

Project No. 16-033A

September 13, 2016

#### TO ALL POTENTIAL BIDDERS

Subject: Addendum No. 3 for Construction of Oil Dock 15

Ladies/Gentlemen:

This addendum is considered part of the Contract Documents and is issued to change, amplify, add to, delete from, or otherwise clarify the Contract Documents. Where provisions of this addendum differ from those of the original Contract Documents and previous addenda, this addendum will take precedence and will govern.

Bidders are hereby notified that they must incorporate this addendum into their bids, and it will be construed that the contractor's bid reflects with full knowledge all items, changes, and modifications to the Contract Documents herein specified. In order for a bid to be considered responsive, Bidders will acknowledge receipt of this addendum in the space provided on the Bid form.

#### NOTICE TO BIDDERS

The time and date of the bid opening has been changed to Monday, 1:30 p.m., September 19, 2016.

<u>VOLUME 1</u>-GENERAL CONTRACT DOCUMENTS, CIVIL, STRUCTURAL, AND DREDGING DRAWINGS AND TECHNICAL SPECIFICATIONS

#### **BID BREAKDOWN**

1. The Bid Breakdown has been reissued. <u>Bidders must submit this Revised Bid Breakdown with your Bid</u>. Revisions have been made to items 2.3.02 through 2.3.10, items 3.2.04 through 3.2.06 and item A1.3. See attached.

#### TECHNICAL SPECIFICATIONS

Section 26 05 27, "Grounding", Part 2 – Products, Paragraph 2.05, "Grounding Electrodes", Subparagraph A. Delete existing sentence and replace with new subparagraph 2.05-A as follows.

2.05 A Ground Rods: <sup>3</sup>/<sub>4</sub>-inch diameter, 10 feet long, copper clad plated.

Section 35 20 23, "Dredging", Part 3 – Execution, Paragraph 3.02, "Conduct of Dredging Work". Delete existing paragraph and replace with new sub-paragraph 3.02-H.2 as follows.



To All Potential Bidders Page 2 September 13, 2016

3.02 – H.2. The Contractor will not be paid for standby time or provided additional compensation or contract time related to encountering extraneous material during dredging that may be reasonable considered to be ancillary to the work. However, the Owner may consider compensation for standby time, granting additional contract time, or other equitable adjustment, related to encountering extraneous material during dredging wherein the Contractor experiences significant delays and to the extent that the Contractor can document and demonstrate, to the Owner's satisfaction, that a compensable delay and/or project schedule impact has occurred.

#### <u>DRAWINGS – VOLUME 1</u>

1. The following drawing sheets are reissued. See attached.

Drawing No. 06 - Civil Site Plan — Show location of light poles. Eliminated swale between Station 3+00 and Station 3+50 on north side of site. Show location of firewater monitors.

Drawing No. 06A - Utilities Site Plan - Show location of light poles with location coordinates. Show firewater monitors. Revised details of utility trench. Added callouts for sump tank, electrical building, transformer foundation, and service pole for power supply.

Drawing No. 12. – Site Cross Sections – Revised sections for Station 3+30.7 and Station 3+50 to reflect civil site plan revisions.

- 2. The following drawing sheets are added. See attached and add to drawing index (es).
  - Drawing No. 06B Utilities Details
- 3. Drawing No. 024 Dredge Material Placement Areas. Delete callout for "24" CMP" and "36" CMP". Add new note:
  - 5. Reference drawings have been included in Volume 3, for the Contractor's review and information only, depicting, to the best of the Owner's knowledge, current conditions that exist along the discharge pipeline route.

#### **VOLUME 2-PIPING AND MECHANICAL DRAWINGS AND SPECIFICATIONS**

#### <u>DRAWING - VOLUME 2</u>

1. Drawing No. CCCT – 00245 – Instrument Plan VCU Area, "Reference Drawings:". Delete the following reference: "CCCT-00269 Instrumentation Installation Details Sht. 2".

- 2. Drawing No. CCCT 00246 Instrument Plan Piperack Area, "Reference Drawings:". Delete the following reference: "CCCT-00269 Instrumentation Installation Details Sht. 2".
- 3. Drawing No. CCCT 00247 Instrument Plan Dock Area, "Reference Drawings:". Delete the following reference: "CCCT-00269 Instrumentation Installation Details Sht. 2".
- 4. Drawing No. CCCT 00274 Underground Duct Bank Details, "Section A-A" and "Section D-D". Delete callouts for underground conduit for "PVC SCHD-40" and replace with:

"PVC-Coated Rigid Steel"

- 5. Drawing No. CCCT 00277 Miscellaneous Details, Detail E3, Material List Item # 7 conduit clamp B20000 series; and #8 Strut 1-5/8-inch P1000. Delete and replace with the following:
  - 7. Conduit clamp (316 SS)
  - 8. Strut, 1-5/8 inch (316 SS)

#### **VOLUME 3-REFERENCE DRAWINGS**

#### DRAWINGS INDEX - VOLUME 3

1. Add the following new reference drawings, provided for the Contractor's information only. See attached:

Joe Fulton International Trade Corridor Roadway Plan & Profile, Sta 580+50 to Sta 591+50, dated October 16, 2003.

Joe Fulton International Trade Corridor Drainage Structure Plans Sta 585+22 & Sta 591+85, dated February 12, 2004.

Joe Fulton International Trade Corridor Drainage Structure Details Headwall @ Sta 585+22, dated October 15, 2003.

## **GENERAL CLARIFICATIONS**

The following General Clarifications are provided in response to Bidder's questions. The clarifications provided below have been posted, in part or wholly, on the Port's EBID website, or have been generally discussed at the Pre-bid Conference, and are herein incorporated into the Contract Documents.

1. Contractor to supply air compressors. See Volume 1 Drawing No. 03 – Civil, Structural and Dredging Notes, "Materials Furnished by Owner and Installed by Contractor" and also Special Conditions, Paragraph 1.13 "Material to be Furnished by Owner". In the event that information in the bid documents indicate otherwise, this addendum will govern.

To All Potential Bidders Page 4 September 13, 2016

2. This project includes a total of twelve (12) quick release hooks and four (4) capstans in the Base Bid and two (2) additional quick release hooks on the two (2) additional mooring structures in Additive Bid Item 1. Each quick release hook has two (2) each 100 ton hooks, and are manual type. Location of capstans can be seen in Volume 2, sheet CCCT-00249. Refer Volume 1 for marine structure plan (Sheet 08) as well as details for breasting structures, breasting monopiles, monopile mooring structures and dock corners for quick release hooks.

Sincerely,

Natasha E. Fudge, P.E. Capital Program Manager



NEF/clh

Enclosures

Cc:

Sean Strawbridge
David L. Krams
Sarah Garza
David L. Michaelsen
Brett Flint
Sonya Lopez-Sosa

- (	Company	Name)
- 1		

# BID BREAKDOWN SHEET CONSTRUCTION OF OIL DOCK 15 PORT OF CORPUS CHRISTI AUTHORITY

#### BREAKDOWN OF BID PRICES

This breakdown is a part of the Contract Documents and is designed to help the PCCA evaluate the bids to detect possible errors or omissions and to establish values for the individual items of work so that modifications to the contract can be more easily resolved. Please fill out the items listed below so that the total matches the prices shown on the bid. The bidder is invited to include his own estimates if he so chooses.

	Description	Design Quantity	Bidder's Quantity	Unit Amount	Total Amount
BASE B	SID - OIL DOCK				
ITEM N	IO. 1 - GENERAL				
1.1	Mobilization/Demobilization (excluding dredging)	1 LS		\$	\$
1.2	Bonds and Insurance	1 LS		\$	\$
ITEM N 2.1 Site	NO. 2 - GENERAL CIVIL & SI work	FE IMPROVE	MENTS / ME	CHANICAL & ELI	ECTRICAL
2.1.01	Best Management				
	Practices/StormWater Pollution Prevention Plan implementation and				
	monitoring	1 LS		\$	\$
2.1.02	Site Demolition and Clearing	1 LS		\$	\$
2.1.03	Access Driveways with				
	Culverts	1 LS		\$	<u>\$</u>
2.1.04	14-inch diameter pipe pile				
	foundation system for Vapor Control Unit Skid & Stack/				
	Skid Blower	2,730 LF		\$	\$
2.1.05	Foundations for AEP	<u> </u>			_
	Transformer, Cabke Tray, Air Compressor, Lighting	1 LS			

		Design	Bidder's	Unit	Total
2106	Description	Quantity	Quantity	Amount	Amount
2.1.06	Foundation for Electrical Building	1 LS			
2.1.07		94 CY		\$	<u></u> \$
2.1.07	Concrete Riprap  Approach Slab	30 CY		· <del>\$</del>	<del>\$</del>
	**	30 C1		. <del></del>	<del></del>
2.1.09	Concrete Retaining Wall w/ Traffic Rail	88 LF		\$	\$
2.1.10	Concrete Abutment and			· ·	<u> </u>
	Wingwall	1 EA		\$	\$
2.1.11	Parking/Backland Areas w/				
	Limestone Base	4,775 SY		\$	\$
2.1.12	Pipe Rack Supports Concrete (PS-3, PS-4, PS-5, & PS-6)	28 CY		<b>\$</b>	<u> </u>
2.1.13	Structural Steel for Pipe	26 C1		· •	
2.1.13	Rack Supports (PS-3, PS-4,				
	PS-5, &PS-6)	1 LS		\$	\$
2.1.14	Security Improvements	1 10		¢	ф
2 1 15	(perimeter fencing and gates)	1 LS		• \$	_ \$
2.1.15	Topsoil and Seeding	1 LS		\$	<u>\$</u>
2.2 5:40	Utilities				
		1 10		ф	ф
2.2.01	Power Distribution	1 LS		\$	
2.2.02	Electrical and Lighting	1 LS		\$	\$
2.2.03	Potable Water	1 LS		\$	<u>\$</u>
2.2.04	Firewater, Piping System and Fire Monitors, and				
	Foundations	1 LS		\$	\$
2.2.05	Sump for Storage of Dock			-	
	Storm Water Runoff	1 EA		\$	\$
2.2.06	Connections and Tie-in to				_
	City water, firewater, and gas				
	systems	1 EA		\$	\$
) ) N.T.	honical / Electrical / In-A	tation			
2.3 Mec 2.3.01	hanical / Electrical / Instrumen Air Compressor with air	เสนเขม			
2.3.01	dryer, filters, auto drain tank,				
	rain canopy and oil water				
	separator mounted on 120				
	gallon tank, with back-up				
	compressor)	2 LS		\$	\$
2.3.02	30-inch diameter carbon steel			-	
	pipe with appurtenances	6 LF		\$	

		Design	Bidder's	Unit	Total
	Description	Quantity	<b>Quantity</b>	Amount	Amount
2.3.03	24-inch diameter carbon steel	010 XF		Ф	ф
	pipe with appurtenances	212 LF		\$	<u>\$</u>
2.3.04	16-inch diameter carbon steel			Φ.	Φ.
	pipe with appurtenances	155 LF		<u>\$</u>	<u>\$</u>
2.3.05	14-inch diameter carbon steel				
	pipe with appurtenances	5 LF		\$	<u>\$</u>
2.3.06	12-inch diameter carbon steel				
	pipe with appurtenances	21 LF		<u>\$</u>	
2.3.07	8-inch diameter carbon steel				
	pipe with appurtenances	19 LF	-	\$	
2.3.08	6-inch diameter carbon steel				
	pipe with appurtenances	16 LF		\$	
2.3.09	4-inch diameter carbon steel				
	pipe with appurtenances	24 LF		\$	<u>\$</u>
2.3.10	3-inch diameter carbon steel				
	pipe with appurtenances	359 LF		\$	<u>\$</u>
2.3.11	2-inch diameter carbon steel				
	pipe with appurtenances	970 LF		\$	\$
2.3.12	1-inch diameter carbon steel			-	
	pipe with appurtenances	56 LF		\$	\$
2.3.13	3/4-inch diameter carbon				
	steel pipe with appurtenances	57 LF		\$	\$
2.3.14	1/2-inch diameter carbon				
	steel pipe with appurtenances	11 LF		\$	\$
2.3.15	Pig Launcer/Receiver	1 LS		\$	<del>-</del> \$
2.3.16	Pumps / Control Valves	1 LS	-	\$	\$
2.3.17	Sleeper Tees (pipe supports)	1 LS		<u>\$</u>	<del>\$</del>
2.3.18	Electrical and misc. site			*	
2.0.10	support work	1 LS		\$	\$
2.3.19	Commissioning, Testing and			Ψ	
2.3.17	Integration, and Start Up				
	Costs	1 10		¢	¢
2 2 20		1 LS		Ψ	
2.3.20	Scaffolding and temporary work structures.	1 10		¢	¢
2 2 21		1 LS		- <del>\$</del>	- \$
2.3.21	New Electrical Building	1 LS		\$	
2.4 Owi	ner-Furnished Items				
2.4.01	Unload and Install New				
	Loading Arms (Owner				
	supplied loading arms)	1 LS		\$	\$
	supplied foating arms)	1 LO		Ψ	Ψ

	Description	Design Quantity	Bidder's Quantity	Unit Amount	Total Amount
2.4.02	Transport and Reinstall Existing Dock Safety Unit (Owner supplied Dock Safety Unit)	1 LS		\$	<b>\$</b>
2.4.03	Install Vapor Combustion Unit (VCU) (Owner supplied VCU) and instrumentation	1 LS		\$	\$
2.4.04	Relocate Exist dock house and affix to dock	1 LS		\$	<u>\$</u>
ITEM N	O. 3 - DOCK FACILITIES				
	k Components				
3.1.01	Bent # 1 - Approachway Abutment Piling (30-inch diameter. Steel)	190 LF		\$	\$
3.1.02	Bent # 1 - Approachway Abutment Cap (concrete)	9 CY		\$	<b>\$</b>
3.1.03	Bent #2 - Approachway Piling (36-inch diameter. Steel w/HDPE Sleeve)	340 LF		\$	<b>\$</b>
3.1.04	Bent #2 - Approachway Concrete Cap	14 CY		\$	<u> </u>
3.1.05	Bents # 1 &# 2 Box Beams</td><td>400 LF</td><td></td><td>\$</td><td><u>                                     </u></td></tr><tr><td>3.1.06</td><td>Approachway Topping Slab</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(Concrete)</td><td>34 CY</td><td>_</td><td>\$</td><td><u>\$</u></td></tr><tr><td>3.1.07</td><td>Ty T221 Traffic Rail</td><td>250 LF</td><td></td><td>\$</td><td></td></tr><tr><td>3.1.08</td><td>Pipe Piling for Dock Bent #1 (30-inch diameter Steel w/HDPE Sleeve)</td><td>1,512 LF</td><td></td><td>\$</td><td>\$</td></tr><tr><td>3.1.09</td><td>Pipe Piling for Approachway, Dock, Steel Platform, & Pipe Supports (24-inch diameter Steel w/HDPE Sleeve)</td><td>2,854 LF</td><td>-</td><td>•</td><td>φ \$</td></tr><tr><td>3.1.10</td><td>Pilecaps for Dock (concrete)</td><td></td><td></td><td>- <del>\$</del> \$</td><td></td></tr><tr><td>3.1.10</td><td>Steel Grate Platform Pilecaps</td><td>145 CY 65 CY</td><td>-</td><td>- \$</td><td><u>                                     </u></td></tr><tr><td>3.1.12</td><td>Dock Precast Deck Panels</td><td>2,675 LF</td><td></td><td>- <del>\$</del></td><td><del>\$</del></td></tr><tr><td>3.1.13</td><td>Dock Surface (concrete)</td><td>70 CY</td><td></td><td>\$</td><td><u>                                     </u></td></tr></tbody></table>				

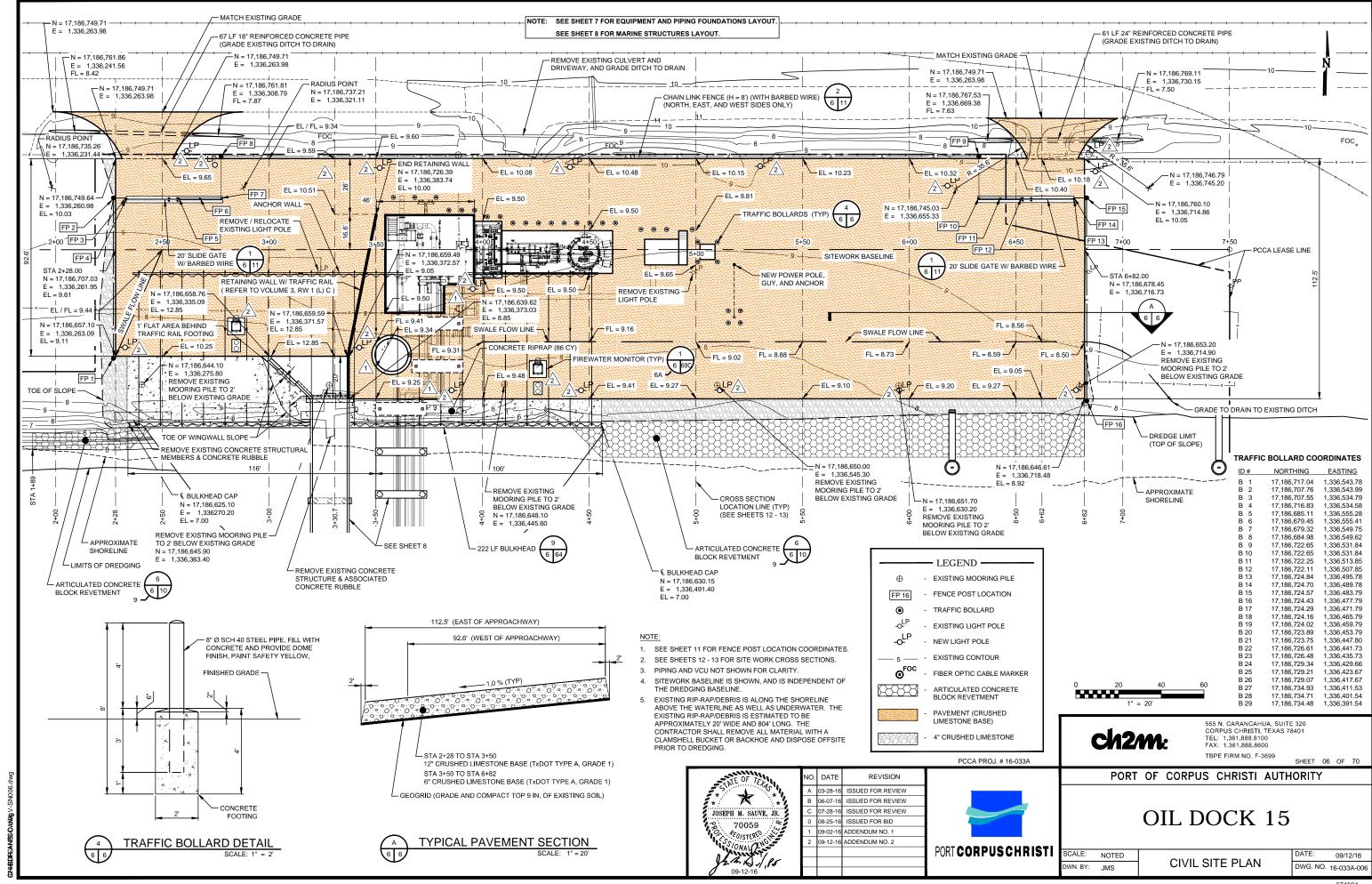
	Description	Design Quantity	Bidder's Quantity	Unit Amount	Total Amount
2 1 14	Steel Grate Platform for	Quantity	Quantity	Amount	— Amount
3.1.14	Dock Safety Unit	1,140 SF	_	\$	\$
3.1.15	Marine Pipe rack Supports Conc (PS-1, PS-2)	1 LS		<b>\$</b>	<b>\$</b>
3.1.16	Structural Steel Supports for Dock Safety Unit Platform	1 LS		\$	<u> </u>
3.1.17	Standard Pipe Ladder (Outer			-	_
2.1.10	Breasting Structures)	2 EA	_	- \$	
3.1.18	Shoreline Bulkhead	222 LF	_	- <del>\$</del>	<u>\$</u>
3.1.19	Shoreline Revetment	21,375 SF		\$	_ \$
3.1.20	Catwalks	324 LF	_	\$	<u> </u>
3.2 Moo	oring and Breasting Structures				
3.2.01	Inner Breasting Structures	2 EA		\$	\$
3.2.02	Outer Breasting Structures	2 EA	_	\$	<del>*************************************</del>
3.2.03	Mooring Structures	4 EA	_	\$	*
3.2.04	Fenders	4 EA	_	<del>\$</del>	<del>\$</del>
3.2.05	Furnish spare Fender and Panel (delivered, not		-	· ·	
	installed)	2 EA		\$	\$
3.2.06	Quick Release Hooks	12 EA		\$	<u> </u>
3.2.07	Powered Capstans	4 EA		\$	\$
ITEM N	O. 4 - DREDGING / EARTHV	VORKS			
4.1	Dredge Mobilization / Demobilization	1 EA		\$	\$
4.2	Dredge Pipeline Installation and Maintenance and Dredge Material Placement Area			· •	
	Maintenance	1 LS		\$	\$
4.3	Dredging 750 Foot Slip	76,260 CY			
	Total Base Bid	·	-		\$
ADDITI	VE BID ITEM 1 -TWO ADDI	TIONAL MO	NOPILE MOO	RING STRUCTUR	RES
A1.1	Mooring Structures				
	(concrete)	2 EA		\$	<u>\$</u>
A1.2	Quick Release Hooks	2 EA		\$	<u>\$</u>

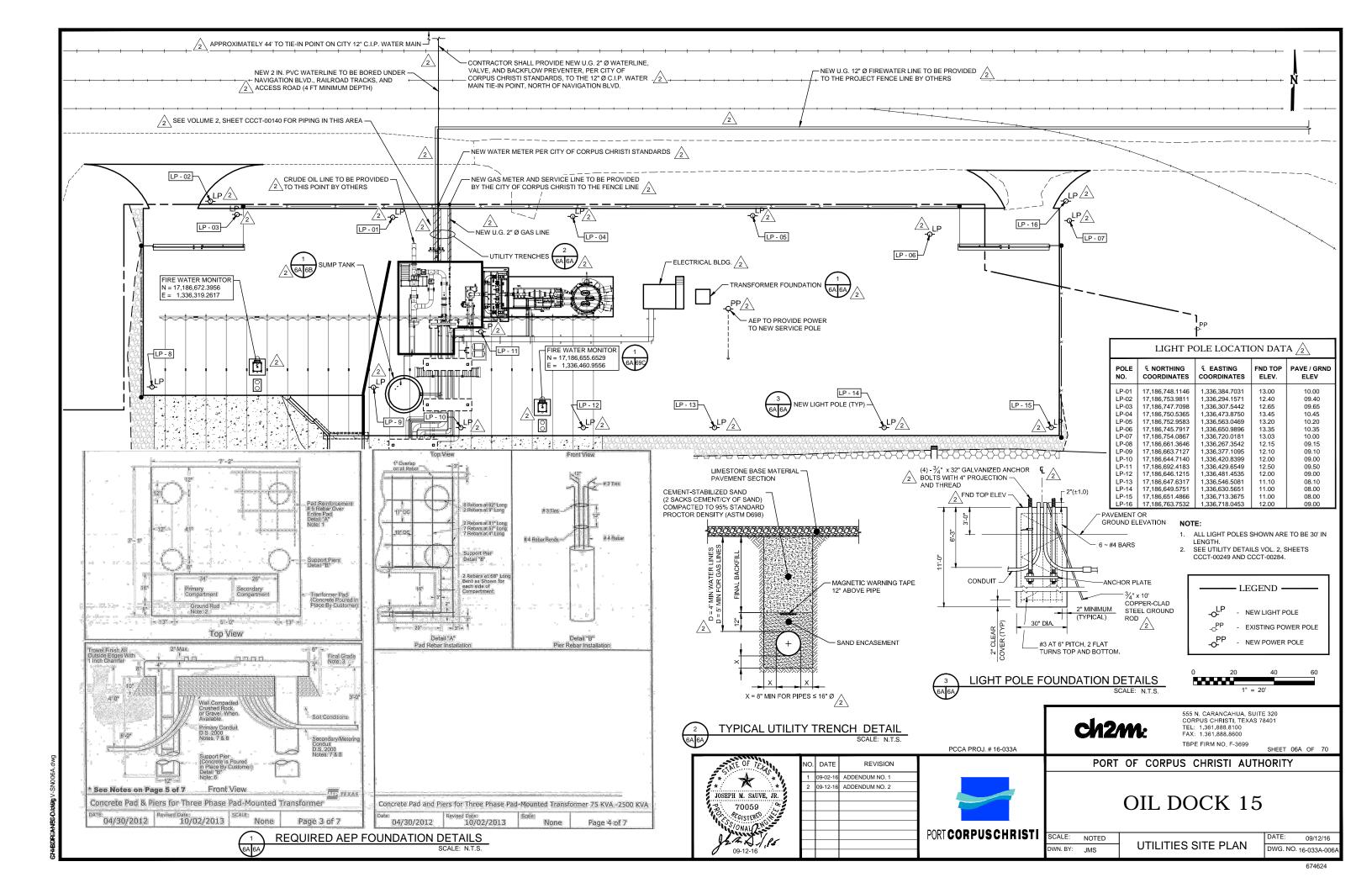
		Design	Bidder's	Unit	Total
	Description	Quantity	Quantity	Amount	Amount
A1.3	Catwalks	44 LF		<u>\$</u>	_ \$
	<b>Total Amount - Additive Bid</b>	Item 1			\$
ADDITI	VE BID ITEM 2 - BARGE AC	CESS AND FE	NDER SYST	EM	
A2.1	Barge Access Stairs	1 LS		\$	\$
A2.2	Dock Platform Fendering				
	System (Barge)	83 LF		\$	\$
A2.3	Safety Ladders for Barge			· ·	<u>·</u>
	Fender System	2 EA		\$	\$
A2.4	Swing down Gangway and			· ·	<u> </u>
	Gangway Support	1 EA		\$	\$
	Total Amount - Additive Bid			<u> </u>	<u> </u>
	10001111100110 110011110 210				
ADDITI	VE BID ITEM 3 - EXPANSIO	N TO AN 1 100	FOOT SLIP		
A3.1	Dredge Pipeline Installation and Maintenance and Dredge	1 10 111 1,100	710015211		
	Material Placement Area				
	Maintenance	1 LS		\$	
A3.2	Additional Dredging to				
A3.2	Additional Dredging to extend to 1100 foot slip	32,085 CY		\$	\$
A3.2				\$	- <del>\$</del>
A3.2	extend to 1100 foot slip			. \$	
	extend to 1100 foot slip	Item 3	IATERIAL P	LACEMENT AREA	\$
	extend to 1100 foot slip  Total Amount - Additive Bid	Item 3	IATERIAL P	LACEMENT AREA	\$
ADDITI	extend to 1100 foot slip  Total Amount - Additive Bid  VE BID ITEM 4 - ALTERNA	Item 3	IATERIAL P	LACEMENT AREA	\$
ADDITI	extend to 1100 foot slip  Total Amount - Additive Bid  VE BID ITEM 4 - ALTERNA  Additional cost for disposal	Item 3	IATERIAL P	LACEMENT AREA	\$
ADDITI	extend to 1100 foot slip  Total Amount - Additive Bid  VE BID ITEM 4 - ALTERNA  Additional cost for disposal of dredge material in DMPA	Item 3 ΓΕ DREDGE M  1 LS	IATERIAL P		\$
ADDITI	extend to 1100 foot slip  Total Amount - Additive Bid  IVE BID ITEM 4 - ALTERNA  Additional cost for disposal of dredge material in DMPA  Cell B	Item 3 ΓΕ DREDGE M  1 LS	IATERIAL P		\$ \$ \$
ADDITI A4.1	extend to 1100 foot slip  Total Amount - Additive Bid  IVE BID ITEM 4 - ALTERNA  Additional cost for disposal of dredge material in DMPA  Cell B	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$
ADDITI A4.1	extend to 1100 foot slip  Total Amount - Additive Bid  IVE BID ITEM 4 - ALTERNA  Additional cost for disposal of dredge material in DMPA  Cell B  Total Amount - Additive Bid	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$
ADDITI A4.1	extend to 1100 foot slip  Total Amount - Additive Bid  EVE BID ITEM 4 - ALTERNAT  Additional cost for disposal of dredge material in DMPA  Cell B  Total Amount - Additive Bid  EVE BID ITEM 5 - DREDGING	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$
ADDITI A4.1	extend to 1100 foot slip  Total Amount - Additive Bid  EVE BID ITEM 4 - ALTERNATA  Additional cost for disposal of dredge material in DMPA  Cell B  Total Amount - Additive Bid  EVE BID ITEM 5 - DREDGING  Overdepth Dredging between	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$
ADDITI A4.1	Total Amount - Additive Bid  IVE BID ITEM 4 - ALTERNATA Additional cost for disposal of dredge material in DMPA Cell B  Total Amount - Additive Bid  IVE BID ITEM 5 - DREDGING Overdepth Dredging between -47 foot MLT and -49 foot MLT above and beyond Base Bid and Additive Bid Item 3,	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$
ADDITI A4.1	Total Amount - Additive Bid  EVE BID ITEM 4 - ALTERNAT  Additional cost for disposal of dredge material in DMPA  Cell B  Total Amount - Additive Bid  EVE BID ITEM 5 - DREDGING  Overdepth Dredging between  -47 foot MLT and -49 foot MLT above and beyond Base	Item 3 TE DREDGE M  1 LS  Item 4		\$	\$ \$ \$

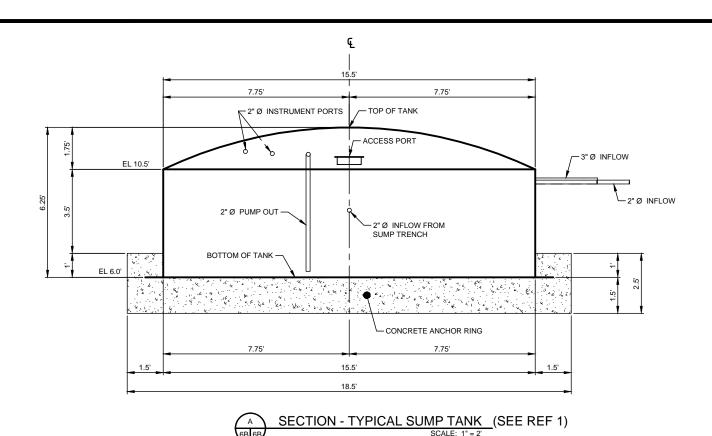
## LIST OF SUBCONTRACTORS AND SUPPLIERS

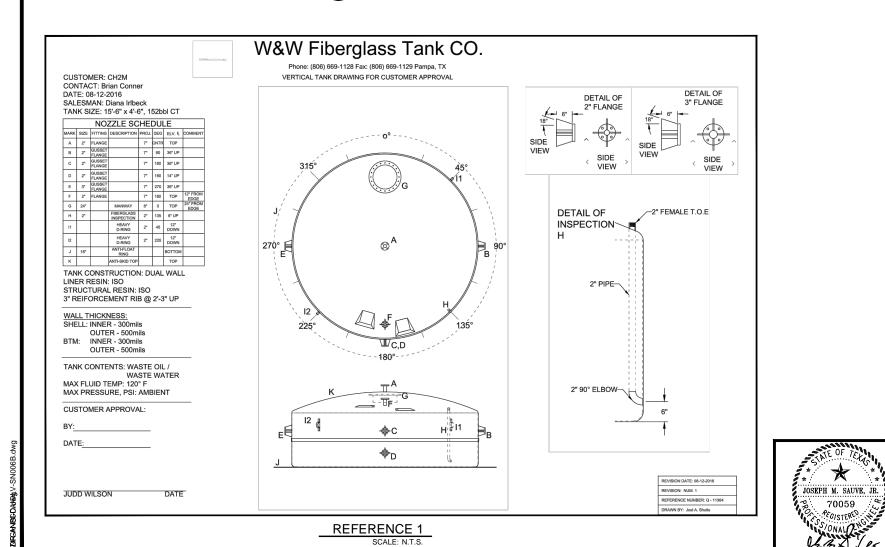
Please list all intended subcontractors and i	major suppliers below. The bidder awarded the contract
Material Item:	Name of Suppler:
Concrete	
Reinforcing Steel	
Precast Concrete	
Steel Piling	
Mooring Hooks and Capstans	
Concrete Piling	
Structural Steel	
Fenders	
Electrical System	
Piping/Mechanical	
Instrument System	
Subcontractors: (If Any)	

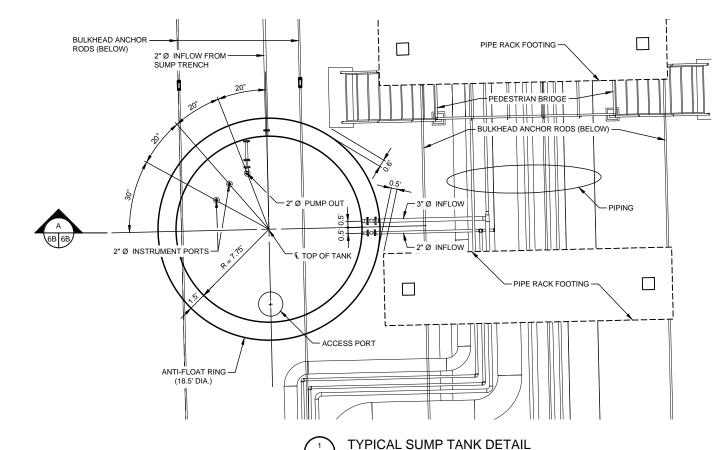
The preceding design quantities are approximate and are not guaranteed. Bidders will prepare their own estimate of work and bid accordingly. Bidders will indicate their own estimate of work under the column labeled "Bidder's Quantity" and calculate the "Total Amount" based on same. If this column is left blank, the bidder will be deemed to be in agreement with the design quantities and no adjustment in contract price will be made for variance.











#### NOTE:

- 1. THESE SUMP TANK DETAILS REPRESENT A TYPICAL SUMP TANK INSTALLATION FOR THE PHYSICAL DIMENSIONS, AND INFLOW AND OUTFLOW PIPES SHOWN. THE ACTUAL TANK DESIGN MUST BE AS DETERMINED BY THE MANUFACTURER BASED ON THE SOIL CHARACTERISTICS, BUOYANCY FORCES, AND STRUCTURAL PROPERTIES OF THE ACTUAL TANK TO BE INSTALLED.
- 2. REFERENCE 1 IS FOR REFERENCE ONLY. THE TANK TO BE USED SHALL MEET THE REQUIREMENTS SHOWN, BUT MAY BE AN APPROVED EQUAL FROM ANY OTHER MANUFACTURER.



555 N. CARANCAHUA, SUITE 320 CORPUS CHRISTI, TEXAS 78401 TEL: 1.361.888.8100 FAX: 1.361.888.8600

TBPE FIRM NO. F-3699

SHEET 06B OF 70 PORT OF CORPUS CHRISTI AUTHORITY



09-12-16 ADDENDUM NO. 2

09-12-1

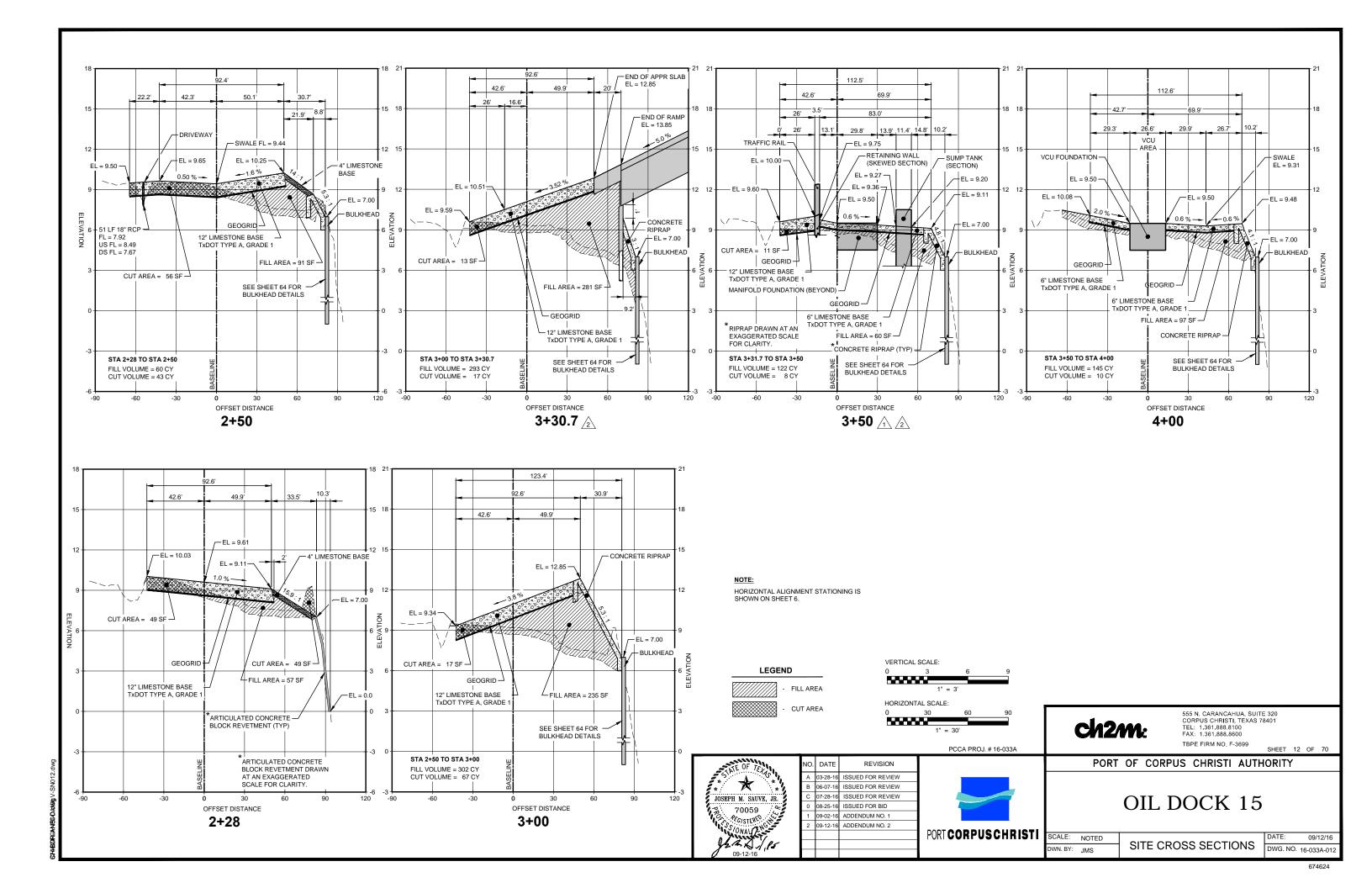
PCCA PROJ. # 16-033A

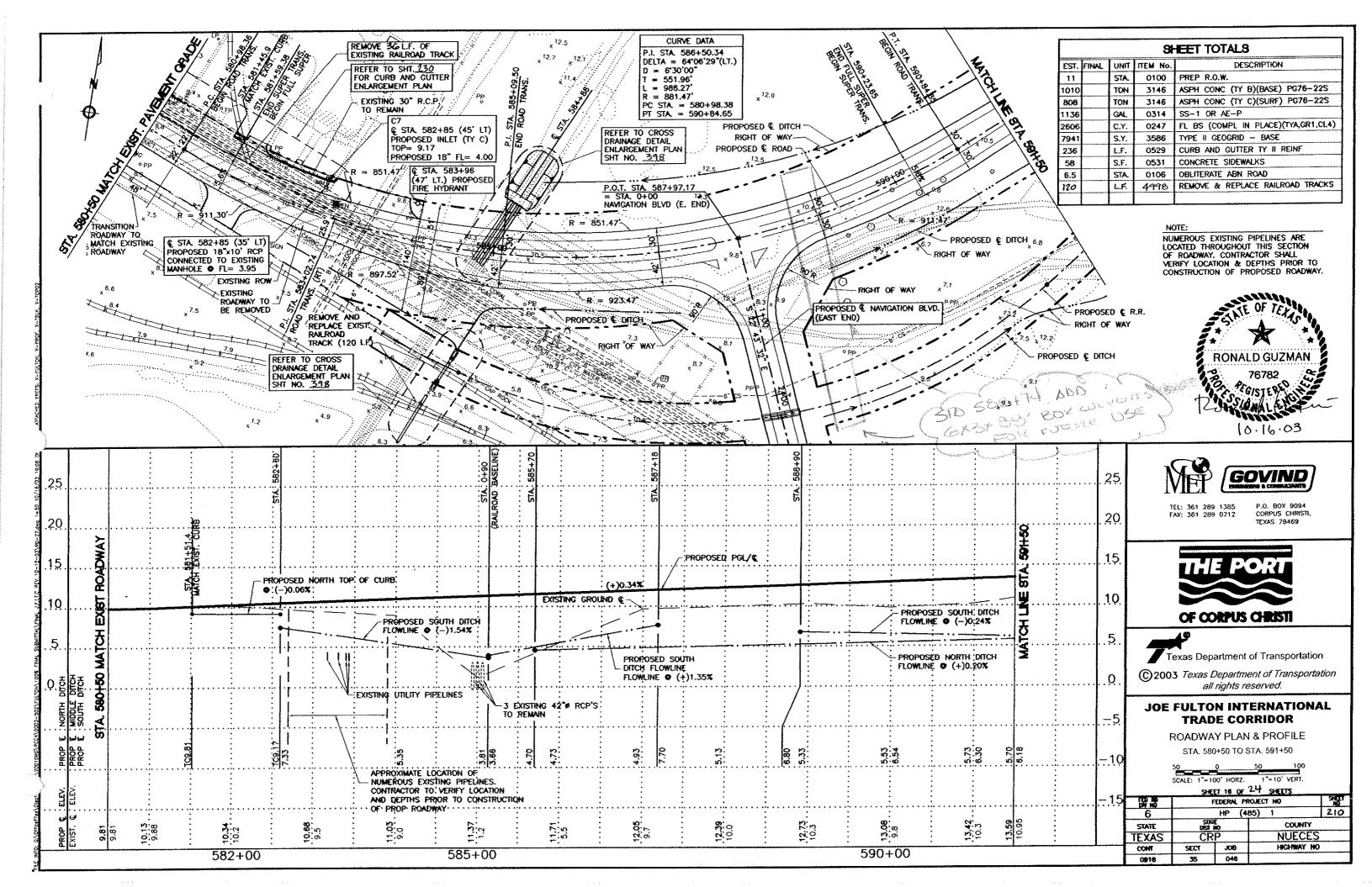
OIL DOCK 15

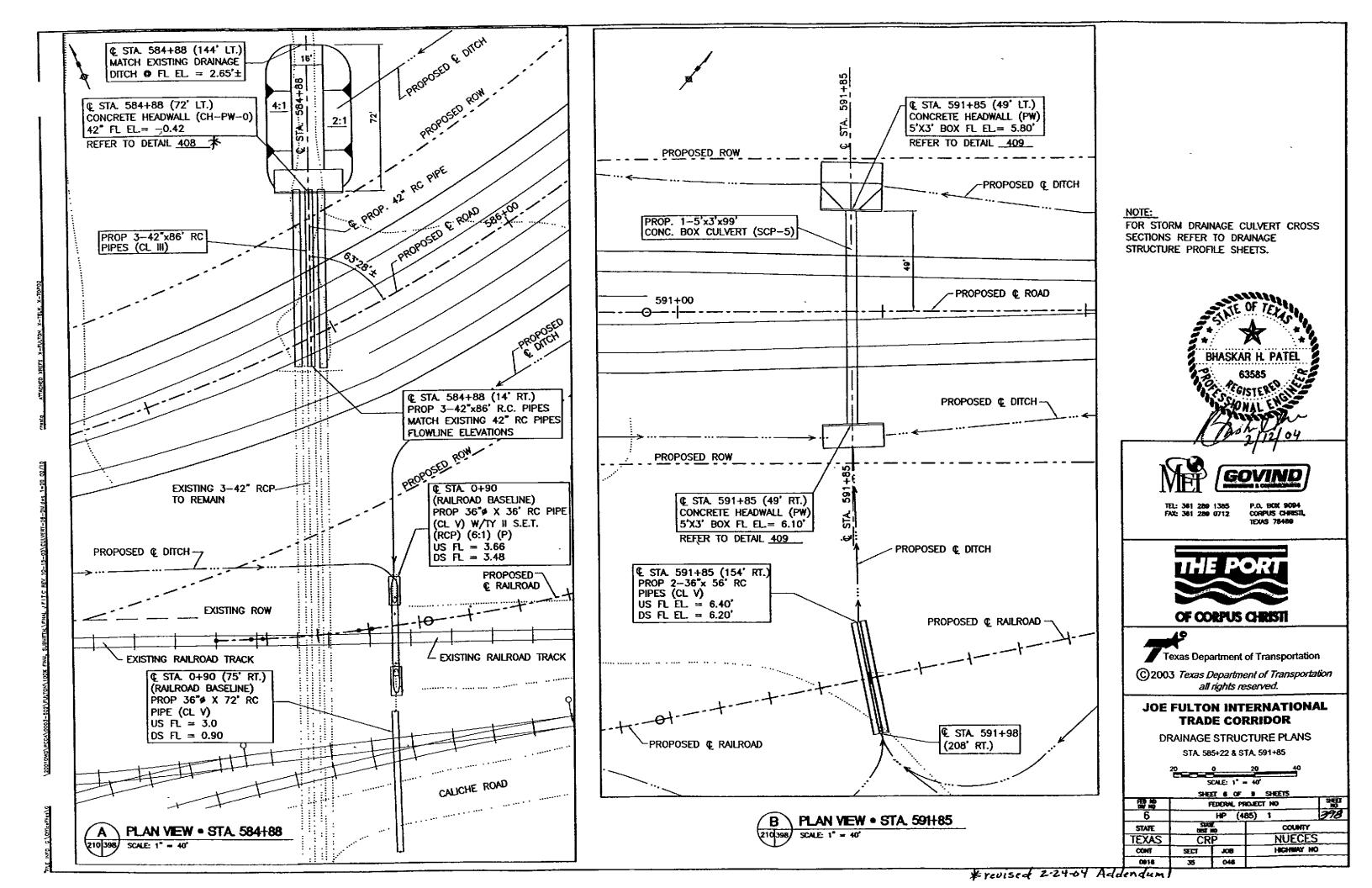
SCALE: NOTED **UTILITIES DETAILS** DWN. BY: JMS

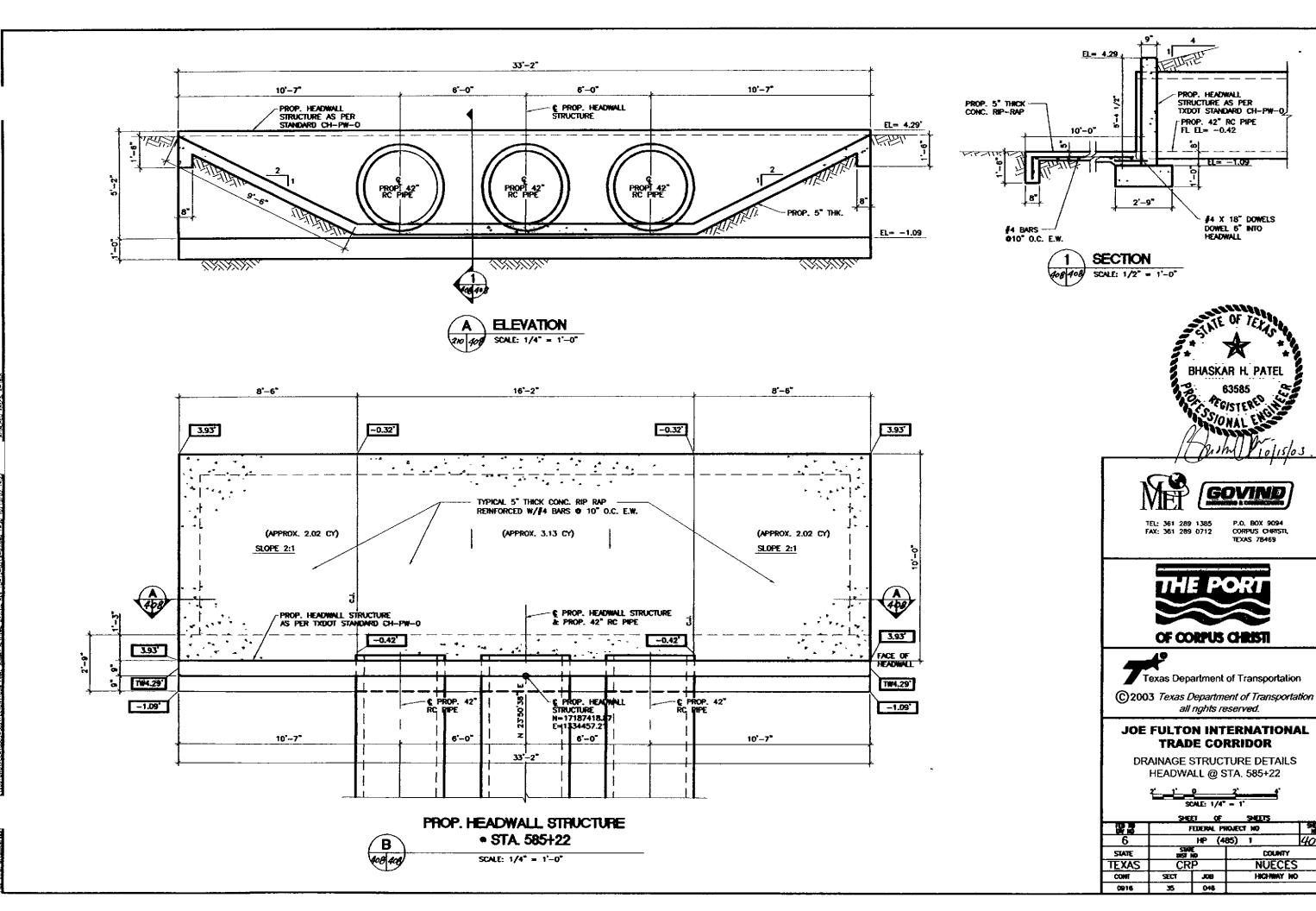
DATE: DWG. NO. 16-033A-06B

09/12/16









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Project No. 16-033A

September 15, 2016

#### TO ALL POTENTIAL BIDDERS

Subject: Addendum No. 4 for Construction of Oil Dock 15

Ladies/Gentlemen:

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## **NOTICE TO BIDDERS**

The time and date of the bid opening has been changed to **Tuesday**, 2:00 p.m., **September 27**, 2016.

# <u>VOLUME 1</u>-GENERAL CONTRACT DOCUMENTS, CIVIL, STRUCTURAL, AND DREDGING DRAWINGS AND TECHNICAL SPECIFICATIONS

#### **BID BREAKDOWN**

The Bid Breakdown has been reissued. <u>Bidders must submit this Revised Bid Breakdown</u> <u>with your Bid</u>. A revision has been made to item 3.1.19 Shoreline Revetment. See attached.

#### SPECIAL CONDITIONS

Section 1.24 "Construction Materials Testing Schedule" Add new footnote to bottom of existing table:



"Dynamic Pile Tests on two outer breasting dolphin piles shall be performed on the front row piles having a 1:12 batter."

## <u>DRAWINGS – VOLUME 1</u>

1. The following drawing sheets are reissued. See attached.

Drawing No. 06B - Utilities Details - Added Detail No. 2 "Typical Pipeline Crossing Details" illustrating pipe casing requirements.

Drawing No. 011 - Site Details - Added Callouts for TYM-HYD-B Gate Operator to Detail 1 "Sliding Gate Detail". Added new Detail No. 7 "Typical Gate Operator - Plan". Added new Detail No. 8 "Typical Gate Operator - Elevation" as well as new Section A "Section at Operator".

1. Drawing No. 012 – Site Cross Sections. Add new note:

#### "GENERAL NOTES:

1. Fill material shall be free of all organics and debris and consist of low expansive (inert) soil such as silty or sandy (lean) clay. Fill material shall have plasticity index (PI) between 7% and 17%. At least 20% of the material (by weight) shall pass the No. 200 sieve. The fill material shall not have any particles greater than 2 ½".

#### **GENERAL CLARIFICATIONS**

The following General Clarifications are provided in response to Bidder's questions. The clarifications provided below have been posted, in part or wholly, on the Port's EBID website, or have been generally discussed at the Pre-bid Conference, and are herein incorporated into the Contract Documents.

- 1. The EMCO Loading Arms should be flushed and cleaned per the same requirements as the incoming piping designated as Crude Oil service:
  - a. Hydrotest to 427 psig
  - b. Air dry free of gross liquids
  - c. Nitrogen Blanket piping to 20 psig until placed into service
- 2. The Sliding gate depicted on, Detail 1, Civil Site Details, calls for a "Rail Drive". The gates shall be gates shall be automated and the Operator shall be Tymetal Corp TYM-VS, with controls as follows:
  - a. Reversing Device (Loop Detector) Model PEEK 625X

- b. Digital Keypad (480 codes) Model AC-480
- c. Card Reader/Programming Deck (3500 Codes) Model 11-3500
- d. Proximity Card Reader Model 23-106
- e. Exterior 3 Button Station Model 3-BXT
- f. Radio Receiver Model R-3028
- g. Radio Transmitter Model R-4120

Equipment shall be as noted above or Engineer approved equal.

- 3. The mix design requirements in Technical Specification Section 03 30 00 "Cast-In-Place Concrete" are also to be applied to all pre-cast mix designs.
- 4. The following are the hydrotest, drying, preservation, and testing requirements for each piping system:

# CO (Crude Oil Supply)

- Hydrotest to 427 psig
- Air dry free of gross liquids
- Nitrogen Blanket piping to 20 psig until placed into service

HC (Hydrocarbon Liquids – Miscellaneous)

- Hydrotest to 427 psig
- Air dry free of gross liquids
- Nitrogen Blanket piping to 20 psig until placed into service

## HCV (Hydrocarbon Vapor)

- Hydrotest to 427 psig
- Air dry free of gross liquids
- Nitrogen Blanket piping to 20 psig until placed into service

## DR (Drain Piping – Hydrocarbon service)

- Hydrotest to 427 psig
- Air dry free of gross liquids
- Nitrogen Blanket piping to 20 psig until placed into service

## NG (Natural Gas)

- Hydrotest to 427 psig
- Air dry free of gross liquids
- Nitrogen Blanket piping to 20 psig until placed into service

#### IA (Instrument Air)

- Service test with Air at 125 psig
- Air dry free of gross liquids

## DW (Drinking / Potable Water)

• Service Test with Potable Water at City Supply Pressure

Project No. 16-033A Addendum No. 4

• System Flush free of contaminants until Potable water quality is verified by sampling/testing.

Sincerely,

Natasha E. Fudge, P.E. Capital Program Manager



NEF/clh

Enclosures

Cc: Sean Strawbridge

David L. Krams Sarah Garza

David L. Michaelsen

**Brett Flint** 

Sonya Lopez-Sosa

_	(Company	Name)
- 1	Company	rume,

## BID BREAKDOWN SHEET CONSTRUCTION OF OIL DOCK 15 PORT OF CORPUS CHRISTI AUTHORITY

#### BREAKDOWN OF BID PRICES

This breakdown is a part of the Contract Documents and is designed to help the PCCA evaluate the bids to detect possible errors or omissions and to establish values for the individual items of work so that modifications to the contract can be more easily resolved. Please fill out the items listed below so that the total matches the prices shown on the bid. The bidder is invited to include his own estimates if he so chooses.

	Description	Design Quantity	Bidder's Quantity	Unit Amount	Total Amount
BASE B	SID - OIL DOCK				
ITEM N	NO. 1 - GENERAL				
1.1	Mobilization/Demobilization (excluding dredging)	1 LS		\$	\$
1.2	Bonds and Insurance	1 LS		\$	\$
ITEM N 2.1 Site	NO. 2 - GENERAL CIVIL & SI work	FE IMPROVE	MENTS / ME	CHANICAL & ELI	ECTRICAL
2.1.01	Best Management				
	Practices/StormWater				
	Pollution Prevention Plan				
	implementation and monitoring	1 LS		\$	\$
2.1.02	Site Demolition and Clearing	1 LS		\$	\$
2.1.03	Access Driveways with			· -	<u> </u>
	Culverts	1 LS		\$	\$
2.1.04	14-inch diameter pipe pile				
	foundation system for Vapor				
	Control Unit Skid & Stack/	2720 15		ф	ф
2105	Skid Blower	2,730 LF		\$	<u>\$</u>
2.1.05	Foundations for AEP Transformer, Cabke Tray,				
	Air Compressor, Lighting	1 LS			

		Design	Bidder's	Unit	Total
	Description	Quantity	Quantity	Amount	Amount
2.1.06	Foundation for Electrical				
	Building	1 LS			
2.1.07	Concrete Riprap	94 CY		\$	<u>\$</u>
2.1.08	Approach Slab	30 CY		\$	<u>\$</u>
2.1.09	Concrete Retaining Wall w/				
	Traffic Rail	88 LF		\$	<b>\$</b>
2.1.10	Concrete Abutment and				
	Wingwall	1 EA		\$	\$
2.1.11	Parking/Backland Areas w/				
	Limestone Base	4,775 SY		\$	\$
2.1.12	Pipe Rack Supports Concrete		•		
	(PS-3, PS-4, PS-5, & PS-6)	28 CY		\$	\$
2.1.13	Structural Steel for Pipe				_
	Rack Supports (PS-3, PS-4,				
	PS-5, &PS-6)	1 LS		\$	\$
2.1.14	Security Improvements				
	(perimeter fencing and gates)	1 LS		\$	\$
2.1.15	Topsoil and Seeding	1 LS		\$	\$
2.2 Site	Utilities				
2.2.01	Power Distribution	1 LS		\$	\$
2.2.02	Electrical and Lighting	1 LS		\$	\$
2.2.03	Potable Water	1 LS		\$	<del>\$</del>
2.2.04	Firewater, Piping System and		•		
	Fire Monitors, and				
	Foundations	1 LS		\$	\$
2.2.05	Sump for Storage of Dock			<u>·</u>	<u> </u>
	Storm Water Runoff	1 EA		\$	\$
2.2.06	Connections and Tie-in to			т	
_,_,	City water, firewater, and gas				
	systems	1 EA		\$	\$
				Ψ	<u> </u>
2.3 Mec	hanical / Electrical / Instrumen	tation			
2.3.01	Air Compressor with air				
<i>□.</i> ∪.∪1	dryer, filters, auto drain tank,				
	rain canopy and oil water				
	separator mounted on 120				
	gallon tank, with back-up				
	compressor)	2 LS		\$	\$
2.3.02	30-inch diameter carbon steel				
	pipe with appurtenances	6 LF		\$	\$
•			-		<del>_</del>

		Design	Bidder's	Unit	Total
	Description	Quantity	Quantity	Amount	Amount
2.3.03	24-inch diameter carbon steel	212 7 7		ф	ф
	pipe with appurtenances	212 LF		\$	
2.3.04	16-inch diameter carbon steel			Φ.	Φ.
	pipe with appurtenances	155 LF		\$	
2.3.05	14-inch diameter carbon steel				
	pipe with appurtenances	5 LF		\$	
2.3.06	12-inch diameter carbon steel				
	pipe with appurtenances	21 LF		\$	
2.3.07	8-inch diameter carbon steel				
	pipe with appurtenances	19 LF	-	\$	<u> </u>
2.3.08	6-inch diameter carbon steel				
-	pipe with appurtenances	16 LF		\$	<u> </u>
2.3.09	4-inch diameter carbon steel				
	pipe with appurtenances	24 LF		\$	<u> </u>
2.3.10	3-inch diameter carbon steel				
	pipe with appurtenances	359 LF		\$	\$
2.3.11	2-inch diameter carbon steel				
	pipe with appurtenances	970 LF		\$	\$
2.3.12	1-inch diameter carbon steel			-	
	pipe with appurtenances	56 LF		\$	\$
2.3.13	3/4-inch diameter carbon				
	steel pipe with appurtenances	57 LF		\$	\$
2.3.14	1/2-inch diameter carbon				_
	steel pipe with appurtenances	11 LF		\$	\$
2.3.15	Pig Launcer/Receiver	1 LS		\$	<del>\$</del>
2.3.16	Pumps / Control Valves	1 LS	-	\$	<u>\$</u>
2.3.17	Sleeper Tees (pipe supports)	1 LS		<u>\$</u>	<del>\$</del>
2.3.18	Electrical and misc. site			*	<del>_</del>
2.0.10	support work	1 LS		\$	\$
2.3.19	Commissioning, Testing and			Ψ	
2.3.17	Integration, and Start Up				
	Costs	1 1 0		¢	¢
2 2 20	Scaffolding and temporary	1 LS		Ψ	
2.3.20	work structures.	1 10		¢	¢
2 2 21		1 LS		- <del>\$</del>	
2.3.21	New Electrical Building	1 LS		\$	<u> </u>
2.4 Own	ner-Furnished Items				
2.4.01	Unload and Install New				
<b>∠.</b> ∓.U1	Loading Arms (Owner				
	supplied loading arms)	1 10		¢	¢
	supplied loading arms)	1 LS		<u>Φ</u>	<u> </u>

	Description	Design Quantity	Bidder's Quantity	Unit Amount	Total Amount
2.4.02	Transport and Reinstall Existing Dock Safety Unit (Owner supplied Dock Safety Unit)	1 LS		\$	<b>\$</b>
2.4.03	Install Vapor Combustion Unit (VCU) (Owner supplied VCU) and instrumentation	1 LS		\$	\$
2.4.04	Relocate Exist dock house and affix to dock	1 LS		\$	<u>\$</u>
ITEM N	O. 3 - DOCK FACILITIES				
	k Components				
3.1.01	Bent # 1 - Approachway Abutment Piling (30-inch diameter. Steel)	190 LF		\$	\$
3.1.02	Bent # 1 - Approachway Abutment Cap (concrete)	9 CY		\$	<b>\$</b>
3.1.03	Bent #2 - Approachway Piling (36-inch diameter. Steel w/HDPE Sleeve)	340 LF		\$	<b>\$</b>
3.1.04	Bent #2 - Approachway Concrete Cap	14 CY		\$	<u> </u>
3.1.05	Bents # 1 &# 2 Box Beams</td><td>400 LF</td><td></td><td>\$</td><td><u>                                     </u></td></tr><tr><td>3.1.06</td><td>Approachway Topping Slab</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(Concrete)</td><td>34 CY</td><td></td><td>\$</td><td><u>\$</u></td></tr><tr><td>3.1.07</td><td>Ty T221 Traffic Rail</td><td>250 LF</td><td></td><td>\$</td><td></td></tr><tr><td>3.1.08</td><td>Pipe Piling for Dock Bent #1 (30-inch diameter Steel w/HDPE Sleeve)</td><td>1,512 LF</td><td></td><td>\$</td><td>\$</td></tr><tr><td>3.1.09</td><td>Pipe Piling for Approachway, Dock, Steel Platform, & Pipe Supports (24-inch diameter Steel w/HDPE Sleeve)</td><td>2,854 LF</td><td>-</td><td>•</td><td>φ \$</td></tr><tr><td>3.1.10</td><td>Pilecaps for Dock (concrete)</td><td></td><td></td><td>- <del>\$</del> \$</td><td>_</td></tr><tr><td>3.1.10</td><td>Steel Grate Platform Pilecaps</td><td>145 CY 65 CY</td><td>-</td><td>- \$</td><td><u>                                     </u></td></tr><tr><td>3.1.12</td><td>Dock Precast Deck Panels</td><td>2,675 LF</td><td></td><td>- <del>\$</del></td><td><del>\$</del></td></tr><tr><td>3.1.13</td><td>Dock Surface (concrete)</td><td>70 CY</td><td></td><td>\$</td><td><u>                                     </u></td></tr></tbody></table>				

	Decemention	Design	Bidder's	Unit Amount	Total Amount
2 1 14	Description Steel Grate Platform for	Quantity	Quantity	Amount	Amount
3.1.14	Dock Safety Unit	1,140 SF		\$	\$
3.1.15	Marine Pipe rack Supports Conc (PS-1, PS-2)	1 LS		<b>\$</b>	<b>\$</b>
3.1.16	Structural Steel Supports for Dock Safety Unit Platform	1 LS		\$	<u> </u>
3.1.17	Standard Pipe Ladder (Outer Breasting Structures)	2 EA		•	<del>*</del> \$
3.1.18	Shoreline Bulkhead	222 LF		<del>\$</del>	<del>\$</del>
3.1.19	Shoreline Revetment	4,780 SF		• <del>\$</del>	<del>-</del> <del>\$</del>
3.1.20	Catwalks	324 LF		\$	\$
3.2.01 3.2.02 3.2.03	Inner Breasting Structures Outer Breasting Structures Mooring Structures	2 EA 2 EA 4 EA		=	\$ \$ \$
3.2.04	Fenders	4 EA		\$	<del>\$</del>
3.2.05	Furnish spare Fender and Panel (delivered, not			· <u>·</u>	
	installed)	2 EA		\$	\$
3.2.06	Quick Release Hooks	12 EA		\$	<b>\$</b>
3.2.07	Powered Capstans	4 EA		\$	\$
ITEM N	O. 4 - DREDGING / EARTHV	VORKS			
4.1	Dredge Mobilization / Demobilization	1 EA		\$	\$
4.2	Dredge Pipeline Installation and Maintenance and Dredge Material Placement Area				
	Maintenance	1 LS		\$	\$
4.3	Dredging 750 Foot Slip	76,260 CY			_
	<b>Total Base Bid</b>				\$
A DDITI	VE BID ITEM 1 -TWO ADDI	TIONAI MON	JODII E MOO	DINC CTDUCTU	DEC
ADDITI A1.1	Mooring Structures	TIONAL MON		AMIG SINUCIUN	<b>L</b> O
A1.1	(concrete)	2 EA		\$	\$
A1.2	Quick Release Hooks	$\frac{2 \text{ EA}}{2 \text{ EA}}$		• <del>\$</del>	<u></u> \$
			-	· ·	<u> </u>

		Design	Bidder's	Unit	Total
	Description	Quantity	Quantity	Amount	Amount
A1.3	Catwalks	44 LF		\$	\$
	Total Amount - Additive Bid	Item 1			\$
ADDIT	IVE BID ITEM 2 - BARGE AC	CESS AND FE	NDER SYSTI	E <b>M</b>	
A2.1	Barge Access Stairs	1 LS	1,021,0101	\$	\$
A2.2	Dock Platform Fendering		•	•	
112.2	System (Barge)	83 LF		\$	\$
A2.3	Safety Ladders for Barge		•	Ψ	Ψ
11210	Fender System	2 EA		\$	\$
A2.4	Swing down Gangway and		-		
112.	Gangway Support	1 EA		\$	\$
	Total Amount - Additive Bid				<del>-</del> \$
	Total Illiount Tuditive Bid	100m <b>2</b>			·
ADDIT	IVE BID ITEM 3 - EXPANSIO	N TO AN 1 100	FOOT SLIP		
A3.1	Dredge Pipeline Installation	10 11 1,100	or our sen		
713.1	and Maintenance and Dredge				
	Material Placement Area				
	Maintenance	1 LS		\$	\$
A3.2	Additional Dredging to		-	· -	<u> </u>
	extend to 1100 foot slip	32,085 CY		\$	\$
	Total Amount - Additive Bid			· ·	\$
	100011111100110 110011110 210				
ADDIT	IVE BID ITEM 4 - ALTERNAT	TE DREDGE V	IATERIAL P	LACEMENT AREA	4
A4.1	Additional cost for disposal				•
717.1	of dredge material in DMPA				
	Cell B	1 LS		\$	\$
	Total Amount - Additive Bid		-	Ψ	— <del>•</del>
	Total Amount - Additive blu	item 4			φ
ADDIE					
	IVE BID ITEM 5 - DREDGING	GUNIT COST	ADJUSTMEN	T	
A5.1	Overdepth Dredging between				
	-47 foot MLT and -49 foot				
	MLT above and beyond Base				
	Bid and Additive Bid Item 3, if awarded	11 001 CV		¢	¢
		11,081 CY		Ψ	_
	<b>Total Amount - Additive Bid</b>	nem 5			Φ

## LIST OF SUBCONTRACTORS AND SUPPLIERS

Please list all intended subcontractors an	nd major suppliers below. The bidder awarded the contract
Material Item:	Name of Suppler:
Concrete	
Reinforcing Steel	
Precast Concrete	
Steel Piling	
Mooring Hooks and Capstans	
Concrete Piling	
Structural Steel	
Fenders	
Electrical System	
Piping/Mechanical	
Instrument System	
Subcontractors: (If Any)	

The preceding design quantities are approximate and are not guaranteed. Bidders will prepare their own estimate of work and bid accordingly. Bidders will indicate their own estimate of work under the column labeled "Bidder's Quantity" and calculate the "Total Amount" based on same. If this column is left blank, the bidder will be deemed to be in agreement with the design quantities and no adjustment in contract price will be made for variance.

