



ADDENDUM TO THE CONTRACT

for the

Port of Juneau Cruise Ship Berths
Contract No. DH12-001

ADDENDUM NO.: THREE

CURRENT DEADLINE FOR BIDS:
November 12, 2013

PREVIOUS ADDENDA: TWO

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: October 23, 2013

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at:

<http://www.juneau.org/engineering ftp/contracts/Contracts.php>

INFORMATIONAL ITEM:

Pile Driving Records from 1991 era construction of the existing cruise ship dock facilities have been posted on the website referenced above.

PROJECT MANUAL:

Item No. 1 SECTION 00310 – BID SCHEDULE, **Delete in its entirety and replace** with the attached SECTION 00310 – BID SCHEDULE, labeled Addendum No. 3.

Item No. 2 SECTION 00800 – SUPPLEMENTARY GENERAL CONDITIONS, **Add** the following:

SGC 5.2 INSURANCE: **Add** the following under Paragraph C:

6. Professional Liability Insurance: The Pontoon Designer must maintain Professional Liability Insurance in an amount not less than two million dollars (\$2,000,000.00) each occurrence and two million dollars (\$2,000,000) aggregate, to protect the Pontoon Designer from any claims or damages for any error, omission, or negligent act of the Pontoon Designer, the Pontoon Designer's firm and employees. This requirement applies to the Pontoon Designer's firm, the Pontoon Designer's subcontractors and assignees, if any.

Item No. 3 SECTION 01025 – MEASUREMENT AND PAYMENT:

2.25 SPIN FIN PILE TIP..., **Delete** Paragraph A in its entirety and **replace** it with the following:

A. Measurement for Payment for Spin Fin Pile Tip, [] Dia. Pile shall be measured per each, complete in place, including the steel spin fin plates welded to steel pipe piles, all in accordance with the requirements of the Contract Documents. Pipe piles and cutting shoes are not included in the measurement for payment for this Pay Item.

2.29 PILE SPLICE..., **Add** the following to the end of Paragraph A:

Measurement shall include the installation of the additional pile length spliced onto a pile up to a maximum of 40 feet. Further pile splices shall be compensated on a unit price basis for subsequent pile lengths and installations required over the initial 40 feet. Pile lengths shall be obtained from surplus pile cutoff materials and shall not be measured directly for payment under this item however shall be included under other Pay Items.

2.42 INSTALL ANODE – ALL TYPES..., **Delete** this Article in its entirety and **replace** it with the following:

INSTALL ANODE – ALL TYPES, [] (Pay Item Nos. 2996.4 and 2996.5) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for Install Anode – All Types, [] shall be measured per each, complete in place, all in accordance with the requirements of the Contract Documents.

B. Payment for Install Anode – All Types, at or Above Elev. -50' MLLW shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2996.4, which payment shall constitute full payment for all WORK described in Section 02996 – Pile Anodes, as shown on the Plans, and as directed by the ENGINEER.

C. Payment for Install Anode – All Types, Below Elev. -50' MLLW shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2996.5, which payment shall constitute full payment for all WORK described in Section 02996 – Pile Anodes, as shown on the Plans, and as directed by the ENGINEER.

Add the following:

2.43 ANODES CONTINUITY TESTING AND POTENTIAL READINGS (Pay Item No. 2996.6) PRICE BASED ON LUMP SUM

A. Measurement for payment for Anodes Continuity Testing and Potential Readings shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including test readings and corresponding photographs, documentation and report, all in accordance with the requirements of the Contract Documents.

B. Payment for Anodes Continuity Testing and Potential Readings shall be made at the amount shown on the Bid Schedule under Pay Item No. 2996.6, which payment shall constitute full compensation for all WORK described in Section 2996 – Pile Anodes, as shown on the Plans, and as directed by the ENGINEER.

Item No. 4 SECTION 01570 – EROSION CONTROL, **Add** the following to the end of Article 3.1.A: Information regarding this process may be found at the following ADEC website: <http://dec.alaska.gov/water/wnpspc/stormwater/index.htm>

Item No. 5 SECTION 02401 – WASTEWATER SERVICE DISCHARGE SYSTEM, **Delete** Article 2.3 in its entirety and **replace** it with the following:

2.3 FLEXIBLE HOSE AND FITTINGS

- A. Flexible hose and fittings shall meet the same pressure and integrity standards as the rigid pipe and shall be manufactured to endure conditions involved with its intended use.
- B. Hose materials are known to have extraordinary lead times, coordinate as required.
- C. Flexible wastewater hose shall be *Good Year Flexdock 225* with nitrile tube or approved equal.
- D. Hoses shall be equipped with 316 SS built in nipples and 316 SS fixed or floating flanged connections compatible with designated pipe flanges as shown in the plans and as specified herein.
 - 1. Fixed flange fittings for hose assemblies shall be 150 lb. and shall be constructed entirely of 316 SS. All welds shall be completed with 316 SS rod.
 - 2. Floating flange assemblies shall be 150 lb. and constructed entirely of 316 SS. No more than one floating flange assembly shall be allowed per hose.
 - 3. Threaded on flange assemblies shall not be permitted.
 - 4. All flange connection hardware shall be 316 SS.
 - 5. Flange gasket material shall be NSF-61 listed or FDA compliant and shall be of a material recommended for use in a saltwater environment as stated by the manufacturer.
- E. Hose construction, fittings installation and hose assembly installation shall be completed per manufacturer's recommendations to meet pressure and integrity standards as specified herein.
- F. Hose Supports shall be provided where shown in the Plans and in accordance with the provisions of Section 02601-Water System.

Item No. 6 SECTION 02601 – WATER SYSTEM, **Delete** Article 2.8 in its entirety and **replace** it with the following:

2.8 FLEXIBLE HOSE AND FITTINGS

- A. Flexible hose and fittings shall meet the same pressure and integrity standards as the rigid pipe and shall be manufactured to endure conditions involved with its intended use.
- B. Hose materials are known to have extraordinary lead times, coordinate as required.

- C. 6-inch flexible water hose shall be *Good Year Smooth Bore Dock 200* equipped with an FDA compliant white chlorobutyl tube or approved equal.
 - 1. 6-inch hoses shall be equipped with 316 SS built in nipples and 316 SS fixed or floating flanged connections compatible with designated pipe flanges as shown in the plans and as specified herein.
 - a. Fixed flange fittings for hose assemblies shall be 150 lb. and shall be constructed entirely of 316 SS. All welds shall be completed with 316 SS rod.
 - b. Floating flange and turnback assemblies shall be 150 lb. and constructed entirely of 316 SS. No more than one floating flange assembly shall be allowed per hose.
 - c. Threaded on flange assemblies shall not be permitted.
 - d. All flange connection hardware shall be 316 SS.
- D. 2-inch and 1-inch flexible water hoses shall be *Good Year Vintner* equipped with an FDA compliant white chlorobutyl tube or approved equal.
 - 1. 2-inch and 1-inch water hose shall be equipped with an external crimp or built in end fitting system constructed entirely of 316 SS. External crimp system shall be:
 - a. *PT Coupling Pro Grip C50* External Crimp System with *PT C50HD Heavy Duty Ferrules* or:
 - b. *Campbell Fittings Crimpnology Nipples* with *Crimpology Ferrules* or:
 - c. Approved equal system provided in 316 SS.
 - 2. Connections shall be threaded or flanged as designated in the Plans.
 - 3. Flanges shall be welded on 316 SS 150 lb. flanges compatible with the designated pipe flanges as shown in the Plans. All flange weld material and connection hardware shall be 316 SS.
 - a. Threaded on flanges shall not be permitted.
 - 4. Nipples, ferrules, and all other associated steel hardware shall be constructed entirely of 316 SS.
- E. Flange gasket material shall be NSF-61 listed or FDA compliant and shall be of a material recommended for use in a saltwater environment as stated by the manufacturer.
- F. Hose construction, fittings installation and hose assembly installation shall be completed per manufacturer's recommendations to meet pressure and integrity standards as specified herein.
- G. Hose supports shall be *HoseBun* or approved equal.
 - 1. Hose supports shall be attached to a nearby structure per ENGINEER direction. CONTRACTOR shall supply nylon rigging straps in the lengths required to support hoses at the locations shown in the drawings and per ENGINEER direction. Straps shall have a tensile strength of 4,000 pounds minimum.

2. CONTRACTOR shall take measures to ensure that straps remain fixed and supportive and are not subject to chaffing. Butyl rubber chaff guard material shall be installed as required per ENGINEER direction.
3. In addition to the hose supports indicated in the drawings the CONTRACTOR shall provide two additional hose supports with strapping for each of the (3) hose sizes; 4-inch, 6-inch, and 8-inch.
 - a. Additional hose supports shall be installed by the CONTRACTOR at locations deemed necessary by the ENGINEER.
 - b. Hose supports not required to be installed shall be provided to the OWNER.

Item No. 7 SECTION 02611 – DRY FIRE SUPPRESSION SYSTEM, **Delete** Article 2.2 in its entirety and **replace** it with the following:

2.3 FLEXIBLE HOSE AND FITTINGS

- A. Flexible hose and fittings shall meet the same pressure and integrity standards as the rigid pipe and shall be manufactured to endure conditions involved with its intended use.
- B. Hose materials are known to have extraordinary lead times, coordinate as required.
- C. Flexible fire hose shall be *Good Year Flexdock 225* or approved equal.
- D. Hoses shall be equipped with 316 SS built in nipples and 316 SS fixed or floating flanged connections compatible with pipe flanges as shown in the plans and as specified herein.
 1. Fixed flange fittings for hose assemblies shall be 150 lb. and shall be constructed entirely of 316 SS. All welds shall be completed with 316 SS rod.
 2. Floating flange assemblies shall be 150 lb. and constructed entirely of 316 SS. No more than one floating flange assembly shall be allowed per hose.
 3. Threaded on flange assemblies shall not be permitted.
 4. All flange connection hardware shall be 316 SS.
 5. Flange gasket material shall be NSF-61 listed or FDA compliant and shall be of a material recommended for use in a saltwater environment as stated by the manufacturer.
- E. Hose construction, fittings installation and hose assembly installation shall be completed per manufacturer's recommendations to meet pressure and integrity standards as specified herein.
- F. Hose Supports shall be provided where shown in the Plans and in accordance with the provisions of Section 02601-Water System.

Item No. 8 SECTION 02720 – PAINTED TRAFFIC MARKINGS, Article 2.1 MATERIAL: **Delete** Paragraph A in its entirety and **replace** it with the following:

A. Marking paint shall conform to AASHTO M 248, Type F.

Item No. 9 SECTION 02882 – CONTINGENT WORK – PILE OBSTRUCTION REMOVAL, Article 3.1 GENERAL, Paragraph C: **Add** the following to the end of this paragraph:

Excavated material shall not be hoisted to the water surface but shall be side cast adjacent to the immediate work area and away from other pile locations.

Item No. 10 SECTION 02883 – MARINE FENDERS, Article 2.1 FENDERS, Paragraph A: **Delete** the first sentence in its entirety and **replace** it with the following:

Floating, foam-filled fenders shall be 8-ft diameter x 16-ft long SEA GUARD as manufactured by SEAWARD, or standard capacity OCEAN GUARD as manufactured by MARINE FENDERS INTERNATIONAL, or an approved equal.

Item No. 11 SECTION 02894 – GANGWAYS AND CATWALKS

Article 1.3 SUBMITTALS, **Add** the following paragraphs:

- I. Fiberglass Grating – Submit (2) product samples along with manufacturer's published literature for specific product and accessories, as applicable, including manufacturer's specifications, physical characteristics, fabrication and dimensional tolerance data, and product warranty. Submittal shall include proposed method of attachment per manufacturer's recommendations.
- J. Welded Steel Grating – Submit manufacturer's published literature for specific product including manufacturer's specifications, physical characteristics, fabrication and dimensional tolerance data, and product warranty. Submittal shall include proposed method of attachment per manufacturer's recommendations.

Article 2.1 MATERIALS, **Add** the following paragraphs:

- J. Fiberglass grating shall be high-strength, pultruded bar type with anti-skid, extra coarse and durable grit surface such as "Safe-T-Span" type "I-4010", ADA Compliant grating with 1" I-type bearing bars or approved equal. Color of grating shall be gray. Attachment of grating bars shall use Type 316 Stainless Steel fasteners per manufacturer's recommendations. All cuts, holes or otherwise exposed fiberglass grating shall be sealed with resin seal kit per manufacturer's recommendations. "Safe-T-Span" is produced by *Fibergrate / Composite Structures International, Inc.*
- K. Welded steel grating shall be hot-dipped galvanized with 1 ¼" x 3/16" bearing bars at 1 3/16" O.C. and ¼" cross bars a 4" O.C. Options for attachment of grating shall include welding every 4th bearing bar to each floor beam, or grating

may be bolted to each floor beam. Attachment methods shall be per grating manufacturer's recommendations.

Item No. 12 SECTION 02896 – STEEL PIPE PILES

Article 3.3 INSTALLATION, **Delete** Paragraph M in its entirety and **replace** it with the following:

M. A Drill Discharge Containment System designed and provided by the CONTRACTOR shall be used during all pile installation operations when soil, rock and/or slurry from within the pile is removed (i.e. during rock anchor, pile socket and pin-pile installation). The containment system shall contain drilled materials and fluids discharged from the pile. Drilled rock cuttings and removed soil overburden arising from the drilling operations may be redirected to the seafloor within a localized 20 ft. deep silt containment/turbidity curtain. If drilling mud slurries are utilized, they shall be captured and contained and not allowed to enter the water without prior treatment. The Drill Discharge Containment System shall be of adequate capacity and design to contain discharged materials and control turbidity in compliance with environmental regulations.

Item No. 13 SECTION 02901 – CONCRETE PONTOONS

PART 1 – GENERAL:

Article 1.1 DESCRIPTION: **Add** the following Paragraph:

C. Specifications for materials under this Section take precedence over other concrete specification sections contained elsewhere within the Contract Documents.

Article 1.6 DESIGN REQUIREMENTS, Paragraph B. Design Loads: **Add** the following subparagraphs:

10. Bridge Landings and Pontoon Mooring Frames

- a. Pontoon bolted connections shall be designed to resist 100% of the sum of the breaking strengths in shear and tension of all bolts in the connection.
- b. Pontoon tension rod connections shall be designed to resist 100% of the sum of the ultimate tensile strength of all rods in the connection.

Article 1.6 DESIGN REQUIREMENTS, Paragraph X. Pontoon Hatches, Subparagraph 1.: **Delete** this paragraph in its entirety and replace it with the following:

1. Every interior pontoon cell shall be accessible by a minimum of two watertight hatches in the top deck of the pontoon.

Add the following Article:

Article 1.7 SPECIAL CONCRETE PONTOON WARRANTY

- A. The CONTRACTOR shall provide a written warranty that the concrete pontoons and all associated appurtenances furnished and installed shall be free from defects in materials and workmanship for a period of two (2) years following final completion and acceptance by the OWNER.
- B. The warranty shall include all necessary remedy from defects such as inappropriate freeboard or listing due to inadequate design for freeboard and remedy from defects such as surface delaminations, spalling, scaling, abnormal cracking, water tightness and other concrete defects attributable to inadequate design or quality of concrete mixtures, reinforcement, placement and curing.

PART 3 – EXECUTION:

Article 3.1 FABRICATION, Paragraph J.: **Delete** the second sentence of this paragraph and replace it with the following:

Structural defects include but are not limited to bug holes, rock pockets, and cracks larger than those specified herein.

Article 3.1 FABRICATION, Paragraph J.3: **Delete** this paragraph in its entirety and replace it with the following:

3. Maximum crack width shall be as determined by ACI 224R-01, Control of Cracking in Concrete Structures, utilizing limited allowable reinforcement/prestressing steel stresses specified in ABS Rules for Building and Classing Offshore Installations, Table 3/5.1. Cracks with a width greater than this maximum shall be repaired. Crack repair for cracks less than 1/16-inch shall be performed following pressure washing and drying by gravity filling with elastomeric crack sealant. Cracks wider than 1/16-inch shall be grooved out to a nominal 1/2-inch x 1/2-inch and filled with elastomeric crack sealant.

Item No. 14 SECTION 02905 – MOORING, BREASTING & PONTOON DOLPHINS, Article 3.1 FABRICATION: **Delete** Paragraph B in its entirety and **replace** it with the following:

- B. All components of the complete breasting dolphin fender panel frames/assemblies shall be hot-dip galvanized per Section 09900 – Coatings. Prior to fabrication, fabricator shall submit a plan detailing means/methods to galvanize and assemble the complete fender panel frame assembly for ENGINEER approval.

Item No. 15 SECTION 02996 – PILE ANODES, Article 3.2 CONTINUITY TESTING AND POTENTIAL READINGS, **Add** the following to the end of this paragraph:

Locations for randomly photographed and tested anodes shall be uniformly distributed throughout the project area and shall be approved in advance by the ENGINEER.

Item No. 16 SECTION 09900 – COATINGS, Article 2.2 THERMAL SPRAY METALLIC COATING,

Paragraph D.2.: **Delete** Subparagraph 2 in its entirety and **replace** it with the following:

2. Complete mooring and breasting dolphin cap assemblies, unless otherwise noted.

PLANS:

Item No. 17 DRAWING SHEET S1.02, NORTH BERTH PILE SCHEDULE:

Change Summary Table Headings **from** SERVICE LOAD (KIPS) **to** ULTIMATE LOAD (KIPS) at all locations.

Add the following sheet notes in lower right hand corner of drawing:

1. Supply Lengths indicated include estimated pile lengths from design cutoff elevation to estimated tip elevation plus an additional amount for impact driving, cut off waste and fresh heading the piles as required during installation.
2. Estimated rock anchor and socket anchor rod lengths shall be determined by adding 40' to the Pile Supply Length indicated at each anchor location. Surplus anchor rod materials resulting from cutoffs shall be utilized for extending rod lengths if required elsewhere.

Item No. 18 DRAWING SHEET S1.03, SOUTH BERTH PILE SCHEDULE:

Add the following sheet notes in lower right hand corner of drawing:

1. Supply Lengths indicated include estimated pile lengths from design cutoff elevation to estimated tip elevation plus an additional amount for impact driving, cut off waste and fresh heading the piles as required during installation.
2. Estimated rock anchor and socket anchor rod lengths shall be determined by adding 40' to the Pile Supply Length indicated at each anchor location. Surplus anchor rod materials resulting from cutoffs shall be utilized for extending rod lengths if required elsewhere.

Item No. 19 DRAWING SHEET S1.05, PILE TIP DETAILS – SOCKET ANCHOR:

SOCKET ANCHOR PILE TIP DETAIL: **Delete** dimension note “See Pontoon Dolphin Cap Details” at top of pile and **replace** with the dimension of (3'-6”). **Add** dimension from top of grout to top of pipe pile piece to be (12”). This replicates detail shown on Drawing S1.04.

Item No. 20 DRAWING SHEET S1.07, PILE TIP DETAILS – SPIN FIN[®]:

SPIN FIN[®] PILE TIP DETAILS: **Change** dimensional note on 30”, 36”, 42” and 48” Ø pile elevation details from “15 FT MAX TO PILE TIP” **to** read “20 FT MAX TO PILE TIP” to identify the portion of pile that need not be galvanized.

Item No. 21 DRAWING SHEET S1.08, PILE DETAILS – SPIN FIN® AND WELD DETAILS:

SPIN FIN® - ELEVATION: **Add** dimensional note originating at splice location that reads “10 FT MAX TO PILE TIP”. Dimensional note to be similar to that shown on Drawing S1.07 to identify the portion of pile that need not be galvanized.

Item No. 22 DRAWING SHEET S2.05, APPROACH DOCK DETAILS:

DTL A - TYPICAL PILE CAP SECTION: **Change** dimension **from** 1'-4" **to** 1'-2" to match relevant details on Sht S2.04.

Item No. 23 DRAWING SHEET S2.08, NORTH BERTH APPROACH DOCK RAILING ELEVATIONS:

DTL D – EAST RAILING ELEVATION: **Change** labeling of center post **from** Type 2 **to** Type 3 (w/ turnbuckles), as detailed on Drawing S2.09, Detail C. In addition, the adjacent Type 3 posts on each side of the center post shall be Type 3 (w/o turnbuckles) such that the cables pass through these posts as detailed on Drawing S2.09, Detail B.

Item No. 24 DRAWING SHEET S5.13, CONCRETE PONTOON RAILING DETAILS:

Note in Box near center of sheet: **Change** word **from** “or” **to** “and”.

Item No. 25 DRAWING SHEET U1.01, GENERAL NOTES, LEGEND AND ABBREVIATIONS:

GENERAL UTILITY NOTES: **Add** the following note:

6. At all locations where brass or bronze pipe is specified, 316 SS Sch. 40 pipe, provided and installed in accordance with the appropriate technical specification section, shall be allowed as a substitution. Pipe shall be threaded where connections dictate and threaded or welded with 316 SS rod elsewhere. Flange connections shall only be acceptable as shown in the plans. The pipe material the CONTRACTOR elects to use shall be used at all affected locations unless otherwise approved by the ENGINEER. HDPE transition fittings connecting to affected pipe shall be of similar material unless otherwise approved by the ENGINEER.

By: 
Jennifer Mannix,
Contract Administrator

Total number of pages contained within this Addendum: 14

SECTION 00310 – BID SCHEDULE

Pay Item No.	Pay Item Description	Pay Unit	Approximate Quantity	Unit Price		Amount	
				Dollars	Cents	Dollars	Cents
1505.1	Mobilization	LS	All Req'd	LUMP	SUM	\$	
2060.1	Demolition & Disposal	LS	All Req'd	LUMP	SUM	\$	
2200.1	North Berth Uplands Reconstruction	LS	All Req'd	LUMP	SUM	\$	
2401.1	Wastewater Service Discharge System	LS	All Req'd	LUMP	SUM	\$	
2445.1	Security Gates	LS	All Req'd	LUMP	SUM	\$	
2601.1	South Berth Water System	LS	All Req'd	LUMP	SUM	\$	
2601.2	North Berth Water System	LS	All Req'd	LUMP	SUM	\$	
2601.3	Mooring Float Water System	LS	All Req'd	LUMP	SUM	\$	
2611.1	South Berth Dry Fire Line	LS	All Req'd	LUMP	SUM	\$	
2611.2	North Berth Dry Fire Line	LS	All Req'd	LUMP	SUM	\$	
2702.1	Construction Surveying	LS	All Req'd	LUMP	SUM	\$	
2718.1	Sign Assemblies and Painted Pontoon Markings	LS	All Req'd	LUMP	SUM	\$	
2726.1	South Berth Approach Dock	LS	All Req'd	LUMP	SUM	\$	
2726.2	North Berth Approach Dock	LS	All Req'd	LUMP	SUM	\$	
2726.3	Existing Approach Dock Repairs	LS	All Req'd	LUMP	SUM	\$	
2801.1	AC Pavement, Type II, Class B	TON	80			\$	
2882.1	Contingent Work – Pile Obstruction Removal	CS	As Req'd	CONT	SUM	\$500,000	00
2883.1	Floating Marine Fender	EA	24			\$	
2883.2	Vertical Arch Fender	EA	15			\$	
2892.1	Transfer Bridge	EA	2			\$	
2893.1	Transfer Bridge Abutment Pile Cap	EA	2			\$	
2893.2	Transfer Bridge Landing	EA	2			\$	
2894.1	8' x 120' Covered Gangway	LS	All Req'd	LUMP	SUM	\$	
2894.2	Catwalk Access Gangway and Landing	EA	4			\$	

BIDDER: _____

SECTION 00310 – BID SCHEDULE

Pay Item No.	Pay Item Description	Pay Unit	Approximate Quantity	Unit Price		Amount	
				Dollars	Cents	Dollars	Cents
2894.3	Catwalks	LS	All Reqd	LUMP	SUM	\$	
2895.1	16' x 200' Mooring Float	LS	All Reqd	LUMP	SUM	\$	
2896.1	Furnish Steel Pipe Pile, 24" Dia. X 0.500" Thick	LF	4,220			\$	
2896.2	Furnish Steel Pipe Pile, 30" Dia. X 0.500" Thick	LF	4,010			\$	
2896.3	Furnish Steel Pipe Pile, 36" Dia. X 0.750" Thick	LF	8,320			\$	
2896.4	Furnish Steel Pipe Pile, 42" Dia. X 0.750" Thick	LF	8,760			\$	
2896.5	Furnish Steel Pipe Pile, 48" Dia. X 0.750" Thick	LF	6,120			\$	
2896.6	Install 24" Dia. Vertical Pile	EA	29			\$	
2896.7	Install 24" Dia. Batter Pile	EA	10			\$	
2896.8	Install 30" Dia. Vertical Pile	EA	9			\$	
2896.9	Install 30" Dia. Batter Pile	EA	15			\$	
2896.10	Install 36" Dia. Vertical Pile	EA	9			\$	
2896.11	Install 36" Dia. Batter Pile	EA	36			\$	
2896.12	Install 42" Dia. Vertical Pile	EA	24			\$	
2896.13	Install 42" Dia. Batter Pile	EA	16			\$	
2896.14	Install 48" Dia. Vertical Pile	EA	31			\$	
2896.15	Spin Fin Pile Tip, 24" Dia. Pile	EA	9			\$	
2896.16	Spin Fin Pile Tip, 30" Dia. Pile	EA	6			\$	
2896.17	Spin Fin Pile Tip, 36" Dia. Pile	EA	12			\$	
2896.18	Spin Fin Pile Tip, 42" Dia. Pile	EA	9			\$	
2896.19	Spin Fin Pile Tip, 48" Dia. Pile	EA	21			\$	
2896.20	Rock Anchor 1	EA	49			\$	
2896.21	Rock Anchor 2	EA	10			\$	
2896.22	Socket Anchor, 48" Dia.	EA	6			\$	

BIDDER: _____

SECTION 00310 – BID SCHEDULE

Pay Item No.	Pay Item Description	Pay Unit	Approximate Quantity	Unit Price		Amount	
				Dollars	Cents	Dollars	Cents
2896.23	Mooring Float Pile Socket, 24” Dia.	EA	5			\$	
2896.24	Pile Splice, 24” and 30” Dia.	EA	10			\$	
2896.25	Pile Splice, 36”, 42” and 48” Dia.	EA	10			\$	
2896.26	Supply Steel Pipe Pile Probe	EA	1			\$	
2896.27	Pile Probe	EA	50			\$	
2897.1	Navigation Boom	LS	All Req’d	LUMP	SUM	\$	
2901.1	South Berth Floating Concrete Pontoon, 50’ x 300’	LS	All Req’d	LUMP	SUM	\$	
2901.2	North Berth Floating Concrete Pontoon, 50’ x 400’	LS	All Req’d	LUMP	SUM	\$	
2902.1	Pontoon Mooring Frame and Fenders	EA	4			\$	
2905.1	Pontoon Dolphin Cap	EA	4			\$	
2905.2	Breasting Dolphin Cap and Fender Panel	EA	10			\$	
2905.3	Mooring Dolphin Cap	EA	3			\$	
2905.4	Install Salvaged Capstan and Base Weldment	EA	4			\$	
2905.5	Install Owner Supplied Capstan and New Base Weldment	EA	9			\$	
2996.1	Supply Type 1 Anode, 4x4x72	EA	194			\$	
2996.2	Supply Type 2 Anode, 6x6x60	EA	1,429			\$	
2996.3	Supply Type 3 Anode, 6x6x72	EA	681			\$	
2996.4	Install Anode, All Types, at or Above Elev. – 50’ MLLW	EA	1,804			\$	
2996.5	Install Anode, All Types, Below Elev. – 50’ MLLW	EA	500			\$	
2996.6	Anodes Continuity Testing and Potential Readings	LS	All Req’d	LUMP	SUM	\$	
11000.1	Wastewater Monitoring Station Piping and Equipment	LS	All Req’d	LUMP	SUM	\$	
13121.1	Utility Enclosure	LS	All Req’d	LUMP	SUM	\$	
16000.1	Power and Lighting – South Berth and Mooring Float	LS	All Req’d	LUMP	SUM	\$	

BIDDER: _____

SECTION 00310 – BID SCHEDULE

Pay Item No.	Pay Item Description	Pay Unit	Approximate Quantity	Unit Price		Amount	
				Dollars	Cents	Dollars	Cents
16000.2	Power and Lighting – North Berth	LS	All Req'd	LUMP	SUM	\$	

TOTAL BID AMOUNT IN FIGURES: \$ _____

TOTAL BID AMOUNT IN WORDS: _____

BIDDER: _____

END OF SECTION