

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)
CODE		FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ 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 your 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 ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	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.)

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

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

1. The specifications and drawings for Invitation No. DACW64-03-B-0006, Dredging, Middle Reach, Neches River Channel in Jefferson and Orange Counties, Texas, Sabine-Neches Waterway, Texas, advertised 20 December 2002 and for which bids are scheduled to be opened 21 January 2003, are hereby modified as follows:

BID OPENING IS HEREBY RESCHEDULED FOR 2:00 PM, LOCAL TIME IN ROOM 185, JADWIN BUILDING, 28 JANUARY 2003.

(a) Specifications.

(1) SECTION 00700-Page 96 of 96, FAR 217-7 OPTION FOR INCREASED QUANTITY - SEPARATELY PRICED LINE ITEM (MAR 1999). - At the end of this Section, add the following new CLAUSE entitled FAR 217-7 OPTION FOR INCREASED QUANTITY - SEPARATELY PRICED LINE ITEM (MAR 1999).

“FAR 217-7 OPTION FOR INCREASED QUANTITY - SEPARATELY PRICED LINE ITEM (MAR 1999). The Government may require the delivery of the numbered line items, identified in the Schedule as an option item, in the quantity and at the price stated in the Schedule. The Contracting Officer will exercise either Option No. 1 or Option No. 2 by written notice to the Contractor at the time of award. Delivery of added items shall continue at the same rate that like items are called for under the contract, unless the parties otherwise agree.”

(2) BIDDING SCHEDULE, Pages 00010-1 Through 00010-2. - The enclosed Bidding Schedule, Pages 00010-1 through 00010-4 supersedes that issued with this Invitation.

(3) Page 02232-1, Paragraph 1.3. - Delete this Paragraph and substitute the following Paragraph therefor:

“1.3 PAYMENT for the work specified herein and the costs in connection therewith shall be included in the contract lump sum price for “Levees, Drop-outlets and Ditches-PA No. 25B”, “Levees, Drop-outlets and Ditches-PA No. 23”, or “Levees, Drop-outlets and Ditches-PA No. 18-15’ Elev.” or “Levees, Drop-outlets and Ditches-PA No.18-13’ Elev.” as applicable.”

(4) Page 02319-1, Paragraph 1.4. - Delete this Paragraph in its entirety and substitute the following therefor:

"1.4 PAYMENT.

“1.4.1 Stripping and the cost in connection therewith will be included in the contract lump sum price for “Levees, Drop-outlets, and Ditches-PA No. 25B”, “Levees, Drop-outlets, and Ditches-PA No. 23”, or “Levees, Drop-outlets, and Ditches-PA No. 18-15’ Elev.” or “Levees, Drop-outlets, and Ditches-PA No.18-13’ Elev.” as applicable.

"1.4.2 Borrow Area Excavation for Placement Areas Nos. 18 and 23. Payment for borrow area excavation used as fill and backfill material, as shown, will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches-PA No. 23", or "Levees, Drop-outlets, and Ditches-PA No. 18-15' Elev." or "Levees, Drop-outlets, and Ditches-PA No.18-13' Elev." as applicable.

"1.4.3 Excavation of Interior Side Ditch Borrow Areas. Payment for borrow area excavation to obtain material for construction of the levees, as shown, will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches-PA No. 23", or "Levees, Drop-outlets, and Ditches-PA No. 18-15' Elev." or "Levees, Drop-outlets, and Ditches-PA No.18-13' Elev." as applicable.

"1.4.4 Levee Degrading. No separate payment will be made for levee degrading or for stockpiling or placement of the excavated materials. The cost in connection therewith will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches-PA No. 25B", "Levees, Drop-outlets, and Ditches-PA No. 23", or "Levees, Drop-outlets, and Ditches-PA No. 18-15' Elev." or "Levees, Drop-outlets, and Ditches-PA No.18-13' Elev." as applicable."

(5) SECTION 02323, EXCAVATION FOR BENEFICIAL USE SITE. - The enclosed new SECTION 02323 entitled EXCAVATION FOR BENEFICIAL USE SITE shall be added to and become a part of this Invitation.

(6) Page 02329-2, Subparagraphs 1.6.3 and 1.6.4. - Delete these Subparagraphs and substitute the following therefor:

"1.6.3 Uncompacted Fill for Levee Construction. Payment for excavation and placement for the uncompacted levee fill construction will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches-PA No. 23", or "Levees, Drop-outlets, and Ditches-PA No. 18-15' Elev." or "Levees, Drop-outlets, and Ditches-PA No.18-13' Elev." as applicable.

"1.6.4 Stripping and Clearing of existing levees, foundation areas and borrow areas and placement of stripped material and the costs in connection therewith will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches-PA No. 23", or "Levees, Drop-outlets, and Ditches-PA No. 18-15' Elev." or "Levees, Drop-outlets, and Ditches-PA No.18-13' Elev." as applicable."

(7) SECTION 02334, EMBANKMENT CONSTRUCTION FOR BENEFICIAL USE SITE. - The enclosed new SECTION 02334 entitled EMBANKMENT CONSTRUCTION FOR BENEFICIAL USE SITE shall be added to and become a part of this Invitation.

(8) Page 02482-5, Subparagraph 1.7.2 - Delete this Subparagraph and substitute the following therefor:

“1.7.2 Dredging. The contract unit price per cubic yard for “Dredging-Sections 11-13 and 11A” under Schedule No. 1, “Dredging-Sections 1-10” under Option No.1 or “Dredging-Sections 1-4 and 8-10” and “Dredging Sections 5-7” under Option No. 2 shall include the cost of removal and placement of the material as specified in the Paragraphs: CHARACTER OF MATERIALS and PLACEMENT OF EXCAVATED MATERIAL below. The contract price for dredging shall also include the costs for placing and handling pipelines to and at the Placement Areas, Beneficial Use Site (BUS) and for design, construction and maintenance of the levees, drop-outlets, and ditches necessary to confine the material within the areas shown.”

(9) Page 02482-7, Subparagraph 1.10.2 - Delete these Subparagraphs and substitute the following therefor:

“1.10.2 Dredging. Monthly partial payment for “Dredging-Sections 11-13 and 11A” under Schedule No. 1, “Dredging-Sections 1-10” under Option No.1 or “Dredging-Sections 1-4 and 8-10” and “Dredging Sections 5-7” under Option No. 2 will be based on approximate quantities determined by fathometer soundings or sweepings taken behind the dredge.

“1.10.3 Levees, Drop-outlets and Ditches. - Monthly partial payments for “Levees, Drop-outlets, and Ditches-PA No. 25B” under Schedule No. 1, “Levees, Drop-outlets, and Ditches -PA No. 23” and “Levees, Drop-outlets, and Ditches - PA No. 18-15’ Elev.” Under Option No. 1 or “Levees, Drop-outlets, and Ditches - PA No. 23” and “Levees, Drop-outlets, and Ditches -PA No.18-13’ Elev.” Will be based on estimates of the work completed during the period.”

(10) Page 02482-7, Subparagraph 1.10.4. - At the end of this Subparagraph insert the following new Subparagraphs:

“1.10.5 Control of Discharge and Effluent Control at Beneficial Use Site. Costs associated with providing equipment and labor for accomplishing the required control of discharge and control of effluent at Bessie Heights (BUS) during dredging shall be included under Option No. 2, in the contract unit price per cubic yard for “Dredging-Sections 5-7”.

“1.10.6 Beneficial Use Site Levee Maintenance and Repair. Costs associated with providing equipment and labor for inspecting and maintaining the integrity and elevation of levees at the Bessie Heights shall be included under Option No. 2, in the contract unit price for “Dredging Section 5-7”.”

(11) Page 02482-11, Subparagraph 3.4.2.4. - Delete the Table for Levee Volumes and substitute the following Table therefor:

“PLACEMENT AREA NO.	LEVEE VOLUMES
18-15’ Elev.	33,000 Cubic Yards
18-13’ Elev.	16,500 Cubic Yards
23	105,853 Cubic Yards"

(12) Page 02482-11, Subparagraph 3.4.2.3. - Renumber this Subparagraph “3.4.2.5.” Change the title of the Table to "TABLE OF DISTRIBUTION OF DREDGED MATERIAL WITHOUT OPTION NO. 2". Also, at the end of this Subparagraph, add the following new Subparagraphs 3.4.2.6, 3.4.2.7, and 3.4.2.8:

“3.4.2.6 Bessie Heights Marsh Restoration Area (OPTION NO. 2)... The work under Option No. 2 of this contract, identified as the BUS, shall be used to place the dredged materials from Dredging Sections Nos. 5, 6, and 7. The limits of the area, dredge pipeline route, discharge corridor and Disposal Mound (DM) areas, and the required typical section for the mounds to be constructed shall be as shown. Initial discharge points and direction of movement of discharge are indicated by arrows and shall be followed as shown. The order of placement of materials at Bessie Heights shall be as follows:

- DM #4 – Approximately 130,000 Cubic Yards
- DM #1 – Approximately 231,000 Cubic Yards
- DM #3 – Approximately 100,000 Cubic Yards
- DM #2 – Approximately 120,000 Cubic Yards

Material shall be placed using discharge controls, as specified. Coarse-grained materials from required dredging shall be used to construct the emergent mounds to the width and elevation and with discharge direction and advance of dredge pipe as shown. The lengths of the mounds constructed will be determined by the quantity of coarse-grained material discharged in each corridor, and will not generally extend the entire length of the corridor. If it is deemed necessary, to accomplish the desired distribution of materials, for marsh habitat construction, the Contracting Officer may direct changes be made to the mound template or to increase or decrease the amounts of material to be placed in each successive discharge mound, prior to directing the Contractor to move to the next specified discharge mound location.

"3.4.2.7 Control of Discharge at Beneficial Use Site... In general, control of discharge shall include use of spreaders, spoons or other devices which reduce erosion of placed materials due to high flow velocities that occur with concentrated discharge. Additionally, the Contractor shall install a Wye valve at each Discharge Mound, to accomplish selected placement of materials, as specified, and allow use of separated discharges to diminish discharge flow.

Additionally, the Contractor shall have two (2) marsh excavators at the site during dredging, to assist with control of material placement along the Discharge Mounds, and to perform inspections and required repairs of levees, and control of effluent, as specified. Specific additional required control of discharge at each DM shall be as follows:

DM #4. The Contractor shall install a Wye valve approximately 500 to 800 feet from the initial discharge point, and place a line discharging into the area to the north identified as the "Low Water Pond". The contractor shall then discharge approximately 25,000 CY into the "Low Water Pond", before diverting the discharge to DM #4. After inspection of the "Low Water Pond", the Government will direct that additional material be discharged into the pond, if required, to obtain the desired habitat elevation. The remainder of material shall be used to construct the discharge mound in DM #4.

DM # 1. The initial discharge shall be located approximately 150 feet inside the new levee 100-foot opening along the pipeline, and material placed using floating discharge until a build-up of a mound of material at minimum elevation of +5 feet, approximately 100 feet across, which effectively blocks off the original 100-foot opening in the new levee, as it crosses the pipeline. At this point, the Contractor will be allowed to operate marsh buggies and excavators on top of the pipeline, and dredge pipe may then be placed directly on top of the fill, over the pipeline. The remainder of the mound shall be constructed by advancing pipe along the corridor. The contractor shall maintain material at minimum elevation of +4 in the area where equipment and the dredge pipe is allowed to cross the pipeline alignment, throughout the placement of material in DM #1. The Contractor shall maintain control of discharge flow, using spreaders, Wye valves and split discharge, or other techniques, as required, and repair and maintain the adjacent new levee integrity and height throughout the discharge period, such that no dredged material is allowed to flow over or wash across the levee.

DM #2 and DM #3. The mound shall be constructed by advancing pipe along the corridor. The Contractor shall maintain control of discharge flow, using spreaders, Wye valves and split discharge, or other techniques, as required, and maintain the adjacent new levee integrity and height such that no dredged material is allowed to flow over or wash across the levee. Prior to commencement of discharge in these two (2) areas, the Contractor shall arrange a meeting with the Government, to discuss the Contractor's proposed plan of discharge, and discharge control, to accomplish filling of the remainder of the BUS.

"3.4.2.8 Control of Effluent for Beneficial Use Site. No active control of effluent is required at the site, except for maintaining new and repaired levees, and repair of active washouts of existing levee areas, if this situation occurs. As material is placed, and allowed to settle within the restoration site, effluent will

be allowed to exit the site at ground elevation through (1) the demonstration berm area, (2) around the east end of the new training berm on the east side of the demonstration area. Additionally, effluent water can exit the site over the tops of existing demonstration berms or new berms at the north end of the site, and across vegetated existing levee areas located between the required levee repair reaches. Along with inspecting the integrity of new and repaired levees, the Contractor shall observe effluent flow through vegetation in the existing levee reaches between the levee repair reaches. If, at a location, it appears that excess flow across the existing levee is occurring, so that erosion is likely, or so that significant amounts of dredged material are flowing into canals, the Contractor shall excavate material from the canal bank and place material, as required, to control the flow. Dredged material that flows through breaches in, or over the tops of levees to form shoals outside of the site, shall be removed and placed into the BUS, as specified hereinafter, in the Subparagraph: Unauthorized Placement of Material below."

(13) Page 02482-11, Subparagraph 3.4.4.3. - At the end of this Subparagraph insert the following new Subparagraph:

"3.4.4.4 Pipelines to Beneficial Use Site. The dredge pipeline route to the Site shall be as indicated and shall not block or inhibit traffic within the Bessie Heights Canal and the canal to DM #4."

(14) Page 02619-2, Paragraph 1.5. - Delete this Subparagraph and substitute the following therefor:

"**1.5 PAYMENT.** No separate payment will be made for the installation of pipe. Material, equipment and labor costs necessary to perform the work covered in this Section shall be included in the applicable contract price to which the work pertains."

(15) Page 02700-2, Paragraph 1.6. - Delete this Paragraph in its entirety and substitute the following therefor:

"**1.6 PAYMENT** for the work specified herein will be made at the applicable contract price to which the work pertains and shall constitute full payment for material, labor, and inspection necessary to complete the work."

(b) Drawings.

(1) Sheets 1 of 42 Through 42 of 42. - These existing Sheets 1 of 42 through 42 of 42 shall be manually changed to read "Sheets 1 of 44 through 42 of 44".

(2) Sheet 6 of 44. - The enclosed SKETCH NO. 1 showing the dredge pipeline route to Bessie Heights shall be added to and become part of Sheet 6 of 44.

(3) Sheet 3 of 44, SKETCH NO.1 (Issued by Amendment No. 0001, Item (b)(1)) – The enclosed SKETCH NO.1A supersedes SKETCH NO. 1 issued with Amendment No. 0001 to this Invitation.

(4) Sheets 29 Of 44 Through 32 of 44. - Add the following Note to these Sheets:

“NOTE: IF OPTION NO. 1 IS EXECUTED THE LEVEE HEIGHT SHALL BE TO AN ELEVATION OF 15’ AS SHOWN. IF OPTION NO. 2 IS EXECUTED THE SHOWN LEVEE HEIGHT SHALL BE REDUCED TO AN ELEVATION OF 13’.”

(5) Sheet 33 of 44. - The enclosed new Sheet 33 of 44 supersedes Sheet 33 of 42 issued with this Invitation.

(6) Sheet 34 of 44. - The following Note shall be added to this sheet: "HEIGHT OF EXISTING SPILL BOX IS 11' M.L.T."

(7) Sheet 36 of 44. - The following Note shall be added to Cross Section 13+69: "THE TOP OF LEVEE REQUIRED ELEVATION IS 14' M.L.T."

(8) Sheet 42 of 44. - TABLE 1 shall be deleted in its entirety.

(9) Sheet 426 of 44. - In the "SIDE VIEW-TYPICAL SPILLWAY WITH WALKWAY, DISCHARGE PIPE AND LEVEE," add the following Note to the center handrail: "REMOVE EXISTING CENTER HANDRAIL."

(10) Sheet 42 of 44. - The following Note shall be added to this Sheet: "THE EXISTING SPILLBOXES FOR PLACEMENT AREAS NOS. 15, 23, AND 25B ARE LOCATED AT STATION 0+00."

(11) Sheets 43 of 44 and 44 of 44 - The enclosed new Sheets 43 of 44 and 44 of 44 shall be added to and become a part of this Invitation.

Encls:

1. Bd Sched
2. SECTION 02323
3. SECTION 02334
4. SKETCHES NOS. 1 & 1A
5. Shts 43 of 44 and 44 of 44

File 8113S

INVITATION NO. DACW64-03-B-0006

**SABINE-NECHES WATERWAY,
TEXAS, MIDDLE REACH, NECHES
RIVER CHANNEL IN JEFFERSON
AND ORANGE COUNTIES, TEXAS,
DREDGING**

**BIDDING SCHEDULE
(TO BE ATTACHED TO STANDARD FORM 1442)**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
<u>SCHEDULE NO. 1</u>					
0001	Levees, Drop-outlets, and Ditches-P.A. No. 25B	1	L.S.	\$ _____	\$ _____
0002	Mobilization and Demobilization	1	L.S.	\$ _____	\$ _____
0003	Dredging (Sections 11-13 and 11A)	369,000	C.Y.	\$ _____	\$ _____
0004	Pipelines	1	L.S.	\$ _____	\$ _____
TOTAL SCHEDULE NO. 1					\$ _____

00010-1

(To Accompany Amendment No. 0002 to Invitation No. DACW64-030B-0006)

INVITATION NO. DACW64-03-B-0006

BIDDING SCHEDULE (CONT'D)
(TO BE ATTACHED TO STANDARD FORM 1442)

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
<u>OPTION NO. 1</u>					
0005	Levees, Drop-outlets, and Ditches-P.A. No. 23	1	L.S.	\$ _____	\$ _____
0006	Levees, Drop-outlets, and Ditches-P.A. No. 18-15' Elev.)	1	L.S.	\$ _____	\$ _____
0007	Dredging (Sections 1-10)	1,713,000	C.Y.	\$ _____	\$ _____
0008	Pipelines	1	L.S.	\$ _____	\$ _____
TOTAL OPTION NO. 1					\$ _____
TOTAL SCHEDULE NO. 1 AND OPTION NO. 1					\$ _____

INVITATION NO. DACW64-03-B-0006

**BIDDING SCHEDULE (CONT'D)
(TO BE ATTACHED TO STANDARD FORM 1442)**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
<u>OPTION NO. 2</u>					
0009	Levees, Drop-outlets, and Ditches-P.A. No. 23	1	L.S.	\$ _____	\$ _____
0010	Levees, Drop-outlets, and Ditches-P.A. No. 18-13' Elev.)	1	L.S.	\$ _____	\$ _____
0011	Training Berms	1	L.S.	\$ _____	\$ _____
0012	BUS Levees	1	L.S.	\$ _____	\$ _____
0013	Dredging (Sections 1-4 and 8-10)	1,085,000	C.Y.	\$ _____	\$ _____
0014	Dredging (Sections 5-7)	628,000	C.Y.	\$ _____	\$ _____
0015	Pipelines	1	L.S.	\$ _____	\$ _____
TOTAL OPTION NO. 2					\$ _____
TOTAL SCHEDULE NO. 1 AND OPTIONS NOS. 1 AND 2					\$ _____

BIDDING SCHEDULE (Cont'd)
(TO BE ATTACHED TO STANDARD FORM 1442)

1. ARITHMETIC DISCREPANCIES (JAN 1997) (EFARS 52.214-5000).

(a) For the purpose of initial evaluation of bids, the following will be utilized in resolving arithmetic discrepancies found on the face of bidding schedule as submitted by the bidder.

- (1) Obviously misplaced decimal points will be corrected;
- (2) Discrepancy between unit price and extended price, the unit price will govern;
- (3) Apparent errors in extension of unit prices will be corrected;
- (4) Apparent errors in addition of lump-sum and extended prices will be corrected.

(b) For the purpose of bid evaluation, the Government will proceed on the assumption that the bidder intends his bid to be evaluated on the basis of the unit prices, the totals arrived at by resolution of arithmetic discrepancies as provided above and the bid will be so reflected on the abstract of bids.

(c) These correction procedures shall not be used to resolve any ambiguity concerning which bid is low.

2. MODIFICATIONS (CESWG). If a modification to a bid based on unit prices is submitted, which provides for a lump sum adjustment to the total estimated cost, the application of the lump sum adjustment of each unit price in the bid schedule must be stated. If it is not stated, the bidder agrees that the lump sum adjustment shall be applied on a pro rata basis to every unit price in the bid schedule.

3. EVALUATION OF OPTIONS (JUL 1999)(FAR 52.217-5). Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of Options will not obligate the Government to exercise the options.

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SITE WORK

SECTION 02323 STRIPPING AND EXCAVATION FOR BENEFICIAL USE SITE

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SECTION 02323 - STRIPPING AND EXCAVATION FOR BENEFICIAL USE SITE

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, and equipment to perform operations in connection with required excavation at the Bessie Heights Beneficial Use Site (BUS).

1.2 RIGHTS-OF-WAY AND BORROW AREAS. The rights-of-way and all earth borrow material at the BUS will be furnished without cost to the Contractor at the locations shown.

1.3 NOTIFICATION PRIOR TO COMMENCEMENT OF DITCHING OPERATIONS. The Contractor shall notify the Area Engineer, Northern Area Office, at least 5 days before starting construction.

1.4 UTILITIES ACROSS THE LIMITS OF DEWATERING. There are no known active utilities or buried lines crossing any areas at the BUS to be excavated. Locations of known abandoned lines crossing the area are shown.

1.5 MEASUREMENT.

1.5.1 Excavation For Levees shall not be measured for payment.

1.5.2 Excavation For Circulation Ditches shall not be measured for payment.

1.5.3 Stripping of borrow areas channels shall not be measured for payment.

1.6 PAYMENT.

1.6.1 Excavation of Circulation Channels. Payment for excavation of new circulation channels will be included in the contract lump sum price for "Training Berms," which shall include the layout, satisfactory excavation of circulation channels, satisfactory construction of associated training berms, equipment, labor, and survey costs associated therewith.

1.6.2 Excavation of Borrow Material. Payment for the excavation of borrow material to construct new levees and repair existing levees as shown and the stripping of borrow areas will be included in the contract lump sum price for "BUS Levees."

1.6.3 Surveys. No separate payment will be made for surveys, the cost of surveys shall be included in the contract price for which the work pertains.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXCAVATION.

3.1.1 Circulation Channel Excavation. The Contractor shall establish the circulation channel alignment in the field, utilizing the coordinates shown. The staked alignment at each location shall be approved prior to commencement of excavation. The Channels shall be excavated to the minimum elevations and dimensions shown and the excavated material shall be used to construct new training berms to the minimum template shown.

3.1.2 Excavation for Borrow Material to construct new levees, or repair existing eroded levee at the locations shown, shall be confined to the limits shown, unless specific approval is obtained in advance to expand the limits shown or to use an alternate borrow excavation site. Concrete, wood, or steel debris encountered within the borrow area limits shall be relocated to areas outside of the borrow limits or to abandoned portions of the borrow area to obtain sufficient quantities of satisfactory levee material for required construction.

3.1.3 Excavation Near Pipelines. Information obtained by the Government indicates there are no active petroleum pipelines within the limits of construction, as shown. Locations of known abandoned pipelines are shown on the drawings; however, additional abandoned pipelines may be present at the site. The Contractor shall endeavor to avoid damage to abandoned lines shown or encountered during excavation. Prior to excavating near a known pipeline, the line shall be physically located and staked, and care taken during adjacent work, to limit the possibility of contact.

3.2 SURVEYS.

3.2.1 Quality Control. The Contractor shall lay out and stake stationing along all new circulation channels, new training berms, new levees and levee repairs at the BUS. After completion of construction, Quality Control cross sections shall be taken 20 feet from each end of circulation channels and training berms, and at 50-foot intervals between. These surveys shall constitute the means for acceptance, by the Government, of the completed circulation channels, training berms. and levees. Cross section surveys of training berms and circulation channels shall be take as soon as practicable after completion of construction. The surveys for the new levees and levee repairs shall not be taken until at least 7 days after fill placement, to allow for short-term settlement.

3.3 ACCEPTANCE.

3.3.1 Circulation Channels and Training Berms. Acceptance by the Government of the completed circulation channels and training berms will be based on cross sections obtained by the Contractor, as specified. Spot checks of surveys will be performed by the Government. Portions of circulation channels or berms that do not conform to required elevations or dimensions shall be reconstructed to meet requirements, and

resurveyed to confirm acceptability. After acceptance, the Contractor is not required to maintain circulation channels or training berms.

3.3.2 New Levees and Levee Repairs. Acceptance by the Government of the completed new levees and levee repairs will be based on cross sections obtained by the Contractor, as specified. Spot checks of surveys will be performed by Government. Portions of new or repaired levees that do not conform to required elevations or dimensions shall be reconstructed to meet requirements, and resurveyed to confirm acceptability. After acceptance, the levees shall be maintained to the minimum crown width and elevation as required and specified in the SECTION entitled DREDGING.

3.4 RESTORATION OF DAMAGED IMPROVEMENTS OR STRUCTURES.

Fences, signs, docks, mooring dolphins or other structures or improvements damaged as a result of the Contractor's operations during prosecution of the work in this contract shall be repaired or rebuilt by the Contractor at its expense.

3.5 CONTRACTOR QUALITY CONTROL.

3.5.1 Compliance Inspection. The Contractor shall inspect for compliance with the contract requirements and shall record the inspection of operations including, but not limited to, the following:

- (1) Layout of Circulation Channels and Levees.
- (2) Required Excavation Elevations and Dimensions.

3.5.2 Contract Specifications. The on-site Quality Control Supervisor shall have copy of these specifications at the site at all times for use in performance of Quality Control activities. The specifications shall be referenced directly during Government Quality Assurance inspections with regards to questions or discussions about performance of work or quality requirements.

3.5.3 Records. A copy of the survey records and of inspections and corrective action taken shall be submitted as directed.

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SITE WORK

SECTION 02334 - EMBANKMENT CONSTRUCTION FOR BENEFICIAL USE SITE

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SECTION 02334 - EMBANKMENT CONSTRUCTION FOR BENEFICIAL USE SITE

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, and equipment and performing the operations in connection with construction of berms, levees and other required earthwork construction at the Beneficial Use Site (BUS), as shown.

1.2 MEASUREMENT.

1.2.1 Uncompacted Fill for training berms, new levees and levee repairs shall not be measured for payment.

1.3 PAYMENT.

1.3.1 New Levees and Levee Repair. Payment for the new levee construction and levee repairs will be included in the contract lump sum price for "BUS Levees," which shall include the cost of layout, stripping, surveys, labor, material, and equipment associated with the construction.

1.3.2 Training Berms. Payment for berm construction, shall be included in the contract lump sum price for "Training Berms", which shall include the cost of labor, material, and equipment associated with the berm construction and the cost of excavation of new circulation channels, including layout, acceptance surveys, satisfactory excavation of circulation channels, and equipment, labor, and survey costs associated therewith.

1.3.3 Maintenance of Levees. The cost of maintenance of the levees, after acceptance of constructed levees, as specified in the SECTION entitled DREDGING, shall be included in Option No. 2 at the contract unit price for "Dredging, Sections 5-7."

PART 2 - PRODUCTS

2.1 MATERIALS.

2.1.1 Satisfactory Fill Materials for the construction of the uncompacted fill berms and levees shall consist of clays, sands and silts, and mixtures thereof, obtained from the locations shown. Satisfactory material shall not contain rubble, debris, vegetation, roots, timber or other non-soil materials.

2.1.2 Levee and Berm Volumes. The following “neat-line volumes” have been used by the Government to prepare the Government estimate. The volumes are estimated only and the Contractor is responsible to interpret the volume numbers used to prepare his estimate for bidding. “Neat-line volumes” is defined as the unadjusted, raw quantities computed from the levee templates. The percentage for items including overbuilding, compaction, settlement, foundation displacement, construction waste, etc. is the responsibility and decision of the Contractor. The volume figures for the training berms and levees, new and repaired, are as follows:

Neat Line Fill Volumes for Bessie Heights BUS	
New Training Berms	9,000 Cubic Yards
New Levees and Levee Repairs	21,400 Cubic Yards

PART 3 - EXECUTION

3.1 FOUNDATION PREPARATION. No foundation preparation is required for submerged areas or areas bare of vegetation. For areas covered with grass or other light, small vegetation, the area shall be stripped to remove the vegetation prior to placing uncompacted fill. Large shrubs, small trees or other moderately thick vegetation located at the ends of required levee repair reaches, on existing oil-field channel levees, shall not be stripped or otherwise disturbed.

3.2 UNCOMPACTED FILL FOR EMBANKMENT CONSTRUCTION FOR BUS.

3.2.1 General. Fill material obtained from within limits of borrow areas, as shown, or from approved alternate areas, shall be placed to the minimum lines and elevations shown, using approved equipment and methods. At some locations, where weaker, less cohesive materials are encountered, construction to minimum grade may require material placement to be done in two (2) or more stages, to allow for drainage of excess water, prior to attempting to place material to additional height.

3.2.1.1 New Levees and Levee Repair. After placement of sufficient material, the surface of the fill shall be smoothed and compacted with the excavator bucket. The crown of the levees shall be sufficiently smooth and sloped toward the edges of the crown, such that water will drain from the surface, and not collect in ponds atop the crown. In areas where material contains a high amount of organic silt and/or sand, and tends to “run” during placement, the material shall be initially stacked as high as possible above the water surface, to allow for drainage of excess water, and development of some apparent cohesion within the material prior to final shaping. The Contractor shall determine the amounts of overheight likely to be required at various locations along the levee alignment, such that the minimum elevations and dimensions can be maintained throughout the dredging period. Areas of levee that slump, slide or otherwise settle below the required minimum elevation or dimensions, prior to acceptance of completed levees shall be repaired to the required lines and grade prior to acceptance. During dredging, the

maintenance of levees to the required elevations and dimension shall be as d specified in the SECTION entitled DREDGING.

3.2.1.2 Training Berms. After placement of sufficient material, the surface of the fill shall be smoothed and compacted with the excavator bucket. In areas where material contains a high amount of organic silt or sand, and can “run” during placement, the material shall be initially stacked as high as possible above the water surface to allow for drainage of excess water and development of some apparent cohesion within the material prior to final shaping. The Contractor shall determine the amount of overheight necessary to ensure that the minimum elevations and dimensions can be maintained prior to acceptance surveys. Slumped areas that can be identified by observation or shown by surveys shall be repaired prior to acceptance.

3.3 GRADE TOLERANCES AND SHRINKAGE ALLOWANCES FOR EMBANKMENTS.

3.3.1 Levees and Berms. Except as otherwise specified herein, levees and berms shall be constructed, as a minimum, to the grades and cross sections shown.

3.4 CONTRACTOR QUALITY CONTROL.

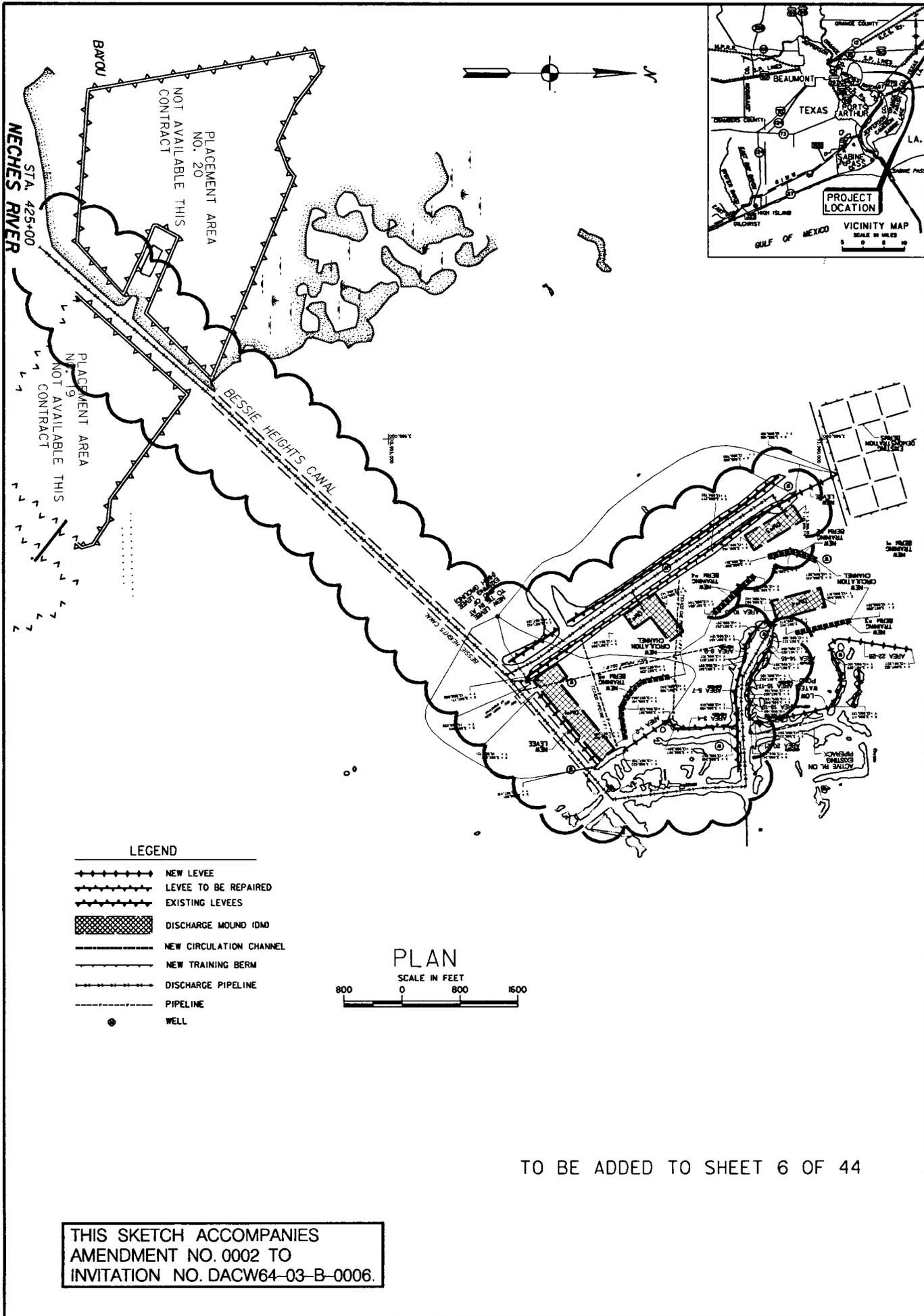
3.4.1 Compliance Inspection. The Contractor shall inspect for compliance with the contract requirements and shall record the inspection of operations including, but not limited to, the following:

- (1) Required Lines and Grades.
- (2) Required Smooth Levee Crowns Sloped to Drain.

3.4.2 Contract Specifications. The on-site Quality Control Supervisor shall have copy of these specifications at the site at all times for use in performance of Quality Control activities. The specifications shall be referenced directly during Government Quality Assurance inspections with regards to questions or discussions about performance of work or quality requirements.

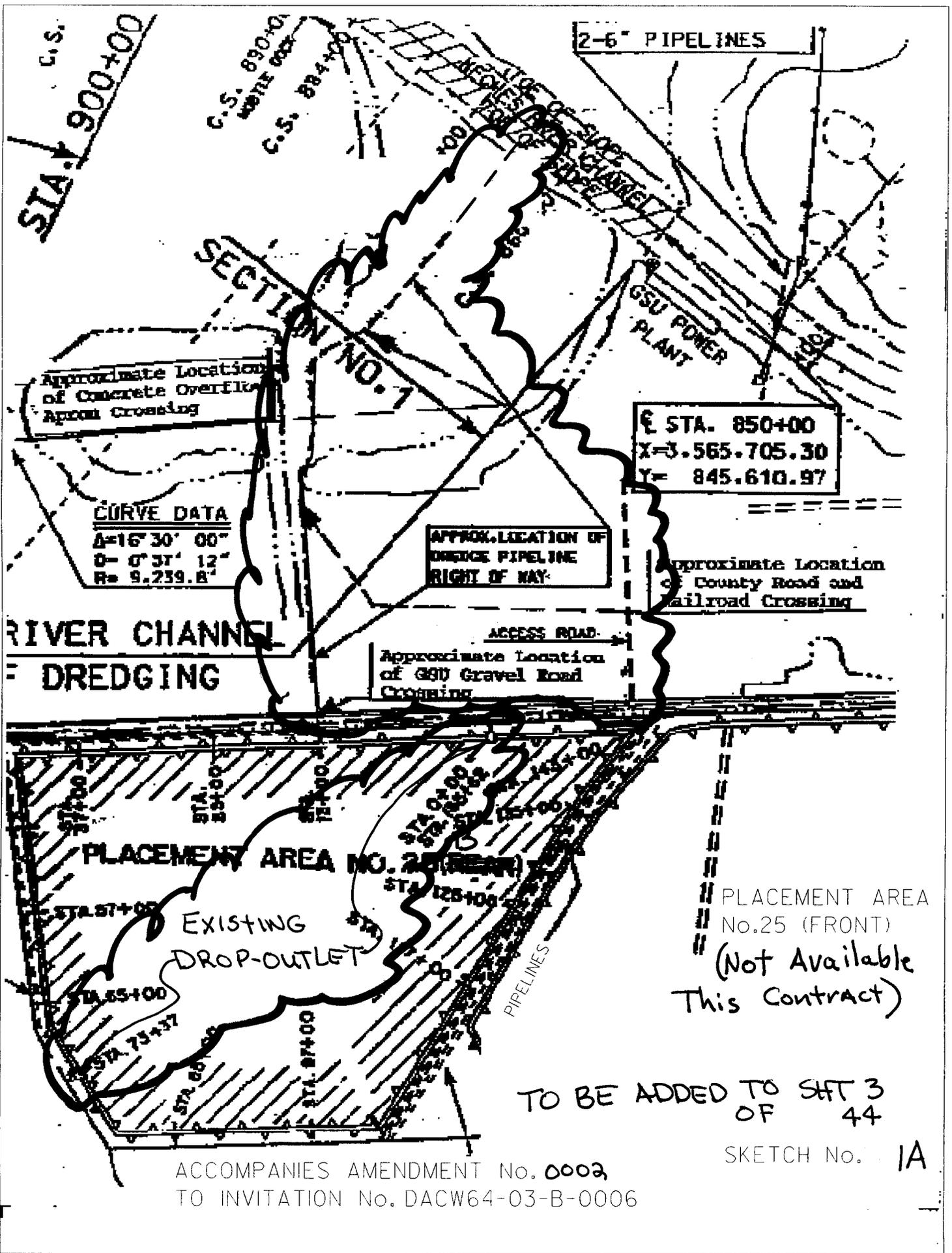
3.4.3 Records. A copy of the survey records and of inspections and corrective action taken shall be submitted as directed.

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TO BE ADDED TO SHEET 6 OF 44

THIS SKETCH ACCOMPANIES
 AMENDMENT NO. 0002 TO
 INVITATION NO. DACW64-03-B-0006.



C.S.
 STA. 900+00

C.S. 890+00
 WEIR 000'

SECTION NO. 7

2-6" PIPELINES

GSU POWER PLANT

Approximate Location of Concrete Overflight Approx Crossing

€ STA. 850+00
 X=3.565.705.30
 Y= 845.610.97

CURVE DATA
 $\Delta = 16^{\circ} 30' 00''$
 $D = 0^{\circ} 37' 12''$
 $R = 9.239.8'$

APPROX. LOCATION OF DREDGE PIPELINE RIGHT OF WAY

Approximate Location of County Road and Railroad Crossing

RIVER CHANNEL
 DREDGING

ACCESS ROAD
 Approximate Location of G90 Gravel Road Crossing

PLACEMENT AREA NO. 25 (FRONT)

EXISTING DROP-OUTLET

PLACEMENT AREA No. 25 (FRONT)
 (Not Available This Contract)

TO BE ADDED TO SHT 3 OF 44

SKETCH No. 1A

ACCOMPANIES AMENDMENT No. 0002
 TO INVITATION No. DACW64-03-B-0006