

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 15-Mar-2004	4. REQUISITION/PURCHASE REQ. NO. W26GLG-4015-7946	5. PROJECT NO.(If applicable)	
6. ISSUED BY CODE W91236 USA ENGINEER DISTRICT, NORFOLK CONTRACTING OFFICE 803 FRONT STREET NORFOLK VA 23510-1096		7. ADMINISTERED BY (If other than item 6) CODE See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. W91236-04-B-0007
			<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) 02-Feb-2004
				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 checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. 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: (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.				
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.) Solicitation No. W91236-04-B-0007, Demolition of Embrey Dam, Phase III, Rappahannock River, Fredericksburg, VA is modified as follows: A. Bid Opening is extended to 25 March 2004 at 2:00 PM. <p style="text-align:center;">SEE CONTINUATION SHEETS</p>				
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)		15-Mar-2004

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

The following items are applicable to this modification:

AMENDMENT 0004

- B. Section 00010, Bid Schedule is revised and copy is attached.
- C. Delete the "Questions and Answers" provided in Amendment 3 and replace with the "Questions and Answers " provided as part of this amendment.
- D. Amendment 4 changes are attached.

Section 00010 Solicitation Contract Form

<u>ITEM NO</u>	<u>SUPPLIES/SERVICES</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
0001	FFP- SCHEDULE 1 – BASE BID				
AA	All construction work on the removal of Embrey Dam, complete, exclusive of items 0001AB-0001AJ	1	Lump Sum	_____	_____
AB	All costs in connection with the excavation, sorting, hauling and stockpiling of silts, sands, gravels, loose rock and rubble around the crib dam and concrete dam to support the removal of those structures, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA and AC-AJ	21,000	CY	_____	_____
AC	All costs in connection with furnishing, transporting, stockpiling (if applicable), placing, and constructing the rip rap stone protection, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA-AB and AD-AJ.	1,120	Tons	_____	_____
AD	All costs in connection with the demolition, removal, crushing, sorting, placing, and stockpiling of crushed material, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA-AC and AE-AJ	6,600	CY	_____	_____
AE	All costs in connection with the demolition, removal, preparation (including removal of reinforcing steel), sorting, placing, and constructing rip rap core stone, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA-AD and AF-AJ.	1500	CY	_____	_____
AF	All costs in connection with the demolition, removal, preparation including, sorting, hauling, and disposal of steel, embedded steel, and cast iron, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA-AE and AG-AJ.	440	Tons	_____	_____
AG	All costs in connection with the geotextile used under rip rap, complete, including all work incidental thereto as shown on the drawings and as specified, exclusive of items AA-AF and AH-AJ	8,400	SF	_____	_____
AH	Zone 1	17,200	SY	_____	_____

QUESTIONS AND ANSWERS

- Question: What will be the cut off date and time to accept questions?
- Answer: There is no official; cut off prior to the bid opening date. There is no plan to issue further Amendments.
- Question: Can questions be emailed or Faxed. If so, to whose attention?
- Answer: All questions should be emailed or Faxed to our Contracting Branch, Attn: Charlotte Hoffstetter. The email address is:
Charlotte.G.Hofstetter@NAO02.USACE.ARMY.MIL
The FAX number is (757) 441-7183
- Question: Will we use the same staging area as the previous contractor?
- Answer: The contractor should be off site no later than October 2004. There is a requirement in the contract to work with other contractors in the area. See the accompanying Amendment for changes to Section 01005, Par. 1.7 and 1.7.1 COORDINATION IN WORK AREAS.
- Question: Is the stone to be pointed everywhere or only in places affected by the demolition work?
- Answer: See accompanying amendment to Section 02220, Par 3.1.3 and 3.1.5.
- Question: Is road sub-base material to be imported to the site or is there an on site borrow area?
- Answer: A considerable amount of sand and clay sands are stored at Laydown Area 3. The contractor may use those materials for the road sub-base.
- Question: Is a special permit(s) required to construct the river crossing to access the north side?
- Answer: The river crossing is covered in a VMRC and DEQ permit. The contractor is required to coordinate with VMRC and DEQ during demolition as specified in the permit. Copies of the permits are included in this amendment.
- Question: In Reference to the Demo Spec, Section 02220, Page 5; “The following items reserved as property of the using Service shall be removed prior commencement of work under this contract: concrete suitable for reuse, wood and iron form the crib dam, and soil and stone excavated or removed from crib dam.” What does this mean?

Answer: See Amendment 2, # 2 under Technical Changes. This replaces the original paragraph and should clarify.

Question: The paragraph following question 2 states: “Combustible & organic material shall be disposed of in the sanitary land fill area located off site.” Does this mean there is a designated area? And if so, where is it?

Answer: The paragraph will be changed as part of this amendment to clarify.

Question: Amendment 2, Section 00010, Item # AH indicated 28,000 sq. yd. Of riparian restoration which is approximately 5.8 acres. However sheet C-112 indicated a total of 6.55 acres of riparian restoration. Which is the correct amount?

Answer: The bid schedule shall be corrected to show the correct amount.

Question: The plant list on sheet C-113 does not specify between bare-root, container or b+b specimens. Would you please clarify?

Answer: Refer to this Amendment for clarification.

Question: Landscape Note # 12 on sheet C-113 indicates the use of sapling sleeves. Please provide a specification for these sleeves and their installation.

Answer: Refer to this Amendment for clarification.

Question: Will the vegetative planting zones be graded or sloped prior to plant installation or will the exposed banks be left as is?

Answer: Only where grading is required on other parts of the drawings. Grading is not a requirement for revegetation of the riparian zone, but revegetation is required for areas designated to be graded.

Question: What is the approximate square foot of zone 3 restoration planting? This item remains a lump sum so the area is required for bidding.

Answer: The bidders should be able to bid this item from the drawings.

Question: General Note #1 on sheet C-113 indicated the use of erosion control matting “as slopes necessitate”. Based on current slope conditions should we assume using blankets on all slopes for bidding purposes?

Answer: Refer to this Amendment for clarification.

Question: Will shredded hardwood mulch be required for all plantings/ Woody plantings only? Zone 3 plantings only? Mulch typically is not used in flood prone planting zones.

Answer: Refer to this Amendment for clarification.

Question: Will the mulch currently on-site at laydown area 3 be available for mulching plantings as needed?

Answer: No, the mulch is to be removed by the dredging contractor or his subs.

Question: The planting specifications Section 02930 indicated numerous soil amendments, staking and guying & mulch, which are typically not used on riparian restoration projects and are reserved for standard landscaping work. Do these landscaping specifications apply to the riparian restoration plantings?

Answer: Refer to this Amendment for clarification.

Question: During the 3-year warranty for the planting: is the contractor responsible for replacement of material lost due to storm +high water events?

Answer: Refer to this Amendment for clarification.

Question: Please expand on planting densities for example these are 10 M-L Plant species each on 10' Centers. I assume each species is placed on 10' Centers in relation to other species in that zone. Would this be correct? This would seem most logical to me.

Answer: Yes.

Question: As far as I can tell no grading is required on Zone 1 and Zone 2. Is this correct?

Answer: See answer above.

Question: Grading is needed for the area between the plug and the old stonework (Work Item #14). How will this area be seeded and planted?

Answer: Refer to sheet C-105, Note # 9.

Question: How will all other disturbed areas be planted? Example: Road from Laydown Area 1 to Laydown Area 3 (Work Item #19).

Answer: Only so far as is required for erosion control.

Question: How will the road that is part of Zone 3 on the property of the City of Fredericksburg be planted? This area is to be left as road. Would we plant everything except that?

Answer: Yes, this area is to be left as road.

Question: Clarify Note 17 as it relates to the Guth property.

Answer: Will clarify in this amendment.

Question: Concerning planting on the north side. How will we access the north side in Feb. 2005? Is there leeway in the planting dates? What happens for access during the warranty period?

Answer: Access is the responsibility of the contractor whether during planting season or during warranty period. The planting dates are as required in the bid documents.

Question: **Drawing G002, Scope of Work Note 8:** Details of the dam components including top and side slab and buttresses are given in drawings D101 and D102. We have not been able to find a detail of the “complete foundation” that is to be demolished per note 8. Is there a detail of the dam foundation and will it be made available for bidding purposes?

Answer: Available drawings are in the Plans. No as-builts exist.

Question: **Drawing G002, Scope of Work Note 9:** This note is for the removal of the wooden and stone crib dam and lists timbers, fill including soil, stone and rip rap. The detail for the crib dam shown on D102 shows only timbers in the dam’s construction. Bid item AI refers to only timbers and iron in the crib dam. How much soil, stone and riprap may we expect to find as part of the crib dam?

Answer: Refer to Bid Item AB.

Question: If stone or riprap is part of the crib dam, may we use this stone as core stone and rip rap around the buttresses?

Answer: Yes it may be used as core stone if it meets the gradation requirements for Class I or II stone.

Question: If soil is encountered in demolition of the crib dam, is this soil to be spread about with the sand along the river, stockpiled in staging area 3 or is it to be removed from site as part of bid item AJ?

Answer: It is covered under Bid Item AB. As for " to be spread about with the sand along the river" is not a requirement in the Plans or Specs.

Question: **Drawing G002, Scope of Work Note 10:** This note includes re-grouting of brick and stone. The brick and stone requiring re-grouting may be an arbitrary amount based on direction in the field. This could turn out to be a significant cost depending on quantity and location of the re-grouting work. Will the solicitation bid schedule include a separate bid item for re-grouting of brick and stone or is there any estimated quantity of this work to be done?

Answer: The requirements have been changed as part of this amendment.

Question: **Drawing G002, Scope of Work Note 10:** This note includes riprap as determined by the COR for the remaining structure on the south side of the river. There is no detail in the drawings for the riprap work that may be required on the south side of the river. Will a detail drawing and a separate bid item be provided for riprap work on the south side of the river?

Answer: Bid Items AC, AE and AG are for riprap on the project. No drawing will be provided. Placement of Riprap on the south side will be at the direction of the COR and will be paid for under the bid items cited above.

Question: **Drawing G002, Scope of Work Note 14:** The area between the canal plug and the old stone work is to be graded as shown on the civil drawings. According to the civil drawings C101 and C105 some of the regarding work includes regarding to approximately 20 feet south of the southern-most portion of the old stone work. Based on visual observations during the site visit (see included picture) it seems that the rock ledge is adjacent to the stone structure with no room for grading work. Are C101 and C105 accurate with respect to the location of the grading to take place between the stone structure and the rock ledge, or is the contractor expected to cut into the rock ledge to complete the grading as shown?

Answer: Removing intact rock to accomplish the grading indicated in this area is not required.

Question: **Drawing G002, Scope of Work Note 16:** Restore laydown area 2. Are details available to show to what condition the contractor to restore this laydown area?

Answer: More description will be provided in this Amendment.

Question: **Drawing G002, Scope of Work Note 17:**Based on discussion in the pre-bid meeting, may the contractor assume that this note will be changed to read, “Remove stone from temporary access road and re-grade for positive drainage?”

Answer: Yes, per this amendment.

Question: **Drawing G002, Scope of Work Note 18:** Restore laydown area 1. Are details available to show to what condition the contractor to restore this laydown area?

Answer: See this amendment. Note on C-104 has been rewritten.

Question: **Drawing C101, Note 5:** Based on discussion in the pre-bid meeting, may the contractor assume that the portion of this note pertaining to the Guth Property will be changed to read, “Remove stone from temporary access road and re-grade for positive drainage?”

Answer: Requirements are changed per this amendment.

Question: **Drawing C102 & C103, Profile:** The profile drawings show fill for the access road as deep as 8 feet. Will the soil for this fill be available on site?

Answer: Yes.

Question: If this soil is not available on site, will a bid item be added to address the quantity, purchase and delivery of borrow material for the access road?

Answer: No.

Question: **Drawing C104, Note 2:** This note includes information on how laydown area 3 is to be developed for use in this project including grading the dredge disposal area to natural grade and removal of the weir. According to the current contract for the on-going work at the dredge disposal area, regarding to natural grade and removal of the weir are part of the existing contract. Who is to perform the regarding work at the dredge disposal area and the removal of the weir?

Answer: Requirements for removal of the Weir was changed in Amendment 2. The dredging contractor is to perform initial grading per his contract. . A plan for the usage of this area is to be provided under this contract per Note 2 on C-104.

Question: No detail has been given for the existing conditions of the dredge disposal area. Will detailed civil drawings of the existing dredge containment area be supplied with the solicitation package so quantity and scope for the laydown area 3 work may be determined?

Answer: No. Contractor shall consider costs of planning and grading of this area in their proposal.

Question: **Drawing C104, Note 3:** How long is the road to the quarry and is how much of that road is the contractor for this project to pave with recycled concrete?

Answer: Note will be amended to clarify..

Question: **Section 2230, page 2, 3.3, Tree Removal:**“...trees and stumps that are designated as trees shall be removed from areas outside those areas designated for clearing and grubbing.” How many trees may be indicated or directed?

Answer: Drawings show location of road. Also note that specs have changed.

Question: **Section 2220, 3.3.3 Salvaged Materials and Equipment:** What quantities are anticipated as stored materials at laydown area 3 in terms of “soil and stone excavated as part of the project?” Is this supposed to include the entire 21,000 CY of bid item AB?

Answer: Quantities are as shown on bid schedule and as estimated from the plans and specifications'

Question: It seems that existing trees and their root systems are helping to stabilize the terraced area along the south side of the river. Are stumps to be removed from the terraced area along the south side of the river?

Answer: Tree removal is only required for building, use and maintaining the roadway and its use. Note that the requirements are amended herein.

Question: Bid Item AH addresses grading for the riparian restoration. There is no civil drawing showing the final grade along the north side of the river between the bank and the existing flow of water. As it stands the area will be left with two large trenches where the crib dam and the concrete dam are removed. What condition or grade is the contractor to leave the area between the newly exposed banks and the existing flow of water once the dams have been removed?

Answer: The drawings show the area of the riparian restoration on sheets C-112 and C-113. Grading is not required for the riparian restoration. Areas contiguous to the dam and crib dam will have to be excavated. under Bid Item AB.

Question: There is a finite amount of concrete to be removed in this project (6600 CY according to bid item AD). It seems likely that the core stone, access roads, road refurbishment and laydown areas may consume more concrete than the amount available from demolition. If the contractor runs out of demolished concrete for reuse as core stone and road cover, is the contractor to purchase recycled concrete from off-site to complete the project?

Answer: No.

Question: It appears there will be fill material required to install the earthen plug and re-grade the former canal area after demolition is complete in this area. How will payment be covered for this work? Where is the material to come from to achieve the design elevations? Does the USACE have an estimated quantity of material required, or should we do our own take-off?

Answer: Payment will be included in Bid Item AA. Material shall come from laydown area 3. The contractor should do his own take offs.

Question: Item 14 on sheet G002 states that the graded area between the old stonework and the earthen dam shall be landscaped as per the civil drawings. The civil drawings do not include any shading to indicate what seeding is expected in this area. Please clarify.

Answer: See sheet C-105, Note 9.

Question: There are several notes on the drawings indicating that the work on the north bank must be complete while the area can still be accessed from the south side of the river. The specifications section 2921 3.1.1 and section 2923 3.1.1 indicate that seeding and sprigging must be done between 15 FEB and 15 APR. Does this imply that full demolition cannot be done prior to the restoration work on the north bank being complete? If not, how would we be expected to access this area to plant during this time?

Answer: Time of year requirements are as indicated. Access to the other side of the river is the contractor's responsibility.

Question: Since we do not have a copy of the VPDES Permit what constraints other than time of year are placed on the project as regards work in the river ?

Answer: Permits are provided as part of this amendment.

Question: Regarding the VPDES Permit what requirements are contained in the permit regarding the type of crossing allowed for the access road across the river? During the Pre-Bid this access was referred to as a "bridge", is an actual temporary bridge a requirement?

Answer: Coordination is required. A bridge is not specifically required, although a bridge was given as a method of crossing the river. The contractor shall figure the best way to stage his equipment to perform the required work across the river, coordinate with the appropriate state agencies and leave the dam site clean when the contractor finishes his work.

Question: Regarding the Bid Item Schedule in Amendment 0002, specifically item AC 1120 tons of Riprap. Can this bid item be changed to square yard to eliminate the need for weigh tickets on the Riprap?

Answer: Rip Rap is typically sold by the ton. There is no reason to change this requirement and weighing equipment is required anyway.

Question: Regarding Bid Item AJ for 1000 Tons of unsuitable material removal from site, can this item be changed to a Cubic Yard Bid Item in order to eliminate the requirement for weighing the material?

Answer: No, we feel is the most appropriate method of determining quantity.

Question: Are we to assume that the unsuitable material referenced by item AJ would not include any material that could be considered hazardous or contaminated?

Answer: Yes.

Question: Regarding specification section 1.6.1 (Resident Engineer's Office) the requirement for sewer & water connections. Is sewer and water service available at or near Laydown Area 3 and the current Trailer Site? Are Portable Toilets and bottled water service suitable for the requirements listed?

Answer: There is no water and sewer are available at the site. Portable Toilets and bottled water service are suitable for the requirements listed.

Question: Will the new plan sheets referenced in Amendment #2 be sent to all plan holders or are they available for download from the Website?

Answer: The plan sheets are available on the Website.

Question: Can the USA COE provide information regarding the size and distribution of the debris field left by the breaching charge? What are the restrictions if any (other than time of year) for access in the river or equipment in the river to remove the debris left by the breaching operation?

Answer: The contractor should restrict his clean up to 200 feet downstream of the concrete dam and appurtenances and 100 upstream of the crib dam(s).

Question: Are any plan sections available regarding the footings and/or foundations for the dam buttresses? The detail section on plan sheet D102 provides little or no information regarding the depth or width of any foundations for a buttress(es). Were the buttresses doweled into the bedrock or keyed in only? Is the Russell? Axon, & Assoc. drawings referenced in the detail note available for review by contractors?

Answer: The Russell, Axiom and Assoc. drawings were not as-builts, just part of a study where the dam was measured for the purpose of a proposal. There are no as-builts. The drawings are offered as information and are consistent with our field measurements. The information provided is all that we know is available.

Question: Will minutes of the Pre-bid meeting be issued?

Answer: Yes, as part of this amendment.

Question: Are there any subsurface investigation reports available for any part of the site including the riverbed?

Answer: Yes, data from the Phase 1 Sediment Removal Project are available for viewing at the Central Virginia Area Office.

Question: Is there an established river bottom elevation?

Answer: No

Question: Has there been a topographical study made to show the new contours where the dredging contractor has just completed his operations under the prior phase?

Answer: No

Question: Will the dig for the archaeological survey be allowed to be done all at once or will the backhoe be dedicated for a number of days at the direction of the Archaeologist? If we are digging as per the direction of the Archaeologist than how many days will be assumed for bidding purposes?

Answer: See this amendment. A time period is provided for the contractor.

Question: How long will the trenching for the archaeological survey have to remain prior to backfill?

Answer: See amendment for the contract requirements.

Question: Assuming a man entry, will the trenching for the archaeological survey be sloped back or sheeted to meet all OSHA requirements?

Answer: Contract safety requirements shall be followed.

Question: Is there information on any footings for the buttress detail or can we assume an 18" thickness for the entire buttress from top to bottom?

Answer: No, there is no information. This is the reason that unit prices are used.

Question: Can a detail be provided to show a plan view and "typical" cross section of the final conditions of the area shown as "laydown area 3", especially the current containment area ("berm & pond") and the existing stockpiled material?

Answer: No detail will be provided. The dredging contractor is to remove 10' from the top of the levee and slope to drain as well as remove the top of the weir and fence. C-104 requires the demo contractor to develop a site plan for use of the area, see note 2..

Question: Is the stockpiled earth material located south of the existing "berm & pond", within the "laydown area 3" to be removed, reshaped, graded or handled under this contract?

Answer: Refer to amended note 2 on sheet 104.

Question: Will the nails or spikes embedded in the wood crib dam be required to be removed?

Answer: Only as may be necessary for safe handling by the Contractor.

Question: If Archaeological Trenches encounter artifacts of interest to the Archaeologist what time frame is the contractor required to allot for discovery? What costs & delays can the contractor expect to the contract as a result of delays for archaeological discoveries?

Answer: See amendment. See section 1005 paragraph 1.10 Historical and Archeological finds.

Question: Will the contractor be permitted to prevent access to the contract area, by water and land, to citizens, sightseers, activists, visitors and other personnel, not directly connected to the contract, for the entire duration of the contract?

Answer: Except as noted in amended section 1005 paragraph 1.7 and 1.7.1 the contractor will be able to prevent access to the contract area.

Question: The existing banks of the river are "sloughing" and have logs, trees and other debris embedded and covered. Since this condition is ongoing, due in part to normal river activity and due in part to recent activity to lower water levels, it is likely to continue. How will stabilization be effected to accommodate planting and other activities within this zone? Will elevations & sections be required for the monitoring plan?

Answer: Refer to this amendment for clarification. Requirements for documentation are only as required in section 1005 paragraphs 1.8 through 1.8.2.

Question: Section 2300 describes fill/borrow material. Is the haul road required to be filled with specific types of material (defined as "Satisfactory") and tested for modified proctor compaction?

Answer: See amendment, Sheet C-108, note 6.

Question: Is the haul road to be built from off-site borrow material or is on-site fill material available?

Answer: The intent is to use on site material to its fullest extent possible. If aggregates are needed to provide a suitable surface for the construction operations, than it is the contractor's responsibility to provide what he needs. Also see these amendments, Sheet C-108, note 6.

Question: If "satisfactory" borrow material is brought onto the project, is it required to be removed from the project when the haul road is removed from private property?

Answer: See amendment 3.

Question: Section 2300, par 1.5 states in part "all excavation ... unclassified." What is the purpose of par 1.5.1 & 1.5.2?

Answer: See amendment 3.

Question: Section 2300, par 1.7 seems ambiguous. Is surplus "satisfactory" "surplus" material to remain on-site or not? For instance, is the soil removal between the concrete dam and the crib dam & vicinity "suitable" or unsuitable" and is it to be stockpiled in laydown area #3?

Answer: Satisfactory material not utilized in the work and not desired by the City of Fredericksburg, shall be stockpiled in laydown area #3. Note also that the classification mentioned in paragraph 1.2.1 has been amended to accept SP and SW material.

Question: Is there a detail or specification section that outlines the requirements for the access road across the river pertaining to permits, construction materials, flow requirements, etc.?

Answer: There are no specific requirements for an access road across the river. Added in this amendment are permits with the DEQ and VMRC.

Question: On the revised bid form, there are two items for concrete demolition. Item AD, 6,600 CY which I assume is demolition and crushing to VDOT 21a size material. Item AE, 3,100 CY which I assume is demolition and crushing to the rip rap core stone specification. This equates to a total of 9,400 CY of demolition and crushing. No matter how many times I do a take-off on the concrete quantities in-place to be demolished, I am only coming up with 5,060 CY of concrete to demolish. It appears that measurement and payment will be based on crushed and stockpiled material, so even if I apply a 20% swell factor I am only coming up with 6,072 CY.

Answer: The Bid schedule has been revised to show a quantity of 1,500 CY. This amendment also states changes in the slab thickness and the addition of concrete cells every 150'.

Amendment 4

1. In Section 02300, par. 1.5, Change to read: " Excavation shall be performed on a classified basis in accordance with the following designations and classifications. The terms disposing and disposal as used in paragraphs 1.5.1 and 1.5.2 refer to final disposition which could include re-use, stockpiling, or off-site disposal as applicable."
2. In Section 02300, par 1.2.1, add the classifications "SP and SW" to the list of satisfactory classifications.
3. On Drawing Sheet D102, Section, change the thickness shown for the slab on the reinforced concrete dam from 12" to 24".
4. On Drawing Sheet D102, Section, add a note under the concrete section:

"Note: there are reinforced solid concrete cells every +/- 150' that are approximately 10' deep by 10' wide and 20' long.
5. On drawing Sheet D102, Section, add a note under the crib dam section:

"Note: the crib dam wing from the old abutment to the shore, upstream of main crib dam is of a different design with round timbers and stone fill. This shall be removed also. The width is approximately the same as the main crib dam. Remove this crib dam also."
6. On Drawing Sheet C-103, add a sentence at the end of the archeological notes:

"The Trenching activities shall last 4 weeks. The contractor shall provide a backhoe, operator, dewatering equipment and any shoring needed to keep the trench open for up to 4 weeks. The dewatering equipment shall be sufficient to keep one trench dewatered at any time."
7. On Drawing Sheet C-104, in note 3, change the following, "a turn around, a road to connect to the existing road to the quarry" to "a turn around, connect to the existing road to the quarry".
8. On Drawing Sheet C-113 changes the following: Under General Note 1 add the following at the end of the note, "Slopes steeper than 1:1 shall not be vegetated."
9. On Drawing Sheet C-113 change the following: Under General Note 2 add the following at the end of the note, "Slopes steeper than 1:1 shall not be vegetated."

10. On Drawing C104, Note I, change the following, "shall be restored to original condition." to the following: " shall be regraded as needed and resurface using recycled aggregates. "
11. On Sheet C-104, Note 3, add after the first sentence, "The remaining areas shall be planted per requirements for Zone 3."
12. On Sheet C-104, add a note, "4. Laydown Area 2 shall have any aggregates placed on the site remove. The site shall be regraded and planted per requirements for Zone 3 planting."
13. On Drawing C-105, add note, "11. Utilize material from laydown area 3 for general fill and where gradation requirements can be met."
14. On Sheet C-108, add note, "6. Roadway materials are suggested for the road from Laydown Area 1 to Laydown Area 2. The contractor shall construct, maintain and repair the roadway for the contractor's use."
15. On Sheet C-108, add note "7. The contractor shall utilize materials from Laydown Area 3 and form the deconstruction to the fullest extent possible, while meeting material requirements."
16. On Sheet C-105, add note, "11. Utilize material from Laydown Area 3 for general fill and where the soil meets material requirements."
17. In Specification Section 01270, par. 1.4.9, change the word "unsuitable" to "unsatisfactory".
18. In Specification Section 01270, par. 1.4.9.1, change the word "unsuitable" to unsatisfactory".
19. In Specification Section 02300, par. 1.7, In sentence 3 after "shall be" add "transported to Laydown Area 3, stockpiled, and" to the sentence.
20. In specification Section 02300, par. 1.7, delete the 5th sentence, "Surplus satisfactory material to be wasted shall be disposed of off Government property or in designated areas approved for surplus material storage."
21. On Sheet C-110, Add Note: "6. A minimum of 2 ½ feet riprap, a minimum of 2 ½ feet of core stone and geotextile fabric shall be added in the areas shown. Top elevations and slopes for the rip rap are as given on this drawing."

22. On Sheet C104, Add the following Note: “5. Gravels removed from the roads and Laydown Areas shall be stockpiled on the Laydown Area 3 or, if suitable, used for resurfacing.
23. In the Bid Schedule (Section 00010), change Item No. AE quantity from “3,100 CY” to “1,500 CY”.
24. In the Bid Schedule (Section 00010), Item No. AJ change the word “unsuitable” to “unsatisfactory”.