804 5,659 1,453 7,112 7,111.54 1,088 8,200 8,199.62 8,199.62 8,199.62 2000182 Site Restoration & Misc. General 1.00 LS 100 3,570 3.215 2,300 11,961 3,071 15,032 15,031.85 17,332 17,331.76 17,331.76 17,331.76 MALLORY SQUARE REPAIRS AND IMPROVEMENTS 1.00 LS 11,012 8,600 18,842 38,454 9,872 48.325.75 7,394 15.3 % 55,720 55,719.71 55,719.71 55,719.71 48.326 Demolition and Removal of Work Ares 2000200 Pilling 36* Diam Drilled Shaft 46,923 15.3 % 6.00 EA 55,058 71.036 22,807 94.211 921 244,033 62,646 306,680 51,113.25 353,602 58,933.71 58,933.71 353,602.26 2000210 Concrete Cap Mooring Dolphin 900 7.50 36,251 120.00 CY 48.235 50.026 18.842 56,526 48.398 273,179 2.276.49 273,178.80 14,901 188,530 236,928 1,974.40 2.276.49

15.3%

Jorge Abisambra	ro Duval & M	allory	Square REV 2016			ESTIN	MATE SUMMA	RY - COSTS	& BID PRICES	3						Page 03/10/2016	15:35
Bid# Client# Q Bid Description	Duantity	Jnit 1	Manhours	Direct Labor	Perm Mati	Constr Mati	Equip- Ment	Sub- Contr	Direct Total	Indirect Charge	Total Cost	Total Cost Unit Price	Markup	Bala Total	nced Bid Unit Price	Bid Price	E To
2000220 Floating Fender: Remove, Store a	1.00 and Place	EA	50 50.00	2,753	2,702	828	4,711		10,994	2,822	13,816	13.816.43	2.114 15.3%	15,930	15,930.38	15,930.38	15,930.
2000400 Project Close Out	1.00	S	150 150.00	7,929		26,114	7,925		41,968	10,774	52,742	52,741.69	8,070 15.3 %	60,811	60,811.30	60,811.30	60,811.3
Totals:			4,462	238,689	227,517	231,822	292,474	144,335	1,134,839	291,327	1,426,167 1,426,168		218,207	1,644,374	-11-5		1,644,374.3
[bracketed numbers represent adji	justed quarti	ies)		ed, F=Frozen	, C=Closing	g Biditem (item to abs	sorb unbal	ancing dif	ferences).							
[bracketed numbers represent adj ** in front of the Biditem indicate	justed quanti tes a Non-Ad	ies)		ed, F=Prozen	, C=Closing	g Biditem (item to abs	sorb unbal	ancing dif	ferences).							
[bracketed numbers represent adj in front of the Biditem indicase Markup % is shown as a percenta 9000067 GENERAL EXP	justed quanti tes a Non-Ad age of cost PENSES	ies)	750	38,461	, C=Closing	4,143	34,819	sorb unbal	77,423	ferences).							
9000125 Risk & Continge Indirects Builder's Risk Conctractor Contigency	justed quanti tes a Non-Ad age of cost PENSES tency 12.000 0.750	ies)	750 750 7TC JB		, C-Closing			sorb unbal		145,471 12,332 36,367							
Dracketed numbers represent adj ** in front of the Biditem indicate Markup % is shown as a percenta 9000067 GENERAL EXF 9000125 Risk & Continge Indirects Builder's Risk	justed quanti tes a Non-Ad age of cost PENSES tency 12.000 0.750	ies) ditive i 00 % of 0 % of	750 750 7TC JB	38,461	, C-Closing	4,143	34,819	sorb unbal	77,423	145,471 12,332					c= Subtotal		
Drackated numbers represent adj ** in front of the Biditem indicate Markup % is shown as a percenta 9000067 GENERAL EXF 9000125 Risk & Continge Indicates Risk Conctractor Contigency Bouldar's Risk Dond from Summary Table	justed quanti tes a Non-Ad age of cost PENSES tency 12.000 0.750	ies) ditive i 00 % of 0 % of	750 750 750 TC JB TC	38,451 38,461	, C-Closinç	4,143 4,143	34,819 34,819	sorb unbal	77.A23 77.A23	145,471 12,332 36,367 19,732			218.207 218.207		c= Subtorall c= Subtorall		

Spread Indirects On TOTAL COST

Spread Markups On TOTAL COST

Spread Addons&Bonds On TOTAL COST

Bond Calculations
Selected Bond Table: A Description: Self-Perform

Contract Amount First: \$ 10,000,000

Rate per 1000 12.00

Bond Amount \$ 19,732.49

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Zero Duval & Mallory Square REV 2016

ESTIMATE SUMMARY - COSTS & BID PRICES

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	ient# id Desc	Quantity	Unit Manhours		Direct Labor	Perm Mati	Constr Maci	Equip- Ment	Sub- Contr	Direct Total	Indirect Charge	Total Cost	Total Cost Unit Price	Markup	Total	Unit Price	Bid Price	To
Next:	5	10,000,000	12:00	5	0.00				MA.		PASS	THE STATE	(0)	W PART	8 7 10			
Next:	5	10.000.000	12.00	\$														
Next:	5	10,000,000	12.00	5	0.00													
Next:	5	10,000,000	12.00	5	0.00													
Remainde	12		12.00	5	0.00													
			Subtotal:	- 5	19,732.49													
Time Thre	shold '	1: 0 Extended	Time Rate 1: 0.0000 %	. 5	0.00													
Time Thre	shold i	2: 0 Extended	Time Rate 2: 0.0000 %	\$	0.00													
Length of	Job:	4	Total Bond Amount:	\$	19.732.49													

Estimate Notes---Bid Date: 08/01/2014

Engineering Firm:

Owner: Estimator in Charge:

Desired Bid (if specified)= Last Summary on 03/10/2016 at 2:43 PM. Last Spread on 03/10/2016 at 2:43 PM.

0.00 Sort:

Hold Acct: N Subitem: N NonAdd: N

APPENDIX D - Detail Cost Report

Zero Duval & Mallory Square REV 2016

Jorge Abisambra

Direct Cost Report

03/10/2016 st Report Page 1

15:38

Activity Desc Quantity Unit Perm Constr Equip Sub-Resource Pcs Unit Cost Labor Material Matl/Exp Ment Contract Total

PARENT ITEM = 2000100

Description = Mobilization & Demobilization Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

Applicating values from 2013 to 2016 in labor and materials. labor use $3\% ===>> F= P(1+3/100)^3= 1.0927$ factor

Listing of Sub-Biditems of Parent Item 2000100:

BID ITEM = 2000110 Land Item SCHEDULE: 1 100

Description = Mobilization Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

219000 Misc Hauling/Trucking Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: CCISP

20 loads x 1 = 20 hours

5TRKFB Trucking - Flat Bed 20.00 HR 125.000 2,500 2,500

516005 Barrier Quan: 160.00 FT Hrs/Shft: 10.00 Cal: 510 WC: CCISP

if barricades are 20 ft long then:

street: 96 ft + 32+ 24= 152 ft ===> say 160ft

\$35.00/ft ===>> 160*35= \$5,600.00

8 pieces

31TCPCBAR Temp Precast Ba@106.5% 160.00 LF 35.000 6,024 6,024

540000 Temporary Construction Fence Quan: 160.00 LF Hrs/Shft: 10.00 Cal: 510 WC: CCISP

a 6 feet link fence will cost \$9.00/ ft. then can be sold installed at \$15/ft

if barricades are 20 ft long then:

street: 96 ft + 32+ 24= 152===> say 160 ft

31CHAINFENCE Temporary Chain@106.5% 160.00 LF 15.000 2,582 2,582

890005 Pile Crew Mobilization Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: CCISP

mob crew from Tampa Bay area, assume 2 shifts. Marine Piling & Demo Crew Lab Pcs: Eqp Pcs: MARPIL 20.00 CH Prod: 2.0000 S 5.00 18.00 3WELD 2.00 DA Weld Supplies (1 man-Stick 70.000 141 141 8211050 Fuel, Oil, Grease 50g/d 2.00 DA 200.000 404 404 8CRANEC200 Crane Manitowoc 777 20 1.00 20.00 HR 200.743 4,055 4,055 ***DRILLS - ROCK*** 8DRILLR 20.00 HR 17.500 1.00 354 354 8MAC-A-10 Compressor 185 CFM 1.00 20.00 HR 3.000 64 64 8MBC-Z-1 Barge Carpenter 12'X40 2.00 40.00 HR 6.500 277 277 8MBS-Z-17 Spud Barge 170x45' ABS 1.00 20.00 HR 55,000 1,172 1,172 Tug Push Boat 200 HP 20.00 HR 8MBT-Z-12 1.00 20.000 426 426 20.00 HR 8MBW-Z-2 18' Aluminum Boat & O/ 1.00 3.000 64 64 8MCE-A-40 Bucket Clamshell 3 CYD 1.00 20.00 HR 5.000 107 107 8MDH-A-7 DELMAG D19 HAMMER 1.00 20.00 HR 10.000 213 213 20.00 HR 8MFD-A-1 FAIRLEADS 1.00 0.100 2 2 20.00 HR 8MGN-Z-11 Generator 10 KW 1.00 3.000 64 64 20.00 HR 8MLT-A-1 Light Tower, Genie 1.00 3.500 75 75 8MPE-A-11 Extractor Pile 1.00 20.00 HR 5.000 107 107 8MVP-A-11 FORD F150 SUPERC 10 1.00 20.00 HR 6.500 138 138 8MWH-A-1 WINCH 3-DRUM RB-90 1.00 20.00 HR 10.000 213 213 8MWM-C-1 Welder Diesel 400 AMP 1.00 20.00 HR 2.500 53 53 8PILE26 Vibro Hammer 150 TN 1.00 20.00 HR 80.944 1,635 1,635 2.00 DA 9ADMS11 Subsistance Crew 5 1,515 750,000 1,515

8MBT-Z-12

8MBW-Z-2

Tug Push Boat 200 HP

18' Aluminum Boat & O/

1.00

1.00

20.00 HR

Zero Duval & Mallory Square REV 2016

03/10/2016 15:38 Jorge Abisambra Direct Cost Report Activity Desc Quantity Unit Perm Constr Equip Sub-Resource Unit Cost Labor Material Matl/Exp Ment Contract Total BID ITEM = 2000110 Land Item SCHEDULE: 1 Description = Mobilization Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000 M105 Foreman - General Marine 20.00 MH 39.030 1.00 1,176 1,176 M-Piledriver M165 1.00 20.00 MH 38.200 1,167 1,167 M-Welder M170 1.00 20.00 MH 34.960 1.088 1,088 M190 M-Skilled Laborer 1.00 20.00 MH 31.960 947 947 OPCR100 Op Eng 1A- Crane 100-200 1.00 20.00 MH 36.580 1,128 1,128 \$16,583.26 100.0000 MH/LS 100.00 MH [3976.06] 5.506 1.656 9 421 16,583 890006 Upland Crew Mob 10.00 Cal: 510 WC: CCISP Quan: 1.00 LS Hrs/Shft: this is a support crew upland 10.00 CH MARLAN Up Land Support Crew Prod: 1.0000 S Lab Pcs: 5.00 Eqp Pcs: 4.00 8211050 Fuel, Oil, Grease 50g/d 1.00 DA 200.000 202 202 8BHLD480 BHL Cat 450E 1.75CY 1.00 10.00 HR 56.724 573 573 8CRANERT530 Crane Grove RT530E 30 10.00 HR 64.705 1.00 654 654 8MBC-Z-1 Barge Carpenter 12'X40 1.00 10.00 HR 6.500 69 69 Pickup 4x2 3/4 Ton Gas 8TRKPU10 1.00 10.00 HR 10.867 110 110 9ADMS11 Subsistance Crew 5 0.10 DA 750.000 76 76 **9ADMT08** Craft Subsistence (\$120/D/ 1.00 DA 480.000 485 485 M105 Foreman - General Marine 1.00 10.00 MH 39.030 588 588 M195 M-Laborer 2.00 20.00 MH 30.100 902 902 OPCR24 Op Eng 2- Crane 20-44T 1.00 10.00 MH 35.400 549 549 OPEXC3 Op Eng 3- Backhoe to 3Y 10.00 MH 1.00 35.390 549 549 \$4,755.94 50.0000 MH/LS 50.00 MH [1870.22] 2.588 561 1,607 4,756 960015 Rigging Supplies Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: CCISP a Lump sum amount to renew rigging artifacts for the equipment 31RIGGING Rigging Supplie@106.5% 1.00 LS 10,757 10,757 ====> Item Totals: 2000110 Mobilization \$43,200.90 150.0000 MH/LS 150.00 MH [5846.28] 8,094 43,201 24,079 11,028 43,200,900 24,078.65 11,028.36 1 LS 8.093.89 43,200.90 BID ITEM = 2000115 Land Item SCHEDULE: 1 Takeoff Quan: 1.000 Description = Demobilization Unit = LS 1.000 Engr Quan: 219000 1.00 LS Hrs/Shft: 10.00 Cal. 510 WC: CCISP Misc Hauling/Trucking Quan: = 20 hours 20 loads x 1 5TRKFB Trucking - Flat Bed 20.00 HR 125.000 2,500 2.500 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: CCISP 890005 Pile Crew Demoobilization Quan: mob crew from Tampa Bay area, assume 2 shifts. MARPIL Marine Piling & Demo Crew 20.00 CH Prod: 2.0000 S Lab Pcs: 5.00 Eqp Pcs: 18.00 Weld Supplies (1 man-Stick 2.00 DA 70.000 141 3WELD 141 Fuel, Oil, Grease 50g/d 2.00 DA 200.000 404 404 8211050 200.743 4,055 8CRANEC200 Crane Manitowoc 777 20 1.00 20.00 HR 4,055 ***DRILLS - ROCK*** 8DRILLR 1.00 20.00 HR 17.500 354 354 8MAC-A-10 Compressor 185 CFM 1.00 20.00 HR 3.000 64 64 277 8MBC-Z-1 40.00 HR 277 Barge Carpenter 12'X40 2.00 6.500 8MBS-Z-17 Spud Barge 170x45' ABS 1.00 20.00 HR 55.000 1,172 1,172 20.00 HR 426 426

20.000

3.000

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Page 2

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Zero Duval & Mallory Square REV 2016

Direct Cost Report

Page 3 03/10/2016 15:38

5.000 0.000 0.100 3.000 3.500 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,176 1,167 1,088	1.000	Engr Quan: 107 213 2 64 75 107 138 213 53 1,635	1.000 107 213 2 64 75 107 138 213 53
5.000 0.000 0.100 3.000 3.000 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,176 1,167		107 213 2 64 75 107 138 213 53	107 213 2 64 75 107 138 213 53
0.000 0.100 3.000 3.500 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	213 2 64 75 107 138 213 53	213 2 64 75 107 138 213 53
0.100 3.000 3.500 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	2 64 75 107 138 213 53	2 64 75 107 138 213 53
3.000 3.500 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	64 75 107 138 213 53	64 75 107 138 213 53
3.500 5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	75 107 138 213 53	75 107 138 213 53
5.000 6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	107 138 213 53	107 138 213 53
6.500 0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	138 213 53	138 213 53
0.000 2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	213 53	213 53
2.500 0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	53	53
0.944 0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515		
0.000 9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515	1,635	1.635
9.030 1, 8.200 1, 4.960 1, 1.960 6.580 1,	1,167	1,515		11000
8.200 1, 4.960 1, 1.960 6.580 1,	1,167			1,515
4.960 1, 1.960 6.580 1,	W. 1927.			1,176
1.960 6.580 1,	1,088			1,167
6.580 1,				1,088
	947			947
	1,128			1,128
1.00] 5,	5,506	1,656	9,421	16,583
1.00 LS	Hrs/Shft:	10.00 Cal-	510 WC: CCISE	5
	HALA S			
Prod:	1.0000 S	Lab Pcs:	5.00 Eqp P	cs: 4.00
0.000	1.0000 3	Lab PCS.	The state of the s	
6.724			202 573	202
4.705			654	573
6.500			69	654 69
0.867			110	110
0.000		76	110	76
0.000		485		485
	500	403		1
	222			588
	7.7			902 549
		561	1,607	549 4,756
VC NA			The state of	
5 28 1 0	2.004	4 717	11 029	23.839
				23,839.20
0,093	33.03	4,710.95	1,020.30	23,039.20
9.030 0.100 5.400 5.390 0.22]		902 549	902 549 549 2,588 561 8,094 4,717	902 549 549 2.588 561 1,607 8,094 4,717 11,028

20 loads x 4 hours = 80 hours 5TRKFB Trucking - Flat Bed

80.00 HR

125.000

10,000

10,000

890007 Marine Tugs Quan: 1.00 LS Hrs/Shft: 10.00 Cal: 510 WC: CCISP

rental tugging services to and from the site anywhere in Florida.

from google earth and assuming there are 238 nautical miles from Tampa to Key West.

03/10/2016

Activity Resource	Desc	Quantity Pcs Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = 2	000120		Land Item	SCHEDU	LE: 1	10	00	174		
Description = Tr	ransportation		Unit =	LS	Takeoff	Quan:	1.000	Engr	Quan:	1.000
at 4.5 knots t	then: 238 NM/4.5 N	M/Hr= 53 hours or	ne way.							
Round trip: 53 demob for a to	3*2= 106 hours === otal 12 days.	>> 106/24= 4.41	days say 5	days plu	s 1 da	y wait	= 6 days	mob an	d 6 day	rs
	n be as low as \$4,	500/day without f	fuel, plus	1,000 ga	1/day=	\$4,000	.00/day		======	
total cost: \$8 4TUGSERVICE T		12.00 DAY	/ 8	3,500.000					103,224	103,224
====> Item Tot	tals: 2000120 -	Transportation		-				TITE.		
\$113.224.00	1LS			[]			10,000	10	103,224	113,224 113,224.00
113,224.000										
										-
		M. T.		Total of	Above S	ub-Bidite	ms			
	tals: 2000100 - 300,0000 MH/LS	Mobilization & Demot	The state of the s	Total of	Above S	ub-Bidite	ms 38.796	22,057	103.224	180.264

BID ITEM = 2000140 Land Item SCHEDULE: 1

Description = Environmental Protection & Turbidity Bar Unit = 300.000 FT Takeoff Quan: Engr Quan: 300.000

call on the plans D-101

430000	Silt Fence - Install	60	The state of the s		Quan:	1,000.00 LF	Hrs/Shft:	10.00 Cal	510 WC	CCISP	
LAB3	Foreman + 2 Laborers			5.00	СН	Prod:	0.5000 S	Lab Pcs:	3.00	Eqp Pcs:	1.00
31ECSF	Silt Fence@106.5%		1,000.00 LF			1.000		1,076			1,076
8TRKPU70	Leased 4x2, 3/4 Ton Ga	1.00	5.00 HR			12.299			62		62
LFORMN	Laborer-Foreman	1.00	5.00 MH			29.250	220				220
LPWR	Laborer-Power Tools	2.00	10.00 MH			28.020	425				425
\$1,783.14	0.0150 MH/LI		15.00 MH			[0.469]	645	1,076	62		1,783
432000	Turbidity Barrier	200			Quan	300.00 LF	Hrs/Shft:	10.00 Cal:	510 WC	CCISP	
MARPIL	Marine Piling & Demo Crev	v	1	0.00	СН	Prod:	1.0000 S	Lab Pcs:	5.00	Eqp Pcs:	18.00
3TRUBIDITYBA	Turbidity Barri@106.5%		300.00 LF			10.000		3,227			3,227
3WELD	Weld Supplies (1 man-Stick		1.00 DA			70.000		71			71
8211050	Fuel, Oil, Grease 50g/d		1.00 DA			200.000			202		202
8CRANEC200	Crane Manitowoc 777 20	1.00	10.00 HR			200.743			2,027		2.027
8DRILLR	***DRILLS - ROCK***	1.00	10.00 HR			17.500			177		177
8MAC-A-10	Compressor 185 CFM	1.00	10.00 HR			3.000			32		32
8MBC-Z-1	Barge Carpenter 12'X40	2.00	20.00 HR			6.500			138		138
8MBS-Z-17	Spud Barge 170x45' ABS	1.00	10.00 HR			55.000			586		586
8MBT-Z-12	Tug Push Boat 200 HP	1.00	10.00 HR			20.000			213		213
8MBW-Z-2	18' Aluminum Boat & O/	1.00	10.00 HR			3.000			32		32
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	10.00 HR			5.000			53		53
8MDH-A-7	DELMAG D19 HAMMER	1.00	10.00 HR			10.000			107		107
8MFD-A-1	FAIRLEADS	1.00	10.00 HR			0.100			1		1
8MGN-Z-11	Generator 10 KW	1.00	10.00 HR			3.000			32		32
8MLT-A-1	Light Tower, Genie	1.00	10.00 HR			3.500			37		37
8MPE-A-11	Extractor Pile	1.00	10.00 HR			5.000			53		53
8MVP-A-11	FORD F150 SUPERC 10	1.00	10.00 HR			6.500			69		69

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit		-112	Unit Cost		rm Constr rial Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM =	2000140			Land	Item	SCHEDU		100			
Description =	Environmental Protection & 1	Turbidit	y Bar		Unit =	FT	Takeoff Quan:	300.000	Engr	Quan:	300.000
BMWH-A-1	WINCH 3-DRUM RB-90	1.00	10.00 HR			10.000			107		107
BMWM-C-1	Welder Diesel 400 AMP	1.00	10.00 HR			2.500			27		27
BPILE26	Vibro Hammer 150 TN	1.00	10.00 HR			80.944			818		818
ADMS11	Subsistance Crew 5		1.00 DA			750.000		758	0.0		758
V105	Foreman - General Marine	1.00	10.00 MH			39.030	588	, 00			588
V165	M-Piledriver	1.00	10.00 MH			38.200	584				584
M170	M-Welder	1.00	10.00 MH			34.960	544				544
V190	M-Skilled Laborer	1.00	10.00 MH			31.960	474				474
OPCR100	Op Eng 1A- Crane 100-200		10.00 MH			36.580	564				564
511,518.54	0.1666 MH/LF		50.00 MH			[6.627]	2,753	4,055	4,710		11,519
32005	Erosion Control - Hay Bale	es	THE REAL PROPERTY.	76	Quan	400.00 E	EA Hrs/Shft:	10.00 Cal:	510 WC	CCISP	STATE OF THE PARTY.
andle	of 14"x18"x22" will e length is 22"/12= 1			0 43	lbs.	This is	a safer ba	le weight f	or many	people	to
f there are	e 600 ft =====> qty c	of bal	es are: 60	0/1.83	=327	say 400	bales				
LAB4	Foreman + 3 Laborers			5.00	CH	Prod:	0.5000 S	T 100 M 2 M 100 M	4.00	Eqp Pcs:	1.00
11ECHB	Hay Bales@106.5%		400.00 EA			5.000		2,151			2,151
TRKPU70	Leased 4x2, 3/4 Ton Ga	1.00	5.00 HR			12.299			62		62
FORMN	Laborer-Foreman	1.00	5.00 MH			29.250	220				220
_PWR	Laborer-Power Tools	3.00	15.00 MH			28.020	638				638
3,071.41	0.0500 MH/E/	A	20.00 MH			[1.558]	858	2,151	62		3,071
====> Item	Totals: 2000140 -	Environ	nmental Protec	tion &	Turbio	dity Bar					
16,373.09	0.2833 MH/FT	Enviro	nmental Protect 85.00 MH	tion &	Turbio	(10.268)	4,256	7,282	4,835		16,373
16,373.09		Environ		tion & T	Turbio		4,256 14.19	7,282 24.27	4,835 16.12		16,373 54.58
316,373.09 34.577 BID ITEM = Description =	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z	Zero Du	85.00 MH	Land	Item Unit =	[10.268] SCHEDU LS	14.19 LE: 1 Takeoff Quan:	100 1.000	16.12 Engr	Quan:	
316,373.09 4.577 BID ITEM = Description =	0.2833 MH/FT 300 FT 2000150	čero Dur	85.00 MH	Land	Item	[10.268] SCHEDU LS	14.19 LE: 1 Takeoff Quan:	100 1.000	16.12 Engr		54.58
BID ITEM = Description =	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings:	ero Du	85.00 MH	Land	Item Unit =	SCHEDU LS 1.00 I	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	16.12 Engr 510 WC	: CCISP	1.000
316,373.09 4.577 BID ITEM = Description = 1100 SEE Picture this is compared by MARLAN	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings: plicated task. assume Up Land Support Crew	ero Du	85.00 MH	Land	Item Unit =	SCHEDU LS 1.00 I	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	Engr 510 WC		1.000
A16,373.09 A4.577 BID ITEM = Description = 100 BEE Picture this is common MARLAN 1211050	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket builting and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d	Zero Dur ilding : a 2 da	85.00 MH val (DS sys 2.00 DA	Land	Item Unit =	SCHEDU LS 1.00 I	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	Engr 510 WC 5.00 404	: CCISP	1.000 4.00 404
A16,373.09 A4.577 BID ITEM = Description = 100 BEE Picture this is common MARLAN (211050) BHLD480	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY	Zero Durilding	85.00 MH val (DS 2.00 DA 20.00 HR	Land	Item Unit =	SCHEDU LS 1.00 I Prod: 200.000 56.724	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	16.12 Engr 510 WC 5.00 404 1,146	: CCISP	1.000 4.00 404 1.146
A16,373.09 A4.577 BID ITEM = Description = 100 BEE Picture this is common MARLAN (211050) BHLD480 BCRANERT530	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket builting and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30	Zero Durilding	85.00 MH val (DS 2.00 DA 20.00 HR 20.00 HR	Land	Item Unit =	SCHEDULS 1.00 I Prod: 200.000 56.724 64.705	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	16.12 Engr 510 WC 5.00 404 1,146 1,307	: CCISP	1.000 4.00 404 1,146 1,307
BID ITEM = Description = 1100 SEE Picture this is common MARLAN 0211050 BHLD480 BCRANERT530 BMBC-Z-1	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket built and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40	Zero Durilding 1.00 1.00 1.00	85.00 MH val (DS 2.00 DA 20.00 HR 20.00 HR 20.00 HR	Land	Item Unit =	SCHEDULS 1.00 I Prod: 200.000 56.724 64.705 6.500	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1,146 1,307 138
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket built and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	Zero Durilding	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR	Land	Item Unit =	Prod: 200.000 56.724 64.705 6.500 10.867	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	100 1,000 10.00 Cal; Lab Pcs:	16.12 Engr 510 WC 5.00 404 1,146 1,307	: CCISP	1.000 4.00 404 1,146 1,307 138 219
BID ITEM = Description = Descr	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	Zero Durilding 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 0.10 DA	Land	Item Unit =	Prod: 200.000 56.724 64.705 6.500 10.867 750.000	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1.146 1.307 138 219 76
BID ITEM = Description = Descr	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/	Zero Durilding 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 0.10 DA 2.00 DA	Land	Item Unit =	Prod: 200.000 10.867 750.000 480.000	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft:	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1.146 1.307 138 219 76 970
BID ITEM = Description = 1100 SEE Picture this is common MARLAN BID ITEM = Description = 1100 SEE Picture The second of the	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk	Zero Durilding 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 0.10 DA 2.00 DA 1.00 LS	Land	Item Unit =	Prod: 200.000	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1.146 1.307 138 219 76 970 5,050
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 BADM511 BADMT08 BRCRISK M105	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk Foreman - General Marine	Zero Durillding 1.00 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH	Land	Item Unit =	Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 5,000.000 39.030	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1.146 1.307 138 219 76 970 5.050 1,176
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 2211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 BADMS11 BADMT08 BRCRISK M105 M195	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk Foreman - General Marine M-Laborer	1.00 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 2.00 DA 1.00 LS 20.00 MH 40.00 MH	Land	Item Unit =	Prod: 200.000 5.724 64.705 6.500 10.867 750.000 480.000 5,000.000 39.030 30.100	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1,176 1,803	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1.146 1.307 138 219 76 970 5.050 1,176 1.803
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 BADMS11 BADMT08 BRCRISK M105 M195	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 45cB 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	Zero Durillding 1.00 1.00 1.00 1.00	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH	Land	Item Unit =	Prod: 200.000 56.724 64.705 6.500 480.000 39.030 30.100 35.400	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1,176 1,803 1,099	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1,146 1,307 138 219 76 970 5,050 1,176 1,803 1,099
BID ITEM = Description = 1100 BEE Picture this is compound in the property of	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 HR 2.00 DA 1.00 LS 20.00 MH 40.00 MH	Land	Item Unit =	Prod: 200.000 5.724 64.705 6.500 10.867 750.000 480.000 5,000.000 39.030 30.100	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1,176 1,803	24.27 100 1,000 10.00 Cal; Lab Pcs: 76 970 5,050	510 WC 5.00 404 1,146 1,307 138 219	: CCISP	1.000 4.00 404 1,146 1,307 76 970 5,050 1,176 1,803 1,099 1,098
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 9ADMS11 9ADMT08 9RCRISK M105 M195 OPCR24 OPEXC3	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 45cB 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH	Land	Item Unit = Quan;	Prod: 200.000 56.724 64.705 6.500 480.000 39.030 30.100 35.400	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1,176 1,803 1,099	24.27 100 1,000 10.00 Cal; Lab Pcs:	510 WC 5.00 404 1,146 1,307 138	: CCISP	1.000 4.00 404 1,146 1,307 138 219 76 970 5,050 1,176 1,803 1,099
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BCRANERT530 BMBC-Z-1 BTREPU10 BADM511 BADM108 BRCRISK M105 M195 DPCR24 DPEXC3 S14,486.19	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket but 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH 20.00 MH	Land	Item Unit = Quan;	Prod: 200.000 56.724 64.705 6.500 10.867 750.000 39.030 30.100 35.400 35.390 [3740.44]	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1,176 1,803 1,099 1,098 5,176	24.27 100 1,000 10.00 Cal; Lab Pcs: 76 970 5,050	5.00 404 1,146 1,307 138 219	Eqp Pcs:	1.000 4.00 404 1,146 1,307 76 970 5,050 1,176 1,803 1,099 1,098
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN B211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 9ADMS11 9ADMT08 9RCRISK M105 M195 OPCR24 OPEXC3 \$14,486.19	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 100.0000 MH/LS Removal storage box, locker	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH 20.00 MH	Land	Item Unit = Quan	Prod: 200.000 56.724 64.705 6.500 10.867 750.000 39.030 30.100 35.400 35.390 [3740.44]	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1.176 1.803 1.099 1.098 5.176	24.27 100 1,000 10.00 Cal: Lab Pcs: 76 970 5,050 6,095	5.00 404 1,146 1,307 138 219	Eqp Pcs:	1.000 4.00 404 1,146 1,307 76 970 5,050 1,176 1,803 1,099 1,098
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 8211050 BBHLD480 BCRANERT530 BBHLD480 BCRANERT530 BRHCZ-1 BTRKPU10 9ADMS11 9ADMT08 9RCRISK M105 M195 OPCR24 OPEXC3 \$14,486.19 1120 refrigerator storage box	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 100.0000 MH/LS Removal storage box, locker	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH 20.00 MH	Land	Item Unit = Quan	Prod: 200.000 56.724 64.705 6.500 10.867 750.000 39.030 30.100 35.400 35.390 [3740.44]	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1.176 1.803 1.099 1.098 5.176	24.27 100 1,000 10.00 Cal: Lab Pcs: 76 970 5,050 6,095	5.00 404 1,146 1,307 138 219	Eqp Pcs:	1.000 4.00 404 1,146 1,307 76 970 5,050 1,176 1,803 1,099 1,098
S16,373.09 54.577 BID ITEM = Description = 1100 SEE Picture this is comy MARLAN 8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 9RCRISK M105 M195 OPCR24 OPEXC3 \$14,486.19 1120 refrigerator storage box related Item	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 100.0000 MH/LS Removal storage box, locker 1 ocker 1 ocker 1 9 and 10	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH 20.00 MH	Land 20.00	Item Unit = Quan: CH	Prod: 200.000	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1.176 1,803 1,099 1,098 5,176 LS Hrs/Shft:	24.27 100 1,000 10.00 Cal; Lab Pcs: 76 970 5,050 6,095	510 WC 5.00 404 1,146 1,307 138 219 3,215	Eqp Pcs:	1.000 4.00 404 1.146 1.307 76 970 5.050 1.176 1.803 1.099 1.098 14.486
BID ITEM = Description = 1100 SEE Picture this is comp MARLAN 3211050 BBHLD480 BCRANERT530 BBHLD480 BCRANERT530 BRHLD480 BCRANERT530 BRHLD480 BCRANERT530 BHLD480 BCRANERT530 BC	0.2833 MH/FT 300 FT 2000150 Demolition and Removal at Z Remove Existing ticket buil 1 and 3 in drawings: plicated task. assume Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Risk Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 100.0000 MH/LS Removal storage box, locker	Zero Durillding 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2.00 DA 20.00 HR 20.00 HR 20.00 HR 20.00 HR 20.00 DA 1.00 LS 20.00 MH 40.00 MH 20.00 MH 20.00 MH	Land	Item Unit = Quan: CH	Prod: 200.000 56.724 64.705 6.500 10.867 750.000 39.030 30.100 35.400 35.390 [3740.44]	14.19 LE: 1 Takeoff Quan: LS Hrs/Shft: 2.0000 S 1.176 1,803 1,099 1,098 5,176 LS Hrs/Shft:	24.27 100 1,000 10.00 Cal; Lab Pcs: 76 970 5,050 6,095	5.00 404 1,146 1,307 138 219	Eqp Pcs:	1.000 4.00 404 1,146 1,307 76 970 5,050 1,176 1,803 1,099 1,098

Direct Cost Report

Description = C BHLD480 CRANERT530	2000150 Demolition and Removal at Z BHL Cat 450E 1.75CY	ara Dun										
BHLD480 CRANERT530			al /DC	- 1	Land Ite				00	Face	0	1.000
CRANERT530	RHI Cat ASOF 1 75CV				Uni		Takeoff Q	uan:	1.000	Engr	Quan:	1.000
		1.00	10.00			56.724				573		573
MRC-Z-1	Crane Grove RT530E 30	1.00	10.00			64.705				654		654
	Barge Carpenter 12'X40	1.00	10.00			6.500				69		69
	Pickup 4x2 3/4 Ton Gas	1.00	10.00			10.867			95	110		110
	Subsistance Crew 5		0.10			750.000			76			76
	Craft Subsistence (\$120/D/		1.00			480.000			485			485
	Foreman - General Marine	1.00	10.00			39.030	588					588
	M-Laborer	2.00	20.00			30.100	902					902
	Op Eng 2- Crane 20-44T	1.00	10.00			35.400	549					549
	Op Eng 3- Backhoe to 3Y		10.00 1			35.390	549					549
4,755.94	50.0000 MH/LS	5	50.00	МН	121	[1870.22]	2,588		561	1,607		4,756
150	Water Main Removal and	plug			Qu	an: 1.00	LS Hrs/	Shft:	10.00 Cal:	510 WC	CCISP	Section 1
UWC06	6" Water Gate V@106.5%		1.00	EA		250.000		270				270
2UTILITY	Utility Subcontractor		1.00	DA		1,200.000					1,214	1,214
1,484.64						[]		270			1,214	1,485
200	Remove Subaqueous debri		1960		Qu	an: 1.00	LS Hrs/	Shft:	10.00 Cal:	510 WC	CCISP	
MARLAN 211050 BHLD480 CRANERT530 MBC-Z-1 ITRKPU10 IADMS11 IADMT08 M105 M195 IPCR24 IPEXC3 IA,755.94 ICCOMMENT IN INCIDENT IN I	13 cut exposed rebar Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 50.0000 MH/LS Debri Disposal Sey west: \$50.00/cy e: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY	1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00	1.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 50.00	DA HR HR HR HR DA DA MH MH MH MH	Qu	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [1870.22]	588 902 549 549 2,588		Lab Pcs: 76 485 561 10.00 Call: 3,788 1,500 5,288	5.00 202 573 654 69 110 1,607	Eqp Pcs:	4.00 202 573 654 69 110 76 485 588 902 549 4.756
30,770.21	otals: 2000150 - 200.0000 MH/LS	Demolit	200.00		at Zero	Duval (DS [7480.88]	10,352	270	12,504	6,429	1,214	30,770
0,770.210	1LS					200	10,352.16	270.24	12,503.95	6,429.46	1,214.40	30,770.21

Listing of Sub-Biditems of Parent Item 2000166:

Zero Duval & Mallory Square REV 2016

Direct Cost Report

03/10/2016

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BID ITEM = Description =	2000160 Wood Deck Demolition/Reco	onstruction		and Item Unit =	SCHEDU SF	JLE: 1 Takeoff Quan:	100 350.000	Engr Q	uan: 350.000
BCRANEC200	Crane Manitowoc 777 20	1.00	10.00 HR		200.743			2,027	2,027
BDRILLR	***DRILLS - ROCK***	1.00	10.00 HR		17.500			177	177
BMAC-A-10	Compressor 185 CFM	1.00	10.00 HR		3.000			32	32
8MBC-Z-1	Barge Carpenter 12'X40	2.00	20.00 HR		6.500			138	138
8MBS-Z-17	Spud Barge 170x45' ABS	1.00	10.00 HR		55.000			586	586
8MBT-Z-12	Tug Push Boat 200 HP	1.00	10.00 HR		20.000			213	213
8MBW-Z-2	18' Aluminum Boat & O/	1.00	10.00 HR		3.000			32	32
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	10.00 HR		5.000			53	53
8MDH-A-7	DELMAG D19 HAMMER	1.00	10.00 HR		10.000			107	107
8MFD-A-1	FAIRLEADS	1.00	10.00 HR		0.100			1	1
8MGN-Z-11	Generator 10 KW	1.00	10.00 HR		3.000			32	32
8MLT-A-1	Light Tower, Genie	1.00	10.00 HR		3.500			37	37
8MPE-A-11	Extractor Pile	1.00	10.00 HR		5.000			53	53
8MVP-A-11	FORD F150 SUPERC 10	1.00	10.00 HR		6.500			69	69
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	10.00 HR		10.000			107	107
8MWM-C-1	Welder Diesel 400 AMP	1.00	10.00 HR		2.500			27	27
BPILE26	Vibro Hammer 150 TN	1.00	10.00 HR		80.944			818	818
9ADMS11	Subsistance Crew 5	1.00	1.00 DA		750.000		758	0.10	758
M105	Foreman - General Marine	1.00	10.00 MH		39.030	588	750		588
M165	M-Piledriver	1.00	10.00 MH		38.200	584			584
M170	M-Welder	1.00	10.00 MH		34.960	544			544
M190	M-Skilled Laborer	1.00	10.00 MH		31.960	474			474
OPCR100	Op Eng 1A- Crane 100-200		10.00 MH		36.580	564			564
\$8,291.59	50.0000 MH/E/		50.00 MH	1	1988.03]	2,753	828	4,710	8,292
389000	Treated Lumber & Timbe	-		Quan:	350.00	SF Hrs/Shft:	10.00 Cal:	510 WC:	CCISP
31PTWOOD	Dock Treated Wo@106.5%		350.00 SF		80.000		30,118		30,118
389015	Timber Deck Installation	ER	BARRA A	Quan:	350.00	SF Hrs/Shft:	10.00 Cal:	510 WC: 0	CCISP
MARLAN	Up Land Support Crew		50.0	00 CH	Prod	5.0000 S	Lab Pcs:	5.00	Eqp Pcs: 4.00
8211050	Fuel, Oil, Grease 50g/d		5.00 DA		200.000	2000000		1,010	1,010
BBHLD480	BHL Cat 450E 1.75CY	1.00	50.00 HR		56.724			2.865	2,865
BCRANERT530	Crane Grove RT530E 30	1.00	50.00 HR		64.705			3,268	3,268
8MBC-Z-1	Barge Carpenter 12'X40	1.00	50.00 HR		6.500			346	346
BTRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	50.00 HR		10.867			549	549
9ADMS11	Subsistance Crew 5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	35.00 DA		750.000		26,513	3.10	26,513
9ADMT08	Craft Subsistence (\$120/D/		5.00 DA		480.000		2,424		2,424
M105	Foreman - General Marine	1.00	50.00 MH		39.030	2,941	my 186.1		2,941
M195	M-Laborer	2.00	100.00 MH		30.100	4,508			4,508
OPCR24	Op Eng 2- Crane 20-44T	1.00	50.00 MH		35.400	2,746			2,746
OPEXC3	Op Eng 3- Backhoe to 3Y	1.00	50.00 MH		35.390	2,746			2,746
\$49,913.69	0.7142 MH/SI		250.00 MH		[26.717]	12,940	28,937	8,037	49,914
	Totals: 2000160 -	Wood De	ck Demolition/R	econstruct	ion –	1200	CONTRACTOR	1 1 1	
====> Item	0.8571 MH/SF	1000 00	300.00 MH		[32.398]	15,693	59,883	12,747	88,323
	350 SF								252.35
**************************************	250.05					44.84	171.09	36.42	252.35

16-113 Jorge Abisambr		val & Mallor	y Square R	EV 2016	Dir	rect Cost Report			03/1	Page 8 10/2016 15:38
Activity Resource	Desc		Pcs	Quantity Uni	t	Unit Cost		erm Constr erial Matl/Exp	Equip Sub- Ment Contract	Total
BID ITEM Description =	= 2000170 Sheet Piling				Land Ite Un		E: 1 Takeoff Quan	100 48.000	Engr Quan:	48.000
201040	Sheeting Tem	plate Suppl	у	1000	Qu	ian: 1.00 L	S Hrs/Shf	: 10.00 Cal	510 WC: CCISP	EGAN
AZ14-770 S	nnel Waler \$	250/ft		il <mark>a</mark> ble @	\$6.00/ft					
7380 Sand I Tel: +1.32	Lake Rd, Sui 21.274.9283	te135 0 Fax: +1	orlando,	FL 32819 5.1491 C		.201.247.299	2			
Alwyn McDov Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL	eel Lake Rd, Sui 21.274.9283 A Sheet pile Ten	te135 0 Fax: +1 np@106.5%	orlando,	FL 32819	cell: +1	3,500.000		3,765		3,765
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32	Lake Rd, Sui 21.274.9283 A Sheet pile Ten Supply Sheet	te135 0 Fax: +1 np@106.5%	orlando,	FL 32819 5.1491 C	cell: +1			-	510. WC CCISP	3,765
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft)	Lake Rd, Suit 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight	te135 C Fax: +1 np@106.5% Piles AZ14-	0rlando, 1.973.79 770 Unit	FL 32819 5.1491 C 1.00 LS	Qu (2w)	3,500.000	B Hrs/Shf	-	510 WC CCISP Weight Single	
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft)	Lake Rd, Suit 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0	te135 C Fax: +1 np@106.5% Piles AZ14-	0rlando, 1.973.79 770 Unit	FL 32819 5.1491 C 1.00 LS	Qu (2w)	3,500.000 ian: 48,078.00 Li	B Hrs/Shf V-1	t: 10.00 Cal:		
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 7 Vertical Le	Lake Rd, Suit 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0	te135 0 Fax: +1 np@106.5% Piles AZ14- (FT)	Orlando, 1.973.79 770 Unit	FL 32819 5.1491 C 1.00 LS width (Qu (2w)	3,500.000 an: 48,078.00 Li QTY (PAIRS)	B Hrs/Shf V-1	t: 10.00 Cal:		
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 7 Vertical Le West Return	Lake Rd, Suit 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 ll H Length Total Weight ength (-40.0 n 0 Pairs	tel35 C Fax: +1 np@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs	Orlando, 1.973.79 770 Unit 12 ft ==	FL 32819 5.1491 C 1.00 LS width (Qu 2w) 5 ft	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00	B Hrs/Shf V-1	t: 10.00 Cal:		
Alwyn McDov Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 7 Vertical Le West Return	Lake Rd, Sui: 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0 n 0 Pairs 50	tel35 C Fax: +1 np@106.5% PHes AZ14- (FT)) -2.0= 4 Pairs 0	Orlando, 1.973.79 770 Unit 12 ft == 0	FL 32819 5.1491 C 1.00 LS width (=> Pay 4	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00	V-10	t: 10.00 Cal:		
Alwyn McDov Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 2 Vertical Le West Return 0 Front Wall	Lake Rd, Sui: 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0 n 0 Pairs 50	te135 C Fax: +1 np@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs 0 Pairs	Orlando, 1.973.79 770 Unit 12 ft == 0	FL 32819 5.1491 C 1.00 LS width (=> Pay 4 0	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00 53.42 48,	V-10	t: 10.00 Cal:		
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.33 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 7 Vertical Le West Return 0 Front Wall East Return	Lake Rd, Suit 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 ll H Length Total Weight ength (-40.0 n 0 Pairs 50	te135 C Fax: +1 np@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs 0 Pairs	Orlando, 973.79 770 Unit 12 ft == 0 0 5.05	FL 32819 5.1491 C 1.00 LS width (=> Pay 4 0	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 53.42 48, 53.42 0.0	V-10 00 078.00	t: 10.00 Cal:	Weight Single	
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 2 Vertical Le West Return 0 Front Wall East Return Totals 50	Lake Rd, Sui: 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0 n 0 Pairs 50 n	tel35 C Fax: +1 mp@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs 0 Pairs Pairs	Orlando, 1.973.79 770 Unit 12 ft == 0 0 5.05	FL 32819 5.1491 C 1.00 LS width (=> Pay 4 0	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00 53.42 48, 53.42 0.0 48,078.00 Area (Ft^2/1,830.00	V-1000 078.00 00 Total	ength (ft)	Weight Single	
Alwyn McDow Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 2 Vertical Le West Return 0 Front Wall East Return Totals 50 Coat front 2AZ14-770	Lake Rd, Sui: 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 ll H Length Total Weight ength (-40.0 n 0 Pairs 50 n face AZ14-770 She	te135 C Fax: +1 mp@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs 0 Pairs Pairs	Orlando, 1.973.79 770 Unit 12 ft == 0 0 5.05	FL 32819 5.1491 C 1.00 LS width (=> Pay 4 0 10.00	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00 53.42 48, 53.42 0.0 48,078.00 Area (Ft^2/1,830.00 0.850	V-1000 078.00 078.00 44	ength (ft)	Weight Single	44,175
Alwyn McDov Skyline Ste 7380 Sand I Tel: +1.32 31PILETEMPL 201054 Sheet Piles Wal (Lb/Ft) 2 Vertical Le West Return 0 Front Wall East Return Totals 50 Coat front 2AZ14-770	Lake Rd, Sui: 21.274.9283 A Sheet pile Ten Supply Sheet s AZ14-770 11 H Length Total Weight ength (-40.0 n 0 Pairs 50 n	te135 C Fax: +1 np@106.5% Piles AZ14- (FT)) -2.0= 4 Pairs 0 Pairs Pairs	Orlando, 1.973.79 770 Unit 42 ft == 0 0 5.05	FL 32819 5.1491 C 1.00 LS width (=> Pay 4 0 10.00 0	Qu 2w) 5 ft 53.42	3,500.000 an: 48,078.00 Li QTY (PAIRS) 53.42 0.0 0.00 53.42 48, 53.42 0.0 48,078.00 Area (Ft^2/1,830.00	V-10 00 078.00 078.00	ength (ft)	Weight Single	

Coat front f	ace				Area (Ft^2/Ft)	Total Area (SF)	
		10	30	6.1	1,830.00		
2AZ14-770	AZ14-770 Sheet @106.5%		48,078.00 LB		0.850	44,175	44,175
2COATSHEETS	Coat Sheet Pile@106.5%		1,830.00 SF		2.750	5,440	5,440
2SPCORNER	Sheet Pile Corn@106.5%		1.00 EA		2,700.000	2,919	2,919
\$52,534.08					[]	52,534	52,534

Quan:

48.00 LF Hrs/Shft: 10.00 Cal: 510 WC: CCISP

Drive Permanent Sheeting

1 day to re	locate and 3 days dr	ving=	total 4 d	lays						
MARPIL	Marine Piling & Demo Crev			40.00 CH	Prod:	4.0000 S	Lab Pcs:	5.00	Eqp Pcs:	18.00
3WELD	Weld Supplies (1 man-Stick		4.00 DA		70.000		283			283
8211050	Fuel, Oil, Grease 50g/d		4.00 DA		200.000			808		808
8CRANEC200	Crane Manitowoc 777 20	1.00	40.00 HR		200.743			8,110		8,110
8DRILLR	***DRILLS - ROCK***	1.00	40.00 HR		17.500			707		707
8MAC-A-10	Compressor 185 CFM	1.00	40.00 HR		3.000			128		128
8MBC-Z-1	Barge Carpenter 12'X40	2.00	80.00 HR		6.500			554		554
8MBS-Z-17	Spud Barge 170x45' ABS	1.00	40.00 HR		55.000			2,343		2,343
8MBT-Z-12	Tug Push Boat 200 HP	1.00	40.00 HR		20.000			852		852
8MBW-Z-2	18' Aluminum Boat & O/	1.00	40.00 HR		3.000			128		128
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	40.00 HR		5.000			213		213
8MDH-A-7	DELMAG D19 HAMMER	1.00	40.00 HR		10.000			426		426
8MFD-A-1	FAIRLEADS	1.00	40.00 HR		0.100			4		4
8MGN-Z-11	Generator 10 KW	1.00	40.00 HR		3.000			128		128
8MLT-A-1	Light Tower, Genie	1.00	40.00 HR		3.500			149		149

Direct Cost Report

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Activity Resource	Desc	Pcs	Quantity Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
	2000170		- 1	and Item	SCHEDU			00			
Description =	Sheet Piling			Unit =	LF	Takeoff	Quan:	48.000	Engr	Quan:	48.000
8MPE-A-11	Extractor Pile	1.00	40.00 HR		5.000				213		213
8MVP-A-11	FORD F150 SUPERC 10	1.00	40.00 HR		6.500				277		277
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	40.00 HR		10.000				426		426
8MWM-C-1	Welder Diesel 400 AMP	1.00	40.00 HR		2.500				107		107
8PILE26	Vibro Hammer 150 TN	1.00	40.00 HR		80.944				3,270		3,270
9ADMS11	Subsistance Crew 5		4.00 DA		750.000			3,030			3,030
M105	Foreman - General Marine	1.00	40.00 MH		39.030	2,352					2,352
M165	M-Piledriver	1.00	40.00 MH		38.200	2,334					2,334
M170	M-Welder	1.00	40.00 MH		34.960	2,176					2,176
M190	M-Skilled Laborer	1.00	40.00 MH		31.960	1,894					1,894
OPCR100	Op Eng 1A- Crane 100-200		40.00 MH		36.580	2,255		2 242	10.040		2,255
\$33,166.55	4.1666 MH/LF		200.00 MH	- 1	165.669]	11,012		3,313	18,842	Charles .	33,167
303022	Set Pile Template	100		Quan:	1.00	EA Hr	Shft:	10.00 Cal:	510 WC	CCISP	-
1 day	Marine Billion & Dome Com-		10.0	20 CH	Dood	10	2 000	Lab Desi	F 00	Fee Desi	10.00
MARPIL 3WELD	Marine Piling & Demo Crew Weld Supplies (1 man-Stick		1.00 DA	00 CH	70.000	1.0	000 S	Lab Pcs: 71	5.00	Eqp Pcs:	18.00 71
8211050	Fuel, Oil, Grease 50g/d		1.00 DA		200.000			/1	202		202
8CRANEC200	Crane Manitowoc 777 20	1.00	10.00 HR		200.743				2,027		2,027
8DRILLR	***DRILLS - ROCK***	1.00	10.00 HR		17.500				177		177
8MAC-A-10	Compressor 185 CFM	1.00	10.00 HR		3.000				32		32
8MBC-Z-1	Barge Carpenter 12'X40	2.00	20.00 HR		6.500				138		138
8MBS-Z-17	Spud Barge 170x45' ABS	1.00	10.00 HR		55.000				586		586
8MBT-Z-12	Tug Push Boat 200 HP	1.00	10.00 HR		20.000				213		213
8MBW-Z-2	18' Aluminum Boat & O/	1.00	10.00 HR		3.000				32		32
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	10.00 HR		5.000				53		53
8MDH-A-7		1.00	10.00 HR		10.000				107		107
8MFD-A-1	FAIRLEADS	1.00	10.00 HR		0.100				1		1
8MGN-Z-11	Generator 10 KW	1.00	10.00 HR		3.000				32		32
8MLT-A-1	Light Tower, Genie Extractor Pile	1.00	10.00 HR		3.500				37 53		37 53
8MPE-A-11 8MVP-A-11	FORD F150 SUPERC 10	1.00	10.00 HR 10.00 HR		5.000 6.500				69		69
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	10.00 HR		10.000				107		107
8MWM-C-1	Welder Diesel 400 AMP	1.00	10.00 HR		2.500				27		27
8PILE26	Vibro Hammer 150 TN	1.00	10.00 HR		80.944				818		818
9ADMS11	Subsistance Crew 5	1,00	1.00 DA		750.000			758	0.0		758
M105	Foreman - General Marine	1.00	10.00 MH		39.030	588					588
M165	M-Piledriver	1.00	10.00 MH		38.200	584					584
M170	M-Welder	1.00	10.00 MH		34.960	544					544
M190	M-Skilled Laborer	1.00	10.00 MH		31.960	474					474
OPCR100	Op Eng 1A- Crane 100-200		10.00 MH		36.580	564		24.3	1-24.5		564
\$8,291.59	50.0000 MH/E/	A	50.00 MH	[1988.03]	2,753		828	4,710		8,292
305025	Sheet Pile Drilling		Maria Caraca	Quan:	48.00	LF Hr	s/Shft:	10.00 Cal:	510 WC	: CCISP	211
	y drilling as a conti						000 6	Latin	5.00	C== C	10.00
MARPIL	Marine Piling & Demo Crev			00 CH	Prod	3.0	000 S	Lab Pcs:	5.00	Eqp Pcs:	18.00
3WELD	Weld Supplies (1 man-Stick		3.00 DA		70.000			212	606		212 606
8211050 8CRANEC200	Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20	1.00	3.00 DA 30.00 HR		200.000				6,082		6,082
BDRILLR	***DRILLS - ROCK***	1.00	30.00 HR		17.500				530		530
8MAC-A-10	Compressor 185 CFM	1.00	30.00 HR		3.000				96		96
011111011110	Barge Carpenter 12'X40	2.00	60.00 HR		6.500				415		415
8MBC-7-1		1.00	30.00 HR		55.000				1,757		1,757
	Spud Darde 170X43 AD3								-		
8MBS-Z-17	Spud Barge 170x45' ABS Tug Push Boat 200 HP	1.00	30.00 HR		20.000				639		639
8MBC-Z-1 8MBS-Z-17 8MBT-Z-12 8MBW-Z-2					20.000 3.000				639 96		639 96
8MBS-Z-17 8MBT-Z-12	Tug Push Boat 200 HP	1.00	30.00 HR								

Direct Cost Report

BID ITEM	= 2000170			Land Item SCHEDI	JLE: 1 10	0		
Description =	Sheet Piling			Unit = LF	Takeoff Quan:	48.000	Engr Quan:	48.000
8MFD-A-1	FAIRLEADS	1.00	30.00 HR	0.100			3	3
8MGN-Z-11	Generator 10 KW	1.00	30.00 HR	3.000			96	96
8MLT-A-1	Light Tower, Genie	1.00	30.00 HR	3.500			112	112
8MPE-A-11	Extractor Pile	1.00	30.00 HR	5.000			160	160
8MVP-A-11	FORD F150 SUPERC 10	1.00	30.00 HR	6.500			208	208
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	30.00 HR	10.000			320	320
8MWM-C-1	Welder Diesel 400 AMP	1.00	30.00 HR	2,500			80	80
8PILE26	Vibro Hammer 150 TN	1.00	30.00 HR	80.944			2,453	2,453
9ADMS11	Subsistance Crew 5		3.00 DA	750.000		2,273		2,273
M105	Foreman - General Marine	1.00	30.00 MH	39.030	1,764			1,764
M165	M-Piledriver	1.00	30.00 MH	38.200	1,751			1,751
M170	M-Welder	1.00	30.00 MH	34.960	1,632			1,632
M190	M-Skilled Laborer	1.00	30.00 MH	31.960	1,421			1,421
OPCR100	Op Eng 1A- Crane 100-200	1.00	30.00 MH	36.580	1,691			1,691
\$24,874.88	3.1250 MH/LI	F	150.00 MH	[124.252]	8,259	2,485	14,132	24,875
====> Iter	n Totals: 2000170 -	Sheet P	iling		4 3 10 3 3		100000	
\$122,631.88	8.3333 MH/LF		400.00 MH	[331.338]	22,023 52,534	10,390	37,684	122,632
2,554.831	48 LF				458.82 1,094.46	216.47	785.08	2,554.83

Supply Whaler System for Tiebacks

48.00 LF Hrs/Shft: 10.00 Cal: 510 WC: CCISP

Here are the numbers we came up with.

AZ14-770 \$0.80/1b

Double Channel Waler \$250/ft

Tie Rods #11 Gr 75 is more readily available @ \$6.00/ft

Coating \$2.50.SF

Thanks

Alwyn McDowall, Civil Engineer-BDM Southeast

Skyline Steel

7380 Sand Lake Rd, Suite135 | Orlando, FL 32819 USA
Tel: +1.321.274.9283 Fax: +1.973.795.1491 Cell: +1.201.247.2992
2WALER Waler System fo@106.5% 50.00 LF 250.000

13,512

13,512

201026	Install Waler System		190103-1UH	Quan	48.00 LF	Hrs/Shft:	10.00 Cal:	510 WC:	CCISP	7
A STATE OF THE PARTY OF THE PAR	a subcontractor to d	o this	task 20.00	CH	Prod:	2.0000 S	Lab Pcs:	6.00	Eqp Pcs:	9.00
MARTIE 8211050	Marine Tie Back Crew Fuel, Oil, Grease 50g/d		2.00 DA	СП	200.000	2.0000 3	Lau PCS.	404	Eqp res.	404
8BHLD416	BHL Cat 416E 1CY	1.00	20.00 HR		28.006			566		566
8MAC-A-17	Atlas Copco 185 CFM Ai	1.00	20.00 HR		3.000			64		64
8MCH-Z-1	30TN RT CRANE 152HP	1.00	20.00 HR		35.200			750		750
8MCN-A-13	Container Steel 20'	1.00	20.00 HR		0.100			2		2
8MFW-A-1	Work Float	1.00	20.00 HR		2.000			43		43
8MGN-Z-17	Generator 8 KW	1.00	20.00 HR		2.000			43		43
8MLT-A-5	Light Tower	1.00	20.00 HR		2.500			53		53
8MVP-A-2	FORD F150 SUPERC 2	1.00	20.00 HR		6.500			138		138
8WELD400	Welder 400 AMP	1.00	20.00 HR		8.035			162		162
M170	M-Welder	1.00	20.00 MH		34.960	1,088				1,088
M180	M-Carpenter Helper	1.00	20.00 MH		30.070	901				901

Direct Cost Report

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Resource	Desc	Pcs	Quantity Unit		nit est Labor	Perm Material	Constr Matl/Exp	Equip Sub- Ment Contract	Total
BID ITEM	= 2000172		PAGE 1	Land Item SCH	DULE:	1 10	00		THE W
escription =	Soil Anchor Tie backs			Unit =	A Takeoff	Quan:	4.000	Engr Quan:	4.000
M195	M-Laborer	2.00	40.00 MH	30.1	00 1,803				1.803
PCR24	Op Eng 2- Crane 20-44T	1.00	20.00 MH	35.4	00 1,099				1,099
PEXC3	Op Eng 3- Backhoe to 3Y	1.00	20.00 MH	35.3	0 1,098				1,098
8,213.06	2.5000 MH/L	F	120.00 MH	[89.84	5,988			2,225	8,213

4 SOIL ANCHORS AT 4*50 = 200 FT

THEN: 200 FT*\$15= \$3000

Here are the numbers we came up with.

AZ14-770 \$0.80/lb
Double Channel Waler \$250/ft
Tie Rods #11 Gr 75 is more readily available @ \$6.00/ft
Coating \$2.50.SF

Thanks

Alwyn McDowall, Civil Engineer-BDM Southeast Skyline Steel

7380 Sand Lake Rd, Suitel35 | Orlando, FL 32819 USA Tel: +1.321.274.9283 Fax: +1.973.795.1491 Cell: 2NUTS Nuts for #20 Ba@106.5% 4.00 EA +1.201.247.2992 20.000 86 86 2PLATES&WAS Plates and Wash@106.5% 4.00 EA 86 20.000 86 811 2PVCSLEEVE PVC Sleeve and @106.5% 150.00 LF 5.000 811 2SP04 PT Thread Bar #@106.5% 200.00 LF 10.000 2,162 2,162 \$3,145.64 [] 3,146 3,146

201030 Install System/Soil Anchor	CONTRACTOR OF THE PARTY OF	Quan:	4.00 EA	Hrs/Shft:	10.00	Cal: 510	WC: CCISP	
Phone Call with Tom Anderson, Schnabel 42SCHNABLE Soil Anchor Subcontractor	, Orlando 4.00 EA	3.00	0.000				12,144	12,144
42SCHNABLEM Schnable Mob & Demob	2.00 EA	2,50	0.000				5,060	5,060
\$17,204.00			[]				17,204	17,204

03035	Floating Support for Soil	Anchor [Drillin	Quan: 4.00	EA Hr	s/Shft: 1	0.00 Cal:	510 WC	CCISP	2000
days to su	apport Schnable or	whoever	the specialty	subcontractor	is. th	e same	amount o	of works		
MARLAN	Up Land Support Crew		20.00	CH Pro	d: 2.0	000 S	Lab Pcs:	5.00	Eqp Pcs	4.00
211050	Fuel, Oil, Grease 50g/d		2.00 DA	200.000				404		404
BHLD480	BHL Cat 450E 1.75CY	1.00	20.00 HR	56.724				1,146		1,146
CRANERT530	Crane Grove RT530E 30	1.00	20.00 HR	64.705				1,307		1,307
MBC-Z-1	Barge Carpenter 12'X40	1.00	20.00 HR	6.500				138		138
MFW-A-1	Work Float		40.00 HR	2.000				85		85
MFW-A-2	Work Float		40.00 HR	2.000				85		85
TRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	20.00 HR	10.867				219		219
ADMS11	Subsistance Crew 5		0.40 DA	750.000			303			303
ADMT08	Craft Subsistence (\$120/D	/	2.00 DA	480.000			970			970
1105	Foreman - General Marine	1.00	20.00 MH	39.030	1,176					1,176
1195	M-Laborer	2.00	40.00 MH	30.100	1,803					1,803
PCR24	Op Eng 2- Crane 20-44T	1.00	20.00 MH	35.400	1,099					1,099
PEXC3	Op Eng 3- Backhoe to 3Y	1.00	20.00 MH	35.390	1,098					1,098
9,833.84	25.0000 MH/	EA	100.00 MH	[935.11]	5,176		1,273	3,385		9,834
===> Item 1	Totals: 2000172	- Soil And	chor Tie backs						Tall D	
51,908.73	55.0000 MH/EA		220.00 MH	[2013.22]	11,164	16,658	1,273	5,610	17,204	51,909
2.977.183	4 EA				2,791.12	4,164.46	318.15	1,402.46	4,301.00	12,977.18

Jorge Abisambra

Direct Cost Report

Activity Resource	Desc	Quantity Pcs Unit	Unit Cost		Perm Constr terial Mati/Exp	Equip Ment C	Sub- Contract	Total
	2000172 Soil Anchor Tie backs	NEW TO	Land Item SCHED Unit = EA	ULE: 1 Takeoff Quar	100 n: 4.000	Engr Q	uan:	4.000
			Total	of Above Sub-E	Biditems			
====> Item T	otals: 2000166 -	Sheet Piling (AZ14-770))					DIE
\$174,540.61	12.9166 MH/LF	620.00 MH	[499.107]	33,188 69	11,663	43,294	17,204	174,541
3,636.263	48 LF			691.41 1.44	11.50 242.98	901.96	358 42	3,636.26

BID ITEM = 2000174 Description = Bulkhead Concrete Cap Land Item SCHEDULE: 1

48.000 48.000 Unit = LF Takeoff Quan: Engr Quan:

Section: 4*4+0.667*1= 16.67 sf

volume: 16.67*50= 833.50 CF ====>> 833.5/27= 31cy

add 10% waste ===>> 34.1 cy REbar: 160lb/cy*31= 4960 lbs

319010	Prepare/Fabricate Steel W	et Forms	-	Quan:	1.00 L	.S Hrs/Shft:	10.00 Cal	510 WC	CCISP	-
31FMCPUR	Special Form Pu@106.5%		1.00 LS		3,500.000		3,765			3,765
321015	Sheet Pile Cap - Form, Pou	ur & Strip		Quan	48.00 L	.F Hrs/Shft:	10.00 Cal	510 WC	CCISP	
48 feet say	6 days									
MARLAN	Up Land Support Crew		60.0	00 CH	Prod:	6.0000 S	Lab Pcs:	5.00	Eqp Pcs:	4.00
8211050	Fuel, Oil, Grease 50g/d		6.00 DA		200.000			1,212		1,212
8BHLD480	BHL Cat 450E 1.75CY	1.00	60.00 HR		56.724			3,437		3,437
8CRANERT530	Crane Grove RT530E 30	1.00	60.00 HR		64.705			3,921		3,921
8MBC-Z-1	Barge Carpenter 12'X40	1.00	60.00 HR		6.500			415		415
8TRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	60.00 HR		10.867			659		659
9ADMS11	Subsistance Crew 5		4.80 DA		750.000		3,636			3,636
9ADMT08	Craft Subsistence (\$120/D/		6.00 DA		480.000		2,909			2,909
CARPJ	==> Carpenter Journeyman		4.00 MH		31.920	200				200
M100	==> Foreman - Carpenter		1.00 MH		34.720	54				54
M105	Foreman - General Marine	1.00	60.00 MH		39.030	3,529				3,529
M195	M-Laborer	2.00	120.00 MH		30.100	5,409				5,409
OPCR24	Op Eng 2- Crane 20-44T	1.00	60.00 MH		35.400	3,296				3,296
OPEXC3	Op Eng 3- Backhoe to 3Y	1.00	60.00 MH		35.390	3,295				3,295
\$31,971.30	6.3541 MH/LI		305.00 MH	I	237.499]	15,782	6,545	9,644		31,971
325900	Supply 5000 PSI Marine C	concrete		Quan	31.00 C	Y Hrs/Shft:	10.00 Cal	510 WC	CCISP	

REbar: 160lb/cy*31= 4960 lbs 2CR14 5000 PSI Marine@106.5% 34.00 CY 296.000 10,879 10,879 170 5.000 170 5CONCPCY 34.00 CY Cubic Yard Charge \$11,048.93 [] 10,879 170 11,049

Quan: 4,960.00 LBS Hrs/Shft: 10.00 Cal: 510 WC: CCISP 380010 Superstructure Rebar Front Wall

Section: 4*4+0.667*1= 16.67 sf

volume: 16.67*50= 833.50 CF ====>> 833.5/27= 31cy

add 10% waste ===>> 34.1 cy

REbar: 160lb/cy*31= 4960 lbs

1,081 1,081 500.000 2REBARHANGE Rebar Hanger@106.5% 2.00 EA

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Activity Resource	Desc	Pcs	Quantity Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
	2000174 Bullshard Connects Con			Land Item	SCHEDU			00	-	0	40.000
Description =	Bulkhead Concrete Cap			Unit =	LF	Takeoff	Quan:	48.000	Engr	Quan:	48.000
2RR02	Gr 60 Rebar@106.5%	1.03	5,108.80 LB		0.480		2,651				2,651
2RR10	Rebar Supports@106.5%	1.03	5,108.80 LB		0.050		276				276
REBAR	Rebar Sub	1.03	5,108.80 LB		0.250					1,293	1,293
5,300.42	No. of Party				[]		4,008	100		1,293	5,300
80012	Concrete Pumping	Sept.		Quan	1.00	DA Hr	s/Shft:	10.00 Cal:	510 WC	CCISP	REG
SCONCP28M	Concrete Concrete Pump 2	8	16.00 HR		95.000			1,520			1,520
5CONCPCY	Cubic Yard Charge		34.00 CY		2.250			77			77
1,596.50					[]			1,597			1,597
====> Item 7 \$53,681.93 1,118.374	Fotals: 2000174 - 6.3541 MH/LF 48 LF	Bulkhe	ead Concrete Cap 305.00 MH		237.499]	15,782 328.79	14,887 310.14	12,076 251.59	9,644 200.93	1,293 26.93	53,682 1,118.37
	2000176 Backfill/Flowable Fill			Land Item Unit =	SCHEDU	LE: 1 Takeoff		40.000	Engr	Quan:	40.000
vol2= 2.6ft*	ft*4ft*41ft= 136 ft 7ft*41ft= 746.2 ft3		100f+3		40.00						17
vol2= 2.6ft* vol3= (0.83* total= 991 f) /2=	>> SAY 40cy			ginal d	esign)				
rol2= 2.6ft* rol3= (0.83* cotal= 991 f DLD SECTION: Section area	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY =)/2= ====> d to 3.5*	>> SAY 40cy	nges from		ginal d	esign)				
rol2= 2.6ft* rol3= (0.83* cotal= 991 f DLD SECTION: Section area rolume: 36.0 waste 15% ==	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3) = 5*50 = 1,802 cf = 67)/2= ===> d to 3.5* cy	>> SAY 40cy	nges from		ginal d	design)				7,210
rol2= 2.6ft* rol3= (0.83* total= 991 f DLD SECTION: Section area rolume: 36.0 waste 15% == CCR15FLOWAB	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3) = 5*50= 1,802 cf = 67 =>> 77 cy)/2= ===> d to 3.5* cy	show the character 36.05	nges from	the original 145.000		7,210	10.00 Cal:	510 WC	CCISP	7,210
rol2= 2.6ft* rol3= (0.83* rotal= 991 f DLD SECTION: Section area rolume: 36.0 waste 15* == CCR15FLOWAB	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3) = 5*50= 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5%)/2= ===> d to 3.5* cy	show the char 10.3= 36.05 :	nges from sf Quan	the original 145.000	CY Hr	7,210 s/Shft:	10.00 Cal:			100
rol2= 2.6ft* rol3= (0.83* rotal= 991 f DLD SECTION: Section area rolume: 36.0 waste 15* == CCR15FLOWABI 203010 MARLAN	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3)= 15*50= 1,802 cf = 67 Figure 17 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew)/2= ===> d to 3.5* cy	>> SAY 40cy show the char 10.3= 36.05 :	nges from sf	145.000 40.00 Prod	CY Hr	7,210	No.	5.00	CCISP Eqp Pcs	4.00
rol2= 2.6ft* rol3= (0.83* rotal= 991 f DLD SECTION: Section area rolume: 36.0 waste 15* == CCR15FLOWABI MARLAN 3211050	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3)= !5*50= 1,802 cf = 67 :=>> 77 cy LFlowable Fill K@106.5%)/2= ; ====>: d to ; 3.5*; cy	show the char 10.3= 36.05 3 46.00 CY	nges from sf Quan	the original 145.000	CY Hr	7,210 s/Shft:	10.00 Cal:			100
rol2= 2.6ft* rol3= (0.83* rotal= 991 f DLD SECTION: Section area rolume: 36.0 waste 15% == CCR15FLOWABI MARLAN 3211050 38HLD480	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3) = 5*50= 1,802 cf = 67) Fight Flowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d)/2= ===> d to 3.5* cy	>> SAY 40cy show the char 10.3= 36.05 :	nges from sf Quan	145.000 40.00 Prod 200.000	CY Hr	7,210 s/Shft:	10.00 Cal:	5.00		4.00
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area Volume: 36.0 waste 15% == 2CR15FLOWAB	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3) = 5*50= 1,802 cf = 67) Figure 1.802 cf = 67 Figure 2.802 cf = 67 Figure 3.802 cf = 67 Figure 3.8)/2= ; ====> d to ; 3.5*; cy	show the char 10.3= 36.05 s 46.00 CY	nges from sf Quan	145.000 40.00 Prod 200.000 56.724	CY Hr	7,210 s/Shft:	10.00 Cal:	5.00 202 573		4.00 202 573
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area Volume: 36.0 waste 15% == 2CR15FLOWABI 203010 MARLAN 3211050 BBHLD480 BCRANERT530	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3) = 5*50 = 1,802 cf = 67) White is a support of the support)/2= :> d to : 3.5* cy 1.15	show the char 10.3= 36.05 s 46.00 CY	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705	CY Hr	7,210 s/Shft:	10.00 Cal:	5.00 202 573 654		4.00 202 573 654
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area volume: 36.0 waste 15% == 2CR15FLOWAB 203010 MARLAN 3211050 3BHLD480 3CRANERT530 3MBC-Z-1 3TRKPU10	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and 3.5 * (-7-(+3.3) = 5*50 = 1,802 cf = 67 2=>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40	1.00 1.00 1.00	show the char 10.3= 36.05 1 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500	CY Hr	7,210 s/Shft:	10.00 Cal:	5.00 202 573 654 69		4.00 202 573 654 69
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area Volume: 36.0 waste 15% == 2CR15FLOWABI 203010 MARLAN 8211050 8BHLD480 8CRANERT530 8MBC-Z-1	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3) = :5*50= 1,802 cf = 67 :>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	1.00 1.00 1.00	show the char 10.3= 36.05 : 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867	CY Hr	7,210 s/Shft:	10.00 Cal: Lab Pcs:	5.00 202 573 654 69		4.00 202 573 654 69 110
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area volume: 36.0 waste 15% == 2CR15FLOWABI 203010 MARLAN 8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3) = 5*50= 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00 1.00 1.00	show the character of t	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000	CY Hr	7,210 s/Shft:	10.00 Cal: Lab Pcs:	5.00 202 573 654 69		4.00 202 573 654 69 110 3,030
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area volume: 36.0 waste 15% == 2CR15FLOWABI 203010 MARLAN 3211050 3BHLD480 3CRANERT530 3BHC-Z-1 3TRKPU10 9ADMS11 9ADMT08	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and it is	1.00 1.00 1.00	show the character of t	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000	CY Hn: 1.0	7,210 s/Shft:	10.00 Cal: Lab Pcs:	5.00 202 573 654 69		4.00 202 573 654 69 110 3,030 485
vol2= 2.6ft* vol3= (0.83* total= 991 f DLD SECTION: Section area Volume: 36.0 waste 15% == 2CR15FLOWAB 203010 MARLAN 3211050 3BHLD480 3CRANERT530 3BHLD480 3CRANERT530 3TRKPU10 3ADMS11 3ADMT08 M105 M195	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and it 3.5 * (-7-(+3.3) = 15*50 = 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Foreman - General Marine)	1.00 1.00 1.00	show the character of t	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030	CY Hr: 1.0	7,210 s/Shft:	10.00 Cal: Lab Pcs:	5.00 202 573 654 69		4.00 202 573 654 69 110 3,030 485 588
rol2= 2.6ft* rol3= (0.83* rol3= (9.83* rotal= 991 f re======= DLD SECTION: Section area rolume: 36.0 waste 15* == CCR15FLOWAB 203010 MARLAN 8211050 8BHLD480 8CRANERT530 8BHLD480 8CRANERT530 8MBC-Z-1 STRKPU10 9ADM511 9ADM511 9ADM512 9ADM512 9ADM513 9ADM513 9ADM514 9ADM708 M105 M195 DPCR24 DPEXC3	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3)= 5*50= 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y	1.00 1.00 1.00 1.00 1.00 1.00	show the char 10.3= 36.05 s 46.00 CY 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 MH 10.00 MH 10.00 MH 10.00 MH	nges from sf Quan	145.000 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390	CY Hr.: 1.0 588 902 549 549	7,210 s/Shft:	10.00 Cal: Lab Pcs: 3,030 485	5.00 202 573 654 69 110		4.00 202 573 654 69 110 3,030 485 588 902 549 549
rol2= 2.6ft* rol3= (0.83* rol3= (991 f	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3)= 5*50= 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	1.00 1.00 1.00 1.00 1.00 1.00	show the char 10.3= 36.05 s 46.00 CY 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 MH 20.00 MH 10.00 MH	nges from sf Quan	145.000 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400	CY Hr: : 1.0	7,210 s/Shft:	10.00 Cal: Lab Pcs:	5.00 202 573 654 69		4.00 202 573 654 69 110 3,030 485 588 902 549
rol2= 2.6ft* rol3= (0.83* rol3= (9.83* rotal= 991 f rola====== DLD SECTION: Section area rolume: 36.0 raste 15* == CCR15FLOWABI 03010 MARLAN 0211050 03HBC-Z-1 03H	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison an : 3.5 * (-7-(+3.3)= 5*50= 1,802 cf = 67 =>> 77 cy LFlowable Fill K@106.5% Install Flowable Fill Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y	1.00 1.00 1.00 1.00 1.00 1.00	show the char 10.3= 36.05 s 46.00 CY 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 MH 20.00 MH 10.00 MH 10.00 MH	nges from sf Quan	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [46.756]	CY Hr.: 1.0 588 902 549 549	7,210 s/Shft: 3	10.00 Cal: Lab Pcs: 3,030 485	5.00 202 573 654 69 110	Eqp Pcs	4.00 202 573 654 69 110 3,030 485 588 902 549 549
rol2= 2.6ft* rol3= (0.83* rol3= (9.83* rotal= 991 f DLD SECTION: Section area rolume: 36.0 Waste 15* == CR15FLOWABI 203010 MARLAN 211050 3BHLD480 3CRANERT530 3BHC-Z-1 3TRKPU10 3ADMT11 3ADMT08 M105 M195 DPCR24 DPCR24 DPCR24 DPCR24 DPCR24 DPCR24 DPCR25 367,710.19	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and and and and and and and and and an	1.00 1.00 1.00 1.00 1.00 1.00	show the char 10.3= 36.05 s 46.00 CY 46.00 CY 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 DA 1.00 MH 20.00 MH 10.00 MH 10.00 MH	Quan:	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [46.756]	588 902 549 549 2,588	7,210 s/Shft: 3	10.00 Cal: Lab Pcs: 3,030 485	5.00 202 573 654 69 110	Eqp Pcs	4.00 202 573 654 69 110 3,030 485 588 902 549 549
7012= 2.6ft* 7013= (0.83* 1013= (0.83* 1014= 991 f DLD SECTION: Section area 701ume: 36.0 Waste 15% == 2CR15FLOWAB 203010 MARLAN 3211050 38HLD480 3CRANERT530 3BHLD480 3CRANERT530 3CR	7ft*41ft= 746.2 ft3 4*10.2ft+2.6*7*10.2 t3 ====>> 36.7 CY = (for comparison and and and and and and and and and an	1.00 1.00 1.00 1.00 1.00 1.00 1.00	show the character of t	Quan:	145.000 40.00 Prod 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [46.756]	588 902 549 549 2,588	7,210 s/Shft: 3	10.00 Cal: Lab Pcs: 3,030 485	5.00 202 573 654 69 110	Eqp Pcs	4.00 202 573 654 69 110 3,030 485 588 902 549 549

Direct Cost Report

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	2000176 Backfill/Flowable Fill			Lar	d Item	SCHEDUL			00	-	0	40.000
Description =	Backfill/Flowable Fill				Unit =	CY	Takeoff (Quan;	40.000	Engr	Quan:	40.000
203016	Place Concrete		DEPT.		Quan	40.00 0	Y Hrs	/Shft:	10.00 Cal:	510 WC	CCISP	1370
MARLAN	Up Land Support Crew			5.00	СН	Prod:	0.50	000 S	Lab Pcs:	5.00	Eqp Pcs:	4.00
3211050	Fuel, Oil, Grease 50g/d		0.50 DA			200.000				101		101
BBHLD480	BHL Cat 450E 1.75CY	1.00	5.00 HR			56.724				286		286
BCRANERT530	Crane Grove RT530E 30	1.00	5.00 HR			64.705				327		327
8MBC-Z-1	Barge Carpenter 12'X40	1.00	5.00 HR			6.500				35		35
BTRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	5.00 HR			10.867				55		55
9ADMS11	Subsistance Crew 5	1.00	4.00 DA			750.000			3,030	33		3,030
9ADMT08	Craft Subsistence (\$120/D/		0.50 DA			480.000			242			242
M105	Foreman - General Marine	1.00	5.00 MH			39.030	294		242			294
M195												-
	M-Laborer	2.00	10.00 MH			30.100	451					451
OPCR24	Op Eng 2- Crane 20-44T	1.00	5.00 MH			35.400	275					275
OPEXC3	Op Eng 3- Backhoe to 3Y	1.00	5.00 MH			35.390	275		2.070	00.		275
\$5,370.06	0.6250 MH/C	1	25.00 MH			[23.378]	1,294		3,272	804		5,370
====> Item 1	Totals: 2000176 -	Backfil	I/Flowable Fill						1000	72.13		
\$21,425.37	1.8750 MH/CY		75.00 MH			[70.134]	3,882	8,345	6,787	2,411		21,425
			73.00 IVIT			[70.134]	3,002	0,343	0,707	6,711		21,420
35.634 BID ITEM =	40 CY 2000178		73.00 WH		nd Item	SCHEDUL	97.05 LE: 1	208.63	169.68	60.27		535.63
335.634 BID ITEM =	40 CY	Repair	73.00 Min		d Item Unit =	SCHEDUL	97.05	208.63	169.68	60.27	Quan:	535.63
BID ITEM = Description =	40 CY 2000178					SCHEDUI EA	97.05 LE: 1	208.63 10 Quan:	169.68	60.27 Engr		
BID ITEM = Description = 321015	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pou			Lar	Unit =	SCHEDUL EA	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000	60.27 Engr	CCISP	1.000
BID ITEM = Description = 321015 3 days per c	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour		rip		Unit =	SCHEDUL EA : 3.00 C	97.05 E: 1 Takeoff (208.63 10 Quan:	169.68	60.27 Engr 510 WC		1.000
BID ITEM = Description = 321015 3 days per c MARLAN 3211050	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour flow Up Land Support Crew Fuel, Oil, Grease 50g/d	ur & Str	3.00 DA	Lar	Unit =	SCHEDUL EA : 3.00 E Prod: 200.000	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000	Engr 510 WC 5.00 606	CCISP	1.000 4.00 606
BID ITEM = Description = 321015 3 days per commarkan MARLAN 3211050 BBHLD480	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY	ur & Str	3.00 DA 30.00 HR	Lar	Unit =	SCHEDUL EA 3.00 D Prod: 200.000 56.724	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000	Engr 510 WC 5.00 606 1,719	CCISP	1.000 4.00 606 1,719
BID ITEM = Description = 321015 3 days per c MARLAN 8211050 8BHLD480 8CRANERT530	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30	1.00 1.00	3.00 DA 30.00 HR 30.00 HR	Lar	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000	Engr 510 WC 5.00 606 1,719 1,961	CCISP	1.000 4.00 606 1,719 1,961
BID ITEM = Description = 321015 3 days per c MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR	Lar	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208
BID ITEM = Description = 321015 3 days per c MARLAN 8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR	Lar	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	Engr 510 WC 5.00 606 1,719 1,961	CCISP	1.000 4.00 606 1,719 1.961 208 329
BID ITEM = Description = 321015 3 days per c MARLAN 8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA	Lar	Unit =	SCHEDUL EA 3.00 D Prod: 200.000 56.724 64.705 6.500 10.867 750.000	97.05 E: 1 Takeoff (208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 38BHLD480 36CRANERT530 3MBC-Z-1 3TRKPU10 9ADMS11 9ADMS11	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA 3.00 DA	Lan	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000	97.05 E: 1 Takeoff C OA Hrs	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1,961 208 329 227 1,454
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 38BHLD480 36CRANERT530 3MBC-Z-1 3TRKPU10 9ADMS11 9ADMS11	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pour out flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA	Lan	Unit =	SCHEDUL EA 3.00 D Prod: 200.000 56.724 64.705 6.500 10.867 750.000	97.05 E: 1 Takeoff C OA Hrs 3.00	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 38HLD480 BCRANERT530 3MMBC-Z-1 3TRKPU10 9ADMS11 9ADMS11 9ADMT08 CARPJ	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA 3.00 DA	Larr 30.00	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000	97.05 E: 1 Takeoff C OA Hrs	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 BADMS11 BADMT08 CARPJ M100	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ ==> Carpenter Journeyman	1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA 3.00 DA 2.00 MH	Lara 30.00	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 31.920	97.05 E: 1 Takeoff C OA Hrs 3.00	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 BBHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 9ADM511 9ADM511 9ADMT08 CARPJ M100 M105	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ ==> Carpenter Journeyman ==> Foreman - Carpenter	1.00 1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 30.00 HR 0.30 DA 2.00 MH 0.50 MH	Lar	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 31.920 34.720	97.05 E: 1 Takeoff C OA Hrs 3.00	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100 27
BID ITEM = Description = 321015 3 days per of MARLAN 8211050 8BHLD480 8BCRANERT530 8BMBC-Z-1 8TRKPU10 9ADMS11 9ADMS11 9ADMT08 CARPJ M100 M105 M195	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ ==> Carpenter Journeyman ==> Foreman - Carpenter Foreman - General Marine	1.00 1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 0.30 DA 2.00 MH 0.50 MH 30.00 MH	Lar	Unit =	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 31.920 34.720 39.030	97.05 E: 1 Takeoff C OA Hrs 3.00 100 27 1,764	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100 27 1,764
BID ITEM = Description = 321015 3 days per of MARLAN 3211050 BBHLD480 BCRANERT530 BBHLD480 BCRANERT530 BABC-Z-1 BTRKPU10 BADM511 BADM708 CARPJ M100 M105 M195 OPCR24	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/=> Carpenter Journeyman => Foreman - Carpenter Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	1.00 1.00 1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 0.30 DA 2.00 MH 0.50 MH 30.00 MH	Lar	Unit =	SCHEDUL EA 3.00 D Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 31.920 34.720 39.030 30.100	97.05 E: 1 Takeoff C OA Hrs 3.00 100 27 1.764 2.705	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100 27 1,764 2,705 1,648
BID ITEM = Description = 321015 3 days per c	2000178 Drainage Pipe Extension & R Out Flow Pipe - Form, Pount flow Up Land Support Crew Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ ==> Carpenter Journeyman ==> Foreman - Carpenter Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	1.00 1.00 1.00 1.00 1.00 1.00	3.00 DA 30.00 HR 30.00 HR 30.00 HR 0.30 DA 2.00 MH 0.50 MH 30.00 MH 60.00 MH 30.00 MH	Lar	Unit = Quan	SCHEDUL EA 3.00 E Prod: 200.000 56.724 64.705 6.500 10.867 750.000 480.000 31.920 34.720 39.030 30.100 35.400	97.05 E: 1 Takeoff C OA Hrs. 3.00 100 27 1.764 2.705 1.648	208.63 Quan:	169.68 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 606 1,719 1,961 208	CCISP	1.000 4.00 606 1,719 1.961 208 329 227 1,454 100 27 1,764 2,705

volume: 3.5*6*6+ 3.5*10*6 = 336 CF ====>> 336/27= 12cy add 10% waste ===>> 14 cy

REbar: 160lb/cy*12= 1,991 lbs totals for 2 structures: 24 cy concrete ===>> 28 cy rebar: 3,982 lbs

4,480 2CR14 5000 PSI Marine@106.5% 14.00 CY 296.000 4,480 5CONCPCY Cubic Yard Charge 14.00 CY 5.000 70 70 \$4,549.56 4,480 70 4,550 []

16-113 Jorge Abisambra

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BID ITEM =	2000178			Land	Item	SCHEDU	LE:	1 1	00			
Description =	Drainage Pipe Extension & F	Repair			Unit =	EA	Takeoff	Quan:	1.000	Engr	Quan:	1.000
380010	Superstructure Rebar Out	Flow F	Pipe		Quan	1,991.00	LBS Hr	s/Shft:	10.00 Cal	510 WC	CCISP	Mary St.
	6*6+ 3.5*10*6 = 336 e ===>> 14 cy	CF =:	===>> 336/2	7= 120	су							
	/cy*12= 1,991 lbs Rebar Hanger@106.5%		2.00 EA			500.000		1,081				1,081
2RR02	Gr 60 Rebar@106.5%	1.03	2,050.73 LB			0.480		1,064				1,064
2RR10	Rebar Supports@106.5%	1.03	2.050.73 LB			0.050		111				111
4REBAR	Rebar Sub	1.03	2,050.73 LB			0.250					519	519
\$2,774.70	Branch Williams					[]		2,256			519	2,775
406900	Supply 54 in HDPE Storm	Draina	age Pipe		Quan	1.00 (EA Hr	s/Shft:	10.00 Cal:	510 WC	CCISP	Sec. 10
2HDPE	54" HDPE@106.5%		10.00 LF			100.000		1,081				1,081
ALTERNA STATE	Diver Support to Cut Exis	ting SS	P	N. S.	Quan	1,00 [EA Hr	s/Shft:	10.00 Cal:	510 WC	CCISP	1200
406910	Diver Support to Cut Exis											
2DIVERS ====> Item 7 27,860.08	Diving Subcontractor	Draina	2.00 DA age Pipe Extensi 152.50 MH	on & R	200	2,500.000	7,891 7,891.05	7,816 7,816.41	1,752 1,751.65	4,822 4,822.14	5,060 5,579 5,578.83 2	5,060 27,860 27,860.08
12DIVERS 127,860.08 17,860.080	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA	Draina	ige Pipe Extensi		200	[5699.98] SCHEDU	7,891.05	7,816.41			5,579 5,578.83 2	27,860
12DIVERS ====> Item 7 527,860.08 27,860.080 BID ITEM = Description =	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA 1 EA 2000180	Draina	ige Pipe Extensi		l Item	5699.98] SCHEDU EA	7,891.05 LE:	7,816.41 1 1 Quan:	1,751.65	4,822.14 Engr	5,579 5,578.83 2 Quan:	27,860 27,860.08
12DIVERS 1227,860.08 127,860.080 131D ITEM = Description =	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets	Draina	ige Pipe Extensi		I Item Unit =	5699.98] SCHEDU EA	7,891.05 LE: Takeoff	7,816.41 1 1 Quan:	1,751.65	4,822.14 Engr	5,579 5,578.83 2 Quan:	27,860 27,860.08
### 12DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 re to install it.	Draina	ige Pipe Extensi	Land	I Item Unit =	SCHEDU EA	LE: Takeoff	7,816.41 1 1 Quan:	1,751.65 00 1.000	4,822.14 Engr	5,579 5,578.83 2 Quan:	27,860 27,860.08
### 12DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew	Draina	ge Pipe Extensi 152.50 MH	Land	I Item Unit =	SCHEDU EA 1.00 I	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65	4,822.14 Engr	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000
### 12DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5%	Draina	ge Pipe Extensi 152.50 MH	Land	I Item Unit =	SCHEDU EA 1.00 F	LE: Takeoff	7,816.41 1 1 Quan:	1,751.65 00 1.000	Engr 510 WC	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243
12DIVERS 122,860.08 17,860.080 18 DITEM = Description = 1259100 19 Dutfall Valve plus 1/2 day MARLAN 12DF154 1211050	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d		nge Pipe Extensi 152.50 MH 1.00 EA 0.50 DA	Land	I Item Unit =	SCHEDU EA 1.00 I	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000	Engr 510 WC 5.00	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101
### 12DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5%	1.00	1.00 EA 0.50 DA 5.00 HR	Land	I Item Unit =	SCHEDU EA 1.00 I	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000	Engr 510 WC 5.00	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286
12DIVERS 122DIVERS 1227,860.08 12	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30		1.00 EA 0.50 DA 5.00 HR 5.00 HR	Land	I Item Unit =	SCHEDU EA 1.00 F Prod: 3,000.000 200.000 56.724 64.705	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000	Engr 510 WC 5.00	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101
### 12DIVERS ####################################	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY	1.00	1.00 EA 0.50 DA 5.00 HR	Land	I Item Unit =	SCHEDU EA 1.00 I	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000	4,822.14 Engr 510 WC 5.00 101 286 327	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327
#2DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40	1.00 1.00 1.00	1.00 EA 0.50 DA 5.00 HR 5.00 HR 5.00 HR	Land	I Item Unit =	SCHEDU EA 1.00 F Prod: 3,000.000 200.000 56.724 64.705 6.500	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35
#2DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	1.00 1.00 1.00	1.00 EA 0.50 DA 5.00 HR 5.00 HR 5.00 HR 5.00 HR	Land	I Item Unit =	SCHEDULEA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867	LE: Takeoff	7,816.41 1 Quan: s/Shft:	1,751.65 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55
### ### ##############################	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00 1.00 1.00	1.00 EA 0.50 DA 5.00 HR 5.00 HR 5.00 HR 5.00 HR 0.10 DA	Land	I Item Unit =	SCHEDU EA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000	LE: Takeoff	7,816.41 1 Quan: s/Shft: 5000 S 3,243	1,751.65 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76
### ### ##############################	Diving Subcontractor Fotals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/	1.00 1.00 1.00 1.00	1.00 EA 0.50 DA 5.00 HR 5.00 HR 5.00 HR 5.00 HR 0.10 DA 0.50 DA	Land	I Item Unit =	SCHEDU EA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000 480.000	Takeoff A Hr 0.5	7,816.41 1 Quan: s/Shft: 5000 S 3,243	1,751.65 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242
#2DIVERS #====> Item 7 \$27,860.08 27,860.080 BID ITEM = Description = ### Description =	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 re to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 505/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine	1.00 1.00 1.00 1.00	1.00 EA 0.50 DA 5.00 HR 5.00 HR 5.00 HR 5.00 HR 0.10 DA 0.50 DA 5.00 MH	Land	I Item Unit =	SCHEDU EA 1.00 9 Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030	Takeoff EA Hr 0.5	7,816.41 1	1,751.65 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242 294
### 12DIVERS ####################################	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer	1.00 1.00 1.00 1.00	1.00 EA 152.50 MH 152.50 MH 152.50 MH 5.00 HR 5.00 HR 5.00 HR 0.10 DA 0.50 DA 5.00 MH 10.00 MH	Land	I Item Unit =	SCHEDU EA 1.00 9 Prod: 3,000.000 200.000 56,724 64,705 6,500 10,867 750.000 480.000 39.030 30.100	7,891.05 LE: Takeoff EA Hr 0.5	7,816.41 1 Quan: s/Shft: 5000 S 3,243	1,751.65 00 1.000 10.00 Cat: Lab Pcs:	Engr 510 WC 5.00 101 286 327 35 55	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242 294 451 275 275
12DIVERS 12D	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 r to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	1.00 1.00 1.00 1.00 1.00 2.00 1.00	1.00 EA 152.50 MH 152.50 MH 152.50 MH 5.00 HR 5.00 HR 5.00 HR 5.00 HR 0.10 DA 0.50 DA 5.00 MH 10.00 MH 5.00 MH	Land	I Item Unit =	SCHEDU EA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400	7,891.05 LE: Takeoff EA Hr 0.5	7,816.41 1 Quan: s/Shft: 5000 S 3,243	1,751.65 00 1.000 10.00 Cal: Lab Pcs:	510 WC 5.00 101 286 327 35	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242 294 451 275
### APPLICATION OF THE PROPERTY OF THE PROPERT	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 re to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 25.0000 MH/E	1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00	1.00 EA 0.50 MH 5.00 HR 5.00 HR 5.00 HR 5.00 MH 10.00 MH 5.00 MH 5.00 MH 5.00 MH	Land	I Item Unit =	SCHEDU EA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [935.12]	7,891.05 LE: Takeoff EA Hr 0.5	7,816.41 1 1 Quan: 5000 S 3,243	1,751.65 00 1.000 1.000 Cal: Lab Pcs:	Engr 510 WC 5.00 101 286 327 35 55	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242 294 451 275 5,659
### APPLICATION OF THE PROPERTY OF THE PROPERT	Diving Subcontractor Totals: 2000178 - 152.5000 MH/EA 1 EA 2000180 Outfall Valve F&I Gate valve @ Inlets re \$3000.00 re to install it. Up Land Support Crew Frame & Grate@106.5% Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 25.0000 MH/E	1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00	1.00 EA 1.52.50 MH 1.52.50 MH 5.00 HR 5.00 HR 5.00 HR 0.10 DA 5.00 MH 15.00 MH 5.00 MH 5.00 MH 5.00 MH	Land	I Item Unit =	SCHEDU EA 1.00 I Prod: 3,000.000 200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390 [935.12]	7,891.05 LE: Takeoff EA Hr 0.5 294 451 275 275 1,294	7,816.41 1 1 Quan: 5000 S 3,243	1,751.65 00 1.000 10.00 Cat: Lab Pcs:	Engr 510 WC 5.00 101 286 327 35 55	5,579 5,578.83 2 Quan:	27,860 27,860.08 1.000 4.00 3,243 101 286 327 35 55 76 242 294 451 275 275

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		113,01				Cost	Labor Mate	rial Matl/Exp	Ment	Contract	Total
	2000182 Site Restoration & Misc. Gen	eral		Land	I Item Unit =	SCHEDU	LE: 1 Takeoff Quan:	100	Engr	Quan:	1.000
980010	Final Site Restoration	-	10000		Quan	1.00	LS Hrs/Shft:	10.00 Cal:	510 WC	CCISP	HE STO
	TO A COLUMN TO THE TOTAL PARTY.		7				100			T-LUTA "	
MARLAN	Up Land Support Crew			0.00	CH	Prod:	2.0000 S	Lab Pcs:	5.00	Eqp Pcs:	4.00
8211050	Fuel, Oil, Grease 50g/d		2.00 DA			200.000			404		404
BBHLD480	BHL Cat 450E 1.75CY	1.00	20.00 HR			56.724			1,146		1,146
BCRANERT530	Crane Grove RT530E 30	1.00	20.00 HR			64.705			1,307		1,307
BMBC-Z-1	Barge Carpenter 12'X40	1.00	20.00 HR			6.500			138		138
BTRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	20.00 HR			10.867			219		219
9ADMS11	Subsistance Crew 5		0.10 DA			750.000		76			76
BADMT08	Craft Subsistence (\$120/D/		2.00 DA			480.000		970			970
PRCRISK	Risk		1.00 LS			2,500.000		2,525			2,525
M105	Foreman - General Marine	1.00	20.00 MH			39.030	1,176				1,176
M195	M-Laborer	2.00	40.00 MH			30.100	1,803				1,803
OPCR24	Op Eng 2- Crane 20-44T	1.00	20.00 MH			35.400	1,099				1,099
OPEXC3	Op Eng 3- Backhoe to 3Y	1.00	20.00 MH			35.390	1,098				1,098
11,961.19	100.0000 MH/LS	3	100.00 MH		- [3740.44]	5,176	3,570	3,215		11,961
====> Item 1	Totals: 2000182 - 5	Site Re	storation & Misc	Gen	eral	1				N. Albania	
\$11,961.19	100.0000 MH/LS		100.00 MH			3740.44]	5,176	3.570	3,215		11,961
11,961.190	1LS						5,176.08		3,214.76		11,961.19
Description =	2000190 Demolition and Removal of V	Work A	rea	Land	I Item Unit =	SCHEDU	Takeoff Quan:	1.000	THE REAL PROPERTY.	Quan:	1.000
Description =		Work A	rea	Land	1000	LS		1.000	THE REAL PROPERTY.		1.000
Description =	Demolition and Removal of V Debri Disposal	Work A	rea	Land	Unit =	LS	Takeoff Quan:	1.000	THE REAL PROPERTY.		1.000
Description = 202031 trucking in	Demolition and Removal of V Debri Disposal key west: \$50.00/cy	Work A	rea	Land	Unit =	LS	Takeoff Quan:	1.000	THE REAL PROPERTY.		1.000
Description =	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy	Work A	30.00 CY	Land	Unit =	LS 1.00	Takeoff Quan:	1.000 10.00 Cal:	THE REAL PROPERTY.		
Description = 202031 crucking in land fill fe	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy Bldg Debris Dump Fee-cy	Vork A	30.00 CY	Land	Unit =	1.00 l	Takeoff Quan:	1.000 10.00 Cal:	THE REAL PROPERTY.		3,788
Description = 202031 Crucking in Land fill fe HIDFBLDCY STRKCY	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy	Work A		Land	Unit =	LS 1.00	Takeoff Quan:	1.000 10.00 Cal:	THE REAL PROPERTY.		
Description = 202031 Crucking in Land fill fe BIDFBLDCY 5TRKCY 85,287.50	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy Bldg Debris Dump Fee-cy		30.00 CY 30.00 CY	Land	Unit =	1.00 125.000 50.000 []	Takeoff Quan: LS Hrs/Shft:	1,000 10.00 Cal: 3,788 1,500 5,288	510 WC	CCISP	3,788 1,500
Description = 202031 Crucking in land fill fe BIDFBLDCY STRKCY 85,287.50	Demolition and Removal of V Debri Disposal key west: \$50.00/cy se: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of V		30.00 CY 30.00 CY	Land	Unit =	1.00 125.000 50.000 []	Takeoff Quan:	1,000 10,00 Cal: 3,788 1,500	510 WC	CCISP	3,788 1,500
Description = 202031 trucking in land fill fe stDFBLDCY STRKCY 35,287.50 Assume to la	Demolition and Removal of V Debri Disposal key west: \$50.00/cy se: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of V	f Deck	30.00 CY 30.00 CY & Piles	Land	Unit = Quan: Quan:	1.00 125.000 50.000 []	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10.00 Cal: 3,788 1,500 5,288 10.00 Cal:	510 WC	CCISP	3,788 1,500
Description = 202031 Crucking in Land fill fe STORKCY STRKCY S5,287.50 Assume to la MARPIL	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of the control of	f Deck	30.00 CY 30.00 CY & Piles		Unit = Quan: Quan:	125.000 50.000 []	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10.00 Cal: 3,788 1,500 5,288 10.00 Cal:	510 WC	CCISP	3,788 1,500 5,288
Description = 202031 Crucking in Land fill fe SIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL SWELD	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of Stat 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick	f Deck	30.00 CY 30.00 CY & Piles		Unit = Quan: Quan:	1.00 1 125.000 50.000 [] 1.00 Prod: 70.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC	CCISP	3,788 1,500 5,288 18.00 283
Description = 202031 Crucking in Land fill fe 11DFBLDCY 1TRKCY 15,287.50 330016 Assume to la MARPIL 12UED 1211050	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of the control of	f Deck	30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 510 WC 5.00 808	CCISP	3,788 1,500 5,288 18.00 283 808
Description = 202031 Crucking in Land fill fe 31DFBLDCY 5TRKCY 55,287.50 330016 Assume to la MARPIL 8WELD 3211050 3CRANEC200	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of set 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20	f Deck	30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 510 WC 5.00 808 8,110	CCISP	3,788 1,500 5,288 18.00 283 808 8,110
Description = 202031 Crucking in Land fill fe BIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL BWELD 3211050 3CRANEC200 BDRILLR	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK***	f Deck v	30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.000 200.743 17.500	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 510 WC 5.00 808 8,110 707	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707
Description = 202031 Crucking in Land fill fe BIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL BWELD B211050 BCRANEC200 BDRILLR BMAC-A-10	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of est 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM	1.00 1.00 1.00	30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128
Description = 202031 Crucking in Land fill fe 11DFBLDCY 5TRKCY 5,287.50 Assume to la MARPIL 12H050 12H1050 12H050 12H05	Demolition and Removal of V Debri Disposal key west: \$50.00/cy e: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40	1.00 1.00 1.00 2.00	30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR 40.00 HR 80.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554
Description = 202031 Crucking in Land fill fe 11DFBLDCY 5TRKCY 5,287.50 Assume to la MARPIL 10WELD 1211050 10CRANEC200 10DRILLR 10MBC-Z-1 10MBC-Z-1 10MBS-Z-17	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS	1.00 1.00 1.00 2.00 1.00	30.00 CY 30.00 CY 8. Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR 40.00 HR 80.00 HR 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.000 200.743 17.500 3.000 6.500 55.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2,343	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343
Description = 202031 Crucking in Land fill fe DDFBLDCY STRKCY S5,287.50 Assume to la MARPIL SWELD S211050 CCRANEC200 DDRILLR BMAC-A-10 BMBC-Z-1 BMBS-Z-17 BMBT-Z-12	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP	1.00 1.00 1.00 2.00 1.00	30.00 CY 30.00 CY 8 Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 125.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8,110 707 128 554 2,343 852	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852
Description = 202031 Crucking in Land fill fe BIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL BWELD S211050 SCRANEC200 SDRILLR BMAC-A-10 BMBC-Z-1 BMBS-Z-17 BMBS-Z-17 BMBT-Z-12 BMBW-Z-2	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/	1.00 1.00 1.00 2.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000 3.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8,110 707 128 554 2,343 852 128	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128
Description = 202031 Crucking in Land fill fe BIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL BWELD B211050 BCRANEC200 BDRILLR BMAC-A-10 BMBC-Z-1 BMBS-Z-17 BMBS-Z-17 BMBT-Z-12 BMBW-Z-2 BMCE-A-40	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD	1.00 1.00 1.00 2.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR 40.00 HR		Unit = Quan: Quan:	125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000 3.000 5.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2.343 852 128 213	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213
Description = 202031 Crucking in Land fill fe SIDFBLDCY STRKCY S5,287.50 S30016 Assume to la MARPIL BWELD S211050 GCRANEC200 BORILLR BMAC-A-10 BMBC-Z-1 BMBC-Z-1 BMBS-Z-17 BMBT-Z-12 BMBW-Z-2 BMCE-A-40 BMDH-A-7	Demolition and Removal of V Debri Disposal key west: \$50.00/cy se: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER	1.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 1.00 50.000 [] 1.00 Prod: 70.000 200.000 200.000 3.000 55.000 20.000 3.000 5.000 10.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2.343 852 128 213 426	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426
Description = 202031 Crucking in Land fill fe EDEBLDCY STRKCY S5,287.50 S30016 Assume to la MARPIL EWELD S211050 CRANEC200 SDRILLR SMAC-A-10 SMBC-Z-1	Demolition and Removal of V Debri Disposal key west: \$50.00/cy se: \$125/cy Bidg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000 3.000 5.000 10.000 0.100	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2,343 852 128 213 426 4	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426 4
Description = 202031 2 rucking in Land fill fe 2010FBLDCY 2010	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 20.000 3.000 55.000 10.000 0.100 3.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2.343 852 128 213 426 4 128	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426 4 128
Description = 202031 Crucking in Land fill fe SIDFBLDCY STRKCY S5,287.50 330016 Assume to la MARPIL BWELD 3211050 3CRANEC200 SDRILLR BMAC-A-10 BMBC-Z-1 BMBS-Z-17 BMBT-Z-12 BMBW-Z-2 BMBW-Z-2 BMCE-A-40 BMDH-A-7 BMFD-A-1 BMGN-Z-11 BMLT-A-1	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 20.000 3.000 5.000 10.000 0.100 3.000 3.500	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2,343 852 128 213 426 4 128 149	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426 4 128 149
Description = 202031 Crucking in Land fill fe SIDFBLDCY STRKCY S5,287.50 Assume to la MARPIL BWELD B211050 BCRANEC200 BDRILLR BMAC-A-10 BMBC-Z-1 BMBS-Z-17 BMBT-Z-12 BMBW-Z-2 BMCE-A-40 BMDH-A-7 BMFD-A-1 BMC-A-10 BMC-A-10 BMC-A-10 BMBW-Z-1	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 55.000 10.000 0.100 3.000 3.500 5.000 5.000 5.000 5.000	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2.343 852 128 213 426 4 128 149 213	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426 4 128 149 213
Description = 202031 Crucking in land fill fe BIDFBLDCY STRKCY 85,287.50	Demolition and Removal of V Debri Disposal key west: \$50.00/cy ee: \$125/cy Bldg Debris Dump Fee-cy Trucking - CY Demolition and Removal of ast 4 days Marine Piling & Demo Crew Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.00 CY 30.00 CY 30.00 CY & Piles 4.00 DA 4.00 DA 40.00 HR 40.00 HR		Unit = Quan: Quan:	1.00 125.000 50.000 [] 1.00 Prod: 70.000 200.000 200.743 17.500 3.000 6.500 20.000 3.000 5.000 10.000 0.100 3.000 3.500	Takeoff Quan: LS Hrs/Shft: LS Hrs/Shft:	1,000 10,00 Cal: 3,788 1,500 5,288 10,00 Cal:	510 WC 5.00 808 8.110 707 128 554 2,343 852 128 213 426 4 128 149	CCISP	3,788 1,500 5,288 18.00 283 808 8,110 707 128 554 2,343 852 128 213 426 4 128 149

Op Eng 1A- Crane 100-200 1.00

16.6666 MH/EA

OPCR100

\$16,583.26

20.00 MH

100.00 MH

Direct Cost Report

Page 17 03/10/2016 15:38

1,128

16,583

9,421

1,656

Jorge Abisambra	a			Direct	Cost Repo	rt			
Activity Resource	Desc	Pcs	Quantity Unit		Unit Cost	Labor M	Perm Constr laterial Matl/Exp	Equip Su Ment Contra	
BID ITEM :	= 2000190 Demolition and Removal of	f Work A	roa	Land Item Unit =	SCHEDU	JLE: 1 Takeoff Qu	100 an: 1.000	Engr Quan:	1.000
Control of the Control				Onit =		Takeuri Qu	an. 1.000		
BPILE26 BADMS11	Vibro Hammer 150 TN Subsistance Crew 5	1.00	40.00 HR 4.00 DA		80.944 750.000		2 020	3,270	3,270 3,030
M105	Foreman - General Marin	1.00	40.00 MH		39.030	2.352	3,030		2,352
M165	M-Piledriver	1.00	40.00 MH		38.200	2,332			2,334
A170	M-Welder	1.00	40.00 MH		34.960	2,176			2,176
И190	M-Skilled Laborer	1.00	40.00 MH		31.960	1,894			1,894
PCR100	Op Eng 1A- Crane 100-20		40.00 MH		36.580	2,255			2,255
33,166.55	200.0000 MH/		200.00 MH	1	7952.12]	11,012	3,313	18,842	33,167
===> Item		- Demol	ition and Remov			** ***			** ***
38,454.05 8,454.050	200.0000 MH/LS 1 LS		200.00 MH	1	7952.12]	11,012 11,011.69	8,600 8,600.30	18,842 18,842.06	38,454 38,454.05
escription =		TAL		Unit =	EA	Takeoff Qu	an: 6.000	Engr Quan:	6.000
Casing	38 6 22	8 I	T						
Concret	е								
ITEM	LENGTH QTY Dia	am (ft)	Area	(ft^2)	Volum	e (ft^3)	Vol (cy)	Total V	ol (cy)
Pile	52 6 36	-	7.07 367.	57 13.61	81.68	су			
Rebar	2467	1,1,7	230		14,8	02.00	lbs		11111
3022	Set Pile Template		THE REAL PROPERTY.	Quan:	6.00	EA Hrs/S	hft: 10.00 Cal.	510 WC: CCIS	SP
MARPIL	Marine Piling & Demo Cr			20.00 CH	Proc	1: 2.000		5.00 Eqp	
WELD	Weld Supplies (1 man-Sti	ck	2.00 DA		70.000		141		141
211050 CDANEC200	Fuel, Oil, Grease 50g/d	1.00	2.00 DA		200.000			404	404
CRANEC200 DRILLR	Crane Manitowoc 777 20 ***DRILLS - ROCK***	1.00	20.00 HR 20.00 HR		200.743 17.500			4,055 354	4,055 354
MAC-A-10	Compressor 185 CFM	1.00	20.00 HR 20.00 HR		3.000			64	64
MBC-Z-1	Barge Carpenter 12'X40	2.00	40.00 HR		6.500			277	277
MBS-Z-17	Spud Barge 170x45' ABS		20.00 HR		55.000			1,172	1,172
MBT-Z-12	Tug Push Boat 200 HP	1.00	20.00 HR		20.000			426	426
MBW-Z-2	18' Aluminum Boat & O/	1.00	20.00 HR		3.000			64	64
MCE-A-40	Bucket Clamshell 3 CYD	1.00	20.00 HR		5.000			107	107
MDH-A-7	DELMAG D19 HAMME		20.00 HR		10.000			213	213
MFD-A-1	FAIRLEADS	1.00	20.00 HR		0.100			2	2
MGN-Z-11	Generator 10 KW	1.00	20.00 HR		3.000			64	64
MLT-A-1	Light Tower, Genie	1.00	20.00 HR		3.500			75	75
MPE-A-11	Extractor Pile	1.00	20.00 HR		5.000			107	
MVP-A-11	FORD F150 SUPERC 10		20.00 HR		6.500			138	107
WH-A-1	1 011D 1 100 001 E110 10				0.000				
MWM-C-1	WINCH 3-DRUM RB-90	1.00	20.00 HR		10.000			213	107
		1.00	20.00 HR 20.00 HR					213 53	107 138
PILE26	WINCH 3-DRUM RB-90				10.000				107 138 213
	WINCH 3-DRUM RB-90 Welder Diesel 400 AMP	1.00	20.00 HR		10.000 2.500		1,515	53	107 138 213 53
ADMS11	WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN	1.00	20.00 HR 20.00 HR		10.000 2.500 80.944	1,176	1,515	53	107 138 213 53 1,635
ADMS11 105	WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5	1.00	20.00 HR 20.00 HR 2.00 DA		10.000 2.500 80.944 750.000 39.030 38.200	1,167	1,515	53	107 138 213 53 1,635 1,515 1,176 1,167
ADMS11 105 165	WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5 Foreman - General Marin	1.00 1.00	20.00 HR 20.00 HR 2.00 DA 20.00 MH		10.000 2.500 80.944 750.000 39.030		1,515	53	107 138 213 53 1,635 1,515 1,176 1,167 1,088
PILE26 ADMS11 4105 4165 4170 4190	WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5 Foreman - General Marin M-Piledriver	1.00 1.00 e 1.00 1.00 1.00 1.00	20.00 HR 20.00 HR 2.00 DA 20.00 MH 20.00 MH		10.000 2.500 80.944 750.000 39.030 38.200	1,167	1,515	53	107 138 213 53 1,635 1,515 1,176 1,167

36.580 1,128

5,506

[662.677]

166.6666 MH/EA

\$244,033.08

1,000.00 MH

Direct Cost Report

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Activity Resource	Desc	Pcs	Quantity Unit		Unit Cost		erm Constr rial Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM =	= 2000200 Piling 36" Diam Drilled Shaft		La	nd Item Unit =	SCHEDU	LE: 1 Takeoff Quan:	100 6.000	Engr	Quan:	6.000
305010	Calssons - CSL Tubes	63	F 900 (193)	Quan:	936.00 (LF Hrs/Shft:	10.00 Cal:	510 WC	CCISP	
CSLTUBES	CSL Tubes@106.5%		936.00 EA		5.000	5,0	059			5,059
305050	Caisson - Drilling		THE REAL PROPERTY.	Quan:	312.00	LF Hrs/Shft	10.00 Cal:	510 WC	CCISP	
MARPIL	Marine Piling & Demo Crew	,	180.00	CH	Prod:	18.0000 S	Lab Pcs:	5.00	Eqp Pcs:	18.00
BWELD	Weld Supplies (1 man-Stick		18.00 DA	0.1	70.000	10.0000 3	1,273	0.00	Edb 103.	1,273
3211050	Fuel, Oil, Grease 50g/d		18.00 DA		200.000		1,273	3,636		3,636
CRANEC200		1.00								
	Crane Manitowoc 777 20	1.00	180.00 HR		200.743			36,495		36,495
BDRILLR	***DRILLS - ROCK***	1.00	180.00 HR		17.500			3,182		3,182
BMAC-A-10	Compressor 185 CFM	1.00	180.00 HR		3.000			575		575
BMBC-Z-1	Barge Carpenter 12'X40	2.00	360.00 HR		6.500			2,492		2,492
BMBS-Z-17	Spud Barge 170x45' ABS	1.00	180.00 HR		55.000			10,544		10,544
BMBT-Z-12	Tug Push Boat 200 HP	1.00	180.00 HR		20.000			3,834		3,834
MBW-Z-2	18' Aluminum Boat & O/	1.00	180.00 HR		3.000			575		575
BMCE-A-40	Bucket Clamshell 3 CYD	1.00	180.00 HR		5.000			959		959
MDH-A-7	DELMAG D19 HAMMER	1.00	180.00 HR		10.000			1,917		1,917
BMFD-A-1	FAIRLEADS	1.00	180.00 HR		0.100			19		19
MGN-Z-11	Generator 10 KW	1.00	180.00 HR		3.000			575		575
BMLT-A-1	Light Tower, Genie	1.00	180.00 HR		3.500			671		671
MPE-A-11	Extractor Pile	1.00	180.00 HR		5.000			959		959
MVP-A-11	FORD F150 SUPERC 10	1.00	180.00 HR		6.500					
BMWH-A-1								1,246		1,246
	WINCH 3-DRUM RB-90	1.00	180.00 HR		10.000			1,917		1,917
BMWM-C-1	Welder Diesel 400 AMP	1.00	180.00 HR		2.500			479		479
BPILE26	Vibro Hammer 150 TN	1.00	180.00 HR		80.944			14,716		14,716
ADMS11	Subsistance Crew 5		18.00 DA		750.000		13,635			13,635
M105	Foreman - General Marine	1.00	180.00 MH		39.030	10,586				10,586
V165	M-Piledriver	1.00	180.00 MH		38.200	10,505				10,505
M170	M-Welder	1.00	180.00 MH		34.960	9,790				9,790
V190	M-Skilled Laborer	1.00	180.00 MH		31.960	8,524				8,524
OPCR100	Op Eng 1A- Crane 100-200	1.00	180.00 MH		36.580	10,147				10,147
149,249.68	2.8846 MH/LF	100	900.00 MH	1	114.694]	49,553	14,908	84,789		149,250
305060	Caisson - Casings 1/2"		PARTY OF THE PARTY	Quan:	228.00 [LF Hrs/Shft:	10.00 Cal:	510 WC	CCISP	THE REAL PROPERTY.
\$118.00/ft	price given by Skylin	e by	phone: DAve		110.000	20.6	202			20.002
	36" Diameter Pi@106.5%		228.00 LF		118.000	29,0	NAME OF TAXABLE PARTY.		and the last	29,083
305065	Calsson - Concrete	-	The Party Street or Street	Quan:	82.00 (CY Hrs/Shft:	10.00 Cal:	510 WC	CCISP	-
2CR14	5000 PSI Marine Conc Key	1.10	90.20 EA		296.000	27,1	100		A.P.	27,100
305070	Caisson - Rebar	No.	INCOME.	Quan:	14,802.00	LB Hrs/Shft:	10.00 Cal:	510 WC	CCISP	
2RR02	Gr 60 Rebar@106.5%	1.05	17.096.10 LB		0.480	9.9	371			8,871
2RR10	Rebar Supports@106.5%	1	17,096.10 LB		0.050		924			924
REBAR	Rebar Sub@106.5%		17,096.10 LB		0.050				921	921
10,715.94	1.5501 5450- 100.576	1.00	,000.10 ED		[]	9,7	795		921	10,716
305900	Concrete Pump	100	-18/10/1	Quan:	6.00 1	DAY Hrs/Shft	10.00 Cal:	510 WC	CCISP	
			40.00 110		125 000		6,000			6,000
CONCORCA	Concents Consents D						PO CHIMI			D (HH)
SCONCP36M	Concrete Concrete Pump 36		48.00 HR		125.000					
SCONCP36M SCONCPCY \$6,243.00	Concrete Concrete Pump 36 Cubic Yard Charge		108.00 CY		2.250		243 6,243			243 6,243

[6626.767] 55,058 71,036 22,807

94,210

921 244,033

CH2MHILL 16-113 Jorge Abisambra

Zero Duval & Mallory Square REV 2016

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Direct Cost Report

Quantity Unit Activity Desc Unit Perm Constr Equip Sub-Pcs Resource Labor Material Matl/Exp Cost Ment Contract Total BID ITEM = 2000200 Description = Piling 36" Diam Drilled Shaft Land Item SCHEDULE: 1 100 Unit = Engr Quan: EA Takeoff Quan: 6.000 6.000 9,176.41 11,839.31 3,801.17 15,701.75 153.55 40,672.18 40,672.180 6 EA BID ITEM = 2000210
Description = Concrete Cap Mooring Dolphin Land Item SCHEDULE: 1 CY Takeoff Quan: Unit = 120.000 Engr Quan: 120.000 pile cap area: 28.33*16= 453.33 sf

volume: 453.33*6.67/27= 112cy curb: 1.25*1*2*28.33/27= 3 cy Fascia: 2.33*2*28.33/27= 5cy total concrete: 120 cy

31FMCPUR										
	Special Form Pu@106.5%		1.00 LS	6	5,000.000		6,45	4		6,454
321015	Concrete Cap - Form, Pour	r & Stri	p	Quan	120.00 CY	Hrs/Shft:	10.00 C	al: 510 WC	CCISP	STE STE
MARPIL	Marine Piling & Demo Crew	v	120.00	СН	Prod:	12.0000 S	Lab Pcs	: 5.00	Eqp Pcs:	18.00
3WELD	Weld Supplies (1 man-Stick		12.00 DA		70.000		84	8		848
8211050	Fuel, Oil, Grease 50g/d		12.00 DA		200.000			2,424		2,424
8CRANEC200	Crane Manitowoc 777 20	1.00	120.00 HR		200.743			24,330		24,330
8DRILLR	***DRILLS - ROCK***	1.00	120.00 HR		17.500			2,121		2,121
8MAC-A-10	Compressor 185 CFM	1.00	120.00 HR		3.000			383		383
8MBC-Z-1	Barge Carpenter 12'X40	2.00	240.00 HR		6.500			1,661		1,661
8MBS-Z-17	Spud Barge 170x45' ABS	1.00	120.00 HR		55.000			7,029		7,029
8MBT-Z-12	Tug Push Boat 200 HP	1.00	120.00 HR		20.000			2,556		2,556
8MBW-Z-2	18' Aluminum Boat & O/	1.00	120.00 HR		3.000			383		383
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	120.00 HR		5.000			639		639
8MDH-A-7	DELMAG D19 HAMMER	1.00	120.00 HR		10.000			1,278		1,278
8MFD-A-1	FAIRLEADS	1.00	120.00 HR		0.100			13		13
8MGN-Z-11	Generator 10 KW	1.00	120.00 HR		3.000			383		383
8MLT-A-1	Light Tower, Genie	1.00	120.00 HR		3.500			447		447
8MPE-A-11	Extractor Pile	1.00	120.00 HR		5.000			639		639
8MVP-A-11	FORD F150 SUPERC 10	1.00	120.00 HR		6.500			831		831
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	120.00 HR		10.000			1,278		1,278
8MWM-C-1	Welder Diesel 400 AMP	1.00	120.00 HR		2.500			320		320
8PILE26	Vibro Hammer 150 TN	1.00	120.00 HR		80.944			9,810		9,810
9ADMS11	Subsistance Crew 5	1.00	12.00 DA		750.000		9.09			9.090
CARPJ	==> Carpenter Journeyman		100.00 MH		31.920	5,009	0,00	0		5,009
M100	==> Foreman - Carpenter		100.00 MH		34.720	5,352				5,352
M105	Foreman - General Marine	1.00	120.00 MH		39.030	7,057				7,057
M165	M-Piledriver	1.00	120.00 MH		38.200	7,003				7,003
M170	M-Welder	1.00	120.00 MH			6.527				6,527
M175	==> M-Carpenter	1.00	100.00 MH		30.070	4,839				4,839
M190	M-Skilled Laborer	1.00	120.00 MH		31.960	5.683				5,683
OPCR100	Op Eng 1A- Crane 100-200		120.00 MH		36.580	6.765				6,765
\$114,699.78	7.5000 MH/C		900.00 MH	1.		48,235	9.93	8 56,526		114,700
3114,033.76	7.3000 MIH/C		300.00 IVIH	14	207.454]	10,233	5,93	0 30,320		114,700
325900	Supply 5000 PSI Marine C	oncrete	E OF CAN SI	Quan:	120.00 CY	Y Hrs/Shft:	10.00 C	al: 510 WC	: CCISP	Marine V
2CR14	5000 PSI Marine@106.5%	1.10	132.00 CY		296.000	42,23	36			42,236
5CONCPCY	Cubic Yard Charge	1.10	132.00 CY		5.000		66	0		660
\$42,895.86					[]	42,23				42,896
380010	Superstructure Rebar Mod	oring Ca	p	Quan:	12,949.00 LE	BS Hrs/Shft	10.00 C	al: 510 WC	CCISP	1897

Direct Cost Report

Activity Resource	Desc	Pcs	Quantity Unit		Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
BID ITEM = Description =	2000210 Concrete Cap Mooring Dolp	hin		Land Item Unit =	SCHEDU	JLE: 1 Takeoff		120.000	Engr	Quan:	120.000
2RR02	Gr 60 Rebar@106.5%	1.05	13,596.45 LB		0.480		7,055				7,055
2RR10	Rebar Supports@106.5%	1.05	13,596.45 LB		0.050		735				735
4REBAR	Rebar Sub	1.05	13,596.45 LB		0.250					3,440	3,440
\$11,229.54					[]		7,790			3,440	11,230
80012	Concrete Pumping			Quan	2.00	DA Hr	s/Shft:	10.00 Cal:	510 WC	CCISP	
CONCP28M	Concrete Concrete Pump 28		16.00 HR		95.000			1,520			1,520
SCONCPCY	Cubic Yard Charge		120.00 CY		2.250			270			270
1,790.00					[]			1,790			1,790
80014	Pavers	199	SALAKE.	Quan:	453.00	SF Hr	s/Shft:	10.00 Cal:	510 WC	CCISP	550
2PAVERS	Pavers Subcontractor		453.00 SF		25.000					11,461	11,461
188,529.98 1,571.083	Totals: 2000210 - 7.5000 MH/CY 120 CY	Concr	ete Cap Moorin 900.00 MH		287.454]	48,235 401.96	50,026 416.88		56,526 471.05	14,901 124.17	188,530 1,571.08
	2000220 Floating Fender: Remove, Sto	ore and	Dlace	Land Item Unit =	SCHEDU	JLE: 1 Takeoff		1.000	Engr	Quan:	1.000
30010	Fender Hardware	ore and	-	Quan		EA Hr		10.00 Cal:	510 WC	CCISP	
30010		ore and	1.00 LS	Quan	1.00	EA Hr	s/Shft: 2,702	275	510 WC	CCISP	2,702
530010	Fender Hardware		-	Quan	2,500.000		2,702	275			2,702
330010 FENDERHARD 330011 Installation	Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 per	der day.	1.00 LS	Quan: Quan:	2,500.000	EA Hr	2,702 s/Shft:	10.00 Cal:	510 WC	CCISP	NI STATE
FENDERHARD 30011 Installation	Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor	der day.	1.00 LS	Quan: Quan:	2,500.000 1.00	EA Hr	2,702 s/Shft: the t	10.00 Cal	510 WC	CCISP	rete.
30010 FENDERHARD 30011 Installation It the anch	Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor Marine Piling & Demo Crev	der day.	1.00 LS	Quan: Quan:	2,500.000	EA Hr	2,702 s/Shft:	10.00 Cal:	510 WC	CCISP	rete.
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD	Fender Hardware@106.5% Remove, Store, Install Fender are a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick	der day.	1.00 LS	Quan: Quan:	2,500.000 1.00 the conc Prod	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC	CCISP	rete. : 18.00
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050	Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor Marine Piling & Demo Crev	der day.	1.00 LS st are embed	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC	CCISP	rete. : 18.00 71
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200	Fender Hardware@106.5% Remove, Store, Install Fender are a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d	day.	1.00 LS st are embed 1.00 DA 1.00 DA	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC buring t 5.00	CCISP	rete. 18.00 71 202
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR	Fender Hardware@106.5% Remove, Store, Install Fender are a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20	der day. bol	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000 200.743	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC buring t 5.00	CCISP	rete. : 18.00 71 202 2,027
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10	Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK***	der day. bol	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000 200.743 17.500	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC buring t 5.00 202 2,027 177	CCISP	rete. 18.00 71 202 2,027 177
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM	day. bolv	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000 200.743 17.500 3.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC buring t 5.00 202 2,027 177 32	CCISP	rete. 18.00 71 202 2,027 177 32
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40	day. bol v 1.00 1.00 1.00 2.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 10.00 HR 20.00 HR	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000 200.743 17.500 3.000 6.500	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138	CCISP	rete. 18.00 71 202 2,027 177 32 138
FENDERHARD FENDERHARD FORDERHARD FORDER	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS	der day. bol v 1.00 1.00 1.00 2.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 20.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc Prod 70.000 200.000 200.743 17.500 3.000 6.500 55.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586	CCISP	rete. 18.00 71 202 2,027 177 32 138 586
FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP	der day. bol v 1.00 1.00 2.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 20.00 HR 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc. Prod 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/	1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 the conc. Prod 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000 3.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% In at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ****DRILLS - ROCK**** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD	day. r bol v 1.00 1.00 2.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 20.00 HR 10.00 HR 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 the conc. Prod 70.000 200.000 3.000 6.500 55.000 20.000 3.000 5.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC suring to 5.00 202 2,027 177 32 138 586 213 32 53	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 """DRILLS - ROCK"" Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER	day. r bol v 1.00 1.00 2.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 the conc. Prod 70.000 200.000 3.000 6.500 55.000 20.000 3.000 5.000 10.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% I at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW	day.r bol v 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 the conc. Prod. 70.000 200.000 200.743 17.500 3.000 6.500 55.000 20.000 3.000 5.000 10.000 0.100 3.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% I at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie	day. r bol v v 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 DA 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 200.000 200.743 17.500 3.000 55.000 20.000 3.000 5.000 10.000 0.100 3.000 3.500	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC suring to 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32	CCISP	18.00 71 202 2,027 177 32 138 586 213 32 53 107 1
GRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% I at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile	day.r bol v 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 200.000 200.743 17.500 3.000 55.000 20.000 10.000 0.100 3.000 3.500 5.000 5.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53	CCISP	18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37
30010 FENDERHARD 30011 Installation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBS-Z-17 MBT-Z-12 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11 MVP-A-11	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% I at a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10	day.r bol v 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 DA 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 1.00 1.00 200.000 200.743 17.500 3.000 6.500 5.000 10.000 0.100 3.000 3.000 5.000 6.500 6.500 6.500	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69	CCISP	18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11 MVP-A-11 MWH-A-1	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Date of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***DRILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/ Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 1.00 1.00 200.000 200.743 17.500 3.000 6.500 5.000 10.000 0.100 3.000 5.000 1.000 6.500 10.000 10.000 10.000 10.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11 MVP-A-11 MWH-A-1 MWH-A-1 MWH-C-1	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% D Fender Hardware@106.5% Remove, Store, Install Fender Hardware	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 1.00 20.000 200.000 200.743 17.500 3.000 55.000 20.000 3.000 5.000 10.000 3.500 6.500 10.000 10.000 2.500	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27	CCISP	18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MHT-A-1 MPF-A-11 MVP-A-11 MWH-A-1 MWH-C-1 PILE26	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% Remove, Store, Install Fender Hardware@106.5% D Falles and anchordware Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ""DRILLS - ROCK"" Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 1.00 20.000 200.000 3.000 55.000 20.000 3.000 5.000 0.100 3.000 5.000 6.500 10.000 0.100 3.000 2.500 80.944	EA Hr	2,702 s/Shft: the t	ime of po Lab Pcs: 71	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27 818
30010 FENDERHARD 30011 nstallation 11 the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MUT-A-1 MWP-A-11 MWP-A-11 MWP-A-1 MWW-C-1 PILE26 ADMS11	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and a rate of 1 permor plates and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ""DRILLS - ROCK"" Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 20.000 200.000 200.743 17.500 3.000 55.000 20.000 3.000 5.000 0.100 3.500 5.000 6.500 10.000 2.500 80.944 750.000	EA Hr	2,702 s/Shft: the t	10.00 Cal: ime of po Lab Pcs;	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27 818 758
FENDERHARD 30011 Installation Ill the anch MARPIL WELD 211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11 MVP-A-11 MVP-A-11 MVP-A-11 MWH-C-1 PILE26 ADMS11 M105	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ""DRILLS - ROCK"" Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5 Foreman - General Marine	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 DA 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 200.000 200.000 200.743 17.500 3.000 6.500 20.000 3.000 10.000 0.100 3.000 5.000 6.500 10.000 2.500 80.944 750.000 39.030	EA Hr	2,702 s/Shft: the t	ime of po Lab Pcs: 71	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27 818 758 588
FENDERHARD 30010 FENDERHARD 30011 Installation Il the anch MARPIL WELD 2211050 CRANEC200 DRILLR MAC-A-10 MBC-Z-1 MBS-Z-17 MBT-Z-12 MBW-Z-2 MCE-A-40 MDH-A-7 MFD-A-1 MGN-Z-11 MLT-A-1 MPE-A-11 MVP-A-11 MVP-A-11 MVP-A-11 MWH-A-1 MWH-C-1 PILE26 ADMS11 A105 A165	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ***ORILLS - ROCK*** Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5 Foreman - General Marine M-Piledriver	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 DA 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 200.000 200.000 200.743 17.500 3.000 55.000 20.000 3.000 5.000 10.000 3.500 5.000 6.500 10.000 2.500 80.944 750.000 39.030 38.200	EA Hr: rete at 1: 1.0	2,702 s/Shft: the t	ime of po Lab Pcs: 71	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27 818 758 588 584
330010 FENDERHARD 330011 Installation	Fender Hardware D Fender Hardware@106.5% Remove, Store, Install Fender and anchor Marine Piling & Demo Crev Weld Supplies (1 man-Stick Fuel, Oil, Grease 50g/d Crane Manitowoc 777 20 ""DRILLS - ROCK"" Compressor 185 CFM Barge Carpenter 12'X40 Spud Barge 170x45' ABS Tug Push Boat 200 HP 18' Aluminum Boat & O/Bucket Clamshell 3 CYD DELMAG D19 HAMMER FAIRLEADS Generator 10 KW Light Tower, Genie Extractor Pile FORD F150 SUPERC 10 WINCH 3-DRUM RB-90 Welder Diesel 400 AMP Vibro Hammer 150 TN Subsistance Crew 5 Foreman - General Marine	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 LS st are embed 1.00 DA 1.00 DA 1.00 DA 10.00 HR 10.00 HR	Quan: Quan:	2,500.000 1.00 1.00 1.00 1.00 200.000 200.000 200.743 17.500 3.000 6.500 20.000 3.000 10.000 0.100 3.000 5.000 6.500 10.000 2.500 80.944 750.000 39.030	EA Hr	2,702 s/Shft: the t	ime of po Lab Pcs: 71	510 WC 5.00 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27	CCISP	rete. 18.00 71 202 2,027 177 32 138 586 213 32 53 107 1 32 37 53 69 107 27 818 758 588

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Dir	rect	Cost	Report	
-	une	0036	1 schol c	

Activity Resource	Desc	Pcs	Quantity Unit			Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
	2000220		1376	Lan	d Item	SCHEDU			00			
Description =	Floating Fender: Remove, Sto	ore and	Place		Unit =	EA	Takeoff	Quan:	1.000	Engr	Quan:	1.000
\$8,291.59	50.0000 MH/E/	A	50.00 MH		1	1988.03]	2,753		828	4,710		8,292
====> Item 7 \$10,994.03 10,994.030	Totals: 2000220 - 50.0000 MH/EA 1 EA	Floatin	g Fender: Remo 50.00 MH	ove, Si		Place 1988.03]	2,753 2,752.92	2,702 2,702.44		4,710 4,710.47		10,994 10,994.03
BID ITEM = Description =	2000400 Project Close Out			Lan	d Item Unit =	SCHEDU	JLE: 1 Takeoff		1.000	Engr	Quan:	1.000
115000	Remove Fence (Chain Line	k)	SECTION S.	1	Quan:	160.00	FT Hrs	/Shft:	10.00 Cal:	510 WC	CCISP	1219
MARLAN	Up Land Support Crew			5.00	СН	Prod	0.5	000 S	Lab Pcs:	5.00	Eqp Pcs:	4.00
8211050	Fuel, Oil, Grease 50g/d		0.50 DA			200.000	0.0			101	-db . 03.	101
8BHLD480	BHL Cat 450E 1.75CY	1.00	5.00 HR			56.724				286		286
BCRANERT530	Crane Grove RT530E 30	1.00	5.00 HR			64.705				327		327
BMBC-Z-1	Barge Carpenter 12'X40	1.00	5.00 HR			6.500				35		35
BTRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	5.00 HR			10.867				55		55
PADMS11	Subsistance Crew 5		16.00 DA			750.000			12,120	33		12,120
PADMT08	Craft Subsistence (\$120/D/		0.50 DA			480.000			242			242
M105	Foreman - General Marine	1.00	5.00 MH			39.030	294		242			294
M195	M-Laborer	2.00	10.00 MH			30.100	451					451
OPCR24	Op Eng 2- Crane 20-44T	1.00	5.00 MH			35.400	275					275
OPEXC3	Op Eng 3- Backhoe to 3Y	1.00	5.00 MH			35.390	275					275
\$14,460.06	0.1562 MH/FT		25.00 MH			[5.845]	1,294		12,362	804		14,460
117035	Remove Barrier		60 miles	US.	Quan:	160.00	FT Hrs	/Shft:	10.00 Cal:	510 WC	CCISP	HEE
MADI ANI	Up Land Support Cross			E 00	CH	Dead	. 05	2 000	Lab Dass	5.00	Con Door	4.00
MARLAN	Up Land Support Crew		050 04	5.00	CH	Prod	0.5	000 S	Lab Pcs:	5.00	Eqp Pcs:	4.00
8211050 8PHI DARO	Fuel, Oil, Grease 50g/d	1.00	0.50 DA			200.000				101		101
BBHLD480	BHL Cat 450E 1.75CY	1.00	5.00 HR			56.724				286		286
BCRANERT530	Crane Grove RT530E 30	1.00	5.00 HR			64.705				327		327
BMBC-Z-1	Barge Carpenter 12'X40	1.00	5.00 HR			6.500				35		35
BTRKPU10	Pickup 4x2 3/4 Ton Gas	1.00	5.00 HR			10.867				55		55
9ADMS11	Subsistance Crew 5		16.00 DA			750.000			12,120			12,120
9ADMT08	Craft Subsistence (\$120/D/	1.00	0.50 DA			480.000	204		242			242
M105	Foreman - General Marine	1.00	5.00 MH			39.030	294					294
M195	M-Laborer	2.00	10.00 MH			30.100	451					451
OPCR24 OPEXC3	Op Eng 2- Crane 20-44T	1.00	5.00 MH			35.400	275					275
\$14,460.06	Op Eng 3- Backhoe to 3Y 0.1562 MH/F		5.00 MH 25.00 MH			35.390 [5.845]	275 1,294		12,362	804		275 14,460
890010	Subcontractor Pile Crew D	Demobil	lization		Quan:	1.00	LS Hrs	/Shft:	10.00 Cal:	510 WC	CCISP	
MARPIL	Marine Piling & Demo Crev	v		10.00	СН	Prod	1.0	000 S	Lab Pcs:	5.00	Eqp Pcs:	18.00
3WELD	Weld Supplies (1 man-Stick		1.00 DA	. 0.00	0,1	70.000	1.0		71	0.00	E-db 1 03.	71
3211050	Fuel, Oil, Grease 50g/d		1.00 DA			200.000				202		202
BCRANEC200	Crane Manitowoc 777 20	1.00	10.00 HR			200.743				2,027		2,027
BDRILLR	***DRILLS - ROCK***	1.00	10.00 HR			17.500				177		177
BMAC-A-10	Compressor 185 CFM	1.00	10.00 HR			3.000				32		32
BMBC-Z-1	Barge Carpenter 12'X40	2.00	20.00 HR			6.500				138		138
BMBS-Z-17	Spud Barge 170x45' ABS	1.00	10.00 HR			55.000				586		586
		1.00				20.000				213		213
BMBT-Z-12	Tug Push Boat 200 HP		10.00 HR							32		32
8MBW-Z-2	18' Aluminum Boat & O/	1.00	10.00 HR			3.000						53
8MCE-A-40	Bucket Clamshell 3 CYD	1.00	10.00 HR			5.000				53		
8MDH-A-7	DELMAG D19 HAMMER	1.00	10.00 HR			10.000				107		107
8MFD-A-1	FAIRLEADS	1.00	10.00 HR			0.100				1		1

238,690 227,517 231,822 292,472 144,336 1,134,838

Direct Cost Report

CH2MHILL 16-113 Jorge Abisambra	Zero Duval & Mallory Sc
Activity Resource	Desc

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Per Labor Materi		Equip Ment	Sub- Contract	Total
BID ITEM =	2000400	14	La	and Item SCHEDU	JLE: 1	100			
Description =	Project Close Out			Unit = LS	Takeoff Quan:	1.000	Engr (Quan:	1.000
8MGN-Z-11	Generator 10 KW	1.00	10.00 HR	3.000			32		32
BMLT-A-1	Light Tower, Genie	1.00	10.00 HR	3.500			37		37
8MPE-A-11	Extractor Pile	1.00	10.00 HR	5.000			53		53
8MVP-A-11	FORD F150 SUPERC 10	1.00	10.00 HR	6.500			69		69
8MWH-A-1	WINCH 3-DRUM RB-90	1.00	10.00 HR	10.000			107		107
8MWM-C-1	Welder Diesel 400 AMP	1.00	10.00 HR	2.500			27		27
8PILE26	Vibro Hammer 150 TN	1.00	10.00 HR	80.944			818		818
9ADMS11	Subsistance Crew 5		1.00 DA	750.000		758			758
M105	Foreman - General Marine	1.00	10.00 MH	39.030	588	. 50			588
M165	M-Piledriver	1.00	10.00 MH	38.200	584				584
M170	M-Welder	1.00	10.00 MH	34.960	544				544
M190	M-Skilled Laborer	1.00	10.00 MH	31.960	474				474
OPCR100	Op Eng 1A- Crane 100-200		10.00 MH	36.580	564				564
\$8,291.59	50.0000 MH/L		50.00 MH	[1988.03]	2,753	828	4,710		8,292
890011	Upland Crew Demob	90		Quan: 1.00	LS Hrs/Shft:	10.00 Cal:	510 WC	CCISP	100
							5.00	F D	4.00
MARLAN	Up Land Support Crew		10.00	CH Prod	1.0000 S	Lab Pcs:		FOD PCS:	4 (8)
MARLAN 8211050	Up Land Support Crew Fuel, Oil, Grease 500/d		10.00 1.00 DA		1.0000 S	Lab Pcs:		Eqp Pcs:	
8211050	Fuel, Oil, Grease 50g/d	1.00	1.00 DA	200.000	1.0000 S	Lab Pcs:	202	Eqp PCS:	202
8211050 8BHLD480	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY	1.00	1.00 DA 10.00 HR	200.000 56.724	1.0000 S	Lab Pcs:	202 573	Eqp Pcs:	202 573
8211050 8BHLD480 8CRANERT530	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30	1.00	1.00 DA 10.00 HR 10.00 HR	200.000 56.724 64.705	: 1.0000 S	Lab Pcs:	202 573 654	Eqp PCS:	202 573 654
8211050 8BHLD480 8CRANERT530 8MBC-Z-1	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40	7,000,000	1.00 DA 10.00 HR 10.00 HR 10.00 HR	200.000 56.724 64.705 6.500	: 1.0000 S	Lab Pcs:	202 573 654 69	Eqp PCS:	202 573 654 69
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas	1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR	200.000 56.724 64.705 6.500 10.867	: 1.0000 S		202 573 654	Eqp PCS:	202 573 654 69 110
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA	200.000 56.724 64.705 6.500 10.867 750.000	: 1.0000 S	76	202 573 654 69	Eqp Pcs:	202 573 654 69 110 76
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/	1.00 1.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA	200.000 56.724 64.705 6.500 10.867 750.000 480.000			202 573 654 69	Eqp PCS:	202 573 654 69 110 76 485
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 M105	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5	1.00 1.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030	588	76	202 573 654 69	Eqp Pcs:	202 573 654 69 110 76 485 588
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 M105 M195	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer	1.00 1.00 1.00 1.00 2.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH 20.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100	588 902	76	202 573 654 69	Eqp Pcs:	202 573 654 69 110 76 485 588 902
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 M105 M195 OPCR24	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T	1.00 1.00 1.00 1.00 2.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH 20.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400	588 902 549	76	202 573 654 69	Eqp res:	202 573 654 69 110 76 485 588 902 549
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 M105 M195	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer	1.00 1.00 1.00 1.00 2.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH 20.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100	588 902	76	202 573 654 69	Eqp res:	202 573 654 69 110 76 485 588 902
BHLD480 BCRANERT530 BMBC-Z-1 BTRKPU10 BADMS11 BADMT08 M105 M195 DPCR24 DPEXC3 \$4,755.94	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 50.0000 MH/L	1.00 1.00 1.00 1.00 2.00 1.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH 20.00 MH 10.00 MH 10.00 MH 50.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390	588 902 549 549	76 485	202 573 654 69 110	Eqp Pcs:	202 573 654 69 110 76 485 588 902 549 549
8211050 8BHLD480 8CRANERT530 8MBC-Z-1 8TRKPU10 9ADMS11 9ADMT08 M105 M195 OPCR24 OPEXC3 \$4,755.94	Fuel, Oil, Grease 50g/d BHL Cat 450E 1.75CY Crane Grove RT530E 30 Barge Carpenter 12'X40 Pickup 4x2 3/4 Ton Gas Subsistance Crew 5 Craft Subsistence (\$120/D/ Foreman - General Marine M-Laborer Op Eng 2- Crane 20-44T Op Eng 3- Backhoe to 3Y 50.0000 MH/L	1.00 1.00 1.00 1.00 2.00 1.00 1.00	1.00 DA 10.00 HR 10.00 HR 10.00 HR 10.00 HR 0.10 DA 1.00 DA 10.00 MH 20.00 MH 10.00 MH	200.000 56.724 64.705 6.500 10.867 750.000 480.000 39.030 30.100 35.400 35.390	588 902 549 549	76 485	202 573 654 69 110	Eqp Pcs:	202 573 654 69 110 76 485 588 902 549 549

>>> indicates Non Additive Activity

-----Report Notes:-----

\$1,134,837.59

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

*** Report Totals ***

Bid Date: 08/01/14 Owner: Engineering Firm:

Estimator-In-Charge:

JOB NOTES

4,462.50 MH

Source used: Y:\TBG-ENGI\EST MASTERS BACKUP\MASTER12HB.zip (a backup) from 03/15/2012 11:30:47 AM

Direct Cost Report

Page 23 03/10/2016 15:38

Activity Desc Resource	Quantity Pcs Unit	Unit		onstr Equip Sub- /Exp Ment Contract	Total
BID ITEM = 2000400	ECH . V	Land Item SCHEI	DULE: 1 100		1,000
Description = Project Close Out				1.000 Engr Quan:	1.000
**************Estimate created	on: 09/13/2012 by Us	ser#: 612 - John	O'Reilly		
Source used: Y:\TBG-ENGI\EST	MASTERS BACKUP\MASTE	ER12HH.zip (a ba	ckup) from 09/13/20	012 12:52:10 PM	
**************************************			O'Reilly		
Source estimate used: Y:\TBG	-ENGI\EST\MASTER12PM				
**************Estimate created					
Source used: Y:\TBG-ENGI\EST	BACKUPS\12-55A.zip	(a backup) from	10/31/2012 1:01:03	3 PM	
*************Estimate created		ser#: 657 - Jorg	e Abisambra		
Source estimate used: Y:\TBG	-ENGI\EST\12-060A				
**************Estimate created		ser#: 657 - Jorg	e Abisambra		
Source estimate used: Y:\TBG	-ENGI\EST\13-002				
**************Estimate created		ser#: 657 - Jorg	e Abisambra		
Source estimate used: Y:\TBG	-ENGI\EST\13-034				
**************************************	on: 03/10/2016 by Us	ser#: 657 - Jorg	e Abisambra		

^{*} on units of MH indicate average labor unit cost was used rather than base rate.

Source estimate used: Y:\TBG-ENGI\EST\13-034A

410 4 Nights @ 10 hrs/night 508 5 days @ 8hrs/day 509 5 days @ 9 hrs/day

510 5 days @ 10hrs/day (Default Calendar)

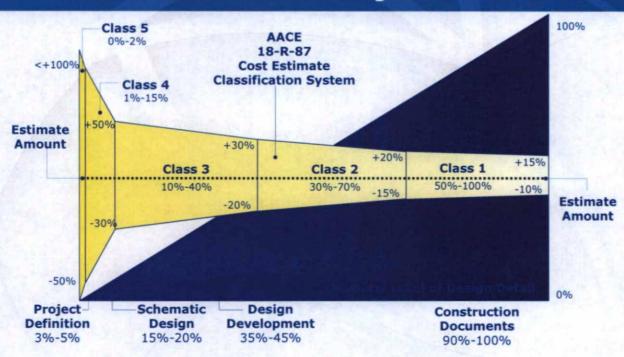
608 6 Days @ 8 hrs/day 610 6 Days @ 10 hrs/day

^[] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE% ------Calendar Codes-----

APPENDIX E - Estimate Class and Accuracy Terms

AACE - Classification System



Construction Cost Estimate Accuracy Ranges



Estimate Class	Class 5	Class 4	Class 3	Class 2	Class 1
LEVEL OF PROJECT DEFINITION Expressed as a % of complete definition	0% to 2%	1% to 18%	10% to 40%	10% to 40% 50% to 70% 50% to 100%	
END USAGE Typical Purpose of Estimate	Concept Screening	Study or Feasibility	Budget Authorization, or Control	Control or Bid / Tender	Check Estimate or Bid / Tender
METHODOLOGY Typical estimating method	Capacity Factored, Parametric Models, Judgment, or Analogy	Equipment Factored or Parametric Models	Semi-Detailed Unit Costs with Assembly Level Line Items		
EXPECTED ACCURACY RANGE Typical variation in low and high ranges (s) PREPARATION	L: -20% to -50% H: +30% to +100%	L: -18% to -30% H: +20% to +60%	L: -10% to -20%. H: +10% to +30%	L: -5% to -15% H: +5% to +20%	£1-3% to -10% Ht +3% to +16%
EFFORT Typical degree of effort relative to leven cost index of 1 (b)	•	2 to 4	3 to 10	4 to 20	6 to 100
SEFINED CLASS DEFINITION	Class S actionales are generally progrand branch on very tended information, and subsequently have very unite accession to the level of the energy united accessions and subsequently tended to the energy tended to the energy tended to the energy tended to the energy tended to the days the subsection of the energy tended to ensure the first days for a conventional and applications reserved. Once if believed, but to the energy tended to ensure Class I desirated, but to the energy tended to ensure Class I desirated, but to the entire tended tende	Clear 4 extilinates are generally proposed based on vary lenked information, and subsequently have vary with security ranges. They are typically used for project screening, desembled on the seability, concept extentions, and preliminary hudges approved. Typically, explorenting is from 1% to 5% comprises, and world comprise as a reasonable to the following comprises, and world comprise as a reasonable to the following configuration (FVCQ) for main process systems and preliminary and previous (FVCQ) for main process systems and preliminary are processed processed on this year of the configuration (Sec. Service of Project Definition Required: 1% to 15% of full project definition.	Clear 3 sectionars are generally proposed to from the least six house, and making a comprisions, notice funding, a sense that funding, a sense that they typically from the Intel a control or section and they typically from the Intel according controlled. Sprainty, and according to fine 19th to 49th controlled. Sprainty, angiterating is from 19th to 49th controlled, and should controlled the Intelligence of the Intelligence	Clima 2 estimates are garantify prespect to time a detailed control feeding agent within a implicat work is monitored in service of control and progress control. Feeding and work is monitored in terms of contil and progress control. For confriction, this client and extended to terminate the setting of estimates to estimate the setting of estimates to estimate the setting of estimates the setting of estimates the setting of estimates and estimates the control of estimates the setting of estimates the setting of estimates the setting of estimates the estimates and estimates and estimates and estimates the electrical estimates and estimates and estimates the electrical estimates and estimates the electrical estimates and estimates and estimates the electrical estimates and estimates	Clean is estimated any premarily programed for discusses parts, or quotients of the build program deter from premaring this level of clearfs for the entire program. The peaks of the project estimated is this level of details of the peaks by an extra program of the transport of the peaks and the production of the control of the or by promote for chearls withmarile. The updated estimates a clean whereand the is the interest control estimate and between the new estimated to the peak to the control of the control and the companies for price estimate or that chearls and the similar to unique expension and control to the chearlest of the similar to unique expension and control to the chearlest or to evaluate chapter to be companied and companies profit and expension and control companies that they all explainments and design disturbantation of the product of companies program expectable and controllationing parts. Level for Proper Orderinal Resourced 50% to 500% of full project and reference.
END USAGE DEPINED	Date 3 editionals as processed to any combined thintenage business planning purposes, such as but not limited to revised studies, assessment of india visibility, sestation of alternate software, project convening, impact traction subset, exclusion of resource reseate and studgeting, languages applied planning, also.	Clear 4 estimates are prepared for a humber of purposes, word as but not inhele for, detailed changing plemmer, business development, project convening at more developed stages, alternative states analysis, confirmation of economic action technical hearbility, and preliminary budget approval or approval to proceed to need stages.	Class 1 setumes are hybridy proposed to subsert ful project hybridgy expenses, and beavers the first of the project phase special settlems, and beavers the first of the project phase special settlems, against which as extent cross and resources and he environment for extentions the budget. They are used as the project hubber and replaced by more detailed extinates, in many cover suppropriets, as Class declinate may be the first extinctive regular and could well from the only beans for contributables contribute.	Clear 2 estimates any fujically programs in the described control learning against which all destinates an recurrence will now the monitores for resistion to the budger, and form a part of the otherspanial estimates of the control program.	Case I self-rates an applically proposed to there is served conten- sed man to be some or the first porter bearing some which a extend states and requires will now be installed for resistance. The hodge, and time a part of the charges sentime central program. They may be used to exclude bit checking, to experi mental contention applications, or for claim walk secretarial (depute resolution).
ENTIMATING METHODS USED	Class 5 settimates virtually always use stochastic estimating methods such as societylanding convention dischars, series appeadons fundors, Lang Batton, Hard Batton, Chaire for parameters fundors, Lang Batton, Hard Batton, Sind other parameters and nodeling fachiniques.	Cleas 4 estimates virtually elveys use stochastic estimating middless suit as occitizated you'vers and feature, scale of specialize factors, Long feature, Transfections, Children feature, Peters* Termenhaus feature, Guthris feature, the Miller method, gross unit contralation, and other generation and modeling berlindigues.	Clears 3 leatinates usually involve trons determinate estimating methods that such each certificial. They usually receive a high digness of our case from lanes, actiously flexis may be at an assembly level of detail texture than instituted conjuments. Failuring and other suchardact residents may be used to estimate less eignificant areas of the project.	Class 2 settinates always involve a high degree of obstantialistic settinating methods. Class 2 settlentials are presented in great classif, and other involves fater of thousands of soft cost line literate. For those seess of the project still undefined, or secured level of classification trained forcact detail) may be developed to use as five lames in the settlental indeed of religing of lationing methods.	Class 1 estimates involve the highest degree of delemination estimating methods, and sequine a goed animate of short. Case estimates are proposed to goed finds, and thus ear suisely performed on only the most transfers or solidal seasor of the project. All leases in the estimate are county with cost this terms based on extract design quantities.
EXPECTED ACCURACY RANGE	"special accuracy ranges for Class 5 extinates are -20% to - 50% on the live side, and -50% to +100% on the toph rates operating on the self-independ completely of the project, appropriate confrigency determination. Ranges movid estated those shown in unusual proximaterises.	Typical accuracy ranges for Class 4 estimates are -15% to - 30% on the two side, and -25% to -45% on the high risks, appending on the ischnological complexity of the project, appropriate softence information, and the inclusion of an appropriate configency determination. Ranges could succeed those shown in unusual circumstances.	Typical accuracy respect for Class 3 extinutes are -10% for - 20% on the less side, of +0% for +25% on the high edi- chaemidig on the exhibitogical compacts; of the project, appropriate reference information, and the inclusion of an appropriate information and the inclusion of an appropriate information and the inclusion of an appropriate including only determined for. Ranges could access these shown in unusual organizations.	Typinal accuracy ranges for Class 2 estimates are 4% to -15% or the law side, and +5% to +55% or the high side. In the companies of the schnelingular complexity of the project, appropriate reference information, and the inclusion of an appropriate configuracy determination. Paragres could exceed those shown in unusual discumstances.	Typical potunego sanges for Clase 1 estimates ans 4% to 15% or the file only and 15% to +15% or the fight cost speciality on the influencement complexity of the prosect, appropriates influence information, and the industrial of an appropriate software before its month of the file o
EFFORT TO PREPARE for URSSIAM project.	As title as 1 hour or less to propers to perhaps more than 200 hours, depending on the project and the soldinating methodology used.	Typically, as little as 25 hours or less to perhaps more than 300 hours, depending on the project and the estimating methodology used.	Typically, so little as 150 hours or less to perhaps more than 1900 hours, beparating on the project and the estimating overholdstage used.	Typically, as title as 500 hours or less to perhape more than 5000 hours, depending on the project and the estimating methodology and 8 of Estimates bysically require more effort than estimates used for funding or sorticil purposes.	Class 1 estimates regular the most effort to owers, and as such are generally developed for only selected enters of the project, for bridging proposes. A simplicipal count is estimate in any involve as little as RDS fours or less, to perhaps store than 600 fours alternating on the project and the estimating restrictionary used. But estimate typically require more effort than estimates used for handling or institute or protects.
ANSI Standard Reference 254.2-1660 nome; Alternate Catimate Names, Terms, Expressions, Systonyms;	Oper of Bagohule Estimas Ratio, ballyon, tilas sky, sear-of- pans, ROM, des etuly, proced writests terrossrien feares sellmate, puestionasis, rule-of frunts.	Sudget Estimate Screening, top-down, Newbolfs, extraction, fectored, pre-design, pre-etudy,	Bulget Estimate Bulget, stope, standon, semi-detailed, authorization, pealinnary optimic connect study, development, best originaering phase soldmate, target estimate.	Definitive Estimate: Detailed Control: forced detail, execution phase, martiar control, engineering, bid, tender, change order, solimate.	Definitive Estimate. Full detail, release, fail-out, tender, firm prior publimin-up, final defailed surtice. furnaci detail resecution phase mustice control, for prior, definitive, change order estimate.

Estimate Class	Class 5	Class 4	Class 3	Class 2	Class 1
Estimate Input					
Checklist and Maturity Index	Class 5	Class 4	Class 3	Claus 2	Class 1
DATA					
oject Scope ecription	General	Palminary	Defract	Defined	Defree
et Production / Fecility peoply	Assured	Preliminary	Defred	Defined	Defined
ed Constion	Gerand	Approximate	Specific	Specific	Specific
de & Hydrology	New	Palminaly	Defract	Defined	Cedinal
legrated Project Plen	Non	Palining	Defred	Defined	Defred
sject Master Schedule	None	Preliminary	Defred	Defined	Defined
ocalation Strategy ork Strategoen	None	Preliminary	Defined	Defined	Defined
tructure reject Code of	None	Pelinitary	Deliver	Defined	Defree
south .	Non	Pelinitaly	Defined	Defined	Defrec
ortracting Strategy	Assumed	Assumed	Palicinaty	Defined	Defined
ENGINERATE IN	Class 5	Class 4	Clear 1	Class 2	Class 1
tock Flow Diagrams	Sand Palmay	Preliminary / Complete	Complete	Conglete	Conjula
ot Plans social Flow Diagrams		Started	Freining / Complete	Complete	Complete
FOx) Rby Flow Diagrams		Started (Preliminary	Philininely / Complete	Complete	Conglide
FDs) ping & Instrument		Started / Preliminary	Preliminary / Complete	Complete	Complete
egrama (P6/06) est and Material		Started	Polinitary / Complete	Conglete	Complete
elerces .		Stated	Polinitary / Complete	Conglide	Complete
coies Equipment List		Started / Preliminary	Prolinitary / Complete	Complete	Congress
tilly Equipment () at lectrical One Line		Started / Preliminary	Preliminary / Complete	Conglete	Complete
ravings pecifosions and		Started / Freiminary	Preliminary / Complete	Conglete	Complete
etacheets eneral Equipment		Stated	Prefinitery / Conjuite	Conglete	Complete
rangement Drawings		Started	Prefinings / Complete	Complete	Complete
pere Perte Liste			Staned / Preliminary	Preliminary	Conglete
retules		Started	Pretingery / Complete	Complete	Complete
ructural Details echanical Discipline		Stated	Preliminary / Complete	Congléte	Congress
exings ection Decipine			Status	Preliminary	Preliminary / Complete
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sitSte Deopine meings			Stated	Preliminary	Preimpary / Complete
emolition Details		Stated	Preliminary / Complete	Complete	Complete

NOTE TO BIDDER: Use preferably BLACK ink for completing this Bid form.

BID FORM

To:	The City of Key West
Address:	3140 Flagler Avenue, Key West, Florida 33040
Project Title:	Repairs and Improvements at Zero Duval and Mallory Square
CH2M HILL Project No.	: 439197
City of Key West Project	No.: <u>EN-1002</u>
Bidder's person to contac	t for additional information on this Bid:
Company:	Shoreline Foundation, Inc.
Name:	James A. Royo
Telephone:	_(954) 985-0460
Email:	tony@shorelinefoundation.com

BIDDER'S DECLARATION AND UNDERSTANDING

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Bid are those named herein, that this Bid is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Bid is made without any connection or collusion with any person submitting another Bid on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents for the construction of the project, that he has personally inspected the site, that he has satisfied himself as to the quantities involved, including materials and equipment, and conditions of work involved, including the fact that the description of the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the Work and to identify the said quantities with the detailed requirements of the Contract Documents, and that this Bid is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Bid.

The Bidder further agrees, as evidenced by signing the Bid, which if awarded a Contract, the Florida Trench Safety Act and applicable trench safety standards will be complied with.

CONTRACT EXECUTION AND BONDS

The Bidder agrees that if this Bid is accepted, he will, within 10 days, not including Sundays and legal holidays, after Notice of Award, sign the Contract in the form annexed hereto, and will at that time, deliver to the Owner examples of the Performance Bond and Payment Bond required herein, and evidence of holding required licenses and certificates, and will, to the extent of his Bid, furnish all machinery, tools, apparatus, and other means of construction and do the Work and furnish all the materials necessary to complete all work as specified or indicated in the Contract Documents.

CERTIFICATES OF INSURANCE

Bidder agrees to furnish the Owner, before commencing the Work under this Contract, the certificates of insurance as specified in these Documents.

START OF CONSTRUCTION AND CONTRACT COMPLETION TIMES

The Bidder agrees to begin work within 10 calendar days after the date of the Notice to Proceed (April 15, 2016) when the Contract Times commence to run as provided in paragraph 2.03.A of the General Conditions. Work will be completed and ready for final payment and acceptance in accordance with paragraph 14.07 of the General Conditions on or before November 30, 2016.

LIQUIDATED DAMAGES

In the event the Bidder is awarded the Contract, Owner and Bidder recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in paragraph Start of Construction and Contract Completion Times above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. Owner and Bidder also recognize the delays, expense, and difficulties involved in proving in a legal or other dispute resolution proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Bidder agree that as liquidated damages for delay (but not as a penalty) Bidder shall pay Owner \$3,000.00 per day for each day that expires after the time specified for final completion.

Owner will recover such liquidated damages by deducting the amount owed from the final payment or any retainage held by Owner.

ADDENDA

The Bidder hereby acknowledges that he has received Addenda No's. 1, 2,
,, (Bidder shall insert No. of each Addendum received) and agrees that all
addenda issued are hereby made part of the Contract Documents, and the Bidder further
agrees that his Bid(s) includes all impacts resulting from said addenda.

BID FORM 00 41 13 - 2

SALES AND USE TAXES

The Bidder agrees that all federal, state, and local sales and use taxes are included in the stated Bid Prices for the Work. Cash allowances DO NOT include any sales and use tax. Equipment allowance includes taxes as shown in Equipment Suppliers' Bid.

PUBLIC ENTITY CRIMES

"A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

LUMP SUM WORK

The Bidder further proposes to accept as full payment for the Work proposed herein the amounts computed under the provisions of the Contract Documents. For lump sum bid items, it is expressly understood that the amounts are independent of the exact quantities involved. The Bidder agrees that the amounts for lump sum work represent a true measure of labor and materials required to perform the Work, including all allowances for overhead and profit for each type of work called for in these Contract Documents. The amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern.

UNFORESEEN CONDITION ALLOWANCE

Bidder further agrees that the amount shown is an estimated amount to be included in the Total Base Bid for unforeseen conditions and conflicts. Bidder further acknowledges that payment will be based on actual costs as determined in conformance with the Contract Documents and as authorized by Change Order. The Owner will negotiate with the Contractor how each Allowance will be spent prior to performing the work.

CONCRETE AND UTILITY ALLOWANCE

Bidder further agrees that the amount shown is an estimated amount to be included in the Total Base Bid for concrete and utility coordination. Bidder further acknowledges that payment will be based on actual costs as determined in conformance with the Contract Documents and as authorized by Change Order. The Owner will negotiate with the Contractor how each Contingency Allowance will be spent prior to performing the work.

PERMIT ALLOWANCE

Bidder further acknowledges that this amount shown is an estimated amount to be included in the Total Base Bid for the Permit required by the City of Key West and any Regulatory Agency Permit(s). Bidder acknowledges that payment will be based on actual cost for the permit(s).

Breakdown of the lump sum bid as provided below is in accordance with the following schedule:

LUMP SUM BID SCHEDULE				
Item No.	Description	Lump Sum Item Price		
A.	Zero Duval			
1,	Mobilization	\$ <u>59,326.00</u>		
2.	Demolition	\$_33,922.00		
	Wooden Deck Demolition/			
3.	Reconstruction	\$ 59,314.00		
4.	Sheet Piles	\$ <u>115,382.00</u>		
5.	Tie Backs and Walers	\$ 168,612.00		
6.	Concrete Cap	\$_93,503.00		
7.	Backfill/Flowable Fill	\$_56,803.00		
8.	Drainage Pipe Extension and Repair	\$ <u>204,362.00</u>		
9.	Misc. General	\$ <u>13,421.00</u>		
10.	Project Close Out / Demobilization	\$_11,049.00		

LUMP SUM BID SCHEDULE				
Item No.	Description	Lump Sum Item Pric		
	SUBTOTAL 'A'	\$815,694.00		
B.	Mallory			
1.	Mobilization	\$_48,526.00		
2.	Demolition	\$_37,286.00		
3. Piling4. Concrete		\$_208,306.00		
		\$_227,701.00		
5.	Fenders	\$_16,859.00		
6.	Misc. General	\$_13,048.00		
7.	Project Close Out / Demobilization	\$_11,049.00		
	SUBTOTAL 'B'	\$ <u>562,775.00</u>		

C.	Unforeseen Condition Allowance	\$ 125,000
D.	Permit Allowance	\$ 40,000
E.	Concrete and Utility Allowance	\$ <u>75,000</u>
	Total Lump Sum Bid (AE.)	\$ <u>1,618,469.00</u>

	Total Lum	p Sum Dia (AE.)	9_1,010,102.00		
		full payment for the on the Drawings, the			
Four Hundre	Six Hundred Eigh ed and Sixty-Nine ten in words has p	Dollars and	Zero		cents.
Basis of Awa	rd is Total Lump	Sum Bid Amount.			
<u>ALTERNATI</u>	E BIDS – LUMP	SUM			
Provide Work	of Alternate Iten	ns as specified in Sec	tion 01 29 00 for	the followi	ng amounts:
Alternate No.	1: New Tin	nber Piles (Each Pile)	\$ <u>3,971.00</u>	0	
SUBCONTRA	ACTORS				
	ontracts for the fo	at the following subcollowing portions of t			
Nearshore E	lectric Inc.				
Name					
_5680 1st Ave	nue, #5	Key Wes	t	FL.	33040
Street		City		State	Zip
*Pavers - TB	D				
Name					
Street		City		State	Ziŗ
*Plumbing -	TBD				
Name					
	14				

BID FORM 00 41 13 - 6

439197/WPB ADDENDUM 1 – FEBRUARY 18, 2016 ©COPYRIGHT 2016 CH2M HILL

Street	City	State	Zip
Name			
Street	City	State	Zip
Surety			
Matson-Charlton Surety Group		whose	address is
700 South Dixie Highway, Suite 100 Street	<u>Coral Gables</u> City	FLState	33146_ Zip
Bidder			
Bidder The name of the Bidder submitting this	Bid is <u>Shoreline Foun</u>	idation, Inc.	
	Bid is <u>Shoreline Foun</u>		business at
	Bid is <u>Shoreline Foun</u> Pembroke Park		business at
The name of the Bidder submitting this		doing	
The name of the Bidder submitting this 2781 SW 56th Avenue	Pembroke Park City	doingFloridaState	33023 Zip
The name of the Bidder submitting this 2781 SW 56th Avenue Street which is the address to which all comm	Pembroke Park City nunications concerned with	Florida State th this Bid and wit	33023 Zip
The name of the Bidder submitting this 2781 SW 56th Avenue Street which is the address to which all comm Contract shall be sent. The names of the principal officers of the street o	Pembroke Park City nunications concerned with	Florida State th this Bid and wit	33023 Zip
The name of the Bidder submitting this 2781 SW 56th Avenue Street which is the address to which all comm Contract shall be sent. The names of the principal officers of t partnership, or of all persons interested	Pembroke Park City nunications concerned with the corporation submitting in this Bid as principals	Florida State th this Bid and wit	33023 Zip

END OF SECTION

Barry S. Reed

Secretary

FLORIDA BID BOND

	BOND NO. N/A BID BOND
	AMOUNT: \$_0
KNOW ALL MEN BY THESE PRESENTS, that	SHORELINE FOUNDATION, INC.
77 AUG - 11 - 11110	
hereinafter called the Contractor (Principal), and $\underline{\mathrm{TI}}$	RAVELERS CASUALTY AND SURETY
COMPANY OF AMERICA	
a corporation duly organized and existing under and Florida, hereinafter called the Surety, and authorize Florida, as Surety, are held and firmly bound unto	ed to transact business within the State of
(Obligee), in the sum of: FIVE PERCENT OF THE AMO	OUNT BID
DOLL	ARS (\$5%), for
the payment for which we bind ourselves, our heirs, and assigns, jointly and severally, firmly by these payments	지는 경기에서 가는 어느 이 사람들은 얼마나 가는 사람들이 아니라 하는 것이 없는 것이 없었다.

THE CONDITION OF THIS BOND IS SUCH THAT:

WHEREAS, the Principal is herewith submitting his or its Bid Proposal for Repairs and Improvements at Zero Duval and Mallory Square, Key West, Florida, said Bid Proposal, by reference thereto, being hereby made a part hereof.

WHEREAS, the Principal contemplates submitting or has submitted a bid to the Obligee for the furnishing of all labor, materials (except those to be specifically furnished by the Owner), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the Proposal and the detailed Drawings and Specifications, entitled:

REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check, certified check, or bid bond in the amount of 5 percent of the base bid be submitted with said bid as a guarantee that the Bidder would, if awarded the Contract, enter into a written Contract with the Owner for the performance of said Contract, within 10 working days after written notice having been given of the award of the Contract.

439197/WPB JANUARY 2016 ©COPYRIGHT 2016 CH2M HILL FLORIDA BID BOND 00 43 13 - 1 NOW, THEREFORE, the conditions of this obligation are such that if the Principal within 10 consecutive calendar days after written notice of such acceptance, enters into a written Contract with the Obligee and furnishes the Performance and Payment Bonds, each in an amount equal to 100 percent of the awarded base bid, satisfactory to the Owner, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the Obligee and the Surety herein agrees to pay said sum immediately upon demand of the Obligee in good and lawful money of the United States of America, as liquidated damages for failure thereof of said Principal.

Signed and sealed this 24TH day of FEBRUARY , 20 16.

SHORELINE FOUNDATION, INC.

Principal

By:

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

Surety

By:

Attorney-In-Fact D. W. MATSON III

END OF SECTION



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No.

216588

Certificate No. 005991874

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

D. W. Matson III, and John W. Charlton

of the City of	Coral Gable	es	, State of	Flori	da	- 1	heir true and law	ful Attorney(s)-in-Fac
other writings ob	ligatory in the n	ature thereof on bel		es in their busine	ss of guaranteein	and all bonds, reco	ognizances, condit ersons, guarantee	tional undertakings at ing the performance
T 1	HEREOF, the		sed this instrument t	to be signed and t	heir corporate se	als to be hereto aff	ixed, this	21st
day ofJuly		,	100	Mr. March	100			
		Fidelity and Guar St. Paul Fire and	ialty Company ranty Insurance Co ranty Insurance Un Marine Insurance n Insurance Compa	derwriters, Inc. Company	Tra Tra	Paul Mercury Insvelers Casualty a velers Casualty a velers Casualty a ted States Fidelity	nd Surety Compand Surety Comp	any any of America
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State of Connecti	cut				By:	Sales	Ly	01170
City of Hartford	SS.					Robert L. Rane	ey, Senior Vice Presi	dent
be the Senior Vice Fire and Marine Casualty and Sur	e President of Fa Insurance Compa ety Company of	any, St. Paul Guardia America, and Unite	an Insurance Compa	nd Guaranty Insur ny, St. Paul Merc I Guaranty Comp	ance Company, F ury Insurance Co any, and that he,	idelity and Guara mpany, Travelers as such, being aut	nty Insurance Und Casualty and Sure	knowledged himself erwriters, Inc., St. Pa tty Company, Travele executed the foregoin

58440-8-12 Printed in U.S.A.

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
	: S:
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid (Repairs and Improvements at Zero Duval and Mallory Square) will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

James A. Royo - President

Sworn and subscribed before me this day of MACH, 2016

NOTARY PUBLIC, State of Florida

at Large

Notary Public State of Florida Joseph Stanton My Commission EE 827488 Expires 08/28/2016

My Commission Expires: 8 28

END OF SECTION

SWORN STATEMENT UNDER SECTION 287.133(3)(A) FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1.	This sworn statement is submitted with Bid or Proposal for Repairs and Improvements at Zero D and Mallory Square, City of Key West, Florida.			
2.	This sworn statement is submitted by Shoreline Foundation, Inc. (name of entity submitting sworn statement)			
	whose business address is 2781 SW 56th Avenue, Pembroke Park, FL 33023			
	and (if applicable) its Federal Employer			
	Identification Number (FEIN) is59-2695595			
	(If the entity has no FEIN, include the Social Security Number of the individual signing this			
	sworn statement			
3.	My name is James A. Royo (please print name of individual signing)			
	and my relationship to the entity named above isPresident			
4.	I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.			
5.	I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.			
6.	I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means			
	1. A predecessor or successor of a person convicted of a public entity crime; or			
	2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.			

- 7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
- 8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies).

X Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person of affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

____The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(signature) 3/1/16

STATE OF Florida

COUNTY OF Broward

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

(name of individual signing) who, after first being sworn by me, affixed his/her

signature in the space provided above on this (St of MARCH , 2016

My commission expires: 9 28/6

Notary Public State of Florida
Joseph Stanton
My Commission EE 827488
Expires 08/28/2016

NOTARYPIBLIC

PUBLIC ENTITY CRIMES 00 43 17 - 2

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CITY OF KEY WEST INDEMNIFICATION FORM

To the fullest extent permitted by law, the CONTRACTOR expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents and employees *(herein called the "indemnitees") from liabilities, damages, losses and costs, including but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR, its Subcontractors or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONTRACTOR's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONTRACTOR under Workers' Compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONTRACTOR or of any third party to whom CONTRACTOR may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR:	Shoreline Foundation, Inc.	SEAL:
	2781 SW 56th Avenue	
*	Address	
C	Signature James A. Royo Print Name	
	President Title	
DATE:	3/1/16	

SECTION 00 43 19 EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)	
	: SS	
COUNTY OF Broward)	
provides benefits to dom		ay that the firm of <u>Shoreline Foundation</u> , <u>Inc</u> wees on the same basis as it provides benefits ance Sec. 2-799.
Sworn and subscribed be	efore me this	By: James A. Royo, President
day of	Stes	Notary Public State of Florida Joseph Stanton My Commission EE 827488 Expires 08/28/2016
0	y Commission Expires:	8/28/16

City Ordinance Sec. 2-799 Requirements for City Contractors to Provide Equal Benefits for Domestic Partners

- (a) Definitions. For purposes of this section only, the following definitions shall apply:
 - (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
 - (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
 - (3) Cash equivalent means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
- c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) Contract means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
- (5) Contractor means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
- (6) Covered contract means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).
- (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained

by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.

(8) Equal benefits mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.

(b) Equal benefits requirements.

- (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
- (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
- (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
- (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
- (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/she determines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for the purpose of evading the requirements of this section.
- (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.

- (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.
- (c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:
 - (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
 - (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
 - (3) If the contractor fails to comply with this section, the city may terminate the covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.
 - (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.
- (d) Enforcement. If the contractor fails to comply with the provisions of this section:
 - (1) The failure to comply may be deemed to be a material breach of the covered contract; or
 - (2) The city may terminate the covered contract; or
 - (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
 - (4) The city may also pursue any and all other remedies at law or in equity for any breach:
 - (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."
- (e) Exceptions and waivers.

The provisions of this section shall not apply where:

- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.
- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, The acquisition services procured

- pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").
- (6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:
 - a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.
- (7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:
 - a. The covered contract is necessary to respond to an emergency.
 - b. Where only one bid response is received.
 - c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.
- (f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a nonresponsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.
- (g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

SECTION 00 43 21 CONE OF SILENCE AFFIDAVIT

STATE OF FIORICA)			
	: SS	~		
COUNTY OF Broward	_)			
				4
I the undersigned hereby duly	sworn depose	and say that all	owner(s), partne	ers, officers,
directors, employees and agents	representing the	firm ofShore	line Foundation, I	nc.
have read and understand the lim				
City of Key West issued compo	etitive solicitation	ons pursuant to	City of Key Wes	st Ordinance
Section 2-773 Cone of Silence (at	ttached).			
		\$^^^	~~~~	~
Sworn and subscribed before me	this		ary Public State of Florida eph Stanton	}
1st day of WARLY	,20/6.		Commission EE 827488 ires 08/28/2016	{
day of wareful	, 20[•	******	·	₩\$
Joseph &	0			
NOTARY PUBLIC, State of	loelds at	Large		
0.1	ali			
My Commission Expires: 8	28/18			

Sec. 2-773. Cone of Silence

- (a) Definitions. For purposes of this section, reference to one gender shall include the other, use of the plural shall include the singular, and use of the singular shall include the plural. The following definitions apply unless the context in which the word or phrase is used requires a different definition:
 - 1) Competitive Solicitation means a formal process by the City of Key West relating to the acquisition of goods or services, which process is intended to provide an equal and open opportunity to qualified persons and entities to be selected to provide the goods or services. Completive Solicitation shall include request for proposals ("RFP"), request for qualifications ("RFQ"), request for letters of interest ("RFLI"), invitation to bid ("ITB") or any other advertised solicitation.
 - 2) Cone of Silence means a period of time during which there is a prohibition on communication regarding a particular Competitive Solicitation.
 - 3) Evaluation or Selection Committee means a group of persons appointed or designated by the City to evaluate, rank, select, or make a recommendation regarding a Vendor or the Vendor's response to the Competitive Solicitation. A member of such a committee shall be deemed a city official for the purposes of subsection (c) below.
 - 4) Vendor means a person or entity that has entered into or that desires to enter into a contract with the City of Key West or that seeks an award from the City to provide goods, perform a service, render an opinion or advice, or make a recommendation related to a Competitive Solicitation for compensation or other consideration.
 - 5) Vendor's Representative means an owner, individual, employee, partner, officer, or member of the board of directors of a Vendor, or a consultant, lobbyist, or actual or potential subcontractor or sub consultant who acts at the behest of a Vendor in communicating regarding a Competitive Solicitation.
- (b) Prohibited Communications: A Cone of Silence shall be in effect during the course of a Competitive Solicitation and prohibit:
 - 1) Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the City's administrative staff including, but not limited to, the city manager and his or her staff;
 - Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and the Mayor, City Commissioners, or their respective staff;

- Any communication regarding a particular Competitive Solicitation between a potential Vendor or Vendor's Representative and any member of a City evaluation and/or selection committee therefore; and
- 4) Any communication regarding a particular Competitive Solicitation between the Mayor, City Commissioners, or their respective staff, and a member of a City evaluation and/or selection committee therefore.
- (c) Permitted Communications: Notwithstanding the foregoing, nothing contained herein shall prohibit:
 - 1) Communication between members of the public who are not Vendors or a Vendor's representative and any city employee, official or member of the City Commission;
 - Communications in writing at any time with any city employee, official or member of the City Commission, unless specifically prohibited by the applicable Competitive Solicitation.
 - (A) However, any written communication must be filed with the City Clerk. Any City employee, official or member of the City Commission receiving or making any written communication must immediately file it with the City Clerk.
 - (B) The City Clerk shall include all written communication as part of the agenda item when publishing information related to a particular Competitive Solicitation.
 - 3) Oral communications at duly noticed pre-bid conferences;
 - 4) Oral presentations before publically noticed evaluation and/or selection committees;
 - 5) Contract discussions during any duly noticed public meeting;
 - 6) Public presentations made to the City Commission or advisory body thereof during any duly noticed public meeting;
 - 7) Contract negotiations with city staff following the award of a Competitive Solicitation by the City Commission; or
 - 8) Purchases exempt from the competitive process pursuant to section 2-797 of these Code of Ordinances.

(d) Procedure

The Cone of Silence shall be imposed upon each Competitive Solicitation at the time
of Public Notice of such solicitation as provided by section 2-826 of this Code.
Public notice of the Cone of Silence shall be included in the notice of the Competitive

Solicitation. The city manager shall issue a written notice of the release of each Competitive Solicitation to the affected departments, with a copy thereof to each Commission member, and shall include in any public solicitation for goods and services a statement disclosing the requirements of this ordinance.

- 2) The Cone of Silence shall terminate at the time the City Commission or other authorized body makes final award or gives final approval of a contract, rejects all bids or responses to the Competitive Solicitation, or takes other action which ends the Competitive Solicitation.
- 3) Any City employee, official or member of the City Commission that is approached concerning a Competitive Solicitation while the Cone of Silence is in effect shall notify such individual of the prohibitions contained in this section. While the Cone of Silence is in effect, any City employee, official or member of the City Commission who is the recipient of any oral communication by a potential Vendor or Vendor's Representative in violation of this section shall create a written record of the event. The record shall indicate the date of such communication, the persons with whom such communication occurred, and a general summation of the communication.

(e) Violations/penalties and procedures.

- A sworn complaint alleging a violation of this ordinance may be filed with the City Attorney's office. In each such instance, an initial investigation shall be performed to determine the existence of a violation. If a violation is found to exist, the penalties and process shall be as provided in section 1-15 of this Code.
- In addition to the penalties described herein and otherwise provided by law, a violation of this ordinance shall render the Competitive Solicitation void at the discretion of the City Commission.
- 3) Any person who violates a provision of this section shall be prohibited from serving on a City of Key West advisory board, evaluation and/or selection committee.
- 4) In addition to any other penalty provided by law, violation of any provision of this ordinance by a City of Key West employee shall subject said employee to disciplinary action up to and including dismissal.
- 5) If a Vendor is determined to have violated the provisions of this section on two more occasions it shall constitute evidence under City Code section 2-834 that the Vendor is not properly qualified to carry out the obligations or to complete the work contemplated by any new Competitive Solicitation. The City's Purchasing Agent shall also commence any available debarment from city work proceeding that may be available upon a finding of two or more violations by a Vendor of this section.

END OF SECTION

N/A

LOCAL VENDOR CERTIFICATION PURSUANT TO CKW ORDINANCE 09-22 SECTION 2-798

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

- a. Principle address as registered with the FL Department of State located within 30 miles of the boundaries of the city, listed with the chief licensing official as having a business tax receipt with its principle address within 30 miles of the boundaries of the city for at least one year immediately prior to the issuance of the solicitation.
- Maintains a workforce of at least 50 percent of its employees from the city or within 30 miles of its boundaries.
- c. Having paid all current license taxes and any other fees due the city at least 24 hours prior to the publication of the call for bids or request for proposals.
 - Not a local vendor pursuant to Ordinance 09-22 Section 2-798
 - Qualifies as a local vendor pursuant to Ordinance 09-22 Section 2-798

If you qualify, please complete the following in support of the self certification & submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name	Phone:
Current Local Address:	Fax:
(P.O Box numbers may not be used to establish status)
Length of time at this address	
Signature of Authorized Representative	Date
STATE OF Florida	
COUNTY OF Broward	
The foregoing instrument was acknowledged before n By	ne thisday of, 20
(Name of officer or agent, title of officer or agent) or has produced	Name of corporation acknowledging) as identification
(type of identification)	
	Signature of Notary
Return Completed form with Supporting documents to:	Print, Type or Stamp Name of Notary
City of Key West Purchasing	Title or Rank

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LOCAL VENDER CERTIFICATION 00 43 22 - 1

BIDDER'S CHECKLIST

(Note: The purpose of this checklist is to serve as a reminder of major items to be addressed in submitting a bid and is not intended to be all inclusive. It does not alleviate the Bidder from the responsibility of becoming familiar with all aspects of the Contract Documents and proper completion and submission of his bid.)

1.	All Contract Documents thoroughly read and understood.	[X]
2.	All blank spaces in Proposal filled in, using black ink.	[X]
3.	Total and unit prices added correctly.	[x]
4.	Addenda acknowledged.	[X]
5.	Subcontractors are named as indicated in the Proposal.	[X]
6.	Experience record included.	[X]
7.	Bid signed by authorized officer.	[X]
8.	Bid Bond completed and executed, including power-of-attorney dated the same date as Bid Bond.	[X]
9.	Bidder familiar with federal, state, and local laws, ordinances, rules and regulations affecting performance of the work.	[X]
10.	Bidder, if successful, able to obtain and/or demonstrate possession of required licenses and certificates within (10) ten calendar days after receiving a Notice of Award.	[X]
11.	Bid submitted shall contain Bid Form, Bid Security, Experience Record, Anti-Kickback Affidavit, Public Entity Crimes, Key West Indemnification Form, Disclosure of Lobbying Activities, Non-Collusion Declaration and Compliance, Florida Trench Safety Act Compliance, and Suspension and Debarment Certificate, Equal Benefits for Domestic Partner Affidavit, Cone of Silence Affidavit, and Local Vendor Certification.	[X]
12.	Bid Documents submitted in sealed envelope and addressed and labeled in conformance with the instructions in the Invitation to Bid.	[X]
13.	Bidder must provide satisfactory documentation of State Licenses.	[X]

DISCLOSURE OF LOBBYING ACTIVITIES

N/A

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 (See reverse for public burden disclosure.)

a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. Status of F Action: a. bid/offer/app b. initial award c. post-award	olication	a. initial filing b. material change For Material Change Only: year quarter date of last report
4. Name and Address of Repo Prime Subawardee Tier known: Congressional District, if known	, if	Enter Nar	orting Entity in No. 4 is Subawardee, ne and Address of Prime: essional District, if known:
6. Federal Department/Agenc	y:		al Program Name/Description: mber, if applicable:
8. Federal Action Number, if k	nown:	9. Award	Amount, if known:

10. a. Name and Address of Lobbying Entity (if individual, last name, first name, MI):	b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):
(attach Continuation Sheet(s)	SF-LLLA, if necessary)
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: Print Name: Title: Telephone No.: Date:
Federal Use Only:	Authorized for Local Reproduction Standard Form – LLL (Rev 7 – 97)

FORM DEP 55-221 (01/01)

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

- 1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
- 2. Identify the status of the covered Federal action.
- 3. Identify the appropriate classification of this report. If this is a follow up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by the reporting entity for this covered Federal action.
- 4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
- 5. If the organization filing the report in item 4 checks "Subawardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
- 6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
- 7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

- 8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
- 9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
- 10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.
 - (b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
- 11. The certifying official shall sign and date the form, print his/her name, title and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

Form DEP 55-221 (01/01)

NON-COLLUSION DECLARATION AND COMPLIANCE WITH 49 CFR §29.

		ITEM/SEGMENT NO.: F.A.P. NO.: PARCEL NO.: COUNTY OF: BID LETTING OF:,	
r		James A. Royo	, hereby
declare that I am	Dragidant	(NAME)	
deciare that rain_	(TITLE)	of Shoreline Foundation, I	nc.
Of	(mee)	Pembroke Park, FL	
and that I am the	person respons	(CITY AND STATE) sible within my firm for the final decision as to the	price(s) and

I further declare that:

amount of this Bid on this State Project.

- 1. The prices(s) and amount of this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition with any other contractor, bidder or potential bidder.
- Neither the price(s) nor the amount of this bid have been disclosed to any other firm or person who is a bidder or potential bidder on this project, and will not be so disclosed prior to the bid opening.
- 3. No attempt has been made or will be made to solicit, cause or induce any other firm or person to refrain from bidding on this project, or to submit a bid higher than the bid of this firm, or any intentionally high or non-competitive bid or other form of complementary bid.
- 4. The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary bid.
- 5. My firm has not offered or entered into a subcontract or agreement regarding the purchase of materials or services from any firm or person, or offered, promised or paid cash or anything of value to any firm or person, whether in connection with this or any other project, in consideration for an agreement or promise by any firm or person to refrain from bidding or to submit a complementary bid on this project.
- 6. My firm has not accepted or been promised any subcontract or agreement regarding the sale of materials or services to any firm or person, and has not been promised or paid cash or anything of value by any firm or person, whether in connection with this or any other project, in consideration for my firm's submitting a complementary bid, or agreeing to do so, on this project.
- 7. I have made a diligent inquiry of all members, officers, employees, and agents of my firm with responsibilities relating to the preparation, approval or submission of my firm's bid on this project and have been advised by each of them that he or she has not participated in any communication, consultation, discussion, agreement, collusion, act or other conduct inconsistent with any of the statements and representations made in this Declaration.

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- 8. As required by Section 337.165, Florida Statutes, the firm has fully informed the Department of Transportation in writing of all convictions of the firm, its affiliates (as defined in Section 337.165(I)(a), Florida Statutes), and all directors, officers, and employees of the firm and its affiliates for violation of state or federal antitrust laws with respect to a public contract or for violation of any state or federal law involving fraud, bribery, collusion, conspiracy or material misrepresentation with respect to a public contract. This includes disclosure of the names of current employees of the firm or affiliates who were convicted of contract crimes while in the employ of another company.
- 9. I certify that, except as noted below, neither my firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of Federal funds:
- (a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR §29.110(a), by any Federal department or agency;
- (b) has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against him or her for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, State or local government transaction or public contract; violation of Federal or State antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
- (c) is presently indicted for or otherwise criminally or civilly charged by a Federal, State or local governmental entity with commission of any of the offenses enumerated in paragraph 9(b) of this certification; and
- (d) has within a three-year period preceding this certification had one or more Federal, State or local government public transactions terminated for cause or default..
- 10. I(We), certify that I(We), shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this contract by any Federal Agency unless authorized by the Department.

Where I am unable to declare or certify as to any of the statements contained in the above stated paragraphs numbered (1) through (10), I have provided an explanation in the "Exceptions" portion below or by attached separate sheet.

EXCEPTIONS:

(Any exception listed above will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, indicate to whom it applies, initiating agency and dates of agency action.

Providing false information may result in criminal prosecution and/or administrative sanctions.)

I declare under penalty of perjury that the foregoing is true and correct.

CONTRACTOR:

(Seal)

BY: James A. Royo - President
NAME AND TITLE PRINTED

WITNESS

BY:

SIGNATURE

WITNESS

Executed on this

day of March

FAILURE TO FULLY COMPLETE AND EXECUTE THIS DOCUMENT MAY RESULT IN THE BID BEING DECLARED NONRESPONSIVE

FLORIDA TRENCH SAFETY ACT COMPLIANCE Trench Excavation Safety System and Shoring

CERTIFICATION

All excavation, trenching, and related sheeting, bracing, etc. on this project (Seawall Repairs at Zero Duval) shall conform to the requirements of the Florida Trench Safety Act (90-96, CS/SB 2626), which incorporates by reference, OSHA's excavation safety standards, 29 CFR 1926.650 Subpart P including all subsequent revisions or updates to the these standards.

By submission of this bid and subsequent execution of this Contract, the undersigned certifies compliance with the above mentioned standards and further stipulates that all costs associated with this compliance are detailed below as well as included in their lump sum bid amount.

Summary of Costs:					
Trench Safety Measure	Units	Quantity	Unit Cost	Extended Cost	
A. Barricades	LS	LS	\$1,500	\$1,500	
В	-	-			
Joch					
Signature 3/1/16					
STATE OF _ Florida		-			
COUNTY OF Broward					
PERSONALLY APPEAR	ED BEFORE M	IE, the undersign	ned authority,		
James A Roya space,	, who, after	first being sworn	by me affixed hi	s /her signature in the	
provided above on the 18	day of	Ancu	, 20 <u>6</u> .		
Notary Public				Notary Public State of Florida Joseph Stanton	3
MY COMMISSION EXPIR	es: 8 2	8/16	{\\}	My Commission EE 827488 Expires 08/28/2016	3

SUSPENSION AND DEBARMENT CERTIFICATION

CERTIFICATION REGARDING DEBARMENTS, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION-LOWER TIER FEDERALLY FUNDED TRANSACTIONS

- 1. The undersigned hereby certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2. The undersigned also certifies that it and its principals:
- (a) Have not within a three-year period preceding this certification been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State anti-trust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- (b) Are not presently indicated for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 2.(a) of this Certification; and
- (c) Have not within a three-year period preceding this certification had one or more public transactions (Federal, State or local) terminated for cause or default.
- 3. Where the undersigned is unable to certify to any of the statements in this certification, an explanation shall be attached to this certification.

Dated this day of, March 1,, 20 16	
By VocAs	
Authorized Signature/Contractor	
James A. Royo - President	
Typed Name/Title	
Shoreline Foundation, Inc.	
Contractor's Firm Name	
2781 SW 56th Avenue	
Street Address	
Building, Suite Number	
Pembroke Park, FL 33023	
City/State/Zip Code	
(954) 985-0460	

439197/WPB 04 44 04

Exhibit "A"

Addendums



ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS Project No.: 439197
for the construction of the

Date: February 18, 2016

ITB#: 016-002, EN-1002

REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE

CITY OF KEY WEST KEY WEST, FLORIDA

To All Plan holders and/or Prospective Bidders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE dated January 2016 as fully and completely as if the same were fully set forth therein:

PRE-BID MEETING

- Attached is the meeting minutes from the pre-bid meeting held on February 4, 2016.
- Attached is a copy of the sign-in sheet from the pre-bid meeting.

SPECIFICATIONS

PART 1—PROCUREMENT REQUIREMENTS

SECTION 00 41 13 - BID FORM

REPLACE the existing Section 00 41 13 BID FORM dated January 2016 in its entirety with the attached dated February 18, 2016.

PART 3 —SPECIFICATIONS

SECTION 01 29 00 - PAYMENT PROCEDURES

ADD the following Article 1.09 Alternates to existing Specification Section 01 29 00 PAYMENT PROCEUDRES dated January 2016.

1.09 ALTERNATES

- A. Coordinate related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted Alternate is complete and fully integrated into the Project.
- B. Immediately following the Award of the Contract, prepare and distribute to each party involved, notification of the status of each Alternate.

PW/TBG/439197 00 01 00-2

FEBRUARY 18, 2016 ADDENDUM NO. 1



C. Include as part of each Alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

D. Schedule of Alternates:

- 1. Alternate No. 1 New Timber Piles (Each): This Alternate is an additive Alternate which will be added to the Base Bid (if selected). The intent of this Alternate is to allow the City to have new piles reconstructed for the Fury Dock to replace the existing deteriorating or fractured piles. As part of this Alternate, the price will be the represented change in price to:
 - a. Remove old pile from location identified and legally dispose of offsite.
 - b. Provide new 16 inch diameter marine grade pressure treated pile.
 - Install vertical and true to a tip elevation of 15 feet minimum into limerock or -35 feet below water surface whichever is deeper.
 - d. Top of pile shall be at elevation necessary to serve as columns and roof framing supports for the dock roof decking (match existing).

QUESTIONS AND ANSWERS

- Mallory: Are construction joints allowed on Dolphin structure (i.e. for pre-casting purposes of a
 portion of the dolphin followed by a final cast-in-place pour, provided proper methodology of
 construction is provided and approved).
 - RESPONSE: This proposal is acceptable and will be considered subject to an acceptable plan presented by Contractor.
- Mallory: What are the construction limits on the water side in front of the Mallory Square Pier (i.e. how big of an area can be occupied by floating equipment).
 - RESPONSE: Construction limits on the waterside will be limited to the width of the barge along the length of the T-pier. Equipment shall be tied properly, moored and lit according to Coast Guard Standards while berthed along the pier. During construction and while workers are present, barge may be offset off the face of pier and spudded down as necessary to allow construction. Upon completion of work for the day, barge shall be placed adjacent to the pier again and tied as a typical floating vessel. Subject to Navy approval, the Contractor will relocate the barge on weekends to the East Quay pier at the Truman Waterfront.
- 3. Mallory: can floating equipment stay overnight in front of the Mallory Square Pier (given proper Nav. Lights are provided per USCG requirements).
 - RESPONSE: Yes, the T-pier can be used for mooring of floating equipment at night providing U.S. Coast Guard lighting is provided and adequate tie-down provisions are made.
- 4. Mallory: will the entire Pier area be made available to the contractor, including access from the land side? If so, can the pier be use for temporary storage purposes during construction?

RESPONSE: The length of the north-south run of the T-pier will be made available for storage of contractor's materials and equipment provided that it does not exceed 5-feet in height stacked. Weight of materials on the pier shall not exceed a uniform load of 200 PSF. Contractor shall keep loads below this value and shall protect the piers, pavers, and finish from damage by construction use. All other equipment and materials shall be stored on the Contractor's barge and may not be stored upland or in the general area of Mallory Square. Should Contractor require additional space beyond the barge and pier, upland land may be available by the City for a leased rate upon coordination with the City.

5. Zero Duval: What are the construction limits on the water side in front of the Zero Duval bulkhead? Sheet DS-100 seems to be showing the limit to be around 48-50' wide, but how far offshore away from the bulkhead can be occupied by floating equipment. Are we also limited to that 48'-50' width along the bulkhead line?

RESPONSE: The waterside Construction limits for Zero Duval portion of the project shall be limited to the area identified on Sheet G-003 as Submerged Lease Area. This is the dashed lines in the water approximately 50 feet wide by 90 feet long. All facilities adjacent to and surrounding the construction work shall remain open and actively operational during construction including the Jet Ski and boat rental area.

6. Zero Duval: There is a sports-landing (i.e. JetSki's landing) on the left/west side of the bulkhead; will it remain operational or will it also be closed during construction? If it is to remain open, what are the limits/clearance that needs to be maintain in front of the landing (water side) with floating equipment?

RESPONSE: All construction work and equipment shall be kept within the limits of construction waterside as identified in Question No. 5.

7. Zero Duval: Existing Dock on the right/East side of the Zero Duval bulkhead; will it remain operational or will it also be closed during construction? If it is to remain open, what are the limits/clearance that needs to be maintain in front of the docks along the East side of the marina?

RESPONSE: See response to No. 6.

8. Zero Duval: The Timber pile dolphin seems to be almost dead center in front of the Duval bulkhead and may interfere with floating equipment's (i.e. crane barge). Is that timber dolphin to remain? If so, can contractor temporarily remove the dolphin and replace it at the end?

RESPONSE: Timber Dolphins shall remain in place throughout construction and may not be removed and reinstalled. Contractor shall work within the limits provided in Question 5 and shall not interfere with any existing structures other than those required under the Contract to be removed and replaced. Contractor may move their barge to either side of the existing dolphins, as required during construction, so long as they do not block access to the surrounding areas that will remain open and operational during construction. See response to Question No. 6.

9. Zero Duval: will contractors be allowed to temporarily block the entrance access to the Marina area (i.e. in order to temporarily remove the timber pile and re-install it). If not, what would be the minimum area that needs to be left open for smaller vessels traffic?

RESPONSE: Blockages and impairment to adjacent property owners and businesses shall be coordinated in detail with the City well in advance of the blockage. Contractor will be limited to the area identified in Question 5 unless mutually agreed upon during construction without impeding operations and business activities of adjacent facilities.

10. Zero Duval: Can the perimeter fence (jersey barrier/fence) be extended another 14' back (i.e. up to the first light pole that will be directly in front of the "Ticket Building" once temporarily relocated), making the Jersey barrier go not only along the back of the ticket building but also around the left side (still keeping the ticket building outside the construction area). Current space does not appear to be enough area in order to properly and safely perform the necessary works.

RESPONSE: Temporary Jersey barrier and fence on the south side of the laydown area may be moved to align with the south face of the relocated ticket shack. Area may not be made larger than this. This puts the temporary fence along the back of the ticket building but also around the left side and parallel with the south face of the relocated booth (still keeping the ticket building outside the construction area).

11. Will the city also be providing their own vibration monitoring during driving operations? Has the City perform a condition survey of the nearby areas/structures?

RESPONSE: No, City will not be providing independent monitoring. Contractor is require to provide monitoring per 31 41 17 - 3.01 B. Contractor shall make these records and recordings available to the City. In addition to the Vibration Monitoring, Contractor and City will conduct an initial inspection prior to construction of surrounding areas and document information as mutually agreed upon for this exercise per 02 41 00 - 1.03 D.

12. Please confirm that notwithstanding Page 10 of 340 A. City of Key West Tax License, Page 131 of 340 5.04A and 5.04B J.1, the signor of bonds, insurance contracts, and certificates of insurance, does not have to keep an office in Florida, provided that the insurer or surety complies with all requirements to do business in Florida.

RESPONSE: Based on discussion with the City Legal Department, the signor of bonds, insurance contracts, and certificates of insurance, does not have to keep an office in Florida, provided that the insurer or surety complies with all requirements to do business in Florida.

13. Reference Instructions to Bidders, section 00 21 13, page 4: "Contractor is required to have a Certified or registered Electrical Contractors City of Key West license and a Certified or Registered General Contractors City of Key West Business Tax Receipt", considering the scope of the project, is the Electrical Contractors City of Key West license required?

RESPONSE: Licensing is required as stipulated. There will be electrical work at the Zero Duval location that requires permitting and is to be performed by a Florida licensed electrician registered with the City of Key West.

14. Reference Bid Form, Start of Construction and Contract Completion Times: Please detail start date and duration of time when dock at Duval will be free of boat traffic.

RESPONSE: No boats, ferries, glass bottom tour vessels will be present or utilizing the Zero Duval dock for the duration of construction. The City has negotiated a new location for the vessel away from the construction area. However, ticketing and tour purchases will still be conducted at the relocated ticket booth.

15. Reference sheet DS-100, key note 8: Leader arrow indicates water line on outside face of dock. For proper pricing please indicate size and location of water line.

RESPONSE: As-built information of the existing water main and water system is not available. Pipe is observable upon site walk-through. For the purposes of bidding, the Contractor shall assume all piping for the water system on the dock shall be 1-1-1/2 inch piping. Connection to the closest adjacent main will be required. Final construction of this water system shall be in accordance with the received Building Permit that is the responsibility of the Contractor to obtain as part of the dock replacement portion of this work.

16. Reference sheet DS-100, key note 11: Note calls for excavation and inspection of pipe. There are no details of the condition of pipe or extent of repairs. What is the basis for pricing of pipe repair?

RESPONSE: The clouded area on Sheets DS-100 that is marked with Key Note No. 11 is the limits of the pipe repair portion of this work. Contractor shall assume that the full length and perimeter of the pipe within this area will require repair as defined in Key Note No. 11.

17. Reference sheet DS-301, details 1 and 2; sheet DS-503, detail 4: Details of sheet DS-301 show T.O.C= 3'-4", T.O.SSP= 2'-7". Detail of sheet DS-503 shows T.O.C.= 4'-0", T.O.SSP= 3'-3". Which detail is correct?

RESPONSE: The intent is for the concrete cap to fall below the bottom of the lowest wood member of the rebuilt wood dock. Top of concrete (TOC) is to match existing as noted (Approx. 3-4" is the correct elevation – verify in field). TOS is to be 9" below TOC (therefore 2'-7" is correct). The 4'-0" elevation noted in the survey is the top of timber deck over the existing TOC bulkhead cap. The bottom of cap shall be lowered to Elevation minus 1'-8" to accommodate cap being lowered to Elevation 3'-4". This is subject to change based upon field conditions during construction.

18. Provide high and low tide levels.

RESPONSE: According to LABINS the tides are:

MHW = -0.25 'NAVD 88

MLW = -1.42' NAVD 88

Actual high and low levels may vary daily and Contractor should refer to appropriate tide tables. Use survey on sheet G-003 for NAVD 88 benchmark and elevations comparison.

19. Reference sheet MS-501, detail 2: Elevation call outs detail T.O.C= 6.0, B.O.C= -0.67? Horizontal dimension shown as 16'-0" wide x 28'-0" long. Assuming the elevations are correct, dimension should be 6'-8". Please confirm. Provide high and low tide levels as they relate to elevations shown.

RESPONSE: Refer to G-004 for survey information with respect to the pier. See response to question 18 for tides. Total depth of cap is 6'-8".

20. Reference general requirements, section 03 10 00, 3.05.D: Note dictates that side forms can be removed after 24 hours. Are there additional requirements that would prohibit form removal due to concrete's exposure to salt water?

RESPONSE: Specifications indicate that forms of concrete member that support their own weight (this include pile cap for the dolphin and SSP caps) will not be stripped until the concrete has acquired 75% of its 28-day design strength. Only forms of concrete that do not support its own weight (such as curbs) can be stripped within 24 hours. A curing membrane shall be immediately applied.

21. Will the contractor be given a lay down area for the project? If so, please provide size and location.

RESPONSE: Laydown for Mallory is as defined in Question 4. Laydown for Zero Duval is as defined in Question 10.

22. Will the Dock at end of Duval be re-built on the existing piles?

RESPONSE: Under the base bid, the existing piles are to remain and be reused as part of the dock replacement. This addendum includes an alternate bid item has been added as part of this addendum to replace each of the four piles in their entirety.

23. Can obtained permits be included to the contract via addenda?

RESPONSE: Refer to Part 4 of the Volume 1 Specifications.

24. Can you clarify relocation of the Fury Ticket Booth, as well as Berthing for the Fury Glass Bottom Boat?

RESPONSE: The ticket booth shall be relocated to the location indicated in the drawings. See Sheet DS-100 – Note 5. Contractor is responsible for this relocation. The Fury Boat will be relocated to a remote location and will not interfere with the construction of Zero Duval.

25. Are the original T-Pier drawings available? We are looking for existing pile information.

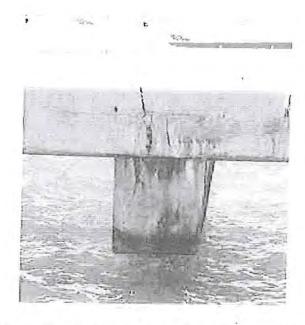
RESPONSE: Original T-Pier as-built construction drawings dated April 12, 1985 are included with this addendum. Considering 30 years have elapsed since construction, existing conditions may vary from those depicted in the drawings.

26. Concerning the crack on the Fascia of the T-Pier. If it is deep, >=8", how is the repair to be handled?

RESPONSE: As part of the base bid, hammer out the loose concrete to sound concrete and repair spall using epoxy grout full depth and width of spall.

26. Concerning the crack on the Fascia of the T-Pier. If it is deep, >=8", how is the repair to be handled?

RESPONSE: As part of the base bid, hammer out the loose concrete to sound concrete and repair spall using epoxy grout full depth and width of spall.



All Bidders shall acknowledge receipt of Addendum No. 1 in the Bid Form. Bids submitted without this acknowledgement will be considered informal.

CH2M

Sean McCoy, P.E.

Appended hereto and part of Addendum No. 1:

Prebid Meeting Minutes and Sign-in Sheet, attached.

Section 00 41 13, Bid Form

T-Pier As-built Drawings dated April 12, 1985

END OF ADDENDUM



ADDENDUM NO. 2
TO THE CONTRACT DOCUMENTS Project No.: 439197
for the construction of the

Date: February 22, 2016

ITB#: 016-002, EN-1002

REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE

CITY OF KEY WEST KEY WEST, FLORIDA

To All Plan holders and/or Prospective Bidders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE dated January 2016 as fully and completely as if the same were fully set forth therein:

ADDENDUM# 1: Addendum #1, issued February 19, 2016 is herewith declared null and void. It is to be replaced in its entirety with this Addendum #2. Addendum #1, issued February 19, 2016, will not be considered a part of the contract documents for this undertaking.

BID OPENING DATE & TIME: Bid opening date and time is hereby changed as follows:

Sealed bids for the City of Key West Invitation to Bid (ITB #16-002) Repairs and Improvements at Zero Duval and Mallory Square, addressed to the City of Key West, will be received at the Office of the City Clerk, City of Key West, 3126 Flagler Avenue., Key West Florida, 33040 until 3:00 p.m., local time, March 2, 2016 and then will be publicly opened and read. Any bids received after the time and date specified will not be considered.

PRE-BID MEETING

- 1. Attached is the meeting minutes from the pre-bid meeting held on February 4, 2016.
- 2. Attached is a copy of the sign-in sheet from the pre-bid meeting.

SPECIFICATIONS

PART 1—PROCUREMENT REQUIREMENTS

SECTION 00 41 13 - BID FORM

REPLACE the existing Section 00 41 13 BID FORM dated January 2016 in its entirety with the attached dated February 18, 2016.

PART 3—SPECIFICATIONS

SECTION 01 29 00 - PAYMENT PROCEDURES

ADD the following Article 1.09 Alternates to existing Specification Section 01 29 00 PAYMENT PROCEUDRES dated January 2016.



1.09 ALTERNATES

- A. Coordinate related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted Alternate is complete and fully integrated into the Project.
- B. Immediately following the Award of the Contract, prepare and distribute to each party involved, notification of the status of each Alternate.
- C. Include as part of each Alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

D. Schedule of Alternates:

- Alternate No. 1 New Timber Piles (Each): This Alternate is an additive Alternate
 which will be added to the Base Bid (if selected). The intent of this Alternate is to
 allow the City to have new piles reconstructed for the Fury Dock to replace the
 existing deteriorating or fractured piles. As part of this Alternate, the price will be the
 represented change in price to:
 - a. Remove old pile from location identified and legally dispose of offsite.
 - b. Provide new 16 inch diameter marine grade pressure treated pile.
 - Install vertical and true to a tip elevation of 15 feet minimum into limerock or -35 feet below water surface whichever is deeper.
 - d. Top of pile shall be at elevation necessary to serve as columns and roof framing supports for the dock roof decking (match existing).

QUESTIONS AND ANSWERS

1. Mallory: Are construction joints allowed on Dolphin structure (i.e. for pre-casting purposes of a portion of the dolphin followed by a final cast-in-place pour, provided proper methodology of construction is provided and approved).

RESPONSE: This proposal is acceptable and will be considered subject to an acceptable plan presented by Contractor.

2. Mallory: What are the construction limits on the water side in front of the Mallory Square Pier (i.e. how big of an area can be occupied by floating equipment).

RESPONSE: Construction limits on the waterside will be limited to the width of the barge along the length of the T-pier. Equipment shall be tied properly, moored and lit according to Coast Guard Standards while berthed along the pier. During construction and while workers are present, barge may be offset off the face of pier and spudded down as necessary to allow construction. Upon completion of work for the day, barge shall be placed adjacent to the pier again and tied as a typical floating vessel. Subject to Navy approval, the Contractor will relocate the barge on weekends to the East Quay pier at the Truman Waterfront.

3. Mallory: can floating equipment stay overnight in front of the Mallory Square Pier (given proper Nav. Lights are provided per USCG requirements).

RESPONSE: Yes, the T-pier can be used for mooring of floating equipment at night providing U.S. Coast Guard lighting is provided and adequate tie-down provisions are made.

4. Mallory: will the entire Pier area be made available to the contractor, including access from the land side? If so, can the pier be use for temporary storage purposes during construction?

RESPONSE: The length of the north-south run of the T-pier will be made available for storage of contractor's materials and equipment provided that it does not exceed 5-feet in height stacked. Weight of materials on the pier shall not exceed a uniform load of 200 PSF. Contractor shall keep loads below this value and shall protect the piers, pavers, and finish from damage by construction use. All other equipment and materials shall be stored on the Contractor's barge and may not be stored upland or in the general area of Mallory Square. Should Contractor require additional space beyond the barge and pier, upland land may be available by the City for a leased rate upon coordination with the City.

5. Zero Duval: What are the construction limits on the water side in front of the Zero Duval bulkhead? Sheet DS-100 seems to be showing the limit to be around 48-50' wide, but how far offshore away from the bulkhead can be occupied by floating equipment. Are we also limited to that 48'-50' width along the bulkhead line?

RESPONSE: The waterside Construction limits for Zero Duval portion of the project shall be limited to the area identified on Sheet G-003 as Submerged Lease Area. This is the dashed lines in the water approximately 50 feet wide by 90 feet long. All facilities adjacent to and surrounding the construction work shall remain open and actively operational during construction including the Jet Ski and boat rental area.

6. Zero Duval: There is a sports-landing (i.e. JetSki's landing) on the left/west side of the bulkhead; will it remain operational or will it also be closed during construction? If it is to remain open, what are the limits/clearance that needs to be maintain in front of the landing (water side) with floating equipment?

RESPONSE: All construction work and equipment shall be kept within the limits of construction waterside as identified in Question No. 5.

7. Zero Duval: Existing Dock on the right/East side of the Zero Duval bulkhead; will it remain operational or will it also be closed during construction? If it is to remain open, what are the limits/clearance that needs to be maintain in front of the docks along the East side of the marina?

RESPONSE: See response to No. 6.

8. Zero Duval: The Timber pile dolphin seems to be almost dead center in front of the Duval bulkhead and may interfere with floating equipment's (i.e. crane barge). Is that timber dolphin to remain? If so, can contractor temporarily remove the dolphin and replace it at the end?

RESPONSE: Timber Dolphins shall remain in place throughout construction and may not be removed and reinstalled. Contractor shall work within the limits provided in Question 5 and shall not interfere with any existing structures other than those required under the Contract to be removed and replaced. Contractor may move their barge to either side of the existing dolphins, as required during construction, so long as they do not block access to the surrounding areas that will remain open and operational during construction. See response to Question No. 6.

- 9. Zero Duval: will contractors be allowed to temporarily block the entrance access to the Marina area (i.e. in order to temporarily remove the timber pile and re-install it). If not, what would be the minimum area that needs to be left open for smaller vessels traffic?
 - RESPONSE: Blockages and impairment to adjacent property owners and businesses shall be coordinated in detail with the City well in advance of the blockage. Contractor will be limited to the area identified in Question 5 unless mutually agreed upon during construction without impeding operations and business activities of adjacent facilities.
- 10. Zero Duval: Can the perimeter fence (jersey barrier/fence) be extended another 14' back (i.e. up to the first light pole that will be directly in front of the "Ticket Building" once temporarily relocated), making the Jersey barrier go not only along the back of the ticket building but also around the left side (still keeping the ticket building outside the construction area). Current space does not appear to be enough area in order to properly and safely perform the necessary works.
 - RESPONSE: Temporary Jersey barrier and fence on the south side of the laydown area may be moved to align with the south face of the relocated ticket shack. Area may not be made larger than this. This puts the temporary fence along the back of the ticket building but also around the left side and parallel with the south face of the relocated booth (still keeping the ticket building outside the construction area).
- 11. Will the city also be providing their own vibration monitoring during driving operations? Has the City perform a condition survey of the nearby areas/structures?
 - RESPONSE: No, City will not be providing independent monitoring. Contractor is require to provide monitoring per $31\,41\,17-3.01\,B$. Contractor shall make these records and recordings available to the City. In addition to the Vibration Monitoring, Contractor and City will conduct an initial inspection prior to construction of surrounding areas and document information as mutually agreed upon for this exercise per $02\,41\,00-1.03\,D$.
- 12. Please confirm that notwithstanding Page 10 of 340 A. City of Key West Tax License, Page 131 of 340 5.04A and 5.04B J.1, the signor of bonds, insurance contracts, and certificates of insurance, does not have to keep an office in Florida, provided that the insurer or surety complies with all requirements to do business in Florida.
 - RESPONSE: Based on discussion with the City Legal Department, the signor of bonds, insurance contracts, and certificates of insurance, does not have to keep an office in Florida, provided that the insurer or surety complies with all requirements to do business in Florida.
- 13. Reference Instructions to Bidders, section 00 21 13, page 4: "Contractor is required to have a Certified or registered Electrical Contractors City of Key West license and a Certified or Registered General Contractors City of Key West Business Tax Receipt", considering the scope of the project, is the Electrical Contractors City of Key West license required?
 - RESPONSE: Licensing is required as stipulated. There will be electrical work at the Zero Duval location that requires permitting and is to be performed by a Florida licensed electrician registered with the City of Key West.
- 14. Reference Bid Form, Start of Construction and Contract Completion Times: Please detail start date and duration of time when dock at Duval will be free of boat traffic.

RESPONSE: No boats, ferries, glass bottom tour vessels will be present or utilizing the Zero Duval dock for the duration of construction. The City has negotiated a new location for the vessel away from the construction area. However, ticketing and tour purchases will still be conducted at the relocated ticket booth.

15. Reference sheet DS-100, key note 8: Leader arrow indicates water line on outside face of dock. For proper pricing please indicate size and location of water line.

RESPONSE: As-built information of the existing water main and water system is not available. Pipe is observable upon site walk-through. For the purposes of bidding, the Contractor shall assume all piping for the water system on the dock shall be 1 - 1 - 1/2 inch piping. Connection to the closest adjacent main will be required. Final construction of this water system shall be in accordance with the received Building Permit that is the responsibility of the Contractor to obtain as part of the dock replacement portion of this work.

16. Reference sheet DS-100, key note 11: Note calls for excavation and inspection of pipe. There are no details of the condition of pipe or extent of repairs. What is the basis for pricing of pipe repair?

RESPONSE: The clouded area on Sheets DS-100 that is marked with Key Note No. 11 is the limits of the pipe repair portion of this work. Contractor shall assume that the full length and perimeter of the pipe within this area will require repair as defined in Key Note No. 11.

17. Reference sheet DS-301, details 1 and 2; sheet DS-503, detail 4: Details of sheet DS-301 show T.O.C= 3'-4", T.O.SSP= 2'-7". Detail of sheet DS-503 shows T.O.C.= 4'-0", T.O.SSP= 3'-3". Which detail is correct?

RESPONSE: The intent is for the concrete cap to fall below the bottom of the lowest wood member of the rebuilt wood dock. Top of concrete (TOC) is to match existing as noted (Approx. 3-4" is the correct elevation – verify in field). TOS is to be 9" below TOC (therefore 2'-7" is correct). The 4'-0" elevation noted in the survey is the top of timber deck over the existing TOC bulkhead cap. The bottom of cap shall be lowered to Elevation minus 1'-8" to accommodate cap being lowered to Elevation 3'-4". This is subject to change based upon field conditions during construction.

18. Provide high and low tide levels.

RESPONSE: According to LABINS the tides are:

MHW = -0.25 ' NAVD 88

MLW = -1.42' NAVD 88

Actual high and low levels may vary daily and Contractor should refer to appropriate tide tables. Use survey on sheet G-003 for NAVD 88 benchmark and elevations comparison.

19. Reference sheet MS-501, detail 2: Elevation call outs detail T.O.C= 6.0, B.O.C= -0.67? Horizontal dimension shown as 16'-0" wide x 28'-0" long. Assuming the elevations are correct, dimension should be 6'-8". Please confirm. Provide high and low tide levels as they relate to elevations shown.

RESPONSE: Refer to G-004 for survey information with respect to the pier. See response to question 18 for tides. Total depth of cap is 6'-8".

20. Reference general requirements, section 03 10 00, 3.05.D: Note dictates that side forms can be removed after 24 hours. Are there additional requirements that would prohibit form removal due to concrete's exposure to salt water?

RESPONSE: Specifications indicate that forms of concrete member that support their own weight (this include pile cap for the dolphin and SSP caps) will not be stripped until the concrete has acquired 75% of its 28-day design strength. Only forms of concrete that do not support its own weight (such as curbs) can be stripped within 24 hours. A curing membrane shall be immediately applied.

21. Will the contractor be given a lay down area for the project? If so, please provide size and location.

RESPONSE: Laydown for Mallory is as defined in Question 4. Laydown for Zero Duval is as defined in Question 10.

22. Will the Dock at end of Duval be re-built on the existing piles?

RESPONSE: Under the base bid, the existing piles are to remain and be reused as part of the dock replacement. This addendum includes an alternate bid item has been added as part of this addendum to replace each of the four piles in their entirety.

23. Can obtained permits be included to the contract via addenda?

RESPONSE: Refer to Part 4 of the Volume 1 Specifications.

24. Can you clarify relocation of the Fury Ticket Booth, as well as Berthing for the Fury Glass Bottom Boat?

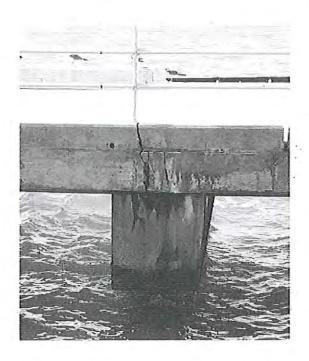
RESPONSE: The ticket booth shall be relocated to the location indicated in the drawings. See Sheet DS-100 – Note 5. Contractor is responsible for this relocation. The Fury Boat will be relocated to a remote location and will not interfere with the construction of Zero Duval.

25. Are the original T-Pier drawings available? We are looking for existing pile information.

RESPONSE: Original T-Pier as-built construction drawings dated April 12, 1985 are included with this addendum. Considering 30 years have elapsed since construction, existing conditions may vary from those depicted in the drawings.

26. Concerning the crack on the Fascia of the T-Pier. If it is deep, >=8", how is the repair to be handled?

RESPONSE: As part of the base bid, hammer out the loose concrete to sound concrete and repair spall using epoxy grout full depth and width of spall.



All Bidders shall acknowledge receipt of Addendum No. 2 in the Bid Form. Bids submitted without this acknowledgement will be considered informal.

Appended hereto and part of Addendum No. 2: Prebid Meeting Minutes and Sign-in Sheet, attached. Section 00 41 13, Bid Form T-Pier As-built Drawings dated April 12, 1985

END OF ADDENDUM #2

Exhibit "B"

City of Key West Tax Receipt

CITY OF KEY WEST, FLORIDA Business Tax Receipt

This Document is a business tax receipt Holder must meet all City zoning and use provisions. P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name

SHORELINE FOUNDATION

CtlNbr:0004137

Location Addr

2781 SW 56TH AVE

Lic NBR/Class

16-00004139 CONTRACTOR - REG ENGINEERING II

Issue Date:

July 24, 2015 Expiration Date: September 30, 2016

License Fee

\$325.00

Add. Charges

\$0.00

Penalty

\$0.00

Total Comments: \$325.00

Uper: KEYWELD Type: OC Drawer: 1 Date: 7/27/15 54 Keceipt no: 38246

LIC OCCUPATIONAL KENEWAL

This document must be prominently displayed.

3858477

SHORELINE FOUNDATION 3898

SHORELINE FOUNDATION 2781 SW 56TH AVE

Trans date: 7/27/15

MIRAMAR FL 33023



CITY OF KEY WEST, FLORIDA

Regulatory Permit / License **Certificate of Competency**

P.O. Box 1409, Key West, FL 33041

Business Name

ROYO JAMES

Ct1Nbr:0024493

Location Addr

2781 SW 56TH AVE

Lic NBR/Class

17-00030164 COMPETENCY CARD

Issue Date:

July 13, 2015 Expiration Date: September 30, 2017

License Fee

\$30.00

Add. Charges

\$0.00

Penalty

\$0.00

Oper: KEYUGLD Make: 7/13/15 51 30164 Type: OC Drawer: 1 Receipt no: 28304

Total

\$30.00

Comments: COMP CARD #763 FOR ENGINEERING I CONTRACTOR IC OCCUPATIONAL RENEWAL

\$38.00

ROYO JAMES

2781 SW 56TH AVE

Trans date: 7/13/15

Time: 15:12:29

MIRAMAR FL 33023

Exhibit "C"

Licenses



STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD 1940 NORTH MONROE STREET TALLAHASSEE FL 32399-0783

(850) 487-1395

ROYO, JAMES ANTHONY SHORELINE FOUNDATION INC 1316 NW 127 DRIVE SUNRISE FL 33323

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC1517337

ISSUED: 06/04/2014

CERTIFIED GENERAL CONTRACTOR ROYO, JAMES ANTHONY SHORELINE FOUNDATION INC

IS CERTIFIED under the provisions of Ch.489 FS. Expration date: AUG 31, 2016 L1406040001725

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

CGC1517337

The GENERAL CONTRACTOR Named below IS CERTIFIED Under the provisions of Chapter 489 FS. Expiration date: AUG 31, 2016



ROYO, JAMES ANTHONY SHORELINE FOUNDATION INC 2781 SW 56 AVENUE PEMBROKE PARK FL 33023





To find out about business and economic opportunities for Florida veteran business enterprises, as well as Florida's small minority and women-owned businesses, please contact or visit the Department of Management Service's Office of Supplier Diversity at: http://www.dins.nvflorida.com/other_programs/office_of_supplier_diversity_osd

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To find out about State of Florida tools supporting statewide centralized procurement activities which have streamlined interactions between vendors and state government entities, please contact or visit the Department of Management Services' MyFloridaMarketPlace at: https://vendor.myfloridamarketplace.com

AC# 465100

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The Department of Business and Professional Regulation (DBPR), issues licenses for many licensed businesses and practitioners in the State of Florida.

DBPR is changing the way you interact with state government. Many of DBPR's services are available online at www.MyFloridaLicense.com. We encourage you to utilize these services to make address changes, licensing changes or to renew your license.

Name changes require legal documentation verifying the name change, which must be mailed to the DBPR. An original, a certified copy of a document that shows the legal name change will be accepted, unless the DBPR has a question about the authenticity of the document.

If applicable, the DBPR will send a renewal notice to your last known address or email address of record. If you have not received your renewal notice, please call our Customer Contact Center at 850.487.1395 or online at www.MyFloridaLicense.com/contactus.

Please refer to your profession's governing statutes and Administrative codes for further information regarding renewals. These may be accessed from our website.

AC# 465100

State of Florida Department of State

I certify from the records of this office that SHORELINE FOUNDATION, INC. is a corporation organized under the laws of the State of Florida, filed on June 2, 1986.

The document number of this corporation is J17125.

I further certify that said corporation has paid all fees due this office through December 31, 2016, that its most recent annual report/uniform business report was filed on January 5, 2016, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2016



Ken Define Secretary of State

Tracking Number: CC9590903266

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

Exhibit "D"

Past Experiences & Contracts on Hand



Project: Slip#3 Bulkhead Rehabilitation

Location:

1 East 11 Street Riviera Beach, Florida 33404

Owners Representative:

AECOM Technical Services, Inc. Karen D. Brandon, P.E. 2090 Palm Beach Lakes Blvd. West Palm Beach, FL 33409 (561) 684-3375 Fax: (561) 689-8531 karen.brandon@aecom.com

Construction Dates:

START: June 3, 2013 FINISH: July 10, 2015

Construction cost:

\$16,500,000

Change Orders:

Yes + 24 Added \$1,100,000 Deducted \$1,000,000 (Totaling \$16,600,000)

Project Status:

Ongoing Completion Date: July 10, 2015

SFI Project Manager:

Carlos Varela P.E.

SFI Project Superintendent:

Sal Daher, Steve Thomsen, Danny Fennel Darrin Miller

Relevance/Scope of Work:

Construction of 1800 Lf of combo wall with Soil anchors and 10 high concrete cap, 800 LF of which were upland of existing. Dredging 18000 CY from the Slip# 3 to -35 mllw Pave with an asphalt +/-1400 SY. Pave with 18 concrete slabs appx. 7000 SY construct new water distribution system, drainage system (1200 LF of trench drain), 1000





Slip No. 3 Bulkhead Rehabilitation





SFI

Slip No. 3 Bulkhead Rehabilitation





SFI

Slip No. 3 Bulkhead Rehabilitation



kva electric power distribution system, install new beam and rails for 110ton gantry conveyor and move it from existing to new tracks. All while keeping the south berth operational build 2 ro-ro ramps (80 & 160) with concrete cap projecting 3 foot from the bulkhead.



Project: Cargo Dock 16, Brownville

Location:

13201 R.L. Ostos Rd Brownsville, TX 78521

Owners Representative:

Ariel Chavez
Brownsville Navigation District
1000 Foust Road
Brownsville, TX 78521
(956) 592-3973
Fax: 956.831.6153
achavez@portofbrownsville.com

Construction Dates:

START: 09/16/2013 FINISH: 06/31/2015

Construction cost: \$21,255,965.00

Change Orders: Yes + \$331,734.00

Project Status: Finishing up

SFI Project Manager: Kevin Land

SFI Project Superintendent: Fred Maxwell

Relevance/Scope of Work:

The engineer of record was HDR Engineering.

The project consisted of a new 600 LF commercial heavy lift cargo dock with two out parcel mooring structures sitting on 35"x95' steel pipe piling set on batter, Approximately 200 LF of bank revetment work, 9 acres working bulk storage area with site lighting, a new field house containing restroom, new perimeter roadway with entrance. The project included 155,000 CY of dredging to a deep of -44. Added as a change order by the owner was an Impressed Current Cathodic Protection System for protection of the seawall steel sheet piling.

The project included over 9000 CY of post tension concrete for the dock which included 800 LF of sheet pile from 65' to 95' long, 950 16"x 85 ft. long concrete piles and 1000 16"x 85' long steel "H" piles.







Project: Pier 66 Marina Redevelopment Phase I & II

Location:

2301 SE 17th Street Ft. Lauderdale, FL 33316

Owners Representative:

Mr. Shwan Aziz
ECO BUILDING SOLUTIONS, INC. (EBS)
PO Box 811827
Boca Raton, FL 33481-1827
(561) 927-7641
Fax: (727) 942-8937
shwan@ecobuilinginc.com

Construction Dates:

START: 07/29/13 FINISH: 10/09/14

Construction cost:

Phase I: \$2,599,000.00 Phase II: \$4,593,947.00 Total: \$7,192,947.00

Change Orders:

Yes + \$1,472,592.00 (Totaling \$8,665,539.00)

Project Status:

Completed

SFI Project Manager:

Mark Osburn

SFI Project Superintendant:

Darrin Miller

Relevance/Scope of Work:

Engineer of record was Coastal Systems International, Inc. Construction included

Phase I: SEAWALL

Demolition of 1,500lf of existing concrete seawall cap. Installation of 1,500lf of new steel sheet piling, 150pcs – 14" x 14" x 50' concrete batter pile, 1,500' x 5'wide x 2'deep concrete cap, 75pcs – 12" x 40' wood fender pile 75pcs

- 18" mooring cleats, 1,500lf x 5'wide x 7"thick concrete sidewalk.

Phase II: SEAWALL & 127 SLIP MARINA (FIXED CONCRETE & FLOATING DOCKAGE)







SEAWALL: Demolition of 1,000lf of existing concrete seawall cap, Installation of 1,000lf of new steel sheet piling, 100pcs - 18" and 14" concrete batter pile along seawall, 1,000' x 5'wide x 2'deep concrete seawall cap, 1,000lf x 5'wide x 7"thick concrete sidewalk FIXED DOCKAGE/MARINA SPACE: Marina can accommodate 16 super yachts up to 150 feet, and has the deep-water capacity to accept yachts in excess of 300 feet. Demolition and reconstruction of Approximately 19,000sf of fixed concrete docks & concrete finger piers; constructed on 18" and 14" square concrete pile, cast-in-place concrete pile caps and pre-cast/pre-fabricated concrete deck slabs (ranging from 9" to 12" in depth). The deep water - main dock, along the Intracoastal waterway (A dock & Dockmaster) received an Approximately 16,000sf concrete topping slab ranging in depth of 4" to 7", Approximately 230 – 12" wood fender & mooring piles were installed throughout the marina, Installation of 165 heavy duty; 18" & 24" mooring cleats.



FLOATING DOCKAGE: Approx. 36 slip concrete floating dock facility; with Electrical, Plumbing, Fire & Fuel and anchored with 18" x 18" x 60' pre-cast concrete piling.



Project: FPL Discharge Canal

Location: 3898 SW 43rd Court, Fort Lauderdale, FL 33318

Owners Representative:

William Figler 700 Universe Blvd Juno Beach, FL 33408 (561) 694-4749 William.Figler@fpl.com

Construction Dates:

Phase I:

Start: 9/23/13 Finish: 12/30/13

Phase II: Start: 6/1/14

Finish: 8/12/14 (Project Complete)

Construction cost:

Phase I:

Original Phase I Contract = \$1,588,846.00 Revised Contract Value (+ Phase I COR) = \$1,595,553.17

Phase II:

Original Phase II Contract = \$598,500.00 Revised Contract Value = \$2,194,053.17

Final Contract Value (+Phase II COR)

= \$2,194,053.17

Change Orders:

Yes + Phase I = \$6,707.17Total COR = \$6,707.17

Project Status:

Completed

SFI Project Manager:

Charles M. Diveto III

SFI Project Superintendent:

Phase I = Michael Bosowicz

Phase II = Matt Biggs

Relevance/Scope of Work:

Engineer on record was DCR Engineering Services, Inc. The project consisted of a new seawall further described as the following: installation of approximately 900 lf of Steel sheet piling seawall topped with a 3'-0" wide poured-in place concrete cap. Upland work includes concrete pad for propane tanks, removal and replacement of guardrail, and new pedestrian railing.







Project: Building 1000 Quay Wall and Barge Basin

Location:

Philadelphia Navy Yard Philadelphia, PA

Owners Representative:

Elizabeth Staab
United States of America - NAVFAC
4921 South Broad Street
Philadelphia, PA 19112-1387
(215) 897-2613
Fax: (210) 897-6932
Elizabeth.staab@navy.mil

Construction Dates:

START: 3/7/2011

FINISH: Estimated 3/15/13

Construction cost:

\$3,746,167.61

Change Orders:

\$1,494,759.27 (Totaling \$5,070,292.27)

Project Status:

Completed

SFI Project Manager:

Chris Gonzalez

SFI Project Superintendant:

Fred Maxwell

Relevance/Scope of Work:

Demolition and re-construction of new Quay wall and Barge Basin Rehabilitation, including installation of steel sheet pile, topped with castin-place concrete cap and closure cell structure. The existing drain outfalls were modified to be incorporated into the new seawall. The Quaywall was finished with crushed concrete armor stone sloped into the water body. The Barge basin required demolition of the existing structure, and reconstruction of new barge basin around the existing foundation pads for the overhead crane. Barge basin was reconstructed with pre-cast, steel batter H-piles, and steel





sheet pile. The pile was topped with cast-in-place concrete caps, precast slabs, and concrete topping. The basin was finished with precast fender piles with UHMW bumpers and metal cleats.



Project: CT-10 Pier Extension & East Dolphin Modifications

Location:

Port Canaveral 445 Challenger Road Cape Canaveral, FL 32920

Owners Representative:

Randy Gumke – Director Construction CANAVERAL PORT AUTHORITY 445 Challenger Road Cape Canaveral, FL 32920 (321) 783-7831 ext. 216 Fax: (321) 783-1063 rgumke@portcanaveral.org

Engineer of Record:

River Consulting LLC 707 Mullet Road, Suite 105 Cape Canaveral, FL 32920

Construction Dates:

START: 11/4/2008 FINISH: 4/3/2009

Construction cost:

Original - \$1,538,035.00 Final - \$820,562.58

Change Orders:

1 – Owner direct purchase

Project Status:

Completed

SFI Project Manager:

Matt Sturm

SFI Project Superintendant:

Fred Maxwell

Relevance/Scope of Work:





Modifications to the busy existing port facility included a new dolphin mooring platform and extension of the existing pier. The mooring platform required 66" diameter steel piles 107' long to be installed along with 950 square feet of reinforced cast-in-place concrete, new 125 ton bollards and modifications to existing catwalks.

The 90 foot pier extension consisted of installation of (12) 24" square pre-cast, pre-stressed concrete pile 100' long, cast-in-place concrete pile caps, 3,600 square feet of pre-stressed concrete slabs, requisite closure pours and installation of new foam filled mooring fenders and bollards.

This project was completed on-time and under budget. Limited work hours and cruise ship schedules required exacting coordination with Port facilities management.



WORK IN PROGRESS

Contract Description	Owner/Owner's Representative	Architect/Engineer	Contract Amount	Scheduled Completion Date	
King's Bay Naval Submarine Base 1063 USS Tennessee Avenue Kings Bay Base, GA	NAVFAC Southeast 910 USS Hunley Avenue Kings Bay, GA 31547	ADA Engineering, Inc. 8550 NW 33rd Street Suite 101 Doral, FL 33122	\$8,100,000.00		
Biscayne Beach Club Scawall 711 NE 29th Street Miami, FL 33137	Plaza Construction Group FL, LLC 120 NE 27th Street Suite 600 Miami, FL	Coastal Systems International, Inc. 464 South Dixie Highway Coral Gables, FL 33146	\$775,000.00	Jan-16	
Orkin Miami Seawall 1960 NW 27th Avenue Miami, FL	Orkin, LLC 2170 Piedmont Road NE Lakeshore Building Atlanta, GA 30324	Geosyntec Consultants 900 Broken Sound Parkway Suite 200 Boca Raton, FL 33487	\$1,094,735.00	Nov-16	
Herbert Hoover S281 & S282 Glades County, FL	Department of Army, USACE 12783 W. Forest Hill Blvd Suite 9E Wellington, FL 33414	US Army Corp of Engineers Jacksonville District, FL	\$892,300.00	May-16	
Herbert Hoover S273 & S227 Glades County, FL	Department of Army, USACE 12783 W. Forest Hill Blvd Suite 9E Wellington, FL 33414	US Army Corp of Engineers Jacksonville District, FL	\$1,515,065.00	May-16	
Gator Lake Shoreline Stabilization Saint Andrews State Park 4607 State Park Lane Panama City, FL 32408	State of FL DEP 3900 Commonewelth Boulevard, MS #520 Tallahassee, FL 32399	MRD Associates, Inc. 543 Harbor Boulevard, Suite 204 Destin, FL 32541	\$1,904,900.00	Oct-16	
CR880 - Twenty Mile Bend Slope Palm Beach County, FL Board of County Commissioners Beach County, FL		Bridge Design Associates, Inc 1402 Royal Palm Blvd, Bldg 200 Royal Palm Beach, FL 33411	\$4,064,012.00	Oct-15	



WORK IN PROGRESS

Contract Description	Owner/Owner's Representative	Representative Architect/Engineer		Scheduled Completion Date	
Larchmont Gardens NW 85th Street & NW 2nd Ave Miami, FL Miami-Dade County Public Works and Waste Management Dept. Gables, FL 33158		Central Florida Equipment 9030 N.W. 97th Terrace Medley, FL 33178	\$254,159.00	Dec-15	
Bair Island Seawall Villas at Bair Island 700 Bair Island Road, Redwood City, CA 94063	The Irvine Company Apartment Communities, Inc. 131 Theroy, Irvine, CA 92617	URS 310 Golden Shore, Suite 100 Long Beach, CA 90802	\$3,420,900.00	Sep-16	
USCG Miami Beach Bulkhead Miami, FL	Miami United States Coast Guard 15608 SW 117th Avenue Miami, FL 33122	Harper & Buzinec 8805 NW 23rd Street Miami, FL 33122	\$1,851,300.00	Sep-16	
Seven Mile Bridge and Bahia Honds Bridge Debris Removal on the Florida Keys Overseas Heritage Trail Monroe County, FL	State of FL DEP 3900 Commonewelth Boulevard, MS #520 Tallahassee, FL 32399	The LPA Group 1320 Executive Blvd. Tallahasse, FL 32301	\$379,634.00	Jan-16	
Broadview Estates Neighborhood Project Pompano Beach, FL Broward County Water and Wastewater Engineering Division 2555 West Copans Road, Pompano Beach, FL 33069		Broward County Water and Wastewater Engineering Division 2555 West Copans Road, Pompano Beach, FL 33069	\$2,644,912.00	Jan-17	
Mooring Bollards Phase II Miami, FL PortMiami 1015 N. America Way Miami, FL 33132		Miami-Dade Seaport Department 1015 N. America Way Miami, FL 33132	\$1,214,200.00	Jul-16	
Continuing Svcs for Construction of Seawalls Citywide Miami,FL City of Miami Beach 1755 Meridian Drive Miami Beach, FL 33139		Miami Beach Public Works Department 1700 Convention Center Drive Miami Beach, FL 33139	\$4,277,035.00	Feb-17	

Exhibit "D"

Proof of Insurnace

Exhibit "E"

Proof of Insurnace

SHOREFOU

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CERTIFICATE OF LIABILITY INSURANCE

10/01/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES FLOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED EPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

COVERAGES CERTIFICATE NUMBER:		REVISION NUMBER:		
		INSURER F:		
Pembroke Park, FL 33023-4166	Park, FL 33023-4166	INSURER D : American Family Home Ins Co	23450	
Shoreline Foundation Inc 2781 SW 56 Ave		INSURER C : Starr Indemnity & Liability Co	38318	
		INSURER B: Commerce & Industry Ins Co	19410	
USI Insurance Services, LLC/CL P.O. Box 141916 Coral Gables, FL 33114-1916 305 669-6000		INSURER A: XL Specialty Insurance Company	37885	
		INSURER(S) AFFORDING COVERAGE	- HAIC #	
		ADDRESS: USICERTS@USI.biz		
		PHONE (AC, No, Ext): 305 669-6000 (AC, No):		
PRODUCER		CONTACY NAME:		
CONTINUATO NOIGON IN INC	u of such endorsement(s).			

YSR TH	TYPE OF INSURANCE	ADDL SUBR		BEEN REDUCED BY PAID CLAI POUCY EFF POUCY EXP	имп	s
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	CLAIMS MADE X OCCUR	1 1			DAMAGE TO RENTED PREMISES (Ea occurrence)	\$50,000
		1 1			MED EXP (Any one person)	\$5,000
					PERSONAL & ADV INJURY	\$1,000,000
	GENL AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	s2,000,000
L	POLICY X PRO-				PRODUCTS - COMP/OP AGG	s2,000,000
	AUTOMOBILE LIABILITY		2LA2CA000045 10/01/2015 10/01/	10/01/2015 10/01/2016	COMBINED SINGLE LIMIT (Ea accidont)	\$ \$1,000,000
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	(Mandatory In NH)				E.L. DISEASE - EA EMPLOYEE	s1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below				E.L. DISEASE - POLICY LIMIT	\$1,000,000
C CONTR EQUIPMENT ALL RISK INCLUDES			SICON000703149	03/12/2015 03/12/2016	03/12/2015 03/12/2016 PER SCHEDULE ON FIL	
				LEASED/RENTED\$1	,000,000	
	BOOM COLLAPSE		OVERLOAD			

CERTIFICATE HOLDER	CANCELLATION
Shoreline Foundation Inc 2781 SW 56 Ave Pembroke Park, FL 33023-4166	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
- Combrone vana, va 33320 4133	AUTHORIZEO REPRESENTATIVE
	Bur 9. Bala