

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE OF PAGES 1
 2. AMENDMENT/MODIFICATION NO. 0006 3. EFFECTIVE DATE 6 August 2003 4. REQUISITION/PURCHASE REQ. NO. _____ 5. PROJECT NO. (If applicable) _____
 6. ISSUED BY _____ CODE DACW17 7. ADMINISTERED BY (If other than Item 6) _____ CODE _____

USA ENGINEER DISTRICT, JACKSONVILLE
 PRUDENTIAL OFFICE BLDG
 701 SAN MARCO BLVD., CESAJ-CT-E
 JACKSONVILLE, FL 32207
 KATHIE DUKE 904-232-3713 OR 561-626-7324

SOUTH FLORIDA AREA OFFICE
 4400 PGA BOULEVARD
 SUITE 203
 PALM BEACH GARDEN, FLORIDA 33410

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) _____
 (✓) 9A. AMENDMENT OF SOLICITATION NO. DACW17-03-R-0012
 ✗ 9B. DATED (SEE ITEM 11) 6 June 2003
 10A. MODIFICATION OF CONTRACTS/ORDER NO. _____
 10B. DATED (SEE ITEM 13) _____
 CODE _____ FACILITY CODE _____

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers _____ is extended, is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

CENTRAL AND SOUTHERN FLORIDA ECOSYSTEM, CRITICAL RESTORATION PROJECT, WESTERN C-11 BASIN, PHASE 2, SPILLWAY 381, BROWARD COUNTY, FLORIDA

Any enclosures accompanying this amendment should be inserted in the plans and/or specifications as applicable. All superseded materials should be removed or adequately marked to indicate that they have been superseded.

PROPOSAL DUE DATE IS BEING EXTENDED TO 22 AUGUST 2003, 4:00 PM.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) _____ 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) _____
 15B. CONTRACTOR/OFFEROR _____ 15C. DATE SIGNED _____ 16B. UNITED STATES OF AMERICA _____ 16C. DATE SIGNED _____
 (Signature of person authorized to sign) _____ BY _____ (Signature of Contracting Officer)

SF 30 CONTINUATION SHEET

Central and Southern Florida Ecosystem Critical Restoration Project, Western C-11 Basin, Phase 2 Spillway 381.

DESCRIPTIVE CHANGES TO SPECIFICATIONS: The following are descriptive changes to the specifications. Specifications should be adequately marked to indicate that they have been changed.

1. Asterisks appear before and after the line or lines where revisions have been made to the text on the enclosed revised pages and pertain only to the changes made by this amendment except where the reverse side of a page has been previously amended; however, these can be identified by the amendment number opposite the page number at the bottom of each page.
2. Some specification revisions include additions with underlined text or deletions with line/cross-outs.
3. The text changes may have necessitated reformatting of subsequent text or pages. If this is the case, those pages have also been issued as amended pages but are not marked with asterisks, underlining or line/cross-outs.

SECTION 00010 (SF 1442):

- a. **Remove** the old Section 00010 and **replace** it with the new Section 00010.

SECTION 00010A:

- a. **Remove** the old Section 00010A and **replace** it with the new Section 00010A.

SECTION 01000:

- a. On page 17, paragraph 1.17.3, **add** the following to the list of office equipment: "2 - Telephone lines, one for voice and one for Fax."

SECTION 01270:

- a. **Remove** the old Section 01270 and **replace** it with the new Section 01270.

SECTION 13020:

- a. **Remove** the old Section 13020 and **replace** it with the new Section 13020.

DESCRIPTIVE CHANGES TO THE DRAWINGS: The following are descriptive changes to the drawings. Drawings should be adequately marked to indicate that they have been changed.

ALL DRAWINGS (excluding cover):

- a. On the right border of each drawing, in the block labeled "Inv. No.", **change** "DACW17-XX-X-XXXX" to "DACW17-03-R-0012".

DRAWING 1/4:

- a. **Remove** the old drawing 1/4 and **replace** it with the new drawing 1/4. The old drawing 1/4 has a plotting irregularity that has been corrected on the new one.

-End of Changes-

SOLICITATION, OFFER, AND AWARD (Construction, Alteration, or Repair)	1. SOLICITATION NO. DACW17-03-R-0012	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 6 JUNE 2003	PAGE OF PAGES
	IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.			

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.	6. PROJECT NO.
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7. ISSUED BY CODE DACW17 USA ENGINEER DISTRICT, JACKSONVILLE PRUDENTIAL OFFICE BLDG 701 SAN MARCO BLVD CESAJ-CT JACKSONVILLE, FL 32207-8175	8. ADDRESS OFFER TO SEE ITEM 7
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9. FOR INFORMATION CALL:	A. NAME KATHIE B. DUKE	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 904-232-3713 OR 561-626-7324
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date):

CENTRAL AND SOUTHERN FLORIDA ECOSYSTEM CRITICAL RESTORATION PROJECT, WESTERN C-11 BASIN, PHASE 2 SPILLWAY 381, BROWARD COUNTY, FLORIDA

DRAWINGS: D.O. FILE 400-38.333, DATED AUGUST 2002 IN 68 SHEETS PLUS COVER.

MAGNITUDE OF CONSTRUCTION IS BETWEEN \$1,000,000.00 AND \$5,000,000.00

DESCRIPTION OF WORK: The project will involve construction of a three-bay Obermeyer Hydro, Inc. gated spillway with needle dams and service bridge, intake and discharge basins and control house with an Onan Liquid Propane Gas (LPG)-driven generator for backup power. Site work includes paving, fencing, graded and sodded areas, bypass canal, access roadways and disposal area. Electrical work includes services for the gates and communication equipment.

THIS IS AN UNRESTRICTED SOLICITATION BEING ADVERTISED UNDER THE COMPETITIVENESS DEMONSTRATION PROGRAM. ALL BUSINESSES ARE ENCOURAGED TO PARTICIPATE.

YOU MUST BE REGISTERED IN THE CENTRAL CONTRACTOR REGISTRATION IN ORDER TO BE ELIGIBLE TO RECEIVE AN AWARD FROM THIS SOLICITATION. CALL 1-888-227-2423 FOR INFORMATION.

11. The Contractor shall begin performance within 30 calendar days and complete it within 410 calendar days after receiving award, notice to proceed. This performance period is mandatory, negotiable. (See _____)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 10
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and 1 copies to perform the work required are due at the place specified in Item 8 by 1600 (hqr) local time 22 Aug 2003 (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee is, is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)	15. TELEPHONE NO. (Include area code)
CODE	16. REMITTANCE ADDRESS (Include only if different than Item 14)
FACILITY CODE	

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D).

AMOUNTS

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS
(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.	DATE								

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>	20B. SIGNATURE	20C. OFFER DATE
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AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
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24. SUBMIT INVOICES TO ADDRESS SHOWN IN <i>(4 Copies unless otherwise specified)</i>	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 10 U.S.C 2304(c) () <input type="checkbox"/> 41 U.S.C 253(c) ()
26. ADMINISTERED BY	27. PAYMENT WILL BE MADE BY
SOUTH FLORIDA AREA OFFICE 400 PGA BOULEVARD, SUITE 203 PALM BEACH GARDENS, FL 33410 PHONE 561-626-5299	USACE FINANCE CENTER 7800 THIRD AVE., CEFC-AO-P MILLINGTON, TN 38054-5005

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT <i>Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.</i>	<input type="checkbox"/> 29. AWARD <i>(Contractor is not required to sign this document.) Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.</i>
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN <i>(Type or print)</i>	31A. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>
30B. SIGNATURE	31B. UNITED STATES OF AMERICA
30C. DATE	BY
	31C. AWARD DATE

SECTION 00010A

LINE ITEMS AND PRICING SCHEDULE

WESTERN C-11 BASIN, PHASE 2, SPILLWAY 381

LINE ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
0001	EARTH WORK		LUMP SUM		\$ _____
0002	ROCK ANCHOR TESTING		LUMP SUM		\$ _____
0003	ROCK ANCHORS (EST. QUANTITY) (SEE NOTE 3)	750	FEET	\$ _____	\$ _____
0004	COFFERDAM		LUMP SUM		\$ _____
0005	SPILLWAY STRUCTURE		LUMP SUM		\$ _____
0006	OBERMEYER HYDRO, INC. PNEUMATIC GATE SYSTEM AND ALL ASSOCIATED EQUIPMENT AND FIELD PERSONNEL COSTS		LUMP SUM		<u>\$1,147,000.00</u>
0007	PREFABRICATED CONCRETE CONTROL BUILDING		LUMP SUM		\$ _____
0008	SHEETPILE (WINGWALLS)		LUMP SUM		\$ _____
0009	MECHANICAL		LUMP SUM		\$ _____
0010	ELECTRICAL UTILITIES		LUMP SUM		\$ _____
0011	SITE IMPROVEMENTS		LUMP SUM		\$ _____
0012	SIMULATED REPAIR OF OHI PNEUMATIC GATE SYSTEM		LUMP SUM		\$ _____
0013	FLORIDA POWER AND LIGHT SERVICE CONNECTION		LUMP SUM		<u>\$10,400.00</u>
* 0014	GENERATOR, ONAN MODEL NO. GNNA ^{GNA} , 60HZ.		LUMP SUM		<u>\$41,200.00</u> *
	TOTAL (LINE ITEMS 0001 THRU 0014)				\$ _____

- NOTES:
- (1) OFFERORS MUST OFFER ON ALL LINE ITEMS. SEE PROVISION AT 52.236-28 (SECTION 00100).
 - (2) SEE SECTION 00100, "INSTRUCTIONS TO OFFERORS".
 - (3) LENGTH BELOW TREMIE SLAB SEAL

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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

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- 1.1.2 Rock Anchor Testing (Line Item 0002)
- 1.1.3 Cofferdam (Line Item 0004)
- 1.1.4 Spillway Structure (Line Item 0005)
- 1.1.5 Obermeyer Hydro, Inc. (OHI) Pneumatic Gate System and All Associated Equipment and Field Personnel Costs (Line Item 0006)
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- 1.2.1 Rock Anchors (Line Item 0003)
 - 1.2.1.1 Payment
 - 1.2.1.2 Measurement
 - 1.2.1.3 Unit of Measure

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section Table of Contents --

SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.1.1 Earth Work (Line Item 0001)

Payment will be made for costs associated with blasting, clearing and grubbing, excavation for new diversion canal, temporary riprap, spoil removal/disposal, site dewatering, earthen work platform and removal of existing earthen work platform.

1.1.2 Rock Anchor Testing (Line Item 0002)

Payment will be made for costs associated with the performance of two rock anchor tests. Payment shall cover all costs of furnishing, installing and testing anchors. Payment shall also include removal of test anchors to EL -17.0.

1.1.3 Cofferdam (Line Item 0004)

Payment will be made for costs associated with cofferdam systems; including but not necessarily limited to, excavation, furnishing and installing sheet piling, concrete tremie seal, walens, struts, safety handrails, stairs, and other miscellaneous items required to complete sheet piling cofferdam. Payment shall cover all costs of furnishing, handling, storing and installing piling including placing, driving, and other materials and work incident thereto.

1.1.4 Spillway Structure (Line Item 0005)

Payment will be made for costs associated with the construction of the spillway structure, including but not necessarily limited to, dewatering, reinforced concrete foundation slab, reinforced concrete abutment walls, reinforced concrete interior piers, reinforced concrete bridge, needles and needle beams to enable dewatering of one bay and all costs associated with

the installation of OHI supplied equipment.

1.1.5 Obermeyer Hydro, Inc. (OHI) Pneumatic Gate System and All Associated Equipment and Field Personnel Costs (Line Item 0006)

* Payment will be made for costs associated with furnishing of the OHI pneumatic gate system, including but not necessarily limited to stainless steel gates, bladders and associated mounting hardware, gate inclinometers, and building equipment including air control cabinet, two (2) compressors, air dryer and air storage tank (See attached OHI Quotation Sheet at the end of Section 13020). The costs of all OHI provided equipment, and field personnel costs including installation, testing and training shall be presented as a lump sum on the LINE ITEMS AND PRICING SCHEDULE. This is an agreed upon amount from OHI. ~~The contractor will be reimbursed based on receipt of a valid, paid invoice.~~ The Contractor will be reimbursed the agreed upon amount plus any applicable sales tax on receipt of a valid, paid invoice. ~~The~~ The OHI Field Representative shall be present during the installation and testing of the pneumatic gate system. The OHI Field Representative shall also instruct the Owner's personnel on the operation of the gate system and be present during the simulated gate repair including removal/replacement of one bladder. *

1.1.6 Pre-Fabricated Concrete Control Building (Line Item 0007)

Payment will be made for costs associated with furnishing and installing aggregate and limerock base, pre-fabricated concrete building, concrete sidewalks and ramp, door frames, louvers and other inserts, doors and hardware and exhaust fans.

1.1.7 Sheet Pile (Wingwalls) (Line Item 0008)

Payment will be made for costs associated with furnishing and installing of coated steel sheet pile wingwalls, tie-back anchors, reinforced pile cap, and required compacted backfill material. Payment shall cover all cost of furnishing, handling, storing and installing steel sheet piles, and other materials and work incident thereto, removal of cofferdam and placement and compaction of backfill. Miscellaneous materials needed for complete installation shall be considered incidental and separate payment will not be made.

1.1.8 Mechanical (Line Item 0009)

Payment will be made for costs associated with completing the mechanical work including furnishing and installing LP gas tank, piping and foundation, and pneumatic piping and fittings for Obermeyer Hydro, Inc. gate system.

1.1.9 Electrical Utilities (Line Item 0010)

Payment will be made for costs associated with furnishing and installing electrical utilities, including buried conduit and conductors, lighting (warning signs and site), embedded (in concrete) conduit, conductors, electrical panels, disconnects, interior lighting, electrical generator appurtenances, grounding, and antenna and pole.

1.1.10 Site Improvements (Line Item 0011)

Payment will be made for costs associated with furnishing and for installation of railings atop walls, grading and drainage, reinforced concrete approach slabs, stabilized sub-base, limerock base, bituminous pavement, hydro-seeding, two (2) stilling wells, permanent riprap, chain link perimeter fencing and gates, two (2) staff gages, four (4) warning sign support structures.

1.1.11 Simulated Repair of OHI Pneumatic Gate System (Line Item 0012)

Payment will be made for costs associated with the installation of needle beams and needles, dewatering one bay, and removal/replacement of one bladder in the middle bay. This will occur after acceptance of the OHI pneumatic gate system including all equipment in the pre-fabricated concrete control building. SFWMD personnel shall be present during the simulated repair operation.

1.1.12 Florida Power and Light Service Connection (Line Item 0013)

Payment will be made for Florida Power and Light (FPL) Service Connection based on the receipt of a valid, paid FPL invoice. The amount on the LINE ITEMS AND PRICING SCHEDULE is an estimate. Contractor is responsible for all coordination with FPL to provide the necessary power to the facility.

* 1.1.13 Generator, Onan Model No. ~~GNNA~~GNANAA, 60 Hz. (Line Item 0014) *

Payment will be made only for costs associated with furnishing the generator set and will be based on the receipt of a valid, paid Onan invoice. The amount on the LINE ITEMS AND PRICING SCHEDULE is an estimate.

1.2 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, turbidity monitoring, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.2.1 Rock Anchors (Line Item 0003)

1.2.1.1 Payment

Payment will be made for costs associated with furnishing all plant, labor, materials and equipment and performing all operations necessary for the installation of rock anchors.

1.2.1.2 Measurement

Rock anchors will be measured for payment based on the actual installed

linear footage of rock anchors installed below the bottom of the tremie concrete seal (EL -24.0).

1.2.1.3 Unit of Measure

Unit of measure: feet.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section --

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DIVISION 13 - SPECIAL CONSTRUCTION

SECTION 13020

OBERMEYER HYDRO, INC. PNEUMATIC SPILLWAY GATE SYSTEM

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- 1.3 Submittals
- 1.4 Description
- 1.5 Performance Criteria
 - 1.5.1 System Air Pressure
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 - 3.1.1 OHI Field Representative
- 3.2 Installation Criteria
 - 3.2.1 Dimensional Tolerance
 - 3.2.2 Torque Settings
- 3.3 Field Testing
- 3.4 Acceptance
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- 3.6 Obermeyer Hydro Project Quotation Sheet

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SECTION 13020

OBERMEYER HYDRO, INC. PNEUMATIC SPILLWAY GATE SYSTEM

PART 1 GENERAL

1.1 Reference

Contract Drawings, Specifications and General Provisions of the Contract apply to this work.

1.2 Datum

All elevations are in feet and refer to the National Geodetic Vertical Datum.

1.3 Submittals

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Detail drawings for gate panels including fabricated sections shall show complete gate panel details and installation sequence and location of installed gate panels. Detail drawings shall provide details of the method of handling and placing gate panels including lift points to prevent damage to gate panel coating and to prevent permanent defects or distortion of gate panels.

SD-06 Test Reports; G

Certified materials test reports showing that gate material, bolts, clamps, pneumatic bladders, and other appurtenant materials meet the specified requirements, shall be submitted for each shipment and identified with specific lots prior to installation. Test reports for performance testing of the complete pneumatic gate system shall be submitted.

SD-13 Certificates

The contractor shall provide certification that the complete pneumatic spillway gate systems and all individual components and subsystems were installed and tested in accordance with the specifications. The Contractor shall provide a certificate that states the performance criteria for the pneumatic spillway gate system is in accordance with the plans and specifications.

SD-10 Operation and Maintenance Data

Contractor shall provide operation and maintenance manuals giving complete instructions outlining the step-by-step procedures for system startup, operation, and shutdown inspection, testing, and maintenance, including equipment malfunction checklists. Maintenance manuals shall list routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guides. The manuals shall include system layout, equipment layout, pneumatic schematic, wiring diagrams and control diagrams as installed. The manuals shall include the manufacturer's name, model number, parts list and brief description of all equipment and their basic operating features. Manufacturer's bulletins, cut-sheets and descriptive data, parts lists, exploded diagrams, and recommended spare parts, address and telephone numbers of suppliers and current unit price of parts. Manuals shall be submitted within 20 days from the installation of equipment, but not later than 20 days prior to the field training. Each set shall be looseleaf bound and shall have a hard cover with the following identification labeled on the cover: the words Operating and Maintenance Instructions, name and location of the facility, name of the contractor, and contract number. Five (5) copies of printed manuals and five (5) copies of manuals on compact disk (CD) in pdf format shall be submitted. The manuals shall contain separate section for; (a) pneumatic spillway gate system including crest gates, pneumatic bladders, abutment plates, air piping and instrumentation and controls, moisture blowoffs, (b) compressor, drier and filters, (c) Step-by-step procedures for startup, operation, and shutdown, and (d) maintenance instructions for each piece of equipment.

1.4 Description

The contractor shall furnish, deliver, install and test-operate pneumatic gate system. Complete with all necessary materials as shown in the drawings and in the specifications. Fabrication, installation, materials, parts, equipment or other incidentals necessary to complete the work, even though not specifically indicated in the drawings or specified herein, shall be included.

1.5 Performance Criteria

1.5.1 System Air Pressure

The pneumatic control system shall be designed to operate the spillway gate system using air under a normal operating pressure of 17 psi and a maximum pressure of 25 psi. The pressure is limited by a 25 psig relief valve.

1.5.2 Inflate/Deflate Criteria

The spillway gates will be installed to fully inflate from the fully deflated position in 45 minutes or less and fully deflate from the fully inflated position in 30 minutes or less.

1.5.3 Air Control Cabinet Display

The air control cabinet shall display the position of each gate structure (two (2) indicators per bay). Display shall be calibrated to display gate elevation.

* 1.5.4 ~~Warrantee~~ Warranty

~~Contractor shall warrantee the pneumatic spillway gate system for 2 years. The warrantee covers parts and labor to repair/replace defective parts. Warrantee must be transferrable to the South Florida Water Management District. The Contractor shall provide a warranty for parts and labor for the pneumatic spillway gate system for 1 year from the date of acceptance by the COR in accordance with Specification section 00700, paragraph 52.246-21. The pneumatic spillway gate system manufacturer's warranty shall cover parts only for a period of two years and shall be transferable to the owner (SFWMD) at the end of the Contractor's 1 year construction warranty period.~~

*

1.5.5 Operating Temperature

The pneumatic gate system shall operate within an ambient temperature range of plus 120 degrees Fahrenheit to plus 32 degrees Fahrenheit.

PART 2 PRODUCTS

All OHI supplied equipment is shown on the plans. The electrical schematics for the OHI Control Cabinet is shown in Appendix A.

PART 3 EXECUTION

3.1 Installation

3.1.1 OHI Field Representative

An OHI field representative shall be on site for a minimum of thirteen (13) days. Cost for time in excess of thirteen (13) days is the Contractor's responsibility. The OHI field representative shall be onsite the site during the following operations:

To check main anchor bolt assembly and restraining strap anchor bolts prior to concrete placement.

Check abutment plate position and supporting form work prior to concrete placement.

Installation of gate panels, inclinometers, bladders, clamps and restraining straps.

Initial testing of gate system with portable air supply.

Connection of pneumatic piping and electrical wiring to OHI equipment in building.

Testing of completed OHI gate system and calibration.

Training of SFWMD personnel in the operation of the gate system.
Contractor shall allow two (2) days of the total thirteen (13) days of OHI field representative's time for training.

3.2 Installation Criteria

3.2.1 Dimensional Tolerance

The OHI equipment shown on the plans shall be installed to the following dimensional tolerances:

Main Anchor Bolt Assembly: +/- 1/16 in.
Restraining Strap Anchor Assembly: +/- 1/16 in.
Abutment Plate in plumb to within 0.05 in.:
Flat to within 0.05 in.
Seal contact welds (field) ground to within 1/32 in.
Seal contact plate to be co-planar or to within 1/16 in.
Seal contact area to be field sanded smooth with 120 grit sand paper as needed to remove concrete splatter and weld debris.

Bladder wedge embedded plate: 1/16 in.
Clamping sill embedded plate: 1/16 in.

3.2.2 Torque Settings

The OHI equipment shown in the plans shall be installed to the following torque settings:

Main Anchor Bolt Clamp Nut: 1500 ft.-lb.
Restraining Strap Anchor Bolt Nut: 500 ft.-lb.
Upper Restraining Strap Bolt: 500 ft.-lb.
Gate Panel Flange Bolt: 150 ft.-lb.
Interpanel Seal Retainer Nut: 150 ft.-lb.
Hinge Flap Retainer Nut: 150 ft.-lb.
Abutment Seal Retainer: 150 ft.-lb.
Nappe Breaker Bolt: 65 ft.-lb.

3.3 Field Testing

3.3.1 All air supply pipes shall be tested prior to covering with concrete, backfilled, or otherwise concealed.

3.3.2 The air piping between the gates and the air control cabinet shall be tested by pressurizing to 40 psi for 24-hours. Pressure readings and ambient air temperature shall be recorded at six different times during the test. Any joints or fittings exhibiting leakage during this time shall be repaired or replaced.

3.3.3 The air piping between the air control cabinet and high pressure equipment shall be tested by pressurizing to 150 psi for 24-hours. Pressure readings and ambient air temperature shall be recorded at six

different times during the test. Any joints or fittings exhibiting leakage during this time shall be repaired or replaced.

3.3.4 After installation of the gate system before removing the cofferdam the spillway gates shall be fully raised and lowered three times using a portable air supply. The gate shall operate smoothly with no binding.

3.3.5 After installation of the spillway gate system before moving the cofferdam, the air bladders shall be tested as follows. For the following tests, any bladders exhibiting leakage will be repaired by the Contractor at no cost to the Owner.

The air bladders shall be inflated to $\frac{1}{2}$ normal operating pressure. Normal operating pressure for the bladders is 17 psi. The gate system shall be isolated from the air supply system and held at pressure for 24 hours. Pressure and outside ambient temperature shall be recorded at the beginning and end of the test and at four different intervals during the test.

3.3.6 If any deficiencies are revealed during any test, such deficiencies shall be corrected and the tests reconducted.

3.3.7 The Contractor has sole responsibility for the equipment meeting all the requirements of these specifications and fulfilling all the Contractor's and Manufacturer's guarantees.

* 3.3.8 After the installation of the entire OHI spillway gate system and the system is connected to the permanent compressors and utilizing all of the OHI equipment in the control building including the OHI control cabinet and PLC with water flowing through each bay, the Contractor shall operate and test each gate in each bay to insure the controls raise, lower and stop each gate and that each gate's lower and raise time is satisfied. *

3.4 Acceptance

Upon successful completion of all tests and after all defects in installation, material, or operating system have been corrected; the pneumatic spillway gate and control system, piping, accessory items and equipment will be inspected by the Owner and if found to comply with the contract, they will be accepted and the Contractor will be furnished with written notice of such acceptance.

3.5 OHI Control Cabinet Schematics

See Appendix A at the end of this Section (13 pages).

* 3.6 Obermeyer Hydro Project Quotation Sheet

Obermeyer Hydro Project Quotation Sheet attached at the end of this section (see next page). *

OBERMEYER HYDRO, INC.

P.O. BOX 668 FT. COLLINS, COLORADO 80522 USA TEL 970-568-9844 FAX 970-568-9845
E-mail: hydro@obermeyerhydro.com WWW: <http://www.obermeyerhydro.com>

June 27, 2003

Project Quotation Sheet

Project: Western C-11 Basin Phase 2, Spillway 381
RFP DACW17-03-R-0012
Client: United States Army Corps of Engineers
South Florida Water Management District
Gate Size: 16.85'H x 30'L x 3-Gate Bays

Obermeyer Hydro, Inc. is pleased to issue this proposal for the supply of Obermeyer Water Control Gates for the upcoming S-381 Project in Fort Lauderdale, Florida. This quote is based on three sets of OHI gates with the above referenced dimensions. Obermeyer Hydro will supply the following components for this project:

Steel Package: Twelve, nominal 7'-6" wide stainless steel gate panels along with ductile iron clamp castings, stainless steel embeds, stainless steel hinge retainers, stainless steel web retainers, stainless steel splitters, ductile iron restraining strap clamps, and stainless steel end plates. All stainless steel components to be fabricated from AISI 304 stainless steel or approved equal. All ductile iron components to be sand blasted and hot dip galvanized in accordance with ASTM A123 and ASTM A153. Two 7'-6" gate panels will bolt together in the field to create a single 15' wide gate section.

Bladder Package: Six, nominal 15' wide four ply 1500/2/3 polyester reinforced dual chamber air bladders complete with fittings for connecting air bladder to contractor supplied air pipe.

Control System: One OHI model 10-3 control system package. System to be packaged in three stand alone Nema rated electrical cabinets. The first cabinet shall contain the plumbing and other mechanical hardware required for gate operation. The second cabinet shall contain the PLC and other required PLC related components. The third cabinet will contain push button operators for raising and lower each gate. The

first two cabinets shall be located in the control building. The third cabinet shall be located on a pier located adjacent to the gate system. The operator will interface with the PLC and gate system through a touch screen panel located on the front of the PLC cabinet. The touch screen shall include screens for operating each section of gate as well as read outs of gate panel position and air bladder pressure. System to be complete with (6) gate position sensors for measuring gate panel position, (3) air bladder pressure transducers for measuring air bladder pressure, and required switches for alarm functions. Package to be factory assembled and shall include terminal blocks for connecting controls into owners SCADA system.

Air Supply: Package to include redundant Ingersoll Rand model UP6-25-125 rotary screw air compressors with Intellysis control option. Package to be complete with Ingersoll Rand TS200 air dryer, 240 gallon vertical receiver tank, aftercoolers, coalescing filter, and all required start-up lubricants.

Misc. Package: All gate system anchor bolts, stainless steel fasteners, abutment seals, interpanel seals, five copies of engineering drawings and calculations, and five copies of operation and maintenance manuals.

Obermeyer Hydro is pleased to offer this complete package for the sum total of USD 979,950.00 FOB job site. The above price is valid until December 30, 2003 and is for shipment in accordance with mutually agreed upon delivery schedule. The above price does not include the following items:

1. Interconnecting wiring or piping.
2. Building for housing compressor and controls.
3. Installation except for any purchased supervision and training.
4. Any required abutment plate welding.
5. Any required anchor bolt epoxy.
6. Bid, supply, or performance bond.
7. Federal, state, or any local taxes.

In addition to the above equipment package, OHI is pleased to provide the following installation supervision and owner training package:

- Trip One: One day pre construction trip to be scheduled after OHI receipt of owner approved shop drawings. Purpose of the trip is to discuss construction related issues and scheduling.
- Price: USD 1,135.00
- Trip Two: Two day installation supervision trip during installation of first set of embeds and abutment plates. Purpose of trip is to check dimensions and location of anchor bolts, gate embed, and abutments prior to placement of concrete.
- Price: USD 1,965.00
- Trip Three: Three day installation supervision trip during installation of first gate. Purpose of the trip is to supervise the installation of the first air bladder, gate panels, and other associated items.
- Price: USD 2,670.00
- Trip Four: Two day installation supervision trip during installation of second gate. Purpose of the trip is to supervise the installation of the second air bladder, gate panels, and other associated items.
- Price: USD 1,965.00
- Trip Five: Two day installation supervision trip during installation of control and air compressor system. Purpose of the trip is to supervise the installation of the air compressor and control equipments in the control building.
- Price: USD 1,965.00
- Trip Six: Three day control system calibration and owner training trip. During the first day the OHI technician will calibrate the control system. The second day shall include gate system testing. The third day will be reserved for owner training and for reviewing specific operation and maintenance issues.
- Price: USD 2,670.00

The lump sum price for the above services is USD 12,370.00 and includes all transportation, lodging and miscellaneous expenses. Additional on site installation supervision is available for USD 600.00 per day plus any non local travel related expenses.

As all parts are custom manufactured, a thirty five percent (35%) deposit will be required with the placement of an order. The balance, less five percent (5%) retainage shall be due prior to shipment. The retainage shall be due sixty days after shipping or upon commissioning of project whichever comes first.

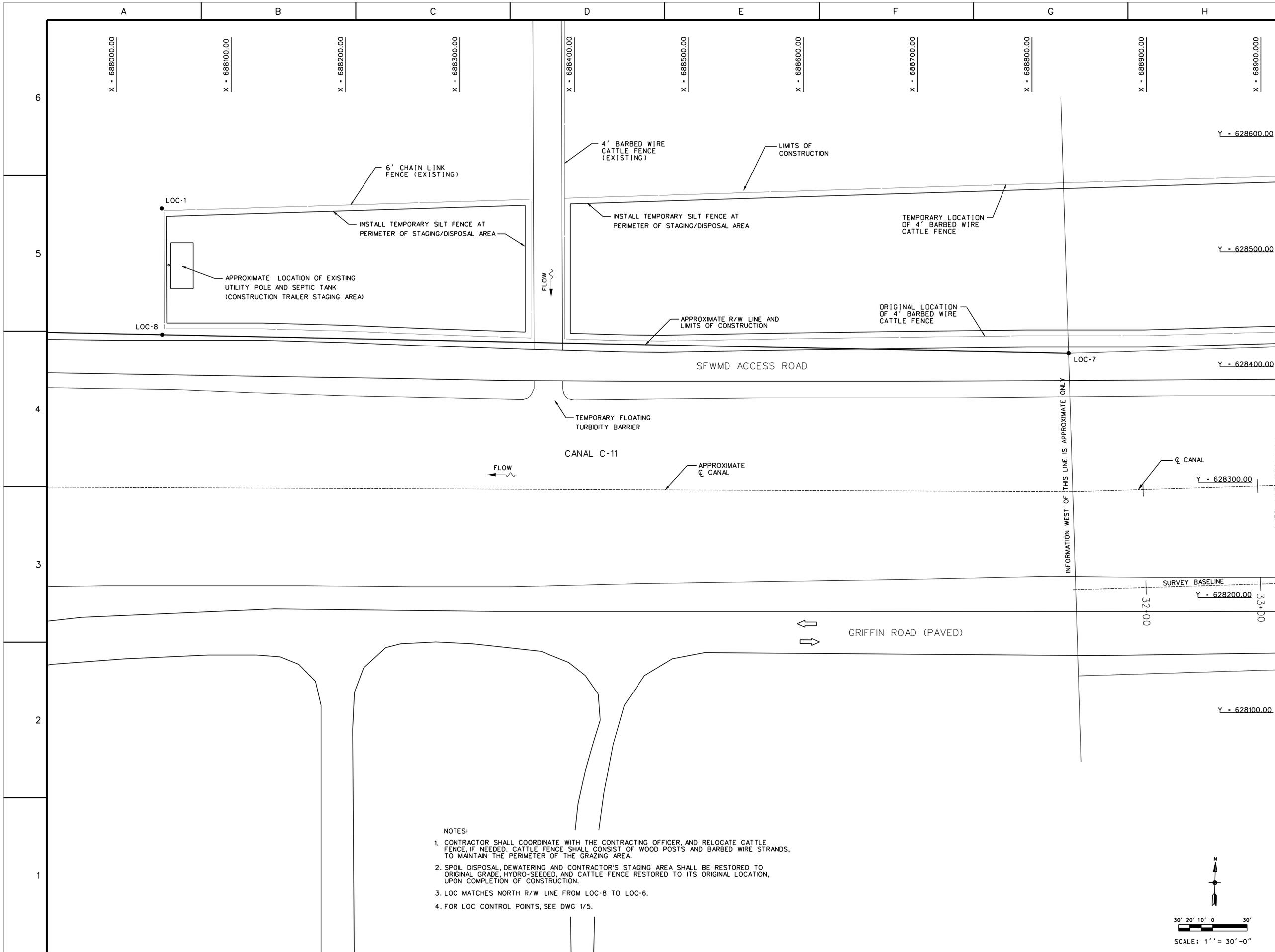
All parts manufactured by Obermeyer Hydro are offered and guaranteed as outlined in attached OHI sales agreement. Items that are supplied, but not manufactured by Obermeyer Hydro, are covered by the original manufacturer's warranty.

Sincerely,

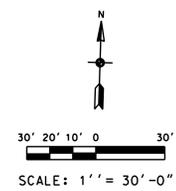
Obermeyer Hydro, Inc.

Robert Eckman
Vice President

--End of Section--



- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER, AND RELOCATE CATTLE FENCE, IF NEEDED. CATTLE FENCE SHALL CONSIST OF WOOD POSTS AND BARBED WIRE STRANDS, TO MAINTAIN THE PERIMETER OF THE GRAZING AREA.
 2. SPOIL DISPOSAL, DEWATERING AND CONTRACTOR'S STAGING AREA SHALL BE RESTORED TO ORIGINAL GRADE, HYDRO-SEEDED, AND CATTLE FENCE RESTORED TO ITS ORIGINAL LOCATION, UPON COMPLETION OF CONSTRUCTION.
 3. LOC MATCHES NORTH R/W LINE FROM LOC-8 TO LOC-6.
 4. FOR LOC CONTROL POINTS, SEE DWG 1/5.



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

No.	Symbol	Description
1	△	REISSUED (PLOTTING ERROR) TO ACCOMPANY AMENDMENT NO. 0006

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

HDR
HDR ENGINEERING, INC.
2202 N. W. 53RD AVENUE BLVD.
TAMPA, FL 33607
CA. 4213

Prepared by: K. PRICE	Checked by: MEF
Drawn by: LSP	Scale:

File name:
CSDD51-4

Reference files:
SSBV-SP100
SSBV-SP100
SSBV-PLAN00

CENTRAL AND SOUTHERN FLORIDA ECOSYSTEM
CRITICAL RESTORATION PROJECT
WESTERN C-11 BASIN PHASE 2
SPILLWAY 381
GENERAL
STAGING / DISPOSAL AREA PLAN - 1 OF 2

DRAWING NO.
1/4