

2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 22-Jan-2004	4. REQUISITION/PURCHASE REQ. NO. W26GLG-3295-5505	5. PROJECT NO.(If applicable)
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6. ISSUED BY USA ENGINEER DISTRICT, NORFOLK CONTRACTING OFFICE 803 FRONT STREET NORFOLK VA 23510-1096	CODE W91236	7. ADMINISTERED BY (If other than item 6) See Item 6
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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-0004
	<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) 24-Dec-2003
		10A. MOD. OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer is extended, 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 2 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

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

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

1) DATE AND TIME FOR RECEIPT OF BIDS IS HEREBY EXTENDED TO FEBRUARY 3RD, AT 2:00 PM. BIDS TO BE DELIVERED TO: US ARMY CORPS OF ENGINEERS, NORFOLK DISTRICT, 803 FRONT STREET, NORFOLK, VA 23510, ATTN: C. SCHAMP-BAZAR

2) REVISED TECHNICAL SECTIONS: Delete SECTION 01270 MEASUREMENT AND PAYMENT and SECTION 02881 DREDGING and substitute therefore the new SECTION 01270 MEASUREMENT AND PAYMENT and SECTION 02881.

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 (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED 22-Jan-2004

SECTION 01270

MEASUREMENT AND PAYMENT
12/03

PART 1 GENERAL

1.1 SUBMITTALS

Not Used.

1.2 LUMP SUM PAYMENT ITEMS

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

1.2.1 Base Bid Payment Item No. 0001 Mobilization and Demobilization

All costs connected with the mobilization and demobilization of all of the Contractor's dredging plant and equipment as defined below will be paid for at the contract lump sum price for this item. Sixty percent of the lump sum price will be paid to the Contractor upon completion of his mobilization at the work site. The remaining forty percent will be paid to the Contractor upon completion of demobilization. In the event the Contracting Officer considers that the amount in this item, sixty percent which represents mobilization and forty percent which represents demobilization, does not bear a reasonable relation to the cost of the work in this contract, the Contracting Officer may require the Contractor to produce cost data to justify this portion of the bid. Failure to justify such price to the satisfaction of the Contracting Officer will result in payment of actual mobilization costs, as determined by the Contracting Officer, at the completion of mobilization, and actual demobilization costs, as determined by the Contracting Officer, at the completion of demobilization. The determination of the Contracting Officer is not subject to appeal.

1.2.1.1 Mobilization

Mobilization is defined as an initial mobilization and subsequent mobilization, as applicable. The Initial Mobilization shall be awarded once as a part of the first Task Order issued during the Base or any subsequent Option Periods. The Subsequent Mobilization shall be awarded once as a part of a Task Order in which the Contractor's plant and equipment is not located in the nearby vicinity due to Contracting Officer directed

demobilization, and an Initial Mobilization has already been awarded in the respective Base Period or Option Period. Mobilization shall include all costs for operations accomplished prior to commencement of actual dredging operations, this shall include transfer of dredge, attendant plant, and equipment to site, all initial installation of pipe, and any other associated work that is necessary in advance of the actual dredging operations. The Contractor's initial point of mobilization shall be Quinby, Virginia for the Base or any subsequent Option Periods.

1.2.1.2 Demobilization

The Initial Demobilization shall be awarded once during the Base or any subsequent Option Periods in which the Contractor's plant and equipment is directed to be demobilized from the contract area by the Contracting Officer. A Subsequent Demobilization will be awarded during a Base Period or Option Period when a Subsequent Mobilization has been awarded in the respective Base Period or Option Period. Demobilization shall include general preparation for transfer of plant to its home base, removal of pipelines, cleanup of all work sites, and transfer of plant to its home base.

1.3 UNIT PRICE PAYMENT ITEMS

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

1.3.1 Base Bid Payment Item No. 0002 Dredging

Payment to be made for all costs associated with dredging in a respective Task Order shall include the cost of removal and placement of material as indicated and specified, exclusive of the mobilization and demobilization as defined above. The total amount of material removed and to be paid for under this payment item will be measured by the cubic yard in place by computing the volume between the bottom surface shown by soundings of the last surveys made before dredging, and the bottom surface shown by the soundings of surveys made as soon as practicable after the work has been completed. The volume for measurement and payment shall include the material within the limits of overdepth and side slopes described in paragraph "Required Dredging Prism, Overdepth, and Side Slopes" of SECTION 02881, less any deductions that may be required for misplaced material described in subparagraph "Misplaced Material", below. The drawings to be issued with each respective Task Order are believed to accurately represent conditions at the time of the surveys indicated. New soundings will be taken immediately before dredging. New soundings will be taken immediately before dredging. The Contractor's unit price for dredging, based on the above method of computation of the quantity for payment, shall include his evaluation of shoaling, other natural changes in the waterway, or changes caused by the Contractor's operations that might occur during the period

between the surveys before dredging and the surveys for acceptance of the work. Computations for payment purposes will be made by the Government using, as defined in EM 1110-2-1003, the Average End Area (AEA) method, Triangulated Irregular Network (TIN) method, or a combination of these methods at the discretion of the Government, and utilize proprietary electronic data processing software and machines for the calculations. Determination of quantities removed and the deductions made to determine quantities in place to be paid for in the areas specified, after having once been made, will not be reopened except on evidence of collusion, fraud, or obvious error.

1.3.2 Payment Item No. 0003 Transportation of Plant from Designated Mobilization Point to First Dredging Area and to Subsequent Dredging Areas

The contract price per river mile for transportation of plant from the designated mobilization point at Quinby, Virginia to the first dredging area and to any subsequent dredging areas in the event the Contractor is not allowed to demobilize, shall include all costs associated with the transport of the contractor's dredge and attendant plant. Transportation of plant between the designated mobilization point and first dredging area, and between subsequent dredging areas when applicable, will be measured and paid for by the linear mile as computed from the National Oceanic and Atmospheric Administration (NOAA) Nautical Chart 12210 Chincoteague Inlet to Great Machipongo Inlet: scale 1:80,000 and Nautical Chart 12224 Chesapeake Bay Cape Charles to Wolf Trap: scale 1:40,000, as applicable. Nautical Charts are maintained and can be obtained from Office of Coast Survey, a component of the National Ocean Service, by mail at: Office of Coast Survey, 1315 East West Highway, Silver Spring, MD 20910-3282; or from their web page at: <http://chartmaker.ncd.noaa.gov/>. Miles will be measured to the nearest 1/10th mile. Final determination of river mile transportation calculations will be by the Contracting Officer. Payment will not be made under this bid item for transportation of plant to the mobilization site, for transportation of plant from the last dredging area to the Contractor's home base, or for transportation to other work not covered under this contract.

1.3.3 Payment Item No. 0004 Contracting Officer Directed Standby Time

The contract price per day for Contracting Officer directed standby time shall include the contractor's costs for holding his plant, equipment and crew on site until further direction is given by the Contracting Officer. Time will be measured and paid for by the day (24 hours) and calculated to the nearest hour (1/24) day for payment. If the Contracting Officer directs that plant be placed in a standby status, the Contractor shall cease dredging operations and preparation for dredging operations, and shall secure the total dredge plant in a mooring location acceptable to the Contracting Officer. The Contracting Officer will give the Contractor 72 hour notice before plant is to be placed on standby status. When in standby status, plant will not be moved from the designated location unless approved by the Contracting Officer. Upon written notice of removal of the plant from standby status by the Contracting Officer, the Contractor shall be prepared to resume operations within 72 hours. Payment for moving from a dredging area to a standby location, and from a standby location to the designated dredging area, will be paid for under Payment Item No. 0003.

1.4 MISPLACED MATERIAL

Any material that is deposited elsewhere than in places designated or approved by the Contracting Officer will not be paid for, and the Contractor may be required to remove such misplaced material and deposit it where directed by the Contracting Officer at the Contractor's expense.

1.5 EXCESSIVE DREDGING

Material taken from outside the specific areas to be dredged or beyond the limits as extended in paragraph "Required Dredging Prism, Overdepth, and Side Slopes" will be considered as excessive overdepth dredging, or excessive side slope dredging, for which payment will not be made. Nothing in these specifications shall be construed to prevent payment for the removal of shoals performed in accordance with the applicable provisions of Paragraphs SHOALING and FINAL EXAMINATION AND ACCEPTANCE of Section 01005.

1.6 MONTHLY PARTIAL PAYMENTS

Monthly partial payments will be based on estimated quantities determined by the Contracting Officer.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section --

SECTION 02881

DREDGING

12/03

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.

ENGINEERING MANUALS

EM 385-1-1 (2003) Safety and Health Requirements Manual

1.2 PLANT

Plant and equipment employed on the dredging work shall be in satisfactory operating condition, capable of safely and efficiently performing the work as indicated or specified, and shall be subject to inspection and approval by the Government at all times. Equipment and machinery, including pipelines and supporting plant, shall be subject to inspection and approval by the Government and kept in good condition at all times. A complete listing of all dredging plant and machinery to be used in the work, including booster pumps, skiffs, barges, and other related equipment, shall be submitted. The listing shall include year and manufacturer, operational capacities, safety features, operating and licensing requirements for operators, and a description where and how the item of equipment or plant will be employed in the work. Any leaks or deficiencies shall be promptly and properly repaired. No reduction in the capacity of the plant, once inspected and approved by the Government to be sufficient for employment on the work, shall be made except by written permission of the Contracting Officer. The measure of the "capacity of Plant" shall be its actual performance on the work to which these specifications apply. The Contractor shall not remove any plant from this job until all scheduled work is completed and accepted by the Government, unless first approved in writing by the Contracting Officer. The Contractor shall submit, as a part of the Work Plan and Quality Control Plan, the manufacturer's pump curve for each pump to be used during the project. This submittal shall be provided by the Contractor for the purpose of verifying his available plant capacity is sufficient to accomplish the scheduled work in accordance with all contract requirements. The submittal shall include the dredge's main pump, and if applicable, the ladder pump and any booster pump(s) to be used on the contract. If a substitution of equipment occurs during the contract, the pump curve of the new pump(s) shall be submitted at the time of substitution and recorded in the Daily Report of Operations. Each pump curve submitted shall be clearly designated with the dredge name, contract number, pump function (main pump, ladder pump, or booster pumps) and pump size. The pump curves shall indicate each respective pump's performance

(i.e., pump Hp, efficiency and rpm's) for water plotted against hydraulic head and discharge velocity and GPM's. All data provided must be accompanied with documentation verifying the pumps to be utilized in this work have provided this efficiency on previous work in conditions and for material to be removed similar to that to be accomplished for this contract. All floating plant and pipelines used as access ways or working platforms shall be equipped with walkways and guardrails conforming to Corps of Engineers Manual EM 385-1-1 and meet OSHA requirements for worker safety. All buoyant (plastic) dredge pipelines that are used on this contract shall be weighted or anchored securely to the bottom so that the pipeline will stay on the bottom, and marked with floats or buoys during daylight and amber lights during darkness to mark distinctly the entire length and course of the line.

1.3 CHARACTER OF MATERIALS

The material to be removed is the shoaling that has occurred since the Channels were last dredged. The Contractor shall anticipate encountering fine grain materials and sands; however, bidders are expected to examine the site of work and decide for themselves the character of the materials. The records of previous dredging are available in the Operations Branch at the Norfolk District. The Government does not warrant the accuracy of the records of previous dredging. Local minor variations in the subsurface materials are to be expected and, if encountered, will not be considered as being materially different within the purview of Contract Clause "DIFFERING SITE CONDITIONS". The records of previous dredging are available in the Operations Branch, Norfolk District, Corps of Engineers, 803 Front Street, Norfolk, Virginia 23510-1096.

1.4 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal Procedures":

SD-01 Preconstruction and Postconstruction Submittals

Dredging and Dredged Material Placement Plan; G

Prior to commencement of dredging, submit a plan for sequence of dredging, dredging methods and plant utilized, pipeline location and material placement requirements, protection of structures, equipment, and land features.

Notice to Mariners

Submit a copy of Notice to Mariners at same time sent to Fifth Coast Guard District.

SD-07 Certificates

Equipment and Machinery Operator Authorization

The Contractor shall submit a list of designated personnel qualified and authorized to operate machinery and equipment. The

list shall be maintained at the job site in a current status at all times.

1.5 Obstruction Identification

The Contractor may encounter obstructions or other debris that is not identified and may pose a hazard to navigation. The Contractor shall advise the Contracting Officer immediately of any obstructions or other debris of this nature that is encountered.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 REMOVAL AND PLACEMENT OF EXCAVATED MATERIAL

3.1.1 General Information

The Contractor shall dredge and transport material by hydraulic dredge and pipeline to the respective placement area for each dredging area as indicated. The Contractor shall anticipate that pumping distances for dredged material disposal in this contract shall not exceed 7,000 feet; however, in the event the Contractor is required to pump dredged material at distances greater than 7,000 feet, an equitable adjustment will be made in accordance with the Contract Clause "CHANGES" and other applicable clauses of the contract. The contractor shall be responsible for providing all discharge pipeline for deposit within the designated areas. The Contractor shall comply with all terms and conditions of any Environmental Permits issued with a respective Task Order as applicable. The Contractor shall protect all existing wetlands, oyster grounds, marsh grasses, submerged aquatic vegetation, and adjacent structures in the vicinity of his activities for the duration of the contract. The condition of the dredging and placement areas, at the time of the latest survey, are depicted on the contract drawings issued with the Task Order; however, due to natural changes in topography, the actual elevations at the time of the work may vary from the elevations indicated.

3.1.2 Government Furnished Placement Area

The Contractor shall have the Professional Engineer or Surveyor licensed in the Commonwealth of Virginia approved to layout the work in the field mark all channel dredging area control points, all placement area and easement control points and all range markers and buoys indicated or otherwise required to accomplish the work, and all pipelines that may cross or be placed in the vicinity of wetlands, oyster grounds, marsh grasses, submerged aquatic vegetation, and adjacent structures in the vicinity of his activities. The markings shall be physically located with minimum 1 inch diameter steel pipe marked with orange flagging and marked with orange flagging prior to dredging operations, placed in the immediate work areas only, and shall be promptly removed as the work areas are accepted by the Government. The Government reserves the right to verify all in-place markings before dredging and placement operations commence, and at any time during the contract. The Contractor shall give the Contracting Officer at least 7 calendar days notice prior to commencement of dredging operations

to assure the completion of the initial Government verification review.

3.1.3 Method of Discharge

The dredging shall be accomplished in such a manner as to minimize disturbance of the bottom and minimize turbidity levels in the water column. To accomplish this requirement, the Contractor as a minimum shall install a baffle plate, spreader pipes, pocket pipes, or other approved apparatus to the discharge end of the dredge pipeline to precisely control the placement of the dredged material and increase the settlement rate of the material to the maximum extent practicable. In addition, the Contractor shall take all precautions that in the opinion of the Contracting Officer may be necessary to minimize the escape of dredged material into the navigable waters beyond the designated placement areas. The Contractor shall be responsible to provide constant monitoring of the placement operations and nearby waters down current from the placement areas when dredging and material placement operations are in progress.

3.1.4 Placement Requirements and Final Grading

The Contractor shall protect all existing wetlands, oyster grounds, marsh grasses, submerged aquatic vegetation, and adjacent structures in the vicinity of his activities for the duration of the contract. The condition of the placement area, at the time of the latest survey, is depicted on the contract drawings issued with the Task Order; however, due to natural changes in topography, the actual elevation at the time of the work may vary from the elevations shown on the drawing. The Contractor shall submit for approval in the CQC Plan the specific method(s) he intends to employ in assuring quality of the fill operations. The Contractor shall commence pumping the dredged material by hydraulic pipeline method into the placement area at the location indicated for the respective dredging area, and advance the placement in a manner to uniformly place and evenly spread the dredged material along each respective Placement Figure alignment for the Channel Stations as indicated. The Contractor shall install a baffle plate, spreader pipes, pocket pipes, or other approved apparatus to the discharge end of the dredge pipeline to precisely control the placement of the dredged material and increase the settlement rate of the material to the maximum extent practicable.

3.1.5 Warning Signs

The Contractor shall erect and maintain at his own expense suitable navigation warning signs at each end of a submerged pipeline and at any other points necessary to prevent hazards to navigation.

3.1.6 Examination of Pipeline

The pipeline, including connections used for a submerged line, shall be examined and determined to be in good condition to reasonably expect it to last throughout the job without wearing to the extent of allowing leaks. In the event that leaks occur anywhere in the pipeline, the Contractor will be required to immediately discontinue using the respective equipment until the leaks are stopped. The Contractor shall also be required to recover at no cost to the Government any material improperly placed because of a leak

or leaks in the equipment.

3.2 QUALITY CONTROL

The contractor shall establish and maintain a quality control system for all dredging operations to assure compliance with contract requirements and record his inspections and tests under this system.

3.2.1 Inspections and Testing Requirements

Inspections and testing shall be the responsibility of the Contractor, subject to the approval of the Contracting Officer.

3.2.2 Equipment and Machinery Requirements

All measuring equipment, global positioning systems (GPS) and other electronic positioning systems, data plotting and recording equipment, and the procedures associated with each respective item of equipment, shall be subject to the approval of the Contracting Officer. Verification of current calibration for each respective item of equipment, as approved by the Contracting Officer, shall be provided by the Contractor prior to use of the equipment on the work. All records produced by the equipment shall be inspected and certified as complete by the Contractor's Quality Control Representative and included as a part of the Daily Quality Control Report.

3.2.3 Miscellaneous Inspections and Test Records

A copy of the records of all inspections and tests, as well as record of corrective action taken, shall be included in the Control Plan and furnished to the Contracting Officer as a part of the Daily Quality Control Report. The Contractor shall establish and maintain quality control for the shoreline work and all other operations in connection with the work in the field to assure compliance with contract requirements. The Contractor shall inspect for compliance with contract requirements and record the inspection of all operations including but not limited to the following:

- a. The material is placed to the lines, grade, and tolerances specified.
- b. Operations are confined within the limits of the designated work area.
- c. The dredge effluent does not flow beyond the designated placement area or other limits as specified and established by the Contracting Officer.
- d. Damage to the existing placement area is held to the minimum from the Contractor's operations.
- e. Adequate control is provided to prevent unnecessary loss of submerged aquatic vegetation.
- f. The pipeline is periodically inspected for leakage as specified.

- g. All joints of pipe for discharge line are tight, sound, and in a safe condition.
- h. All equipment used in the work is approved and in satisfactory working condition.
- i. Checks to insure safe work practices around structures and the public is performed as specified.
- j. Insure all equipment and construction materials have been removed from completed work segments.

All results of inspections shall be documented with narrative explanations and photographs as necessary to document the conditions of field quality. The results and supporting data shall be recorded and provided by the Contractor in the Daily Report of Operations.

3.2.4 Reporting and Certificates

All measuring, plotting, and recording equipment and procedures shall be subject to the approval of the Contracting Officer. Verification of their calibration, certified by the Contractor's Quality Control Representative, shall be furnished prior to use on the work. All records produced by the equipment shall be authenticated by the authorized representative of the contractor and then provided to the Contracting Officer with the Daily Report of Operations.

3.3 DAILY REPORTING REQUIREMENT

The Contractor shall prepare and maintain a Daily Report of Operations and furnish copies daily to the Contracting Officer. A copy of the form prescribed for recording the required information and any further instructions on the preparation of the report will be furnished at the preconstruction conference noted in Section 01005. The Contractor shall also furnish the following item daily to the Contracting Officer during dredging operations:

- (1) Copy of dredge leverman's log
- (2) Records of dredge pump vacuum and pressure gauge readings

3.4 REQUIRED DREDGING PRISM, OVERDEPTH, AND SIDE SLOPES

3.4.1 Required Dredging Prism

Within the specific areas indicated to be dredged or areas approved by the Contracting Officer, the required dredging prism is defined by the required depths and applicable side slopes as indicated and specified. The actual quantity within the required dredging prism will be computed from the last surveys made before dredging.

3.4.2 Overdepth

To cover inaccuracies of the dredging process, material actually removed

from within the specific areas to be dredged to a depth of not more than one foot below the required depth will be estimated and paid for at the contract price.

3.4.3 Side Slopes

Material actually removed within limits approved by the Contracting Officer, unless indicated otherwise in the Task Order, to provide for final side slopes not flatter than 1 vertical on 3 horizontal, but not in excess of the amount originally lying above this limiting side slope, will be estimated and paid for, whether dredged in original position or by dredging space below the pay slope plane at the bottom of the slope for upslope material capable of falling into the cut. In computing the limiting amount of side-slope dredging an overdepth of one foot measured vertically will be used.

3.4.4 Method of Obtaining Soundings

Soundings to determine the volume of material removed under this contract will be made with an Innerspace Technology, Inc. Model 448 Thermal Depth Sounder Recorder with an operating frequency of 208 kilohertz and a 3 degree beamwidth at -3db. The equipment will be calibrated by the bar/ball check or velocity probe method to compensate for variations of the velocity of sound in water.

3.4.5 Basis of Surveys

The Government hydrographic surveys shall be the sole basis for determining payment for dredging and final acceptance.

-- End of Section --