

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. 0005	3. EFFECTIVE DATE 29-Oct-2003	4. REQUISITION/PURCHASE REQ. NO. W68MD9-2183-1410	5. PROJECT NO.(If applicable)	
6. ISSUED BY USA ENGINEER DISTRICT, SEATTLE ATTN: CENWS-CT 4735 EAST MARGINAL WAY SOUTH SEATTLE WA 98134-2329	CODE W912DW	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. DACW67-03-R-0001
			X	9B. DATED (SEE ITEM 11) 19-Sep-2003
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.				
<p>Offer 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:</p> <p>(a) By completing Items 8 and 15, and returning _____ 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.</p>				
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 <input type="checkbox"/> is not, <input type="checkbox"/> 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.) FISH PASSAGE FACILITY COFFERDAM AND EXCAVATION, HOWARD HANSON DAM, KING COUNTY, WASHINGTON				
The purpose of this amendment (R0005) is to incorporate the following:				
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)	
			TEL:	EMAIL:
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)		30-Oct-2003

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES**PROJECT: DACW67-03-R-0001, Cofferdam and Excavation, Howard Hanson Dam, WA**

AMENDMENT NO. FIVE

A. This amendment provides for the following changes:

- (1) Revisions to Bid Schedule to clarify units;
- (2) Revisions to Section 01451 to clarify costs of laboratory inspections.
- (3) Section 00110 paragraph 5.B.2.b is revised.

(4) Projnet/Dr. Checks Bidder Inquires and Answers added. "The questions/responses provided below are for your information as to what other offerors have asked. The responses provided do not constitute a change to the plans or specifications. Only amended specifications or drawings provided in amendments will change the solicitation requirements."

- (5) Projnet/Dr. Checks additional operating instructions.

B. The attached revised pages supersede and replace the corresponding pages. The attached revised specification sections supersede and replace the corresponding specification sections. Specification changes are generally identified, for convenience, by strikeout for deletions, and underlining of text for additions. All portions of the revised or new pages shall apply whether or not changes have been indicated.

C. The proposal submittal time and date 18 November 2003, 2:00 p.m. local time **is not** extended

D. For bidder inquires go to www.projnet.org

Encl

Bid Schedule
Section 01451 (revised)
Section 00110 (revised)
Dr. Checks Bidder Inquires and Answers

(End of Summary of Changes)

Projnet/Dr.Checks additional operating instructions. (For Information Only)

To open the Home Page, click on the Corps of Engineers' Website address. The Solicitation Number for this project shows and that number is DACW67-03-R-00001. That page shows the Technical POC.

Beside the word "Phone" are the words "See Website".

Click on the word "Website".

First time users should click on "bidder inquiry on the far right side. Fill out all the req'd information in order to receive a Password (maximum time to receive a Password will be 24 hours). Do not use the log in which says "First Time User."

Existing Users should scroll to USACE, enter your last name, password and click "I agree to terms listed below", then Login. Scroll down to Construction Contractors' Modules: Click on the words Bidder Inquiry. When the next window opens, scroll down to "NWS Seattle District" and click on "Continue".

The next window will show NWS Fish Passage Facility Cofferdam and Excavation, Howard Hanson Dam, King County, Washington, click on "Continue". The next window will show Bidder Inquiry, click on "Continue". The next window requires that Discipline is required (scroll down and pick the Discipline of the question, not your discipline). If the question is of a General Nature, click on "General" as a Discipline. Doc Type is also required. After filling in Discipline and Doc Type, scroll down to the box and type in your question, then click "Submit Inquiry" (Only type one issue in the box at a time. Maximum length of question is 700 characters. No HTML code). When the next window opens , Discipline and Doc Type will be filled out. Change the Discipline or Doc Type as necessary, then fill in the box and click on "Submit Inquiry".

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SCHEDULE

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0001	All Work for Fish Passage Facility Cofferdam and Excavation, Except for Items 0002 Through 0039	1	JOB	L.S.	\$ _____
0002	Mobilization And Demobilization	1	JOB	L.S.	\$ _____
0003	All Work for Reservoir Excavation & Debris Removal From Trash Racks				
0003AA	First 600 Cubic Yards	600	CY	\$ _____	\$ _____
0003AB	All Over 600 Cubic Yards	400	CY	\$ _____	\$ _____
0004	All Work for Multi-Point Borehole Extensometers	1	JOB	L.S.	\$ _____
0005	All Work for Piezometers	1	JOB	L.S.	\$ _____
0006	All Work for Inclinometers	1	JOB	L.S.	\$ _____
0007	All Work for Load Cells	1	JOB	L.S.	\$ _____
0008	All Work for Passive Relief Wells	2,260	LF	\$ _____	\$ _____
0009	All Work for Dewatering Wells	3,000	LF	\$ _____	\$ _____
0010	All Overburden Drilling for Grout Curtain Holes, (1, 2 & 4 Stage Holes)				
0010AA	First 10 Linear Feet	10	LF	\$ _____	\$ _____
0010AB	Over 10 Linear Feet	400	LF	\$ _____	\$ _____
0011	All Rock Drilling for Grout Holes (1,2 & 4 Stage Holes)				
0011AA	First 5,000 Linear Feet	5,000	LF	\$ _____	\$ _____
0011AB	All Over 5,000 Linear Feet	5,600	LF	\$ _____	\$ _____

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03040/CS
 Cofferdam and Excavation, Howard Hanson Dam, WA

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0012	All Work for Redrilling Grout Curtain Holes (2 Stage Grout Curtains only)				
0012AA	First 600 Linear Foot	600	LF	\$_____	\$_____
0012AB	All Over 600 Linear Foot	1,000	LF	\$_____	\$_____
0013	All Hookups To Grout Holes used in Placement of Cement Grout Curtains				
0013AA	First 150 Each	150	EACH	\$_____	\$_____
0013AB	All Over 150 Each	160	EACH	\$_____	\$_____
0014	All Portland Cement used in Grout Curtains				
0014AA	First 1,450 94-lb Bags	1,450	BAGS	\$_____	\$_____
0014AB	All Over 1,450 94-lb Bags	500	BAGS	\$_____	\$_____
0015	All Bentonite used in Grout Curtains				
0015AA	First 10 94-lb Bags	10	BAGS	\$_____	\$_____
0015AB	All Over 75 94-lb Bags	75	BAGS	\$_____	\$_____
0016	All HRWR Water Reducing Admixture (Anti-Washout Admixture) used in Grout Curtains				
0016AA	First 50 Gallons	50	GAL	\$_____	\$_____
0016AB	Over 50 Gallons	100	GAL	\$_____	\$_____
0017	All New Intake Tower Addition Tremie Concrete Below Elevation 1085				
0017AA	First 200 Cubic Yards	200	CY	\$_____	\$_____
0017AB	All Over 200 Cubic Yards	100	CY	\$_____	\$_____
0018	All 37 Each Vertical 1-3/4" Diameter Bars for New Intake Tower Addition (Plate S8.3)				
0018AA	First 740 Linear Foot	740	LF	\$_____	\$_____
0018AB	All Over 740 Linear Foot	2,200	LF	\$_____	\$_____

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 Cofferdam and Excavation, Howard Hanson Dam, WA

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0019	All Shoulder H-Piles Tie Back for Permanent Retaining Wall				
0019AA	First 1,800 Linear Foot of H piles	1,800	LF	\$_____	\$_____
0019AB	All Over 1,800 Linear Foot of H piles	1,000	LF	\$_____	\$_____
0020	All Tie Back Anchors for Permanent Retaining Wall				
0020AA	First 3,600 Linear Foot	3,600	LF	\$_____	\$_____
0020AB	All Over 3,600 Linear Foot	1,000	LF	\$_____	\$_____
0021	All Common Excavation Above Elevation 1074				
0021AA	First 10,000 Cubic Yard	10,000	CY	\$_____	\$_____
0021AB	Over 10,000 Cubic Yard	5,500	CY	\$_____	\$_____
0022	All Rock and Concrete Excavation Above Elevation 1074				
0022AA	First 23,000 Cubic Yard	23,000	CY	\$_____	\$_____
0022AB	Over 23,000 Cubic Yard	12,100	CY	\$_____	\$_____
0023	All 30' Long Rock Bolts #11, Threaded Bar Grade 150 Above Elevation 1074				
0023AA	First 90 Each	90	EACH	\$_____	\$_____
0023AB	All Over 90 Each	85	EACH	\$_____	\$_____
0024	All 30' Long Rock Bolts, #8 Threaded Bar Grade 75 Above Elevation 1074				
0024AA	First 100 Each	100	EACH	\$_____	\$_____
0024AB	All Over 100 Each	185	EACH	\$_____	\$_____

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 Cofferdam and Excavation, Howard Hanson Dam, WA

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0025	All 20' Long Rock Bolts, #8 Threaded Bar Grade 75 Above Elevation 1074				
0025AA	First 600 Each	600	EACH	\$_____	\$_____
0025AB	All Over 600 Each	215	EACH	\$_____	\$_____
0026	All 30' Long Weep Holes Above Elevation 1074				
0026AA	First 200 Each	200	EACH	\$_____	\$_____
0026AB	All Over 200 Each	70	EACH	\$_____	\$_____
0027	All 6" Thick Shotcrete				
0027AA	First 25,000 Square Foot	25,000	SF	\$_____	\$_____
0027AB	All Over 25,000 Square Foot	14,000	SF	\$_____	\$_____
0028	All Welded Wire Fabric Above Elevation 1074				
0028AA	First 1,000 Square Foot	1,000	SF	\$_____	\$_____
0028AB	All Over 1,000 Square Foot	3,600	SF	\$_____	\$_____
0029	All Rock and Concrete Excavation Below Elevation 1074				\$_____
0029AA	First 1,500 Cubic Yard	1,500	CY	\$_____	\$_____
0029AB	All Over 1,500 Cubic Yard	800	CY	\$_____	\$_____
0030	All 30' Long Rock Bolts #11, Threaded Bar Grade 150 Below Elevation 1074				
0030AA	First 5 Each	5	EACH	\$_____	\$_____
0030AB	All Over 5 Each	5	EACH	\$_____	\$_____

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03040/CS
 Cofferdam and Excavation, Howard Hanson Dam, WA

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0031	All 30' Long Rock Bolts, #8 Threaded Bar Grade 75 Below Elevation 1074				
0031AA	First 12 Each	12	EACH	\$_____	\$_____
0031AB	All Over 12 Each	12	EACH	\$_____	\$_____
0032	All 20' Long Rock Bolts, #8 Threaded Bar Grade 75 Below Elevation 1074				
0032AA	First 16 Each	16	EACH	\$_____	\$_____
0032AB	All Over 16 Each	16	EACH	\$_____	\$_____
0033	All 30' Long Weep Holes Below Elevation 1074				
0033AA	First 4 Each	4	EACH	\$_____	\$_____
0033AB	All Over 4 Each	5	EACH	\$_____	\$_____
0034	All Welded Wire Fabric Below Elevation 1074				
0034AA	First 700 Square Foot	700	SF	\$_____	\$_____
0034AB	All Over 700 Square Foot	300	SF	\$_____	\$_____
0035	All Work for Cut-Off-Wall (South Shore) 5' into Rock to Elevation 1170'	1	JOB	LS	\$_____
0036	Emergency Mobilization & Demobilization For When Water Elevation Is Above Elevation 1150	2	EACH	\$_____	\$_____
0037	Emergency Mobilization & Demobilization For When Water Elevation Is Above Elevation 1165	2	EACH	\$_____	\$_____
0038	Emergency Mobilization & Demobilization For When Water Elevation Is Above Cofferdam Elevation 1169	2	EACH	\$_____	\$_____

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03040/CS
Cofferdam and Excavation, Howard Hanson Dam, WA

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0039	All Work for As-Built Drawings as specified in Section 01702 from preparation to final approval	1	JOB	LS	\$25,000.00
	<u>TOTAL ALL ITEMS</u>				\$_____

NOTES:

1. The dollar amount established in Item No. 0039 shall not be revised by bidder.
2. Contract Clause "Variation in Estimated Quantity" in Section 00700 does not apply to Bid Items 0036, 0037, and 0038. If Emergency Demobilization and Remobilization and Standby of Equipment and Crew is used, the Contractor will be paid the unit price for the actual number of moves out of the work demobilization and remobilization and for number of standby days of equipment and crew as described in Section 01025 of the specifications. If Emergency Demobilization, Remobilization, Standby of Equipment, and Crew do not occur, the Bid Items will not be used and the government will issue a credit modification for each unused bid item in its entirety.

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SECTION 00110

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2. Evaluation Method

I. Past Performance in Implementing Subcontracting Plans

- 1. No Submittal Required for this Criterion**
- 2. Evaluation Method**

6. PROPOSAL EVALUATION AND AWARD

A. Relative Importance Definitions

- 1. Significantly More Important**
- 2. More Important**
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SECTION 00110

PROPOSAL SUBMISSION AND EVALUATION

1. INTRODUCTION.

A. Invitation. Your firm is invited to submit a proposal for the project entitled "**Howard Hanson Dam Fish Passage Restoration Facility, Cofferdam and Excavation, King County Washington, DACW67-03-R-0001.**" Prospective offerors are required to prepare and submit proposals that will be evaluated in accordance with this section of the solicitation. This solicitation is issued as a Request For Proposal (RFP). Proposals will be evaluated based upon technical merit and cost. The Government intends to make award on initial offers. Selection will be based upon best value to the Government using the criteria herein.

B. Project Description. Howard Hanson Dam (HHD) and Reservoir is located on the Green River in western Washington and is a 230-foot-high rock fill dam. The reservoir is connected to the Green River downstream of the dam by an outlet tunnel. The tunnel is 900 ft long, with a 19 ft semi-horseshoe shaped cross section, which is concrete lined. The dam will be retrofitted with a downstream juvenile fish passage restoration facility with a collection tower and flume over the dam. The facility must be installed in an excavation behind a cofferdam due to the fluctuating reservoir levels throughout the year. This contract is for construction of a pre-cast and cast-in place 100' high cofferdam and excavation of the foundation for the fish passage facility according to the plans and specifications of this solicitation. The Cofferdam structure will become a permanent part of the fish passage facility. The work includes working under harsh conditions during part of the year because of the dam's primary mission of storing water for flood control during the rainy season. The contract includes extensive water quality maintenance requirements because the reservoir stores and releases water to the City of Tacoma diversion dam and water supply pipeline downstream of the reservoir. In addition there are extensive requirements for the protection of the existing dam structures because of the close proximity of the structures to the proposed excavation.

2. SUBMITTAL REQUIREMENTS.

A. General Requirements. Proposals shall be submitted in two parts: (a) technical proposal, and (b) price proposal. Each shall be submitted in a separate envelope or package with the type of proposal (i.e., technical or price) clearly printed on the outside of the envelope or package. The maximum number of pages in the proposal should not exceed **150 pages** with font size no smaller than 10 point. Proposals must set forth full, accurate, and complete information as required by this RFP. Absence of information will be deemed as if no support for that criterion was provided. Offerors submitting proposals should limit submission to data essential for evaluation of proposals so that a minimum of time and money is expended in preparing information required by the Request for Proposals (RFP). Proposals are to be on 8 ½ x 11-inch paper, to the maximum extent practicable, and submitted in standard letter (8½ x 11-inch) hardback loose-leaf binders. Contents of binders shall be tabbed and labeled to afford easy identification from the proposal Table of Contents. No material shall be incorporated by reference or reiteration of the RFP. Any such material will not be considered for evaluation. It

shall be presented in a manner, which allows it to "STAND ALONE" without need for evaluators to reference other documents. Photographs and organizational charts will not be considered a page. Unnecessarily elaborate brochures or other presentation materials beyond those sufficient to present complete and effective responses are not desired and may be construed as an indication of the proposer's lack of cost-consciousness. Penalty for making false statements in proposals is prescribed in 18 U.S.C. 1001.

B. Technical Proposal Format. Submit 5 copies, consisting of an **original and 4 copies**. As a minimum, each copy of the technical proposal should contain the information and follow the general format specified below. Pages should be numbered from beginning to end, without repeating for new sections.

1. **Table of Contents:** List all sections contained in the technical proposal. A separate section shall be provided for each evaluation criterion. Any additions or revisions to the proposal shall include an updated Table of Contents for each set.

2. **Evaluation Criteria Information.** Provide a separate tab for each evaluation criterion. Behind the tab provide all information identified in the Submittal Requirements for each criterion.

C. Price Proposal Format. Submit 1 original signed by an official authorized to bind your firm. This proposal is due at the same time as the technical proposal, but shall be submitted in a separate envelope labeled "Price Proposal." Your price proposal is firm for the number of calendar days specified on the Standard Form 1442, Block 13D. The price proposal shall contain the following:

1. Standard Form 1442, Solicitation, Offer and Award (complete the reverse side, acknowledge the number of amendments received, and sign and date the form).
2. Corporate Certificate or Authority to Bind Partnership
3. Pricing schedule (submit prices for all items in the Schedule).
4. Section 00600, Representations, Certifications and Other Statements of Offerors and Pre-award information
5. Banking and Bonding information for the company signing the SF1442
6. Bid Bond
7. Small and Disadvantaged Business Subcontracting Plan (Applies to Large Businesses only with proposals in excess of \$1,000,000). Award will not be made under this solicitation without an approved subcontracting plan signed by the Contracting Officer.

3. EVALUATION FACTORS – Proposals will be evaluated on the basis of two criteria: TECHNICAL and PRICE.

A. Technical Evaluation Criteria:

1. Relevant experience of the Offeror's Construction Team
2. Qualifications of key team members
3. Past Performance

4. Proposed Schedule
5. Proposal for Protection of Existing Structures
6. Proposal for Water Quality Protection
7. Proposal for Working in the Fluctuating Conditions of the Reservoir
8. Proposal for Permanent Structure Foundation
9. Past Performance in Implementing Subcontracting Plans

B. Price: Price will be evaluated for reasonableness, but not rated. Financial and bonding capacity will also be checked, but not rated.

4. EVALUATION RATINGS. Proposals will be evaluated using the following adjectival descriptions:

A. Outstanding – Information submitted demonstrates Offeror’s potential to significantly exceed performance or capability standards. The Offeror has clearly demonstrated an understanding of all aspects of the requirements to the extent that timely and highest quality performance is anticipated. Has exceptional strengths that will significantly benefit the Government. The Offeror has convincingly demonstrated that the RFP requirements have been analyzed, evaluated, and synthesized into approaches, plans and techniques that, when implemented, should result in outstanding, effective, efficient, and economical performance under the Contract. Very significantly exceeds most or all solicitation requirements. Very high probability of success.

B. Above Average – Information submitted demonstrates Offeror’s potential to exceed performance or capability standards. Has one or more strengths that will benefit the Government. The areas in which the Offeror exceeds the requirements are anticipated to result in a high level of efficiency or productivity or quality. The submittal contains excellent features that will likely produce results very beneficial to the Government. Fully meets all RFP requirements and exceeds many of the RFP requirements. Response exceeds a “Satisfactory” rating. High probability of success.

C. Satisfactory (Neutral) – Information submitted demonstrates Offeror’s potential to meet performance or capability standards. Acceptable solution. Few or no advantages or strengths. Equates to Neutral. Good probability of success as there is sufficient confidence that a fully compliant level of performance will be achieved. Meets all RFP requirements. Complete and comprehensive proposal; exemplifies an understanding of the scope and depth of the task requirements and the Offeror’s understanding of the Government’s requirements. Response exceeds a “Marginal” rating. Good Probability of Success.

D. Marginal – The submittal is not adequately responsive or does not address the specific factor(s) (or criteria). The Offeror’s interpretation of the Government’s requirements is so superficial, incomplete, vague, incompatible, incomprehensible, or incorrect as to leave doubt as to the offeror’s capability for satisfactory performance. The assignment of a rating within the bounds of “Marginal” indicates that the evaluator feels that mandatory corrective action would be required to prevent significant deficiencies from affecting the overall project. Low probability of success although the submittal has a reasonable chance of becoming at least

acceptable. Response exceeds an “Unsatisfactory” rating. Moderate risk of unsuccessful performance.

E. Unsatisfactory – Fails to meet performance or capability standards. Unacceptable. Requirements can only be met with major changes to the submittal. The submittal does not meet the minimum requirements of the RFP. There is no reasonable expectation that acceptable performance would be achieved. Offeror’s qualifications have many deficiencies and/or gross omissions; failure to provide a reasonable, logical approach to fulfilling much of the Government’s requirements; failure to meet many of the minimum requirements. High risk of unsuccessful performance.

5. MINIMUM SUBMITTAL REQUIREMENTS AND EVALUATION METHOD

A. *Relevant Experience of the Offeror’s Construction Team.*

1. Definitions.

a. The Offeror’s **Construction Team** is defined as the Prime Firm and Subcontracting Firms taken as a whole.

b. **Relevant experience** is defined as a project that has been completed within the last ten years; or has been started and is at least 50% complete; has a logical connection with the requirements in this RFP; was similar in nature, magnitude and complexity to this project.

2. Submittal Requirements.

a. Organization Chart - Offerors shall provide an organizational chart clearly showing the Construction Team and their responsibilities for this project. The Organizational chart shall show as a minimum the following items:

- i. Prime Contractor
- ii. Subcontractors
- iii. Key personnel in each firm. (See next criterion “Qualifications” for minimum positions to be shown on the organization chart)
- iv. The organization chart shall also show the features of work under this contract that each organization is responsible for.

b. Experience examples - Offerors shall demonstrate that their Construction Team has relevant experience in the following types of work by providing examples of projects completed within the past 10 years, or under construction and at least 50% complete. The offeror shall explain how the project information provided is relevant to the proposed acquisition.

i. Types of Work Experience Required:

- a. Cofferdam construction and related cofferdam excavation, foundation and in-water work
- b. Rock excavation
- c. Water Quality Maintenance during Construction
- d. Close-in Blasting (defined as blasting that must be done in such a manner as to protect nearby structures)
- e. Underwater Concrete Work

ii. Minimum Project Information:

- a. Project title and location;
- b. Dollar value of construction;
- c. Construction period (month/year start to month/year end);
- d. Brief description of how the project is relevant, and meets the requirements of this RFP;
- e. Current primary point of contact for the customer (name, relationship to project, agency/firm affiliation, city and state, phone number).

3. Evaluation Method. The evaluation team will use the Organization Chart and the Examples of relevant experience to evaluate the *relevant experience of the Offeror's construction team*. The organization chart will be evaluated for functionality, completeness and reasonableness and the degree to which the offeror demonstrates an understanding of the aspects required for successfully accomplishing the work described in the solicitation. Firms will also be evaluated on the quantity and quality of experience of their team. Experience in all of the types of work listed above is required for a satisfactory rating. The greater the number, relevance and recency of prior project experience, the higher the rating assigned during evaluations.

B. Qualifications of Key Team Members.

1. Definitions. Key Team members are defined as the following personnel:

- a. Prime Firm Project Superintendent.** The Project Superintendent shall be either a graduate engineer or experienced construction person and demonstrate relevant experience on similar projects.
- b. Subcontractor Project Managers.** The Subcontractor project managers shall have relevant experience on projects similar to the proposed responsibilities for this project.
- c. Key Technical Personnel.** Technical Personnel shall be professionally registered, if required by their profession. For this solicitation, Key Technical Personnel include:
 - Blasting
 - Environmental Coordinator

- Safety Officer
- Quality Control Officer
- Submittals Manager
- Underwater Concrete Tech

2. Submittal Requirements.

a. Résumés of Key Prime and Subcontractor Personnel. The Offeror shall submit a résumé for key construction personnel from the Prime Firm and Subcontractors that will be assigned to this project. (Note: each person should also be shown in the Construction Team Organization Chart.) The proposal should clearly present the credentials of each person. It is important that each resume include the relevant project experience mentioned in Item 5.A above. Include all relevant educational qualifications. Résumé should be no more than two (2) pages per individual and submitted in a format similar to the one below. It is expected that each key individual in your proposal will be the individual who performs work under the contract. Because selection will be partly based on this criterion, the government reserves the right to approve substitutions in personnel during the contract period.

b. Summary of the Duties and Responsibilities of Key Personnel. In addition to the résumés, the Offeror shall provide a summary of the duties and responsibilities of these individuals. As a minimum, this sub-factor should include data on the following Resume Format:

c. Résumé Format. Résumé should be no more than two (2) pages per individual and submitted in a format similar to the one below:

<i>Name</i>
<i>Title for this project</i>
<i>Summary of the Duties/Responsibilities for this project</i>
<i>Firm Affiliation/Years Affiliated</i>
<i>Total Number of Years in the Construction Industry</i>
<i>Years of Experience performing duties/functions as proposed for this project.</i>
<i>Education - Degree, Certification, Year, and Specialization</i>
<i>Active Registrations/Professional/Technical Licenses/Certifications</i>
<i>Specific Qualifications for this project (See criterion for any special instructions such as a minimum number of projects to list)</i>
<i>List of Relevant Experience. For each project listed, provide:</i>
<i>Project Title & Location</i>
<i>Year(s) constructed</i>
<i>Firm Affiliated with during this project</i>
<i>Duties/Functions</i>

3. Evaluation Method: The more recent, and the greater the extent and relevance of the team members' qualifications, prior project experience, the higher the rating assigned for this criterion during evaluations. Only one individual for each of the key personnel categories listed above will be evaluated.

C. Past Performance.

1. Definitions.

CCASS. Construction Contract Administration Support System. This system is maintained by the Corps of Engineers and contains past performance evaluations for projects completed for the Army (including Corps of Engineers), Air Force and Navy. Offerors wanting to review ratings contained in the CCASS database may request the information by submitting a fax, on company letterhead, to (503) 808-4596.

2. Submittal Requirements

a. CCASS – If a project listed under relevant experience criterion has a performance evaluation in the CCASS database, the offeror **does not** need to provide a copy of the evaluation.

b. Customer Satisfaction Survey. The reproducible Customer Satisfaction Survey form located at the end of this section will be used to provide information from your customers for the prime contractor regarding satisfaction, quality of work, and timely performance of the projects listed in the relevant experience examples. To be considered, your past customers (not the offeror) must complete the surveys and mail, hand-deliver, or fax directly to the Contracting Office, for receipt no later than the time and date the proposals are due. Customer Satisfaction Surveys should only be provided for projects constructed by the prime, listed under relevant experience, and for which a CCASS evaluation is not available. All Customer Satisfaction Surveys must be **submitted** to the Seattle District, Corps of Engineers **by the customer/agency** providing the information. Surveys submitted by the contractor will not be considered. Please ensure envelopes containing survey forms do not contain the offeror's return address. Offerors shall **submit a list** of all customers to whom Customer Satisfaction Surveys were provided, including current point of contact and phone number.

3. Evaluation Method. The Government reserves the right to consider all aspects of an offeror's performance history. The CCASS database will be queried and copies of evaluations will be provided to evaluators for consideration. The Government may also contact previous customers as references, and will use Customer Satisfaction Surveys received from customers. Past performance for projects listed under relevant experience will be evaluated first and higher evaluation ratings will be given for relevant projects with outstanding evaluations. In descending order, lower ratings may be given to evaluations of Above Average, Average, Marginal, and Unacceptable or projects that have no relevance or connection to the scope of work anticipated under this contract. Other evaluations found in the CCASS database and other Customer Satisfaction Surveys will be considered. If an Offeror has no relevant past performance data to evaluate or no information on past performance is available, a neutral rating will be assigned. The Government may initiate exchanges with an offeror to clarify adverse past performance

information when the Offeror has not previously had an opportunity to comment on the evaluation. The Government reserves the right to contact the evaluators of either the CCASS or the Customer Satisfaction Surveys submitted. The Government also reserves the right, but is not obligated, to query any Government agencies, databases, and publications for information such as performance evaluations, debarment, terminations, and litigation for evaluation purposes.

D. Proposed Schedule

1. Submittal Requirements. Offeror shall provide Work Schedule detailing how all work shall be accomplished in a contract timeline. The schedule shall be printed using professional project scheduling software and shall show all phases of work proceeding from the date of “Notice to Proceed (NTP)”. For the purposes of preparing this schedule, Offerors shall assume that NTP will be given on the 60th calendar day after the date the proposals are due. The schedule shall include:

- a. Sequence of Cofferdam erection, completion, and excavation behind cofferdam when it is completed.
- b. An indication of the average reservoir level as it relates to work operations at various times of the year.
- c. Cofferdam foundation work required to be accomplished when reservoir is at lowest yearly levels.
- d. One arbitrary emergency de-mobilization and re-mobilization cycle from elevation 1150 during the flood control season to act as a scheduling placeholder for actual flooding during the contract period. The cycle must agree with historical records as to duration and standby time.
- e. Indication of required contractor notice to City of Tacoma in advance of high turbidity events during excavation and required follow-on period of non-turbid activities.
- f. Required Diving Operations
- g. A placeholder of 4 weeks at the end of contract where the Offeror must maintain and dewater the excavation prior to the Phase 2 contractor’s assumption of the site.

2. Evaluation Method. Schedules will be evaluated for completeness, reasonableness and understanding of the work. Complete schedules will include all of the tasks identified above. Schedules that illustrate a logical sequencing of events and a greater understanding of the work will receive a more favorable evaluation. Proposals that include unrealistic or unsupported schedules will be evaluated unfavorably.

E. Proposal for Protection of Existing Structures

1. Submittal Requirements. The Offeror shall provide the following two detailed plans:

a. Close-In Blasting Plan. Submit a detailed plan including the methodology to be used in determining safe blasting parameters.

b. Cooperation Plan. Submit a detailed plan indicating the cooperation required of the Offeror with the government in the interpretation of instrumentation data.

2. Evaluation Method. The Close-in Blasting Plan and Cooperation Plan will be evaluated to determine the Offeror's understanding of the strict requirements of the contract to protect existing structures that are in close proximity to the cofferdam site. The greater the understanding demonstrated by the Plans the higher the assigned rating.

F. Proposal for Water Quality Protection

1. Requirements. Offeror shall provide a detailed Water Quality Management Plan to show that the Offeror understands the strict contract requirements for the maintenance of water quality due to the upstream proximity of the construction to Tacoma's water supply pipeline. The Offeror's plan must meet all requirements of the specifications. The plan must show:

a. Site Run-Off Water Control Plan. Submit a detailed plan to control site run-off water, including use of sedimentation pond.

b. Water Pollution Control Plan. Submit a detailed plan to control water pollution due to contractor activities.

c. Turbid Water Control Plan. Submit a detailed plan to control turbid water from excavation.

d. SEDIMENT CONTROL PLAN. Submit a detailed plan to control sediments within the reservoir and project site in general.

e. Emergency Pollution Response Plan. Submit a detailed plan for emergency pollution response. Identify the firm to be used for this response plan.

f. Construction Shutdown Plan. Submit a detailed plan for construction shutdowns to manage turbidity.

g. Tacoma Public Utilities Temporary Shutdown Schedule. Submit a schedule identifying all activities requiring temporary shutdowns of Tacoma Public Utilities water supply facilities and tentative timeframes of such events.

h. Details of boat to be provided by Offeror to government for Water Quality monitoring.

2. Evaluation Method. Plans will be evaluated for completeness, reasonableness and understanding of the work. The more thorough and reasonable the plan, and the more the plan demonstrates the offeror's understanding of the work requirements, the higher the assigned rating.

G. Proposal For Working in the Fluctuating Conditions of the Reservoir from Elevation 1070 to Elevation 1150.

1. Submittal Requirements. Submit a detailed plan that demonstrates the offeror's understanding of the harsh conditions of the reservoir during flood control season and the high reservoir storage pool during the conservation season. Include the means and methods to be employed to be most effective in accomplishing the work in spite of the fluctuating reservoir levels using the data for the period of record of the reservoir as provided in the project Hydraulics and Hydrology Baseline Report. Also include your plan for work interruptions and standby time when working in the reservoir below elevation 1150. Please note that no separate payment will be made to the Offeror for work stoppages due to the fluctuating reservoir levels below elevation 1150 during flood control season.

2. Evaluation Method. Plans will be evaluated for completeness, reasonableness and understanding of the work. The more thorough and reasonable the plan, and the more the plan demonstrates the offeror's understanding of the work requirements, the higher the assigned rating.

H. Proposal for Permanent Structure Foundation.

1. Submittal Requirements. The Cofferdam structure will serve as the permanent upstream portion of the Fish Passage Facility. Submit a detailed plan, including technical details, of the proposed means and methods of ensuring the integrity of the foundation and watertightness of the Cofferdam during project performance. The proposal shall include information on:

- a. Underwater rock excavation
- b. Underwater concrete
- c. Underwater Grouting
- d. Embedded metals
- e. Structural integrity assurance
- f. Watertightness of cofferdam

2. Evaluation Method. Plans will be evaluated for completeness, reasonableness and understanding of the work. The more thorough and reasonable the plan, and the more the plan demonstrates the offeror's understanding of the work requirements, the higher the assigned rating.

I. Past Performance in Implementing Subcontracting Plans

1. No submittal required for this criterion. The Government will utilize performance evaluations contained in the Construction Contract Administration Support System (CCASS) to evaluate this criterion.

2. Evaluation Method. Firms will be evaluated based on the ratings received for item 16i, "Implementation of Subcontracting Plan" for performance evaluations retrieved from the

CCASS system. Firms without any evaluations in the CCASS system, or for which this item is not evaluated (N/A) will receive a neutral (Satisfactory) rating. Firms that are rated Satisfactory or higher for this item in CCASS report(s) will receive a rating of Satisfactory. Firms that receive a rating below Satisfactory for this item in one or more CCASS reports will receive a rating of Marginal for this criterion

6. PROPOSAL EVALUATION AND AWARD

A. Relative Importance Definitions: For the purpose of this evaluation, the following terms will be used to establish the relative importance of each criterion:

1. Significantly More Important: The criterion is at least two times greater in value than another criterion.

2. More Important: The criterion is one and one half times greater in value than another criterion, but less than two times greater in value.

3. Equal: The criterion is of the same value as another criterion.

B. Ranking of Importance of Technical Evaluation Factors:

1. “Relevant experience of the Offeror’s Construction Team” is more important than:

- Qualifications of key team members
- Past Performance
- Proposed Schedule

And is significantly more important than all other criteria.

2. “Qualifications of key team members”, “Past Performance”, “Proposed Schedule” are equal in value but more important than:

- Proposal for Protection of Existing Structures
- Proposal for Water Quality Protection
- Proposal for Working in the Fluctuating Conditions of the Reservoir
- Proposal for Permanent Structure Foundation
- Extent of Small And Small and Disadvantaged Business Participation

3. “Proposal for Protection of Existing Structures”, and “Proposal for Water Quality Protection” are equal in value but are more important than “Proposal for Working in the Fluctuating Conditions of the Reservoir” and “Proposal for Permanent Structure Foundation”.

4. “Proposal for Working in the Fluctuating Conditions of the Reservoir”, and “Proposal for Permanent Structure Foundation” are equal in value but are more important than “Extent of Small And Small and Disadvantaged Business Participation”.

C. Evaluation. Proposals will be evaluated based technical merit and cost. A firm fixed-price contract will be awarded to one firm submitting the proposal that conforms to the terms and conditions of the solicitation, provides the best value to the Government based upon

consideration of both technical merit and cost, and is determined to be in the best interest of the Government.

D. Competitive Range. The Government intends to make award based on initial offers. However, if it is not possible to make award based on initial offers and the Contracting Officer determines that discussions are necessary, the Contracting Officer will establish a competitive range comprised of the most highly rated proposals. The Contracting Officer may elect to further reduce the number of firms in the competitive range for the purposes of efficiency. Proposals that are eliminated or otherwise removed from the competitive range will not be considered for award, and any further revisions to that offeror's proposal will not be accepted or considered.

E. Discussions. Discussions will be held only with the firms in the competitive range. If, after discussions have begun, an offeror originally in the competitive range is no longer considered to be among the most highly rated offerors being considered for award, that offeror may be eliminated from the competitive range whether or not all material aspects of the proposal have been discussed, or whether or not the offeror has been afforded an opportunity to submit a proposal revision. Discussions will normally be conducted in writing. The Contracting Officer will discuss with each offeror in the competitive range, significant weaknesses, deficiencies, and other aspects of its proposal that could, in the opinion of the Contracting Officer, be altered or explained to enhance materially the proposal's potential for award. The scope and extent of discussions are a matter of Contracting Officer judgment. At the conclusion of discussions, each offeror still in the competitive range will be given an opportunity to submit a final proposal revision. At this point, the Government intends to make award without obtaining further revisions.

F. Selection and Award – The Government intends to make award based on initial offers. If discussions are conducted, then after receipt of final proposal revisions, the Technical Evaluation Team will evaluate supplemental information provided by offerors, adjust technical ratings previously assigned, and provide a recommendation to the Contracting Officer. Subsequently, and after evaluation of any changes to proposed prices, the Contracting Officer will perform a best-value analysis. In determining the best value to the Government, the tradeoff process of evaluation will be utilized. The tradeoff process permits tradeoffs among technical criteria and price, and allows the Contracting Officer to consider award to other than the lowest priced offerer or other than the highest technically rated offerer. **For this solicitation, technical factors are regarded higher than the price.** Selection will be made to the responsible offer that conforms to the solicitation and represents the most advantageous offer to the Government.

7. DEBRIEFINGS.

A. Pre-award. Offerors excluded from the competition before award will receive a notice and may request a debriefing before award by submitting a written request for a debriefing to the Contracting Officer within three (3) days after receipt of the notice of exclusion from the competition.

B. Post Award. Unsuccessful Offerors shall request post-award debriefing within three (3) days after the date on which the offeror received notification of contract award. Point-by-point comparisons with other offerors' proposals will not be made, and debriefings will not reveal any information that is not releasable under the Freedom of Information Act.

8. PROPOSAL EXPENSES AND PRECONTRACT COSTS. This solicitation does not commit the Government to pay costs incurred in preparation and submission of the initial and any subsequent proposals or any other costs incurred prior to execution of a formal contract.

END SECTION 00110

SEE CUSTOMER SATISFACTION SURVEY FOLLOWING THIS PAGE

CUSTOMER SATISFACTION SURVEY

DACW67-03-R-0001, Howard Hanson Dam Fish Passage Restoration Facility, Cofferdam and
Excavation, King County Washington
Seattle District, Corps of Engineers

SECTION 1 -- TO BE COMPLETED BY THE OFFEROR AND PROVIDED TO THE CUSTOMER REFERENCE

Name of Firm Being Evaluated: _____

Project Title & Location: _____

Project Dollar Value (for design-build, list both design and construction amounts):

Year Completed: _____ Project Manager: _____

SECTION 2 -- TO BE COMPLETED BY THE CUSTOMER REFERENCE AND MAILED, HAND-DELIVERED, E-MAILED OR FAXED DIRECTLY TO: Forms submitted by other than the customer (i.e., by the offeror), will not be considered.

U.S. Army Corps of Engineers, Seattle District
Attn: CENWS-CT-CB-CU (J Alex Smith)
P.O. Box 3755
Seattle, WA 98124-3755

FAX: (206) 764-6817
Street Address:
4735 E. Marginal Way S.
Seattle WA 98134-2385
E- Mail j.alex.smith@usace.army.mil

OVERVIEW: The firm shown above has submitted a proposal on a Seattle District Corps of Engineers project and provided your name as a customer reference. Part of our evaluation process requires information on the firm's past performance. Your input is important to us and responses are required by **03 Nov 2003** for inclusion in our evaluation. Your assistance is greatly appreciated.

In the blocks below, please indicate your overall level of satisfaction with the work performed by the firm shown in Section 1. Mark *Not Applicable* (N/A) for any areas that do not apply. Please include comments on page 2 of this form.

	On this project, the firm:	Satisfaction					
		Low				High	
1.	Completed Your Major Project Milestones on Time	1	2	3	4	5	N/ A
2.	Delivered Quality Construction	1	2	3	4	5	N/ A
3.	Demonstrated a Willingness to Cooperate	1	2	3	4	5	N/ A

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SECTION 01451

CONTRACTOR QUALITY CONTROL

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 3740	(1999b) Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
ASTM E 329	(1998a) Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction

1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program, and all costs associated therewith shall be included in the applicable unit prices or lump-sum prices contained in the Bidding Schedule.

1.3 LABORATORY VALIDATION

The testing laboratory shall be validated by Corps of Engineers Material Testing Center (MTC) for all tests required by contract. See paragraph 3.7 TESTS.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause titled "Inspection of Construction." The quality control system shall consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. The system shall cover all construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence. The site project superintendent will be held responsible for the quality of work on the job and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the contract. The site project superintendent in this context shall be the highest level manager responsible for the overall construction activities at the site, including quality and production. The site project superintendent shall maintain a physical presence at the site at all times, except as otherwise acceptable

to the Contracting Officer, and shall be responsible for all construction and construction related activities at the site.

3.2 QUALITY CONTROL PLAN

The Contractor shall furnish for review by the Government, not later than 10 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause titled "Inspection of Construction." The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used. The Government will consider an interim plan for the first 60 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the features of work included in an accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional features of work to be started.

3.2.1 Content of the CQC Plan

The CQC Plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified. The staff shall include a CQC System Manager who shall report to the project superintendent.
- b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.
- c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters shall also be furnished to the Government.
- d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with Section 01330 SUBMITTAL PROCEDURES.
- e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities will be approved by the Contracting Officer.)
- f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.

- g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.
- h. Reporting procedures, including proposed reporting formats.
- i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will be agreed upon during the coordination meeting.

3.2.2 Acceptance of Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in his CQC Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

3.2.3 Notification of Changes

After acceptance of the CQC Plan, the Contractor shall notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

3.3 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, the Contractor shall meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control system. The CQC Plan shall be submitted for review a minimum of 5 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting shall be prepared by the Government and signed by both the Contractor and the Contracting Officer. The minutes shall become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures which may require corrective action by the Contractor.

3.4 QUALITY CONTROL ORGANIZATION

3.4.1 Personnel Requirements

The requirements for the CQC organization are a CQC System Manager and sufficient number of additional qualified personnel to ensure safety and contract compliance. The Safety and Health Manager shall receive direction and authority from the CQC System Manager and shall serve as a member of

the CQC staff. Personnel identified in the technical provisions as requiring specialized skills to assure the required work is being performed properly will also be included as part of the CQC organization. The Contractor's CQC staff shall maintain a presence at the site at all times during progress of the work and have complete authority and responsibility to take any action necessary to ensure contract compliance. The CQC staff shall be subject to acceptance by the Contracting Officer. The Contractor shall provide adequate office space, filing systems and other resources as necessary to maintain an effective and fully functional CQC organization. Complete records of all letters, material submittals, show drawing submittals, schedules and all other project documentation shall be promptly furnished to the CQC organization by the Contractor. The CQC organization shall be responsible to maintain these documents and records at the site at all times, except as otherwise acceptable to the Contracting Officer.

3.4.2 CQC System Manager

The Contractor shall identify as CQC System Manager an individual within the onsite work organization who shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. The CQC System Manager shall be a graduate engineer, graduate architect, or a graduate of construction management, with a minimum of 5 years construction experience on construction similar to this contract, or a construction person with a minimum of 10 years in related work. This CQC System Manager shall be on the site at all times during construction and shall be employed by the prime Contractor. The CQC System Manager shall be assigned no other duties. An alternate for the CQC System Manager shall be identified in the plan to serve in the event of the System Manager's absence. The requirements for the alternate shall be the same as for the designated CQC System Manager.

3.4.3 Additional Requirement

In addition to the above experience and/or education requirements the CQC System Manager shall have completed the course entitled "Construction Quality Management For Contractors". This course is periodically offered at AGC offices throughout the state of Washington and Oregon.

3.4.4 Organizational Changes

The Contractor shall maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, the Contractor shall revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

3.5 SUBMITTALS AND DELIVERABLES

Submittals, if needed, shall be made as specified in Section 01330 SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals are in compliance with the contract requirements. When Section 15950A HEATING, VENTILATING AND AIR CONDITIONING (HVAC) CONTROL SYSTEMS, 15951A DIRECT DIGITAL CONTROL FOR HVAC; 15990A TESTING, ADJUSTING, AND BALANCING OF HVAC SYSTEMS; or 15995A COMMISSIONING OF HVAC SYSTEMS are included in the contract, the submittals required by these sections shall be coordinated with Section 01330 SUBMITTAL PROCEDURES to ensure adequate time is allowed for each type of submittal required. All Contractor forms for submitting test results are subject to Contracting Officer approval.

3.6 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least three phases of control shall be conducted by the CQC System Manager for each definable feature of work as follows:

3.6.1 Preparatory Phase

This phase shall be performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase shall include:

- a. A review of each paragraph of applicable specifications, reference codes, and standards. A copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field shall be made available by the Contractor at the preparatory inspection. These copies shall be maintained in the field and available for use by Government personnel until final acceptance of the work.
- b. A review of the contract drawings.
- c. A check to assure that all materials and/or equipment have been tested, submitted, and approved.
- d. Review of provisions that have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
- f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- g. A review of the appropriate activity hazard analysis to assure safety requirements are met.
- h. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- i. A check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.
- j. Discussion of the initial control phase.
- k. The Government shall be notified at least 48 hours in advance of beginning the preparatory control phase. This phase shall include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC System Manager and attached to the daily CQC report. The Contractor shall instruct applicable workers as to

the acceptable level of workmanship required in order to meet contract specifications.

3.6.2 Initial Phase

This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

- a. A check of work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.
- b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing.
- c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.
- f. The Government shall be notified at least 24 hours in advance of beginning the initial phase. Separate minutes of this phase shall be prepared by the CQC System Manager and attached to the daily CQC report. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.
- g. The initial phase should be repeated for each new crew to work onsite, or any time acceptable specified quality standards are not being met.

3.6.3 Follow-up Phase

Daily checks shall be performed to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work which may be affected by the deficient work. The Contractor shall not build upon nor conceal non-conforming work.

3.6.4 Additional Preparatory and Initial Phases

Additional preparatory and initial phases shall be conducted on the same definable features of work if: the quality of on-going work is unacceptable; if there are changes in the applicable CQC staff, onsite production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

3.7 TESTS

3.7.1 Testing Procedure

The Contractor shall perform specified or required tests to verify that

control measures are adequate to provide a product which conforms to contract requirements. Upon request, the Contractor shall furnish to the Government duplicate samples of test specimens for possible testing by the Government. Testing includes operation and/or acceptance tests when specified. The Contractor shall procure the services of a Corps of Engineers approved testing laboratory or establish an approved testing laboratory at the project site. The Contractor shall perform the following activities and record and provide the following data:

- a. Verify that testing procedures comply with contract requirements.
- b. Verify that facilities and testing equipment are available and comply with testing standards.
- c. Check test instrument calibration data against certified standards.
- d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
- e. Results of all tests taken, both passing and failing tests, shall be recorded on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test shall be given. If approved by the Contracting Officer, actual test reports may be submitted later with a reference to the test number and date taken. An information copy of tests performed by an offsite or commercial test facility shall be provided directly to the Contracting Officer. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

3.7.2 Testing Laboratories

a. Validation

The testing laboratory shall be validated by the Corps of Engineers Materials Testing Center (MTC) for all tests required by the contract prior to the performance of any such testing. The validation of a laboratory is site specific and cannot be transferred or carried over to a facility at a different location. Any and all costs associated with this Government laboratory validation shall be borne by the laboratory and/or the Contractor. Validation of a laboratory is not granted for the entire laboratory activity, but only for the specific procedures requested by the inspected laboratory. The inspected laboratory has full choice of the procedures to be inspected except that the Quality Assurance portion of ASTM E 329 is mandatory to be inspected.

(1) Validation Procedures

Validation of a laboratory may consist of either an inspection or audit as defined herein. Validation of all material testing laboratories shall be performed by the MTC. Validation may be accomplished by one of the following processes:

- (a) Inspection. Inspection shall be performed by the MTC in accordance with American Society for Testing and Materials (ASTM) standards ASTM E 329 and ASTM D 3740.

(b) Audit. A laboratory may be validated by auditing if it has been accredited by the Concrete and Cement Reference Laboratory (CCRL) or AASHTO Materials Reference Laboratory (AMRL) within the past two years in accordance with ASTM E329. Audit shall be performed by the MTC. Inspection by MTC may be required after auditing if one or more of the critical testing procedures required in the project specification were not included in the CCRL or AMRL inspection report or if there is any concern that the laboratory may not be able to provide required services.

b. Standards of Acceptability

(1) Aggregate, concrete, bituminous materials, soil, and rock. Laboratories for testing aggregate, concrete, bituminous materials, soil, and rock shall be validated for compliance with ASTM E 329, Engineer Manual (EM) 1110-2-1906, or project specifications, as applicable.

(2) Water, sediment, and other samples. Laboratories engaged in analysis of water, sediment, and other samples for chemical analysis shall be inspected to assure that they have the capability to perform analyses and quality control procedures described in references in Appendix A as appropriate. The use of analytical methods for procedures not addressed in these references will be evaluated by the CQAB for conformance with project or program requirements.

(3) Steel and other construction materials. Laboratories testing steel and other construction materials shall be validated for capabilities to perform tests required by project requirements and for compliance with ASTM E 329.

c. Validation Schedule

(1) For all contracted laboratories and project Quality Assurance (QA) laboratories testing aggregate, concrete, bituminous materials, soils, rock, and other construction materials, an initial validation shall be performed prior to performance of testing and at least every two (2) years thereafter.

(2) Laboratories performing water quality, wastewater, sludge, and sediment testing shall be approved at an interval not to exceed eighteen (18) months.

(3) All laboratories shall be revalidated at any time at the discretion of the Corps of Engineers when conditions are judged to differ substantially from the conditions when last validated.

d. Validation Process

If a validated laboratory is unavailable or the Contractor selects to use a laboratory which has not been previously validated, Contractor shall coordinate with Corps of Engineers Material Testing Center (MTC) to obtain validation and pay all associated costs. Point of contact at MTC is Daniel Leavell, telephone (601) 634-2496, fax (601) 634-4656, email daniel.a.leavell@erdc.usace.army.mil, at the following address:

U.S. Army Corps of Engineers
Materials Testing Center
Engineering Research and Development Center (ERDC)
3909 Hall Ferry Road
Vicksburg, MS 39180-6199

Procedure for Corps of Engineers validation, including qualifications and inspection/audit request forms are available at the MTC web site:

<http://www.wes.army.mil/SL/MTC/mtc.htm>

Contractor shall coordinate directly with the MTC to obtain validation. Contractor is cautioned the validation process is complicated and lengthy, may require an onsite inspection by MTC staff, correction of identified deficiencies, and the submittal and approval of significant documentation. Estimate a minimum of 60 days to schedule an inspection/submittal and receive a validation. ~~Cost of onsite inspections is \$4500 plus travel time and cost from Vicksburg MS. Cost of audits is \$2500. If an onsite inspection is required following an audit, the cost of the inspection shall be \$2500 plus travel time and cost. Schedule of costs:~~

Full Onsite Inspection	1 - 15 procedures	\$3500 + travel expenses
	16 - 40 procedures	\$4500 + travel expenses
	41 + procedures	\$5500 + travel expenses
Full Desk Audit (AASHTO inspected)		\$3000
Abbreviated Audit by AASHTO Accreditation		\$1500
Additional Procedures after Validation		\$500 each to a maximum of four procedures; more than four additional procedures calls for an onsite inspection of the additional procedures.

Travel time and associated costs will be determined from Vicksburg MS. The Contractor will be invoiced for actual travel costs and shall submit payment direct to the MTC made payable to the ERDC Finance and Accounting Officer prior to the scheduling of the inspection and/or audit. The Contractor shall copy the Contracting Officer of all correspondence and submittals to the MTC for purposes of laboratory validation.

3.7.3 Onsite Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests, and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

3.7.4 Furnishing or Transportation of Samples for Testing

Costs incidental to the transportation of samples or materials shall be borne by the Contractor. Samples of materials for test verification and acceptance testing by the Government shall be delivered to the Corps of Engineers Division Laboratory, f.o.b., at the following address:

U.S. Army Corps of Engineers
Materials Testing Center
Engineering Research and Development Center (ERDC)
3909 Hall Ferry Road
Vicksburg, MS 39180-6199
Phone: (601) 634-2496 or (601) 634-3261

ATTN: Project _____, Contract Number _____

Coordination for each specific test, exact delivery location and dates will be made through the Area Office. If samples are scheduled to arrive at the laboratory on a weekend (after 1700 Friday through Sunday) notify the laboratory at least 24 hours in advance at (601) 634-2496 to arrange for delivery.

3.8 COMPLETION INSPECTION

3.8.1 Punch-Out Inspection

Near the completion of all work or any increment thereof established by a completion time stated in the Special Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the CQC System Manager shall conduct an inspection of the work and develop a punch list of items which do not conform to the approved drawings and specifications. Such a list of deficiencies shall be included in the CQC documentation, as required by paragraph DOCUMENTATION below, and shall include the estimated date by which the deficiencies will be corrected. The CQC System Manager or staff shall make a second inspection to ascertain that all deficiencies have been corrected. Once this is accomplished, the Contractor shall notify the Government that the facility is ready for the Government Pre-Final inspection.

3.8.2 Pre-Final Inspection

The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. The Contractor's CQC System Manager shall ensure that all items on this list have been corrected before notifying the Government, so that a Final inspection with the customer can be scheduled. Any items noted on the Pre-Final inspection shall be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph shall be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

3.8.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative shall be in attendance at the final acceptance inspection. Additional Government personnel including, but not limited to, those from Base/Post Civil Facility Engineer user groups, and major commands may also be in attendance. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Notice shall be given to the Contracting Officer at least 14 days prior to the final acceptance inspection and shall include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work

performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance with the contract clause titled "Inspection of Construction".

3.9 DOCUMENTATION

The Contractor shall maintain current records providing factual evidence that required quality control activities and/or tests have been performed. These records shall include the work of subcontractors and suppliers and shall be on an acceptable form that includes, as a minimum, the following information:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and/or control activities performed with results and references to specifications/drawings requirements. The control phase shall be identified (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.
- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals and deliverables reviewed, with contract reference, by whom, and action taken.
- g. Offsite surveillance activities, including actions taken.
- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- i. Instructions given/received and conflicts in plans and/or specifications.
- j. Contractor's verification statement.

These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. The original and one copy of these records in report form shall be furnished to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every 7 days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work shall be for that day only. Reports shall be signed and dated by the CQC System

Manager. The report from the CQC System Manager shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

3.10 SAMPLE FORMS

Sample forms enclosed at the end of this section.

3.11 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

5. DAILY SAFETY INSPECTIONS (Include comments on new hazards to be added to the Hazard Analysis and corrective action of any safety issues):

6. REMARKS (Include conversations with or instructions from the Government representatives; delays of any kind that are impacting the job; conflicts in the contract documents; comments on change orders; environmental considerations; etc.):

CONTRACTOR'S VERIFICATION: The above report is complete and correct. All material, equipment used, and work performed during this reporting period are in compliance with the contract documents except as noted above.

CONTRACTOR QC REPRESENTATIVE

(Sample of Typical Contractor's Test Report)

TEST REPORT

STRUCTURE OR BUILDING _____

CONTRACT NO. _____

DESCRIPTION OF ITEM, SYSTEM, OR PART OF SYSTEM TESTED:

DESCRIPTION OF TEST: _____

NAME AND TITLE OF PERSON IN CHARGE OF PERFORMING TESTS FOR THE CONTRACTOR:

NAME _____

TITLE _____

SIGNATURE _____

I HEREBY CERTIFY THAT THE ABOVE DESCRIBED ITEM, SYSTEM, OR PART OF SYSTEM HAS BEEN TESTED AS INDICATED ABOVE AND FOUND TO BE ENTIRELY SATISFACTORY AS REQUIRED IN THE CONTRACT SPECIFICATIONS.

SIGNATURE OF CONTRACTOR
QUALITY CONTROL

INSPECTOR _____

DATE _____

REMARKS

-- End of Section --

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Projnet/Dr. Checks Bidder Inquires and Answers added. "The questions/responses provided below are for your information as to what other offerors have asked. The responses provided do not constitute a change to the plans or specifications. Only amended specifications or drawings provided in amendments will change the solicitation requirements."

Bidder Inquiries Complete to Date NWS Howard Hanson Dam, Cofferdam Excavation (sorted by CommentID)

ID	Spec	Sheet	Detail
388446	02845, 2.1.2, Concrete Piles	n/a	n/a
<p>This specification calls for 4,000 psi concrete backfill of the soldier pile beam shafts. This is acceptable in the embedded length but will not allow for chipping out of the concrete in the exposed or lagged length for lagging board installation behind the pile flange. Will lean mix (1.5 sack mix) be allowable in the lagged length of the shafts?</p>			
1-1	<p>See the Amendment 4 revisions on the drawings and specs. Lean concrete will be allowed above elevation 1171 in the soldier pile shafts.</p>		
388469	02490, 3.3.4.2, Watertightness Test	n/a	n/a
<p>This specification refers to "cement-grouted bolts" whereas the specification relates to the retaining wall tiebacks and rock anchors (per section 1.3.1, General). Please clarify "bolts" and to what work items the watertightness test will be applicable.</p>			
1-1	<p>See Amendment 4 revisions. The word "bolts" will be changed to "anchors". Also, the Watertightness Test paragraph will be amended to require the watertightness test only for anchors and bolts that terminate in rock. Anchors that terminate in soil will not require the watertightness test.</p>		
388478	02845, 2.1.1, Soldier Piles	n/a	n/a
<p>This specification refers to Division 5 for further pile specifications. Please clarify what Division 5 is.</p>			
1-1	<p>Division 5 includes all of the metals specification sections (05xxx). The fabrication, welding, and material requirements of the Division 5</p>		

	specification sections are especially applicable to the structural steel soldier pile fabrications.		
388489	02845, 2.1.2, Concrete Piles	n/a	n/a
Is this specification referring to the soldier pile beam shafts and concrete backfill for the shafts and please clarify where Division 3 specifications are.			
1-1	See Amendment 4 revisions. Lean concrete will be used above elevation 1171 in the shafts containing the steel soldier piles. Regular 4000 psi concrete will be used below elevation 1171. Division 3 contains the concrete related specification sections (03xxx).		
388515	02845, 3.1, Backfill	n/a	n/a
Specification calls for compacted pea gravel backfill of lagging. Pea gravel is a self-compacting material and the void between the lagging boards and the soil will be very small and not large enough for compaction equipment. Will the placement of lean mix (1.5 sack mix) be acceptable			
1-1	Pea gravel is needed to backfill any voids behind the lagging. Hand rod tamper tools could be used. The pea gravel backfill serves to eliminate voids and to help provide drainage behind the wall. Lean concrete fill behind the lagging will not be allowed because it prevents drainage through the lagging.		
388868	n/a	n/a	n/a
Can we receive the original ground survey of the site via CADD or other software? Obtaining this information is critical in our preparation of our RFP.			
1-1	An amendment to be issued soon changes the bid schedule to add the quantities for excavation and related items. Doing so removes the need for bidders to obtain CADD files.		
388872	n/a	n/a	n/a
We request that the RFP due date remain the 3rd of November as originally depicted in the RFP. This date works the best for our company and we remain confident that there is ample time to prepare the RFP.			

1-1	We've gotten many requests in favor of extension and have determined that it is the best interest of the government to extend the bidding date two weeks to November 18th.		
388973	n/a	122	155
Reference: Drawing S2.20Jack Post Detail and Level Indicator Post Detail both show a 5" sch 40 pipe with ACME threads threading into a 6" XXS pipe sleeve. There appears to be a problem with this in that 5" sch 40 pipe has a wall thickness of .25" and if an ACME thread is cut into the pipe there will not be any wall thickness left at the bottom of the threads. The second problem is that the inside diameter of the 6" XXS pipe (4.897") is smaller than the inside diameter of the 5" sch 40 pipe (5.047"). It may be necessary to provide a thicker wall pipe section in the area of the ACME threads on the 5" pipe.			
1-1	See Amendment 4 revisions. The 5" pipe wall thickness has been increased		
390122	n/a	GT2.11	n/a
This plan sheet shows the rock bolts for the north slope. The lowest lift (elev. 1021 to 1034) does not have the slope support category indicated.			
1-1	See Amendment 4. Excavation below Elevation 1074 in excavation area 1c has been deleted from the contract.		
391813	n/a	n/a	n/a
Due to the extensive RFP, specifically the technical proposal requirements and the time necessary to obtain the owner responses from the Customer Satisfaction Survey, Balfour Beatty requests a proposal due date extension of four weeks (Dec 1, 2003).			
1-1	Two week extension to November 18th will be granted by amendment.		
391864	03440	SD-07	n/a
The specification requires that the precast concrete manufacturing plant be certified by PCI. Is this submittal requirement intended for a contractor using an offsite commercial precast plant? If the contractor chooses to set up an onsite precasting			

operation, will the PCI certification still be required?			
1-1	If you read more closely, you will see that the Contractor is given a choice. Either the precasting plant must be PCI-certified OR the listed quality control monitoring requirements must be met. If the precasting operation is set up onsite, the defined quality control monitoring requirements must be met since it is not a PCI-certified plant.		
392077	n/a	n/a	n/a
Balfour Beatty requests another opportunity to view the project site.			
1-1	Another site visit is being planned for November 4th. All bidders will be notified.		
392692	02251	4	n/a
Step 1 of the Proposed Cofferdam Construction Sequence states that left abutment and intake structure grouting takes place while the pool is above El. 1100. Will grouting of these areas be allowed when the pool is below El. 1100?			
1-1	Yes. However, the maximum gauge pressures shown on the drawings are based on a reservoir pool elevation of 1150. If grouting is performed when the pool elevation is lower than El. 1150, then the maximum gauge pressure shall be adjusted. The method to calculate the 'rule of thumb' gauge pressure for the left abutment grout curtain is presented in Note 14 on Plate GT4.3.		
393051	n/a	S6.2	n/a
Various notes on this plan sheet indicate the flood wall rock anchors will be stressed but the stressing load is not indicated. Please provide a design lock-off load for these anchors.			
1-1	See the Amendment 4 revisions. Note 3 on S6.2 will more clearly indicate the design lock-off stress in the rock anchors for the flood / retaining wall.		
393282	05616	143	n/a

The Lifting Beam Mechanism is shown schematically only, without member sizes or part dimensions. Please provide this design information.

1-1	More info on the lifting beam will be provided by amendment.

393388	00110	9	amendment 1
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Sub Factor B Summary of Duties and Responsibilities of Key Personnel. Paragraph states that the list of personnel to provide data on follows. The list of personnel is missing, please provide the list.

1-1	This will be added by amendment.

393399	Instructions to bidders	n/a	n/a
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The detailed nature of the information required for the RFP by Amendment No. 1 requires considerable time and effort to produce. Some information cannot be developed until parts of the estimate and project schedule are complete. We request a three week extension of the the bid period in order to complete the RFP.

1-1	The bid date will be extended by amendment.

393887	n/a	S8.3	n/a
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Note 2, sheet S8.3 indicates the rock anchors are detailed on sheet S3.9. Sheet S3.9 details the rock anchors for the cofferdam precast segments and the south wall. Elevations in these details do not match up to those shown on sheet S8.3. The specific question is at what elevation does the anchor encapsulation for the rock anchors shown on sheet S8.3 terminate. Is it at the rock elevation shown as approximately 1035 or at the top of the tremie concrete shown at elevation 1085.

1-1	See the Amendment 4 revisions. The revised notes on S8.3 no longer refer to Sheet S3.9, and they should clarify the threadbars.

394232	02490 Soil and Rock Anchors	n/a	n/a
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Paragraph 3.3.4.2, page 13, last sentence refers to "rock bolt holes" - this specification is for soil and rock anchors. Should this last sentence be changed to read "soil and rock anchors"?

1-1	See the Amendment 4 revisions. The term "rock bolt" has been changed to "anchor".		
394233	n/a	n/a	n/a
Is three phase power currently available at the dam?			
1-1	The contractor must provide their own power. No power will be provided by the government, see Section 1501, 1.1 of the specs.		
394236	02521	n/a	n/a
02521-1.6-I requires the dewatering system to be turned over to USACE at project completion, does this include generators?			
3-1	The phase 2 contractor will assume responsibility for dewatering the excavation and will bring his own equipment. The cofferdam contractor is not required to leave the generators.		
394238	n/a	n/a	n/a

Bid items 0008 and 0009 are to be paid in LF. Is this LF the vertical feet of drilled hole or vertical feet of installed well?			
1-1	Bid items 0008 and 0009 should be paid as the LF of drilled hole.		
394242	02491	n/a	n/a
In section Cement Grouted Untensioned Rock bolts, paragraph 3.5.1, page 11, will any of these underwater rock bolts require performance and/or proof testing?			
2-1	Five percent of the cement grouted untensioned rock bolts installed under water should be proof tested.		
394249	02214	n/a	n/a
Instrumentation, paragraph 1.12 on page 7, states the contractor is to protect existing conduits on site. Could the USACE provide a drawing of where these conduits and instrument leads are located on the project?			
1-1	Instrument and instrument conduit locations are shown on Plate GT-1A.		
394263	05055	n/a	n/a
This specification section requires that most kinds of weld testing be performed in the presence of the Contracting Officer. Does the Contracting Officer intend to have a representative at the manufacturing site of all the miscellaneous metal work fabrication? If so, who pays for the travel and other expenses?			
1-1	Government will pay for its own expenses. Contractors must provide for their own expenses in their bid.		
394265	05055	n/a	n/a
This specification section requires that most kinds of weld testing be performed in the presence of the Contracting Officer. Does the Contracting Officer intend to have			

a representative at the manufacturing site of all the miscellaneous metal work fabrication? If so, who pays for the travel and other expenses?			
1-1	This is a Duplicate Inquiry (see Inquiry #394263). Response: Government pays for its own expenses. Copntractors must include their expenses in their bid.		
394455	02491, 3.5.2	n/a	n/a
This specification indicates rock bolt test locations will be selected by the Contracting Officer. Can you clarify at this time whether any of these locations may be selected for rock bolts installed below the water surface. Such testing will be quite costly and we need to know if such costs should be anticipated in bidding the project.			
1-1	Five percent of the cement -grouted untensioned rock bolts installed under water should be proof tested.		
394457	n/a	n/a	n/a
Will the drill cuttings during drilling of underwater rock bolts and rock anchors be allowed to discharge into the reservoir water or must they be captured and transported out of the water?			
3-1	Contractor not required to capture tailings but must meet overall water quality specifications of the contract. This includes notifications of expected turbidity allowing Tacoma water to go offline in event of unavoidable turbidity.		
394463	n/a	n/a	n/a
There seems to be a discrepancy between whether we use neat cement grout or non-shring grout in the soldier pile tiebacks, rock bolts and rock anchors. The specifications indicate these items are backfilled with neat cement grout whereas the drawings indicate we use non-shrink grout. Please clarify.			

1-1	See Amendment 4 revisions. Grout for all soil and rock anchors, including the soldier pile tieback anchors, shall be nonshrink grout. The specifications have been clarified concerning this.		
395836	01025	93	n/a
Will the excavation denoted on plate C1.4 as "Phase 1A Dredging - remove material along toe of left bank" be measured and paid for under Bid Item 0003 Reservoir Excavation & Debris Removal From Trash Racks?			
2-1	Yes, it will.		
396234	02251, 3.2	n/a	n/a
The specification allows a maximum tolerance for deviation in angle and direction of 1/2 degree. This will not be attainable given the hole batter and depth. Can this tolerance be modified to 2 to 3 degrees.			
2-1	A deviation of one degree along the grout hole alignments will be acceptable. However, if a possible deviation of one degree is assumed, then, without compromising the performance of the intended grout curtain, the grout holes for the intake structure grout curtain will have to be repositioned so that the grout holes will not intercept the existing intake structure. A plan for repositioning the intake structure grout curtain grout holes shall be submitted to the Contracting Officer for approval prior to start of the intake structure grout curtain drilling.		
396236	n/a	n/a	n/a
Why does the bid schedule not contain line items for the following: Foundation drilling and grouting lengths Soldier pile and tieback wall square footage Rock bolt lengths Rock anchor lengths.			
1-1	A one split bid Item for foundation drilling, grouting and soldier piles		

	will be added in amendment #4. The tieback wall square footage is included in bid item #1. Rock bolt costs per each type will be added in amendment #4.		
396658	n/a	n/a	n/a
Will it be possible to schedule an additional site visit prior to bid date? We have approximately 4 people from our firm that wish to visit the project.			
1-1	Another site visit is being planned for November 4th. All bidders will be notified.		
397214	n/a	n/a	n/a
We are requesting a second site visit so we can bring specific subcontractors and other people within our company to the jobsite that were unable to attend the first site visit.			
1-1	Another site visit is being planned for November 4th. Bidders will be notified.		
398781	3371	n/a	n/a
Will shotcrete be subjected to a 90 minute discharge time period. Our shotcrete suppliers tell us that the steel fiber dosage of 100 lbs./cy will significantly reduce the amount of time available to the load since the fibers have to be introduced after the truck is loaded. We also have significant travel time from any of the shotcrete suppliers plants to the project. These concerns could be mitigated by using an equivalent alternative fiber consisting of WR Grace Strux 8550 in lieu of the steel fibers. Usage of the Grace fibers would also reduce equipment usage costs (pumps, hoses and nozzels) and mitigate potential steel fiber corrosion.			
2-1	The shotcrete will be subjected to the 90-minute discharge time period. However, the contractor may propose additives to the shotcrete mix for review and approval by the Contracting Officer that would extend the life of the shotcrete mix. No change to the fiber type and dosage is recommended.		

399275	02212 - 1.4.2	5	n/a
<p>Section 1.4.2 Excavation Bench Blasting states " (4) Lookout of perimeter holes: Lookout shall be limited to the minimum necessary to collar holes for the next bench." The term "lookout" is not normally used in this context in the local blasting industry. If we understand the usage correctly this is the setback from the design slope allowed for collaring. The industry standard for setback for line holes is 18 inches. Due to the 20 ft vertical wall design and the 8 and 10 ft lift limits this will cause an undercut of the slope and allow the slope to overhang the excavation. Is this your intent?</p>			
2-1	Yes.		
399276	02251	n/a	n/a
<p>Reference Section 3.2.4 "Exploratory Hole Drilling". If required by engineer, how will this drilling be paid for?</p>			
1-1	In amendment #4, a split bid item #11 for drilling will be added. The amount for the A item of the split bid item should include costs for the exploratory holes.		
399277	02251	n/a	n/a
<p>Reference Section 3.2.4 "Exploratory Hole Drilling". Please confirm that there is a typo in section b, and that the next to last line should read "at an angle less than 50 degrees" --- rather than greater than 50 degrees.</p>			
2-1	The sentence should read "at an angle less than 50 degrees ..."		

399278	02251	78	n/a
<p>On sheet 78 of the drawings, the left table "Cofferdam Foundation----" I think there is a typo error in the "B" line of grout holes as CF-B-P2-1-11 was omitted causing an odd number to be the last number in his sequence "21". Please verify.</p>			
2-1	<p>Last hole in line B was omitted. Hole is two stage. Hole identification number for stage 1 is: CF-B-T1-1-11, depth of 15 to 45 feet at station 0+52. Hole identification number for stage 2 is: CF-B-T2-1-22, depth of 45 to 75 feet at station 0+52.</p>		
399280	plans	GT4.3 & GT4.4	n/a
<p>Notes 1 and 3 on the plan sheet direct the drilling sequence but include "as needed" notes. Drilling for foundation grouting is included in Bid Item 0001 which is a lump sum item. The remainder of the work for the curtain grouting is included in unit price items 0010 through 0013AB. Since a part of the drilling may not be required there should be an item for drilling and redrilling foundation grouting holes to reduce the risk to the contractor and allow a lower bid cost.</p>			
1-1	<p>A split bid item for both drilling and redrilling will be added in amendment #4.</p>		
399282	n/a	GT4.4	n/a
<p>The chart labeled "Cofferdam Foundation Grout Curtain Stage Down Grouting" On the bottom third of the chart Hole/Stage #CF-C-P2-1-11 shows a stage depth from 15 to 45. Should this be from 45 to 75?</p>			
2-1	<p>Yes.</p>		
399288	02251	n/a	n/a
<p>Reference Section 2.1.3 "Pozzolans". How will the contractor be paid for the pozzolan used in the grout?</p>			

2-1	<p>To clarify, the specification does not require pozzolans, but includes language specifying how pozzolans will be used if the contractor, with COR approval, desires to use them to meet the grouting performance criteria. There is currently not a separate pay item for pozzolans in the amendment bid schedule. Grout ingredients beyond cement and bentonite could be made incidental to the grout hookup item. I expect that different contractors will propose their own ideal grout mixtures based upon their experience. We want to encourage the contractor to minimize grout waste and maximize delivering the grout to the fractures and reducing permeability. We expect him to adjust his grout mixture as necessary to accomplish this goal. I fear that if we include quantities for the various components of the grout, then the contractor has no incentive to develop a grout that minimizes waste.</p>		
399291	02251	4	n/a
<p>Section 2.1.7 Bentonite states "Bentonite shall be sodium (Na) cation, powdered montmorillonite. It shall be added to the cement grout 2 percent to 5 percent by weight of cement." Bid items 0012AA and 0012AB add to the 150 bags of bentonite, this is enough for 7.7% of the 1950 bags of cement in bid items 0011AA and 0011AB. Should the quantity for item 0012AB be 25 bags in stead of 75 bags?</p>			
2-1	<p>Contractor needs to propose a mix that will meet performance specifications. Therefore, quantities used will depend on conditions encountered and mix used by contractor.</p>		
399292	02251	n/a	n/a
<p>Reference Section 2.1.3 "Pozzolans". What is the percentage of pozzolan, if required, as a function of cement weight?</p>			
2-1	<p>To clarify, the specification does not require pozzolans, but includes language specifying how pozzolans will be used if the contractor. with</p>		

	<p>COR approval, desires to use them to meet the grouting performance criteria. There is currently not a separate pay item for pozzolans in the amendment bid schedule. Grout ingredients beyond cement and bentonite could be made incidental to the grout hookup item. I expect that different contractors will propose their own ideal grout mixtures based upon their experience. We want to encourage the contractor to minimize grout waste and maximize delivering the grout to the fractures and reducing permeability. We expect him to adjust his grout mixture as necessary to accomplish this goal.</p>		
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399294	02251	n/a	n/a
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There is no unit price for the grout hole drilling in the bid quantities. Should the contractor assume that all and only the drilling shown in the drawings as primary, secondary, and tertiary will be required in order to make it a lump sum bid item?

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1-1	A split bid item of grout hole drilling and redrilling will be added in amendment #4.		
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399296	02251	n/a	n/a
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How would payment for variations to the grout hole drilling quantities be addressed?

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1-1	A split bid items for drilling and redrilling will be added in amendment #4.		
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399320	As-built Drawings	Plate S-3	n/a
An 8-foot thick slab with rock anchors shows on the south side of the outlet tower on the seismic upgrade drawing (Plate S-3). This slab appears to be within the limits of the 1B (Plate C1.4) and 1C (Plate C1.5) excavation limits. There is no indication that demolition of this slab or the rock anchors is required, please advise.			
1-1	Reference sheets GT2.10 and GT2.11. These drawings show that the rock should be removed up to the face of the 8-foot thick slab. There is no demolition of the existing concrete of the 8-foot thick slab. The slab should not be undermined.		
399325	As-built Drawings	S-3	n/a
Seismic Upgrade Tapered Addition, Plate S-3 Is the "North Arrow" direction shown correctly on this drawing?			
1-1	On Plate S-3 of the As-Built Reference Drawings, Section A, the direction of the north arrow is shown incorrectly. Please see As-Built Plates G-3 and G-4 for the correct north arrow orientation.		
401107	n/a	90	n/a
Most of the existing ground contour elevations on the General Site Plan are illegible. Please provide legible contour elevations. (Plate C1.1)			
1-1	Plate C1.1 is an overview of the project. The same information - including legible existing ground contours - is shown at a larger scale on		

	other plates such as C1.4, C1.5, C2.1, and C2.2.		
402013	n/a	n/a	n/a
Is there a location at the dam site where the GC and Subcontractor office trailers can be set up for the durationm of the project?			
2-1	It was assumed that the contractor's trailers could be set up directly in front of the spillway subject to the conditions of the Emergency Demobilization spec 01050, paragraph 1.1.B.2 and others.		
402015	01061	page 3	1.8
Will the Corps require that the trees and shrubs that are marked for removal in the disposal site and other areas of the project be replaced by the Contractor per Item 1.8 Section 01061 page 3 of the specifications?			
2-1	Contractor will not be required to replace trees. Only trees necessary for contractor's activities shall be removed. The contractor must regrade and clean up prior to leaving the site.		
402017	n/a	120 of 155	n/a
What is the exact kind of the 1 ½ x 1 ½ continuous edge seal. These seals are used to join the pre-cast segments. The most detail for this seal is on drawing sheet 120 of 155. It describes the seal as closed cell foam, but there is no reference to this in the specifications.			
1-1	See Note 1 on sheet 120 (S2.18). The edge seal material is defined in this note.		
402019	n/a	n/a	n/a
Are there rock cores taken at the proiect location that are avialable for review on			

November 4th, 2003?			
1-1	Selected rock cores representing the three rock types discussed in the GBR will be made available for the 4 November site visit.		
402235	02490	n/a	n/a
Paragraph 3.6.2 Replacement of Anchors states "Any anchor that fails the performance test or is rejected by the Contracting Officer shall be replaced." The paragraph applies to both contractor designed soil and owner designed rock anchors. This does not allow remedy for anchors installed in conformance with the contract documents which fail due to design or subsurface condition deficiencies. Please limit the paragraph to the contractor designed tieback anchors.			
1-1	This item was discussed with the geotechnical and structural engineers. A similar paragraph is in Section 02491. There are adequate safety factors concerning the subsurface conditions, so it is considered highly unlikely that a failure of the subsurface rock or soil will occur during testing. The specification paragraph will remain as it is currently.		
402237	02491	2	n/a
Paragraph 1.4.1 states "The untensioned cement grouted rock bolts will generally be 20 or 30 feet long. However, the Contractor shall be required to install bolts up to 40 feet long upon the request of the Contracting Officer. Should a bid item for these 40 foot rock bolts be included in the contract bid schedule or will they be paid for as extra work?"			
2-1	Addendum No. 4 includes a change to pay untensioned, cement-grouted rock bolts by the linear foot rather than lump sum. Therefore, bolts longer than 20 or 30 feet would also be paid by the linear foot at the unit price for the bid item.		
402238	02521	5	n/a
Paragraph 1.6.c states, "...If the completed system does not satisfy the dewatering system acceptance requirement in in paragraph, Dewatering System Acceptance,			

additional wells shall be installed." If the individual wells meet the acceptance criterial but the system as designed does not perform to an acceptable level, there will be significant impacts to both the project schedule and cost. How will the contract be modified for these impacts?			
2-1	Dewatering System Acceptance should not impact the schedule and cost of the Phase 1B area excavation.		
402239	02525 and Plate GT4.5	3	n/a
Paragraph 1.4.2 states, "A minimum of 20 passive relief wells are required. The total number of wells may be modified by the Contracting Officer as the work proceeds." The time allowed by schedule constraints is very limited. Additional well drilling may result delay the project enough to add an additional low water season to the work. How will the contract be modified for this impact.			
2-1	The contractor needs to state the question more clearly. There may be some confusion on the contractor's part relating to the timing of passive relief well installation to area 1B excavation. Area 1B will be excavated completely before passive relief wells are installed and the cofferdam will be constructed before passive relief wells are installed. The passive relief wells will be installed when the excavation in area 1C reaches an elevation of 1074 feet.		
402241	02525	3	n/a

Paragraph 1.4.6 states, "The contractor shall install the relief wells prior to or during excavation activities and prior to excavation below elevation 1074 feet. These wells are not used for the work in area 1B. Does this paragraph refer excavation below elevation 1074 in area 1C only or to all excavation below elevation 1074?"

2-1	This paragraph applies to the excavation below 1074 feet in the Phase 1C area only.

402243	02521	5	n/a
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Paragraph 1.6.c states, "The dewatering system shall be installed after grouting activities are complete. A minimum of eight deep dewatering wells will initially be installed prior to excavation. Passive pressure relief wells and two additional deep dewatering wells will later be installed during excavation within the footprint."The cofferdam grout curtain is not in place until the Phase 1B excavation is complete. Is it your intent to stop Phase 1B excavation at elevation 1074 and drill and install the dewatering system or should this paragraph read ...excavation of Phase 1C below elevation 1074?"

2-1	This paragraph applies to the Phase 1C area excavation.

402244	3371	3	n/a
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Paragraphs 1.2 and 1.4 require steel fiber in the shotcrete. Other fibers have been used on USCOE projects, are there acceptable alternate fibers for substitution of the steel fibers?"

2-1	Steel fiber reinforced shotcrete is specified. Alternative fibers have not been identified. I recommend that the contractors bid the project with steel fibers. The successful bidder may propose alternative fibers during the submittal process for consideration by the Contracting Officer.

Information in this report may be considered Sensitive But Unclassified (SBU).
Please review USACE agency data for SBU handling guidelines.

{Report Complete}

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