

2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 09 APRIL 2004	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY	CODE W912EP	7. ADMINISTERED BY (If other than Item 6)	CODE W912EP

USA ENGINEER DISTRICT, JACKSONVILLE PRUDENTIAL OFFICE BUILDING 701 SAN MARCO BLVD., CESAJ-CT JACKSONVILLE, FLORIDA 32202	GULF COAST AREA OFFICE U.S. ARMY CORPS OF ENGINEERS CESAJ-CO-G B & 4TH STREET, BUILDING 1066 TAMPA, FLORIDA 33686-9247
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(✓)	9A. AMENDMENT OF SOLICITATION NO. W912EP-04-B-0001
	(X)	9B. DATED (SEE ITEM 11) 17 NOVEMBER 2003
		10A. MODIFICATION OF CONTRACTS/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

(X) 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 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.)

LAKE OKEECHOBEE WATER RETENTION, PHOSPHORUS REMOVAL PROJECT, NUBBIN SLOUGH - NEW PALM STORM WATER TREATMENT AREAS, OKEECHOBEE COUNTY, FLORIDA

ANY ENCLOSURES ACCOMPANYING THIS AMENDMENT SHOULD BE INSERTED IN THE PLANS AND SPECIFICATIONS AS APPLICABLE. ALL SUPERSEDED MATERIALS SHOULD BE REMOVED OR ADEQUATELY MARKED TO INDICATE THEY HAVE BEEN SUPERSEDED.

THE DATE FOR RECEIPT OF BIDS IS CHANGED TO 20 APRIL 2004 AT 2:00 P.M.

SEE ATTACHED CONTINUATION SHEET

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

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

SF 30 Continuation Sheet

AMENDMENT NO. 0004

APRIL 9, 2004

LAKE OKEECHOBEE WATER RETENTION / PHOSPHORUS REMOVAL PROJECT

NUBBIN SLOUGH - NEW PALM STORMWATER TREATMENT AREA

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

1. SPECIFICATIONS:

a. Either asterisks appear before and after the line or lines where revisions have been made to the text on the enclosed revised or added pages or the text changes have been updated with additions noted with underlined text and deletions noted with line/cross-outs, and pertain only to changes made by this amendment.

LINE ITEMS AND PRICING SCHEDULE:

a. **Delete** Line Items and Pricing Schedule, Rev Am 0002, in its entirety and insert attached Schedule, Rev. Am 0004, in its place.

SECTION 01270:

a. **Delete** Section 01270 in its entirety and insert attached Section 01270, Rev Am 0004, in its place.

END OF AMENDMENT NO. 0004

SECTION 00010A
LINE ITEMS AND PRICING SCHEDULE

Lake Okeechobee Water Retention / Phosphorus Removal Project
Nubbin Slough - New Palm Stormwater Treatment Area

Item No.	Description	Quantity (4)	U/M	Unit Price	Amount
0001	<u>Containment</u>				
0001AA	Clearing and Grubbing (Est Qty)	257	Acre	\$ _____	\$ _____
0001AB	Fencing - Barb Wire (Est Qty)	13,718	LF	\$ _____	\$ _____
0001AC	Embankment for Berms (Est Qty)	277,600	CY	\$ _____	\$ _____
0001AD	Excavation for Ditches, Trenches and Site Leveling (Est Qty)	422,000	CY	\$ _____	\$ _____
0001AE	Fuse Plug Abutment	4	EA	\$ _____	\$ _____
0001AF	Aggregate Surface Course (Est Qty)	9,450	CY	\$ _____	\$ _____
0001AG	Boat Ramps	3	EA	\$ _____	\$ _____
0001AH	Seeding and Mulching (Est Qty)	46	Acre	\$ _____	\$ _____
0001AJ	Topsoil (Est Qty)	388,200	SY	\$ _____	\$ _____
0001AK	Power Line Relocation	1	JB	\$82,000.00	\$ _____
0001AL	Demolition and Removal	1	JB	Lump Sum	\$ _____
0001AM	Fill Drainage Ditches (Est Qty)	94,800	CY	\$ _____	\$ _____
0001AN	Bollards	15	EA	\$ _____	\$ _____
0002	<u>Water Control Gates</u>				
0002AA	Excavation and Backfill for Structures (Est Qty)	1,230	CY	\$ _____	\$ _____
0002AB	Reinforced Concrete (Est Qty)	120	CY	\$ _____	\$ _____
0002AC	Downward Opening Weir Gates	5	EA	\$ _____	\$ _____
0002AD	Portable Gate Actuator	1	EA	Lump Sum	\$ _____
0002AE	Staff Gages	6	EA	\$ _____	\$ _____
0002AF	Water Level Sensor Housing - Bank Mounted	2	EA	\$ _____	\$ _____
0002AG	Water Level Sensor Housing - Gate Mounted	4	EA	\$ _____	\$ _____
0002AH	Solar-Powered RTU Pole	7	EA	\$ _____	\$ _____

Item No.	Description	Quantity (4)	U/M	Unit Price	Amount
0002AJ	Auto-Sampler Housing	4	EA	\$ _____	\$ _____
0002AK	Handrail (Est Qty)	451	LF	\$ _____	\$ _____
0002AL	Reinforced Concrete Pipe, 36" dia (Est Qty)	1,542	LF	\$ _____	\$ _____
0002AM	Concrete Pipe Flared End Section, 36" dia.	5	EA	\$ _____	\$ _____
0002AN	Bedding Stone (Est Qty)	97	Ton	\$ _____	\$ _____
0002AP	Riprap (Est Qty)	215	Ton	\$ _____	\$ _____
0002AQ	Access Bridge, 12' - 3"	5	EA	\$ _____	\$ _____
0002AR	Access Bridge, 23' - 9"	1	EA	\$ _____	\$ _____
0002AS	Gate G1	1	JB	Lump Sum	\$ _____
0002AT	Control Building	1	JB	Lump Sum	\$ _____
0002AU	Bollards	2	EA	\$ _____	\$ _____
0002AV	Motor Control Center	1	JB	Lump Sum	\$ _____
0002AW	Antenna Pole & Connections	1	JB	Lump Sum	\$ _____
0002AX	Electrical Work	1	JB	Lump Sum	\$ _____
0002AY	Trash Booms	1	JB	Lump Sum	\$ _____
0003	<u>Pump Stations</u>				
0003AA	Dewatering	1	JB	Lump Sum	\$ _____
0003AB	Fencing - Chain Link (Est Qty)	353	LF	\$ _____	\$ _____
0003AC	Reinforced Concrete (Est Qty)	475	CY	\$ _____	\$ _____
0003AD	Submersible Centrifugal Pumps	4	EA	\$ _____	\$ _____
0003AE	Gate Valves	4	EA	\$ _____	\$ _____
0003AF	Check Valves	4	EA	\$ _____	\$ _____
0003AG	Pump Station Piping	1	JB	Lump Sum	\$ _____
0003AH	Control Building	1	JB	Lump Sum	\$ _____
0003AJ	Motor Control Center	1	JB	Lump Sum	\$ _____
0003AK	Control Building Air Conditioner	1	JB	Lump Sum	\$ _____
0003AL	Electrical Work	1	JB	Lump Sum	\$ _____
0003AM	Force Main (Est Qty)	3,340	LF	\$ _____	\$ _____
0003AN	Meter Pit	1	JB	Lump Sum	\$ _____
0003AP	Excavation and Backfill for Structures (Est Qty)	4,000	CY	\$ _____	\$ _____

Item No.	Description	Quantity (4)	U/M	Unit Price	Amount
0003AQ	Excavation and Backfill for Pipes (Est Qty)	24,500	CY	\$ _____	\$ _____
0003AR	Antenna Pole & Connections	1	JB	Lump Sum	\$ _____
0003AS	Miscellaneous Metals	1	JB	Lump Sum	\$ _____
0003AT	Bedding Stone (Est Qty)	19	Ton	\$ _____	\$ _____
0003AU	Riprap (Est Qty)	75	Ton	\$ _____	\$ _____
0003AV	Bollards	2	EA	\$ _____	\$ _____
0003AW	Pump Station Stilling Well	1	JB	Lump Sum	\$ _____
0004	<u>Check Weir and Intake Structure</u>				
0004AA	Dewatering	1	JB	Lump Sum	\$ _____
0004AB	Excavation and Backfill for Structures (Est Qty)	3,100	CY	\$ _____	\$ _____
0004AC	Reinforced Concrete (Est Qty)	150	CY	\$ _____	\$ _____
0004AD	Reinforced Concrete Pipe, 48" dia. (Est Qty)	64	LF	\$ _____	\$ _____
0004AE	Automatic Trash Rake/Rack System	1	JB	Lump Sum	\$ _____
0004AF	Excavation For Reservoir (Est Qty)	18,600	CY	\$ _____	\$ _____
0004AG	Bedding Stone (Est Qty)	14	Ton	\$ _____	\$ _____
0004AH	Riprap (Est Qty)	54	Ton	\$ _____	\$ _____
0004AJ	Water Level Sensor Housing - Bank Mounted	1	JB	Lump Sum	\$ _____
0005	<u>Roadway to Palm Dairy</u>				
0005AA	Excavation for Roadway (Est Qty)	18,200	CY	\$ _____	\$ _____
0005AB	Fill for Roadway (Est Qty)	1,200	CY	\$ _____	\$ _____
0005AC	Aggregate Surface Course (Est Qty)	2,500	CY	\$ _____	\$ _____
0005AD	Seeding and Mulching (Est Qty)	4	Acre	\$ _____	\$ _____
0005AE	Reinforced Concrete Pipe, 48" dia. (Est Qty)	125	LF	\$ _____	\$ _____
0005AF	Concrete Pipe Flared End Sections, 48" dia.	6	EA	\$ _____	\$ _____
0005AG	Vehicle Barrier Gates	1	JB	Lump Sum	\$ _____

Item No.	Description	Quantity (4)	U/M	Unit Price	Amount
0005AH	Cattle Guards	2	EA	\$ _____	\$ _____
0006	<u>Remediation</u>				
0006AA	Pumping	1	JB	Lump Sum	\$ _____
0006AB	Excavate and Dispose of Manure (Est Qty)	25,100	CY	\$ _____	\$ _____
0006AC	Designated Drainage Area Berm (Est Qty)	11,700	CY	\$ _____	\$ _____
TOTAL BID (LINE ITEMS 0001 THROUGH 0006AC)					\$ _____

NOTES:

- (1) Offers must price all line items. See provision at 52.214-18, Section 00100.
- (2) Failure to complete and return all required submissions (SF 1442, Section 00010, and Section 00600) could render your bid unresponsive.
- (3) See Clause "Bidders Checklist-Construction/Dredging Contract of Section 00100.

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Lake Okeechobee Water Retention / Phosphorus Removal Project
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Nubbin Slough - New Palm Stormwater Treatment Area

SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the 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.

1.1.1 Containment Area (Line Item 0001)

1.1.1.1 Power Line Relocation (Line Item 0001AK)

~~Payment includes all costs associated with or incidental to moving the powers outside the containment area. Work to be performed by Florida Power and Light. Payment includes all costs associated with or incidental to moving the power lines to the outside of the containment area. Includes providing power to the pump station and Gate G1. Work to be performed by Florida Power and Light.~~

1.1.1.2 Demolition and Removal (Line Item 0001AL)

Payment includes all actual costs associated with or incidental to furnishing materials, equipment and labor to demolish, remove, and dispose of all items indicated on the drawings including fences, abandoned utility lines and poles, drainage and irrigation structures. See Section 02220 DEMOLITION.

1.1.2 Water Control Gates (Line Item 0002)

1.1.2.1 Gate G1 (Line Item 0002AS)

Payment includes all costs associated with or incidental to furnishing ~~and~~ and installing the slide gate and appurtenances upon water control structure G1, including electric motor actuator, mounting hardware, conduits, auxilliary equipment supplied by gate manufacturer, field test, and electrical connections to motor control center. See Section 11288 SLIDE GATES.

Lake Okeechobee Water Retention / Phosphorus Removal Project
Nubbin Slough - New Palm Stormwater Treatment Area

1.1.2.2 Control Building (Line Item 0002T)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for erection of prefabricated buildings, site preparation, excavation, fill, construction of concrete slab, coordination of locations of openings and all appurtenances shall be included. See Section 13300 PRECAST CONCRETE BUILDINGS.

1.1.2.3 Motor Control Center (Line Item 0002V)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor necessary for installation of motor control center to control operation of Gate G1. See Section 16415 ELECTRICAL WORK, INTERIOR.

~~*1.1.2.4 Control Building Air Conditioner Antenna Pole and Connections (Line Item 0002AW)*~~

~~Payment includes all costs associated with or incidental to furnishing materials, equipment and labor necessary for installation of air conditioning unit in control building. See Section 15700 UNITARY HEATING AND COOLING EQUIPMENT.~~
Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for installing antenna, pole, and connection to receiving devices for remotely sensed and operated equipment. All appurtenances shall be included. See Section 16415 ELECTRICAL WORK, INTERIOR

1.1.2.5 Electrical Work (Line Item 0002AX)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for installation of raceway, conductors, enclosures, grounding, power distribution, lighting, receptacles, and switches for Gate G1 Control Building as shown on the drawings and specified. ~~Includes Material and work performed by Florida Light and Power to bring power to the site.~~ All appurtenances shall be included. See Section 16415 ELECTRICAL WORK, INTERIOR.

1.1.2.6 Floating Trash Booms (Line Item 0002Y)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of floating trash booms, including ~~belting, floats, anchors, buoys, pulleys,~~ hyacinth traps, piling, cable, and hardware.

1.1.3 Pump Stations (Line Item 0003)

1.1.3.1 Dewatering (Line Item 0003AA)

Payment includes all costs associated with or incidental to the furnishing, installing, operating and removing dewatering equipment, including installation of dewatering filter ponds and removal of filter ponds at the

Lake Okeechobee Water Retention / Phosphorus Removal Project
Nubbin Slough - New Palm Stormwater Treatment Area

completion of construction. Payment includes for costs associated with or incidental to the design of the Contractor's selected dewatering system, furnishing, installing, and removing sheet piling, concrete seals as required, wales, struts, safety handrails, stairs, and other miscellaneous items required to construct structures in the dry. See Sections 02300 EARTHWORK.

1.1.3.2 Pump Station Piping (Line Item 0003AG)

Payment includes all costs associated with furnishing materials, equipment, and labor to provide installation of ductile iron pipe and fittings for pump station and force main header, including bolts, gaskets, flanges and other appurtenances. See Section 02532 FORCE MAINS.

1.1.3.3 Control Building (Line Item 0003AH)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for erection of prefabricated buildings, floor slab, site preparation, excavation, fill, aggregate surface course for the building site, auto-sampler housing, coordination of locations of openings and all appurtenances shall be included. Includes concrete base slab and screen wall for air conditioning unit. See Section 13300 PRECAST CONCRETE BUILDINGS.

1.1.3.4 Motor Control Center (Line Item 0003AJ)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor necessary for installation of motor control center to control operation of four centrifugal pumps. See Section 16415 ELECTRICAL WORK, INTERIOR.

1.1.3.5 Control Building Air Conditioner (Line Item 0003AK)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor necessary for installation of air conditioning unit in control building. See Section 15700 UNITARY HEATING AND COOLING EQUIPMENT.

1.1.3.6 Electrical Work (Line Item 0003AL)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for installation of raceway, conductors, enclosures, grounding, power distribution, lighting, receptacles, conduits, and switches for pump station control building and pump station as shown on the drawings and specified. Includes material and work performed by Florida Light and Power to bring power to the site. All appurtenances shall be included. See Section 16415 ELECTRICAL WORK, INTERIOR.

1.1.3.7 Meter Pit (Line Item 0003AN)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor necessary for installation of meter pit eith

pipe tap and valves as shown on the drawings and described in the specifications. Includes excavation, backfill, reinforced concrete pipe manhole structure, ladder rungs, castings, pipe tap, valve, and connections for instrumentation. See Sections 02316 EXCAVATION, TRENCHING AND BACKFILLING FOR UTILITIES SYSTEMS; 02532 FORCE MAINS, and 02631 GRAVITY PIPING.

1.1.3.8 Antenna Pole and Connections (Line Item 0003AR)

Payment includes all costs associated with or incidental to furnishing materials, equipment and labor and performing all operations necessary for installing antenna, pole, and connection to receiving devices for remotely sensed and operated equipment. All appurtenances shall be included. See Section 16415 ELECTRICAL WORK, INTERIOR.

1.1.3.9 Miscellaneous Metals (Line Item 0003AS)

Payment includes all costs associated with or incidental to the fabrication and installation of safety barriers, signs, ladders, miscellaneous metals, and other shop-fabricated items. See Sections 02897 STAFF GAGES AND GATE POSITION INDICATORS and 05502 METALS: MISCELLANEOUS, STANDARD ARTICLES, SHOP FABRICATED ITEMS.

1.1.3.10 Pump Station Stilling Well (Line Item 0003AW)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of water level sensor housing, including stilling well structure and wiring.

1.1.4 Check Weir and Intake Structure (Line Item 0004)

1.1.4.1 Dewatering (Line Item 0004AA)

Payment includes all costs associated with or incidental to the furnishing, installing, and operating dewatering equipment at check weir and intake structure. Payment shall cover all costs of furnishing, installing, operating, and removing dewatering equipment, including installation of dewatering filter ponds and removal of filter ponds at the completion of construction. Payment includes for costs associated with or incidental to the design of the Contractor's selected dewatering system, furnishing, installing, and removing sheet piling, concrete seals as required, wales, struts, safety handrails, stairs, and other miscellaneous items required to complete sheet piling cofferdam. See Sections 02300 EARTHWORK and 02464 METAL SHEET PILING.

1.1.4.2 Automatic Trash Rake/Rack System (Line Item 0004AE)

Payment includes all costs associated with or incidental to furnishing materials, equipment, and labor and performing all operations necessary for providing and installing trash racks. See Sections 05055 METALWORK FABRICATION, MACHINE WORK, MISCELLANEOUS PROVISIONS and 05502 METALS: MISCELLANEOUS, STANDARD ARTICLES, SHOP FABRICATED ITEMS.

1.1.4.3 Water Level Sensor Housing - Bank Mounted (Line Item 0004AJ)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of water level sensor housing, including stilling well structure, mounting piping, and wiring.

1.1.5 Roadway to Palm Dairy (Line Item 0005)

1.1.5.1 Vehicle Barrier Gate (Line Item 0005AG)

Payment includes all cost associated with or incidental to furnishing materials, equipment, and labor, and performing all operations necessary for providing and installing vehicle barrier gates. See Section 02821 FENCING.

1.1.6 Remediation (Line Item 0006)

1.1.6.1 Pumping (Line Item 0006AA)

Payment includes all costs associated with pumping the lagoons dry as indicated on the Remediation Plan.

1.2 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the 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.

1.2.1 Containment Area (Line Item 0001)

1.2.1.1 Clearing and Grubbing (Line Item 0001AA)

~~Payment includes all costs associated with or incidental to clearing and grubbing necessary to clear away vegetation, root systems, and debris on areas to be cleared, graded, or to receive embankment, ditches, or construction. See Section 02230 CLEARING AND GRUBBING.~~

a. Payment:

Payment includes all costs associated with or incidental to clearing and grubbing necessary to clear away vegetation, root systems, and debris on areas to be cleared, graded, or to receive embankment, ditches, or construction. See Section 02230 CLEARING AND GRUBBING.

b. Measurement:

The total amount of material removed, and to be paid for under this

contract, will be measured by acre. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and grubbing, and the finished grades shown on the drawings. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Progress surveys performed by the Contractor shall be in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Acre.

1.2.1.2 Fencing (Line Item 0001AB)

Payment includes all costs associated with or incidental to furnishing, fabrication and installation of perimeter fencing and fencing for security. See Section 02821 FENCING.

1.2.1.3 Embankment for Berms (Line Item 0001AC)

~~Payment includes all costs associated with embankment for the perimeter and separation levees including borrow as required, hauling and storage operations required during construction, filling operations required to match proposed levee template, including compaction of soil, environment protection, silt fences, and hay bales. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with embankment for the perimeter and separation levees including borrow as required, hauling and storage operations required during construction, filling operations required to match proposed levee template, including compaction of soil, environment protection, silt fences, and hay bales. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated

quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard

1.2.1.4 Excavation for Ditches, Trenches, and Site Leveling (Line Item 0001AD)

~~Payment includes all costs associated with excavation for ditches, trenches, and site leveling, including hauling and storage operations required, environment protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with excavation for ditches, trenches, and site leveling, including hauling and storage operations required, environmental protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.

1.2.1.5 Fuse Plug Abutment (Line Item 0001AE)

Payment includes all costs associated with or incidental to furnishing materials, equipment, and labor and performing all operations necessary for construction of fuse plug abutments, including excavation, backfill, compaction, disposal of excess materials, geotextile, and articulated concrete block. See Sections 02300 Earthwork, 02378 GEOTEXTILES USED AS FILTERS and 02382 ARTICULATING CONCRETE BLOCK REVETMENTS.

1.2.1.6 Aggregate Surface Course (Line Item 0001AF)

~~Payment includes all costs associated with aggregate surface course including preparation of base, acquiring, hauling, spreading, and compacting aggregate surface course, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02731 AGGREGATE SURFACE COURSE~~

a. Payment:

Payment includes all costs associated with aggregate surface course including preparation of base, acquiring, hauling, spreading, and compacting aggregate surface course, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02731 AGGREGATE SURFACE COURSE,

b. Measurement:

The quantities of Aggregate Surface Course shall be paid for at the respective contract unit price in the LINE ITEMS AND PRICING SCHEDULE. Payment shall constitute full compensation for preparing and reconditioning the underlying layer; for furnishing all material, equipment, plant, and tools; and other incidentals necessary to complete the work required by Section 02295 STONE REVETMENT. No payment will be made for defective areas until corrected.

c. Unit of Measure:

Cubic Yard.

1.2.1.7 Boat Ramps (Line Item 0001AG)

Payment includes all costs associated with or incidental to furnishing, fabrication and installation of each boat ramp facility including limerock base, concrete footing, support timbers, timber decking, fasteners, and appurtenances as shown on the drawings. See Sections 03101 FORMWORK FOR CONCRETE, 03201 STEEL BARS AND WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT FOR CIVIL WORKS, 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

1.2.1.8 Seeding and Mulching (Line Item 0001AH)

~~Payment includes all costs associated with the supply and application of~~

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~~new seed, mulch and landscaping as indicated on the drawings and as specified. See Sections 02921 SEEDING~~

a. Payment:

Payment includes all costs associated with the supply and application of new seed, mulch and landscaping as indicated on the drawings and as specified. See Sections 02921 SEEDING.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by acre. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after Seeding and Mulching, and the finished grades shown on the drawings. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Progress surveys performed by the Contractor shall be in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Acre.

1.2.1.9 Topsoil (Line Item 0001AJ)

~~Payment includes all costs associated with stripping, salvaging, stockpiling, spreading, finish grading, soil testing, soil amendments, and fertilizer as indicated on the drawings and as specified in Section 02921 SEEDING.~~

a. Payment:

Payment includes all costs associated with stripping, salvaging, stockpiling, spreading, finish grading, soil testing, soil amendments, and fertilizer as indicated on the drawings and as specified in Section 02921 SEEDING.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured area in-place with quantities determined by field measurements of the completed area. The measurement shall be along the surface of the slope. The Government will perform surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE).

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c. Unit of Measure:

Square Yard.

1.2.1.10 Fill Drainage Ditches (Line Item 0001AM)

~~Payment includes all costs associated with or incidental to filling existing, on-site drainage ditches. Material to fill ditches as shown on Drawings to top of bank elevation will be taken from on-site borrow and/or stockpile areas. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with or incidental to filling existing, on-site drainage ditches. Material to fill ditches as shown on Drawings to top of bank elevation will be taken from on-site borrow and/or stockpile areas. See Section 02300 EARTHWORK.

b. Measurement:

Fill satisfactorily placed will be measured for payment by the in-place volume as determined by use of the average end area method. The quantities will be computed by the Government in accordance with clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Measurement of quantity placed for pay purposes will be based on original and final cross sections made on the section or reach indicated on the drawings. The Contractor shall give 3 calendar days advance notice, in writing, to the Contracting Officer's Representative of the need to perform the original and final surveys. Quality Control Surveys shall be the responsibility of the Contractor. Monthly partial payments will be based on approximate quantities determined by measurement of the in-place beach fill and in accordance with clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard,

1.2.1.11 Bollards (Line Item 0001AN)

Payment includes all costs associated with of incidental to furnishing, material, equipment, labor, and installation for each bollard as indicated on the drawings. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

1.2.2 Water Control Gates (Line Item 0002)

1.2.2.1 Excavation and Backfill for Structures (Line Item 0002AA)

~~Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environment protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.~~

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a. Payment:

Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environmental protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material excavated, and to be paid for under this contract, will be measured volume in-place with quantities determined by field measurements. Measurements will be taken at corners of the structure to determine area and depth of excavation. The excavation limits to be calculated shall not be flatter than the 2:1 slopes as shown on dewatering plans. The backfill will not be measured or paid separately. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE

c. Unit of Measure:

Cubic Yard.

1.2.2.2 Reinforced Concrete (Line Item 0002AB)

~~Payment includes all costs associated with completing the concrete work for gate structures including formwork, waterstop, steel reinforcement, and clean up. Includes the cost of furnishing and installing embedded parts and serrated galvanized grating. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.~~

a. Payment:

Payment includes all costs associated with completing the concrete work for gate structures including formwork, waterstop, steel reinforcement, and clean up. Includes the cost of furnishing and installing embedded parts and serrated galvanized grating. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

b. Measurement:

Concrete will be measured for payment based upon the actual volume of concrete within the pay lines of the structures as indicated on the drawings. Measurement of concrete placed against the sides of any excavation without the use of intervening forms shall be made only within the pay lines of the structure. No deductions shall be made for rounded or beveled edges, space occupied by metal work, electrical conduits or reinforcing steel, or for voids or embedded items that are either less than 5 cubic feet in volume or 1 square foot in cross section.

c. Unit of Measure:

Cubic Yard.

1.2.2.3 Downward Opening Weir Gates (Line Item 0002AC)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment, and performing all operations necessary for the installation of weir gates including operators, gate rails, seals, and gate position indicators. See Section 11288 SLIDE GATES.

1.2.2.4 Portable Gate Actuator (Line Item 0002AD)

Payment includes all costs associated with or incidental to furnishing a portable gasoline/hydraulic powered actuator to open and close slide weir gates. See Section 11288 SLIDE GATES.

1.2.2.5 Staff Gages (Line Item 0002AE)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the fabrication and installation of staff gages including mounting surface, face plates, and anchorage systems. See Section 02897 STAFF GAGES.

1.2.2.6 Water Level Sensor Housing - Bank Mounted(Line Item 0002AF)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of water level sensor housing, including stilling well structure, piping, and wiring.

1.2.2.7 Water Level Sensor Housing - Gate Mounted (Line Item 0002AG)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of water level sensor housing, including stilling well mounting, piping, and wiring.

1.2.2.8 Solar-Powered RTU Pole (Line Item 0002AH)

Payment includes all costs associated with or incidental to furnishing materials, equipment, labor, and installation for each pole as shown on drawings. Includes RTU enclosure, static discharger, conduits, antenna cable, and grounding.

1.2.2.9 Auto-Sampler Housing (Line Item 0002J)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of auto-sampler housing including concrete base slab, mounting, piping, and wiring.

1.2.2.10 Handrail (Line Item 0002K)

Payment includes all costs associated with or incidental to furnishing, fabrication and installation of handrails for pump intake headwall. See Section 05502 METALS: MISCELLANEOUS, STANDARD ARTICLES, SHOP FABRICATED ITEMS.

1.2.2.11 Reinforced Concrete Pipe (Line Item 0002L)

Payment includes all costs associated with or incidental to furnishing reinforced concrete pipe at water control gates. Costs include pipe materials, equipment and labor including excavation, bedding, and backfilling, and also flexible gaskets where required. See Section 02631 GRAVITY PIPING.

1.2.2.12 Concrete Pipe Flared End (Line Item 0002AM)

Payment includes all costs associated with or incidental to furnishing reinforced concrete pipe flared end at water control gates. Costs include pipe materials, equipment and labor including excavation, bedding, and backfilling, and also flexible gaskets where required. See Section 02631 GRAVITY PIPING.

1.2.2.13 Bedding Stone (Line Item 0002N)

~~Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for bedding stone satisfactorily placed will be made at the applicable contract unit price for bedding stone. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the bedding stone until final acceptance by the Government. No separate payment will be made for the stockpiling of bedding stone, and all cost in connection with stockpiling shall be included in the contract unit price for bedding stone. Quantities will be computed to the nearest whole ton. Bedding Stone will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

1.2.2.14 Riprap (Line Item 0002P)

~~Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for riprap satisfactorily placed will be made at the applicable contract unit price for Riprap. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the riprap until final acceptance by the Government. No separate payment will be made for the stockpiling of riprap, and all cost in connection with stockpiling shall be included in the contract unit price for riprap. Quantities will be computed to the nearest whole ton. Riprap will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

1.2.2.15 Access Bridge (Line Items 0002Q , 0002AR)

Payment includes all costs associated with or incidental to furnishing materials, equipment, labor, and installation for all access bridges, including cast-in-place reinforced concrete, structural members, ~~and grating,~~ and handrails. Access bridges will be located at each of the water control gate structures. See Sections 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS and 05502 METALS: MISCELLANEOUS, STANDARD ARTICLES, SHOP FABRICATED ITEMS.

1.2.2.16 Bollards (Line Item 0002AU)

Payment includes all costs associated with or incidental to furnishing, material, equipment labor, and installation for each bollard as shown on the drawings. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

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1.2.3 Pump Stations (Line Item 0003)

1.2.3.1 Fencing (Line Item 0003AB)

Payment includes all costs associated with or incidental to furnishing, fabrication and installation of perimeter fencing and fencing for security. See Section 02821 FENCING.

1.2.3.2 Reinforced Concrete (Line Item 0003AC)

~~Payment includes all costs associated with completing the concrete work for the pump station including formwork, finishing, damp-proofing, stopping, steel reinforcement, and clean up. Includes the cost of furnishing and installing embedded parts. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.~~

a. Payment:

Payment includes all costs associated with completing the concrete work for the pump station including formwork, finishing, damp-proofing, waterstop, steel reinforcement, and clean up. Includes the cost of furnishing and installing embedded parts. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

b. Measurement:

Concrete will be measured for payment based upon the actual volume of concrete within the pay lines of the structures as indicated on the drawings. Measurement of concrete placed against the sides of any excavation without the use of intervening forms shall be made only within the pay lines of the structure. No deductions shall be made for rounded or beveled edges, space occupied by metal work, electrical conduits or reinforcing steel, or for voids or embedded items that are either less than 5 cubic feet in volume or 1 square foot in cross section.

c. Unit of Measure:

Cubic Yard.

1.2.3.3 Submersible Centrifugal Pumps (Line Item 0003AD)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of submersible centrifugal pumps including connection elbow, guide rails, and auxiliary equipment supplied by pump manufacturer, field testing of pumps, and electrical connection pumps to motor control center. See Section 11211 PUMPS: SUBMERSIBLE CENTRIFUGAL.

1.2.3.4 Gate Valves (Line Item 0003AE)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of gate valves in pump station. See Section 02532 FORCE MAINS.

1.2.3.5 Check Valves (Line Item 0003AF)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for the installation of check valves in pump station. See Section 02532 FORCE MAINS.

1.2.3.6 Force Mains (Line Item 0003AM)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for installation of force main. Excavation and backfill will be paid for separately under Section 02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES SYSTEMS. See Section 02532 FORCE MAINS.

1.2.3.7 Excavation and Backfill for Structures (Line Item 0003AP)

~~Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environment protection, turbidity monitoring, floating turbidity barriers, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environment protection, turbidity monitoring, floating turbidity barriers, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material excavated, and to be paid for under this contract, will be measured volume in-place with quantities determined by field measurements. Measurements will be taken at corners of the structure to determine area and depth of excavation. The excavation limits to be calculated shall not be flatter than the 2:1 slopes as shown on dewatering plans. The backfill will not be measured or paid separately. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE

c. Unit of Measure:

Cubic Yard.

1.2.3.8 Excavation and Backfill for Pipes (Line Item 0003AQ)

~~Payment includes all costs associated with trench excavation and backfill for pipes including pipe bedding and borrow as required, hauling and storage operations including compaction and finish grading. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITY SYSTEMS.~~

a. Payment:

Payment includes all costs associated with trench excavation and backfill for pipes including pipe bedding and borrow as required, hauling and storage operations including compaction and finish grading.

Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITY SYSTEMS.

b. Measurement:

The total amount of material excavated, and to be paid for under this contract, will be measured by volume in-place with quantities determined by the average end area method. The excavation limits to be calculated shall not be flatter than the 2:1 slopes as shown on dewatering plans. The backfill will not be measured or paid separately. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE.

c. Unit of Measure:

Cubic Yard.

1.2.3.9 Bedding Stone (Line Item 0003AT)

~~Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for bedding stone satisfactorily placed will be made at the applicable contract unit price for bedding stone. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the bedding stone until final acceptance by the Government. No separate payment will be made for the stockpiling of bedding stone, and all cost in connection with stockpiling shall be included in the contract unit price for bedding stone. Quantities will be computed to the nearest whole ton. Bedding Stone will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

1.2.3.10 Riprap (Line Item 0003AU)

~~Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for riprap satisfactorily placed will be made at the applicable contract unit price for Riprap. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the riprap until final acceptance by the Government. No separate payment will be made for the stockpiling of riprap, and all cost in connection with stockpiling shall be included in the contract unit price for riprap. Quantities will be computed to the nearest whole ton. Riprap will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

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1.2.3.11 Bollards (Line Item 0003AV)

Payment includes all costs associated with or incidental to furnishing, material, equipment, labor, and installation for each bollard as shown on the drawings. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

1.2.4 Check Weir and Intake Structure (Line Item 0004)

1.2.4.1 Excavation and Backfill for Structures (Line Item 0004AB)

~~Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environment protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with excavation and backfill for structures including borrow as required, hauling and storage operations including compaction, finish grading, environmental protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material excavated, and to be paid for under this contract, will be measured by volume in-place with quantities determined by field measurements. Measurements will be taken at corners of the structure to determine area and depth of excavation. The excavation limits to be calculated shall not be flatter than the 2:1 slopes as shown on dewatering plans. The backfill will not be measured or paid separately. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE.

c. Unit of Measure:

Cubic Yard.

1.2.4.2 Reinforced Concrete (Line Item 0004AC)

~~Payment includes all costs associated with completing the concrete work including formwork, dampproofing, waterstopping, steel reinforcement, and clean up. Includes the cost of embedded parts that are specified to be paid for separately. No payment will be made for concrete, as such, that is placed in structures of which payment is made as a lump sum. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.~~

a. Payment:

Payment includes all costs associated with completing the concrete work including formwork, dampproofing, waterstopping, steel reinforcement, and clean up. Includes the cost of embedded parts that are specified to be paid for separately. No payment will be made for concrete, as such, that is placed in structures of which payment is made as a lump sum. See Section 03301 CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS.

b. Measurement:

Concrete will be measured for payment based upon the actual volume of concrete within the pay lines of the structures as indicated on the drawings. Measurement of concrete placed against the sides of any excavation without the use of intervening forms shall be made only within the pay lines of the structure. No deductions shall be made for rounded or beveled edges, space occupied by metal work, electrical conduits or reinforcing steel, or for voids or embedded items that are either less than 5 cubic feet in volume or 1 square foot in cross section.

c. Unit of Measure:

Cubic Yard.

1.2.4.3 Reinforced Concrete Pipe (Line Item 0004AD)

Payment includes all costs associated with or incidental to furnishing reinforced concrete pipe at check weir and intake structures. Costs will include pipe materials, equipment and labor including excavation, bedding, and backfilling, and also flexible gaskets where required. See Section 02631 GRAVITY PIPING.

1.2.4.4 Excavation for Reservoir (Line Item 0004AF)

~~Payment includes all costs associated with excavation for reservoir including hauling and storage operations required, environment protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with excavation for reservoir including hauling and storage operations required, environment protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement,

and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.

1.2.4.5 Bedding Stone (Line Item 0004AG)

~~Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with bedding stone including preparation of base, acquiring, hauling, spreading, and compacting bedding stone, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for bedding stone satisfactorily placed will be made at the applicable contract unit price for bedding stone. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the bedding stone until final acceptance by the Government. No separate payment will be made for the stockpiling of bedding stone, and all cost in connection with stockpiling shall be included in the contract unit price for bedding stone. Quantities will be computed to the nearest whole ton. Bedding stone will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

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1.2.4.6 Riprap (Line Item 0004AH)

~~Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.~~

a. Payment:

Payment includes all costs associated with furnishing, transporting, stockpiling, and placing riprap as specified. See Section 02395 STONE REVETMENT.

b. Measurement:

Payment for riprap satisfactorily placed will be made at the applicable contract unit price for Riprap. Price(s) and payment(s) shall constitute full compensation for furnishing, hauling, handling, placing, and maintaining the riprap until final acceptance by the Government. No separate payment will be made for the stockpiling of riprap, and all cost in connection with stockpiling shall be included in the contract unit price for riprap. Quantities will be computed to the nearest whole ton. Riprap will be measured for payment, in the presence of the Contracting Officer, by weighing on approved, accurately calibrated scales furnished by and at the expense of the Contractor. The scales shall be capable of printing a weight ticket including time, date, truck number, and weight. Weight certificates furnished by a public weighmaster will be acceptable.

c. Unit of Measure:

Ton.

1.2.5 Roadway to Palm Dairy (Line Item 0005)

1.2.5.1 Excavation For Roadway (Line Item 0005AA)

~~Payment includes all costs associated with excavation for roadway including borrow as required, hauling and storage operations including finish grading, environment protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with excavation for roadway including borrow as required, hauling and storage operations including finish grading, environment protection, silt fences, and hay bales where required. Includes removal and hauling of excess excavated material and unsuitable materials to embankment site or on-site spoil area. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this

contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.

1.2.5.2 Fill for Roadway (Line Item 0005AB)

~~Payment includes all costs associated with fill for roadway, hauling and storage operations including compaction, finish grading, environment protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with fill for roadway, hauling and storage operations including compaction, finish grading, environment protection, silt fences, and hay bales where required. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated

quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.

1.2.5.3 Aggregate Surface Course (Line Item 0005AC)

~~Payment includes all costs associated with aggregate surface course including preparation of base, acquiring, hauling, spreading, and compacting aggregate surface course, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02731 AGGREGATE SURFACE COURSE.~~

a. Payment:

Payment includes all costs associated with aggregate surface course including preparation of base, acquiring, hauling, spreading, and compacting aggregate surface course, and final trimming and grading to achieve surface elevation indicated on the drawings and in specifications. See Section 02731 AGGREGATE SURFACE COURSE.

b. Measurement:

The total amount of material placed and to be paid for under this contract will be the volume in-place with quantities calculated from field measurements. The constructed length times the surface width times the plan depth with adjustments for radus returns will be used.

c. Unit of Measure:

Cubic Yard.

1.2.5.4 Seeding and Mulching (Line Item 0005AD)

~~Payment includes all costs associated with the supply and application of new seed, mulch and landscaping as indicated on the drawings and as specified. See Sections 02921 SEEDING.~~

a. Payment:

Payment includes all costs associated with the supply and application of new seed, mulch and landscaping as indicated on the drawings and as specified. See Sections 02921 SEEDING.

b. Measurement:

The total amount of material placed, and to be paid for under this

contract, will be measured by acre. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after Seeding and Mulching, and the finished grades shown on the drawings. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Progress surveys performed by the Contractor shall be in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Acre.

1.2.5.5 Reinforced Concrete Pipe (Line Item 0005AE)

Payment includes all costs associated with or incidental to furnishing reinforced concrete pipe at roadway culverts. Costs include pipe materials, equipment and labor including excavation, bedding, and backfilling, and also flexible gaskets where required. See Section 02631 GRAVITY PIPING.

1.2.5.6 Concrete Pipe Flared End (Line Item 0005AF)

Payment includes all costs associated with or incidental to furnishing reinforced concrete pipe at roadway culverts. Costs include pipe materials, equipment and labor including excavation, bedding, and backfilling, and also flexible gaskets where required. See Section 02631 GRAVITY PIPING.

1.2.5.7 Cattle Guard (Line Item 0005AH)

Payment includes all costs associated with or incidental to furnishing all labor, materials and equipment and performing all operations necessary for installation of cattle guards, including excavation, assembly, installation and cast-in-place reinforced concrete.

1.2.6 Remediation (Line Item 0006)

1.2.6.1 Excavation and Disposal of Manure (Line Item 0006AB)

~~Payment includes all costs associated with excavation, embankment and backfill, and disposal as detailed in the Remediation Plan.~~

a. Payment:

Payment includes all costs associated with excavation, embankment and backfill, and disposal as detailed in the Remediation Plan.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities

determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.

1.2.6.2 Designated Drainage Area Berm (Line Item 0006AC)

~~Payment includes all costs associated with the construction and removal of the berm for the designated drainage area as shown in remediation plan, including borrow as required, hauling and storage operations required during construction, filling operations required to match proposed levee template, including compaction of soil, environment protection, silt fences, and hay bales. See Section 02300 EARTHWORK.~~

a. Payment:

Payment includes all costs associated with the construction and removal of the berm for the designated drainage area as shown in remediation plan, including borrow as required, hauling and storage operations required during construction, filling operations required to match proposed levee template, including compaction of soil, environment protection, silt fences, and hay bales. See Section 02300 EARTHWORK.

b. Measurement:

The total amount of material placed, and to be paid for under this contract, will be measured by the volume in-place with quantities determined by the average end area method. The Government will perform initial and final surveys in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Cross sections will be taken at a 100-foot interval. The cross sections used for calculation of final quantities will be determined from the original survey performed by the Government after clearing and before fill placement, and the finished grades shown on the drawings. The final survey performed by the Government will be used to verify that fill placement

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is complete to the required finished grades, and that tolerances have not been exceeded. Fill above required finished grades will not be included in quantities calculated for final payment. The estimated quantity for this line item does not include tolerances. The Contractor is responsible for considering the cost of required tolerances, and including this cost in the unit price for this line item (See Section 00010A LINE ITEMS AND PRICING SCHEDULE). Cross sections used for calculation of quantities for progress payments will be determined from the original survey performed by the Government, and elevations below finished grade obtained from progress surveys performed by the Contractor in accordance with the clause QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. Unit of Measure:

Cubic Yard.