

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE	PAGE OF PAGES 1 5
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 30-Aug-2004	4. REQUISITION/PURCHASE REQ. NO. W81G66-4180-3069	
6. ISSUED BY U. S. ARMY ENGINEER DISTRICT, CHICAGO 111 CANAL STREET CHICAGO IL 60606		CODE W912P6	7. ADMINISTERED BY (If other than item 6) See Item 6	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. W912P6-04-B-0004	
			<input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) 09-Aug-2004	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u> 1 </u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Reference Solicitation No. W912P6-04-B-0004 for LOCAL FLOOD PROTECTION, LITTLE CALUMET RIVER, INDIANA, STAGE VI-1 SOUTH LEVEE, HIGHLAND AND HAMMOND, INDIANA The Amendment continues on the next page.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
			TEL: _____ EMAIL: _____	
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 30-Aug-2004

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

A. STANDARD FORM 1442, BLOCK 11

The contractor period of performance end date has increased by 30 days from 730 days to 760 days.

B. SECTION 00100 - BIDDING SCHEDULE/INSTRUCTIONS TO BIDDERS

Remove and Replace the Bid Schedule with the attached revised Bid Schedule. The following CLINS have been changed:

0004, 0005AA, 0005AB, 0005AC, 0005AD, 0005AE, 0005AF, 0006AA, 0006AB, 0006AC, 0007, 0009, 0024AP, 0024AQ, 0024AR, 0024AS, 0024AT, 0025AF.

CHANGES TO SECTION 00100:

FAR Clause 52.222-23: CHANGE the expressed percentage for Minority Participation for Each Trade to 40%, as shown below in the full text of the Clause.

52.222-23 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (FEB 1999)

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each trade	Goals for female participation for each trade
40%	6.9%

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in

excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the --

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract; and
- (5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is **Highland and Hammond, Indiana, Lake County**.

(End of provision)

C. SECTION 00700 - CONTRACT CLAUSES

CHANGES TO SECTION 00700:

FAR Clause 52.211-10: CHANGE the completion of work from 730 days to 760 days, as shown below in the full text of the Clause.

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within **10** calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 760 days after receipt of the notice to proceed. The time stated for completion shall include final cleanup of the premises.

(End of clause)

DFARS Clause 252.236-7001: CHANGE the location of the index of drawing files to the index of drawings provided with the electronic drawing files.

252.236-7001 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS (AUG 2000)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;

(4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and

(5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

(1) Large-scale drawings shall govern small-scale drawings; and

(2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

Title File Drawing No.

The index of drawings are part of the electronic drawing files.

(End of clause)

D. CHANGES TO SPECIFICATIONS:

Attached hereto are the following revised pages to the Solicitation's Specifications. Revised pages replace the like-numbered pages in the subject Specifications. Changes are indicated by an asterisk in the left margin opposite the beginning of the revision and an asterisk in the right margin opposite the end. The revision mark "(Am-0001)" is shown on each page of the revised specification sections. Note: Sections 01270 and 05502 are replaced in their entirety.

Section	Page No(s)/Paragraph No(s)
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01270	Pages 01270-1 through 01270-13
02720	Page 02720-4, Para. 3.5.2
02820	Page 02820-1, Para. 1.1
05502	Pages 05502-1 through 05502-6
01330	Submittal Register, Page 6 of 8
01330	Submittal Register, Page 7 of 8
01330	Submittal Register, Page 8 of 8

E. CHANGES TO DRAWINGS

Revised Drawings: The drawings listed below replace like-numbered drawings and are issued herewith in electronic format.

Sheet Reference No.

G-03
C-01
C-05
C-10
C-10A

C-11
C-15
C-16
C-18
C-19
C-20
C-21
R-02
R-03
R-04
R-05
R-06
R-07
R-08
R-09
R-10
S-02
S-06
S-07
S-13

Section 00010 - Solicitation Contract Form

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	MOBILIZATION AND DEMOBILIZATION Firm-Fixed Price (FFP)	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	TEMPORARY CONSTRUCTION FACILITIES FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	CLEARING AND GRUBBING FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		1,600	Cubic Yard		
	STRIPPED MATERIALS FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005					
	LEVEE CONSTRUCTION LEVEE CONSTRUCTION BETWEEN STA. 7S 32+00 AND 7S 41+00 FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AA		10,000	Cubic Yard		
	EXCAVATE AND DISPOSE/STOCKPILE RIVER MUCK - FIRST 10,000 CY FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AB		6,700	Cubic Yard		
	EXCAVATE AND DISPOSE STOCKPILE RIVER MUCK - OVER 10,000 CY FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AC		30,000	Cubic Yard		
	LEVEE FILL (IMPERVIOUS, SATISFACTORY, AND PLANTING ZONE) - FIRST 30,000 CY FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AD		16,700	Cubic Yard		
	LEVEE FILL (IMPERVIOUS, SATISFACTORY, AND PLANTING ZONE) - OVER 30,000 CY FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AE	RIPRAP - FIRST 600 TONS FFP	600	Net Ton (2,000 LB)		
					<hr/>
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AF	RIPRAP - OVER 600 TONS FFP	600	Net Ton (2,000 LB)		
					<hr/>
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	LEVEE FILL LEVEE FILL BETWEEN STA. 7S 0+00 TO 7S 32+00 AND 7S 41+00 TO 8S 23+77 FFP				
					<hr/>
					NET AMT

This is an informational CLIN.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AA	IMPERVIOUS FILL FFP	60,200	Cubic Yard		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AB	SATISFACTORY FILL FFP	10,000	Cubic Yard		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AC	PLANTING ZONE MATERIAL FFP	7,200	Cubic Yard		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007		45,000	Cubic Yard		
	EXISTING SPOIL BANK EXCAVATION FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008		6,126	Linear Foot		
	INSPECTION TRENCH FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009		9,400	Cubic Yard		
	TOPSOIL FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	SEEDING FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010AA	TYPE 1 FFP	3	Acre		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010AB	TYPE 2 FFP	1	Acre		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010AC	TYPE 3 FFP	1.50	Acre		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	PLANTING OF TREES FFP	57	Each		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0012	DITCH EXCAVATION STA. 8S 3+02 TO 8S 19+47 FFP	745	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	RIPRAP FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013AA	KENNEDY AVENUE GATEWELL FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013AB	SLUICE GATE OUTLET NORTH 5TH PUMP STATION FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013AC	CULVERT TIE-IN NORTH 5TH PUMPSTATION FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013AD	NORTH DRIVE PUMPSTATION FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013AE	NORTH DRIVE GATEWELL FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014	RECREATION LEVEE TRAIL AND RAMPS FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AA	CRUSHED AGGREGATE BASE FFP	1,240	Net Ton (2,000 LB)		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AB	UNWASHED LIMESTONE SCREENINGS FFP	620	Net Ton (2,000 LB)		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AC	GEOTEXTILE FABRIC FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AD	RECREATIONAL TRAIL SIGNS FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AE	VEHICLE BARRIERS/BOLLARDS FFP	6	Each		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AF		70	Net Ton (2,000 LB)		
	BITUMINOUS BINDER COURSE FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014AG		53	Net Ton (2,000 LB)		
	BITUMINOUS SURFACE COURSE FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015					
	FENCING FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015AA	SECURITY FENCE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015AB	FENCE REMOVAL AND REPLACEMENT STATION 7S 19+00 & 7S 21+00 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015AC	FENCE REMOVAL BETWEEN STATIONS 7S 35+30 TO 7S 40+00 AND 7S 51+80 FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016		615	Net Ton (2,000 LB)		
	SAND STOCKPILE FOR KENNEDY AVENUE ROAD CLOSURE				
	FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017					
	PAVING OVER TENNIS COURTS AT PARRISH STREET				
	FFP				
	This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017AA		1	Lump Sum		
	REMOVE FENCE AROUND COURTS				
	FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017AB		260	Net Ton (2,000 LB)		
	BITUMINOUS BINDER COURSE FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017AC		200	Net Ton (2,000 LB)		
	BITUMINOUS SURFACE COURSE FFP				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018					
	I-WALL @ 7N, 0+33 TO 1+52 FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018AA	REINFORCED CONCRETE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018AB	STEEL SHEET PILING FFP	1,200	Square Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019	I-WALL @ 7S, 0+33 TO 1+38 FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019AA	REINFORCED CONCRETE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019AB	STEEL SHEET PILING FFP	975	Square Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020	SHEET PILE WALL @ 7S 13+80 TO 17+70 FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AA	STEEL SHEET PILING PZ22 FFP	5,400	Square Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AB	STEEL SHEET PILING PZ27 FFP	675	Square Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AC	60" RCP, CLASS 4 FFP	40	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AD	STOP LOG STRUCTURE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AE	60" X 60" HEAVY DUTY SLUICE GATE AND EQUIPMENT FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AF	SLUICE GATE PLATFORM FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0020AG	REMOVE 60" RCP W/ HEADWALL FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021	I-WALL @ 7S, 46+72 TO 8S, 3+30 FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021AA	REINFORCED CONCRETE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021AB	STEEL SHEET PILING FFP	14,500	Square Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022	OUTLET 7-3C FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022AA	GATEWELL 7-3C FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022AB	54" x 54" HEAVY DUTY SLUICE GATE AND EQUIPMENT FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0022AC	REMOVE AND DISPOSE 54" RCP FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023	NORTH DRIVE OUTLET FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AA	NORTH DRIVE GATEWELL FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AB	36" x 36" HEAVY DUTY SLUICE GATE, 36" FLAPGATE AND EQUIPMENT FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AC	36" REINFORCED CONCRETE PIPE FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AD	PRELOAD EMBANKMENT FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AE	VERTICAL PREFABRICATED WICK DRAINS FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0023AF	OUTLET DITCH FFP	50	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024	HIGHLAND INTERCEPTOR FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AA	CONNECT TO EXISTING MANHOLE 179 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AB	CATCH BASIN 180 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AC	CATCH BASIN 181 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AD	CATCH BASIN 182 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AE	CATCH BASIN 183 INCLUDING CONNECTION TO EXISTING RCP FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AF	CATCH BASIN 184 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AG	CATCH BASIN 185 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AH	CATCH BASIN 186 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AJ	CATCH BASIN 187 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AK	MANHOLE 188 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AL	MANHOLE 189 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AM	MANHOLE 190 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AN	REMOVE AND REPLACE MANHOLE 191 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AP	REMOVE AND REPLACE MANHOLE 192 AND ADD 20' OF GRATED GUTTER DRAIN ON BOTH SIDES OF MH ON DULUTH STREET FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AQ	REMOVE AND REPLACE MANHOLE 193 FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AR	RCP, 18" DIA., CLASS 4 FFP	1,140	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AS	RCP, 30" DIA., CLASS 4 FFP	315	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0024AT	RCP, 29"x42" ELLIPTICAL, CLASS 4 FFP	370	Linear Foot		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025	NORTH DRIVE PUMP STATION FFP This is an Informational CLIN				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AA	REINFORCED CONCRETE PUMP ENCLOSURE INCLUDING BAR SCREEN FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AB	MAIN PUMPS AND SUMP PUMP FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AC	DISCHARGE PIPING AND FLAP GATE (HYDRAULIC CUSHION TYPE) FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AD	HEATING AND VENTILATION SYSTEM FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AE	ELECTRICAL, CONTROLS AND ELECTRICAL DISTRIBUTION FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0025AF	RCP, 60" DIA., CLASS 4 FFP	115	Linear Foot		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0026	DEMOLITION OF GRACE STREET PUMP STATION INCLUDING INLET AND OUTLET PIPING FFP	1	Lump Sum		

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0027	JIB CRANE FFP	1	Lump Sum		
					NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0028	PERFORMANCE AND PAYMENT BONDS FFP	1	Lump Sum		
					NET AMT

Notes:

1. In accordance with FAR 52.219-9, Small Business Subcontracting Plan, if the resulting contract is awarded to a large business, the contractor agree in the contract that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns will have the maximum practicable opportunity to participate in contract performance consistent with its efficient performance. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.
2. Bidders must submit prices for all Item Numbers (0001-0028) and sub-line items with the exception of those labeled Informational CLINS. Failure to Bid on all items may result in the Bid being declared non-responsive and ineligible for award.
3. The area delineated by work limits points WL1 through WL11 will not be available to the contractor until February 1 2005.

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 MOBILIZATION AND DEMOBILIZATION (Bid Item 0001)

1.1.1.1 Payment

Payment will be made at the applicable lump sum price for mobilization and demobilization of all the Contractor's plant and equipment to complete the work. Payment constitutes full compensation for all plant, labor, equipment, and incidentals associated with mobilization and demobilization. See SECTION 00800 for further information.

1.1.1.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.2 TEMPORARY CONSTRUCTION FACILITIES (Bid Item 0002)

1.1.2.1 Payment

Payment will be made at the contract lump sum price for the temporary construction office, utilities, and construction signs and all associated costs as described in SECTION 01500 TEMPORARY CONSTRUCTION FACILITIES and SECTION 01580 PROJECT SIGN AND SAFETY SIGN. Payment constitutes full compensation for all plant, labor, equipment, materials, and incidentals necessary to complete the work.

1.1.2.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.3 RECREATIONAL TRAIL SIGNS (Bid Item 0014AD)

1.1.3.1 Payment

Payment will be made at the contract lump sum price for the recreational trail signs as described in 10450 EXTERIOR SIGNAGE. Payment constitutes full compensation for all plant, labor, equipment, materials, and incidentals necessary to complete work.

1.1.3.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

1.1.4 SECURITY FENCE (Bid Item 0015AA)

1.1.4.1 Payment

Payment at the contract lump sum price will be made for installation and removal of temporary security fence, and gates within the fence as described in SECTION 02820 CHAIN-LINK FENCES AND GATES. Payment constitutes full compensation for furnishing, installing, removing, and disposing of all materials used in the security fence and for providing all necessary labor, equipment, and other incidental items necessary to complete the work.

1.1.4.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.5 FENCE MODIFICATIONS (Bid Items 0015AB, 0015AC and 0017AA)

1.1.5.1 Payment

Payment will be made at the contract lump sum price for fence modifications as indicated on the drawings and as described in SECTION 02820 CHAIN-LINK FENCES AND GATES. Payment constitutes full compensation for removing and/or reinstalling the existing fences or new materials and for providing all necessary labor, equipment, and other incidental items necessary to complete the work.

1.1.5.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

1.1.6 CONCRETE FOR FLOODWALL (Bid Item 0018AA, 0019AA, 0021AA)

1.1.6.1 Payment

Payment at the contract lump sum price will be made for concrete and all associated costs as described in SECTION 03307 CONCRETE. Payment constitutes full compensation for labor, equipment, materials, and other incidental items necessary to complete the work.

1.1.6.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

1.1.7 STOP LOG STRUCTURE (Bid Item 0020AD)

1.1.7.1 Payment

Payment will be made at the contract lump sum price for the manufactured stop log system, platform and steel grating as described in SECTION 05500 MISCELLANEOUS METALS and SECTION 03307 CONCRETE. Also included in this lump sum price shall be costs associated with removal and reinstallation of existing fence if the fence is impacted by the construction of the Stop Log Structure as described in SECTION 02220 SITE DEMOLITION. Payment

constitutes full compensation for all labor, equipment, materials, and incidentals necessary to complete work.

1.1.7.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

1.1.8 SLUICE GATE PLATFORM (Bid Item 0020AF)

1.1.8.1 Payment

Payment at the contract lump sum price will be made for concrete, miscellaneous metal items, and all associated costs as described in SECTION 03307 CONCRETE and SECTION 05500 MISCELLANEOUS METAL. Also included in this lump sum price shall be costs associated with removal and reinstallation of existing fence if the fence is impacted by the construction of the Sluice Gate Platform as described in SECTION 02220 SITE DEMOLITION. Payment constitutes full compensation for labor, equipment, materials, and other incidental items necessary to complete the work.

1.1.8.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

1.1.9 HEAVY DUTY SLUICE GATES, FLAP GATE AND EQUIPMENT (Bid Item 0020AE, 0022AB, and 0023AB)

1.1.9.1 Payment

Payment at the contract lump sum price will be made for heavy-duty sluice gates, flap gate and equipment as described in SECTION 15050 GATES. Payment constitutes full compensation for all labor, equipment, materials, and incidentals associated with gates.

1.1.9.2 Unit of Measure

Unit of Measure: Lump Sum (LS)

* 1.1.10 REMOVAL OF EXISTING DRAINAGE FACILITIES (Bid Item 0020AG AND 0022AC) *

1.1.10.1 Payment

Payment at the contract lump sum price will be made for all work associated with the removal of existing drainage facilities as described in SECTION 02220 SITE DEMOLITION. Payment constitutes full compensation for all labor, equipment, materials, and incidentals necessary to complete the work.

1.1.10.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.11 GATEWELLS (Bid Item 0022AA and 0023AA)

1.1.11.1 Payment

Payment will be made at the contract lump sum price for the work associated with Gatewell 7-3C and the North Drive Gatewell as described in SECTION 03307 CONCRETE, SECTION 15050 GATES and SECTION 05500 MISCELLANEOUS METAL.

Payment constitutes full compensation for all labor, equipment, materials and incidentals including excavation, bedding, backfill, formwork, reinforcing and miscellaneous metal items.

1.1.11.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.12 CONNECTION TO EXISTING MANHOLE 179 (Bid Item 0024AA)

1.1.12.1 Payment

Payment at the contract lump sum price will be made for connecting to the existing manhole as described in SECTION 02630 STORM-DRAINAGE SYSTEM. Payment constitutes full compensation for all all labor, equipment, materials and incidentals necessary to complete the work.

1.1.12.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.13 PRECAST DRAINAGE STRUCTURES (Bid Items 0024AB, 0024AC, 0024AD, 0024AE, 0024AF, 0024AG, 0024AH, 0024AJ, 0024AK, 0024AL, 0024AM, 0024AN, 0024AP and 0024AQ)

1.1.13.1 Payment

Payment will be made at the contract lump sum price for installing the precast drainage structures as described in SECTION 02630 STORM-DRAINAGE SYSTEM, including excavation, bedding, backfilling, and castings for the construction of the precast drainage structures, providing the manholes and catch basins and making all necessary connections. Payment constitutes full compensation for all labor, equipment, materials, and incidentals necessary to complete the work.

1.1.13.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.14 NORTH DRIVE PUMP STATION (Bid Item 0025AA, 0025AB, 0025AC, 0025AD, and 0025AE)

1.1.14.1 Payment

Payment will be made at the contract lump sum price for construction of the North Drive Pump Station and associated costs as described in SECTION 03307 CONCRETE, SECTION 05500 MISCELLANEOUS METAL, SECTION 11310 STORM WATER PUMPS, SECTION 15050 GATES (HYDRAULIC CUSHION FLAP GATE), SECTION 16225 PUMP CONTROLLER, and SECTION 16415 ELECTRICAL WORK. PIPING, HEATING AND VENTILATION EQUIPMENT ARE DESCRIBED ON DRAWINGS, Payment constitutes full compensation for all plant, labor, equipment, materials, and incidentals necessary to complete the work.

1.1.14.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.15 DEMOLITION OF GRACE STREET PUMP STATION (Bid Item 0026)

1.1.15.1 Payment

Payment will be made at the applicable lump sum price for demolition of the North Drive Pump Station. Payment constitutes full compensation for all labor, equipment, and incidentals associated with demolition and disposal. See SECTION 02220 for further information.

1.1.15.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.16 JIB CRANE (Bid Item 0027)

1.1.16.1 Payment

Payment for a new jib crane will be made at the applicable contract lump sum price, which will constitute full compensation for all costs necessary to complete all items of work as shown in the contract drawings and as specified in the applicable provisions of SECTION 14629 JIB CRANE, including furnishing, installation and testing of the specified jib crane.

1.1.16.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.17 CLEARING AND GRUBBING (Bid Item 0003)

1.1.17.1 Payment

Payment will be made at the applicable contract lump sum for clearing and grubbing as described in SECTION 02230 CLEARING AND GRUBBING, including handling, transporting, and on-site stockpiling. Payment constitutes full compensation for all plant, labor, materials, equipment, tools, and incidentals necessary to complete the work. The refilling of holes resulting from clearing and grubbing operations will not be measured for payment but will be considered as a subsidiary obligation under the above item.

1.1.17.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.18 PRELOAD EMBANKMENT (Bid Item 0023AD)

1.1.18.1 Payment

Payment will be made at the applicable contract lump sum price for the preload embankment as described in SECTION 02300 EARTHWORK. The price shall be full compensation for excavating, loading, hauling, placing fill, granular drain material, filter fabric, and removal of this material, and for furnishing all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.1.18.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.19 VERTICAL PREFABRICATED WICK DRAINS (Bid Item 0023AE)

1.1.19.1 Payment

Payment will be made at the applicable contract lump sum price for the wick drains as described in SECTION 02240 VERTICAL PREFABRICATED DRAINAGE WICKS.

The price shall be full compensation for the cost of furnishing the full length of drainage wick material; installing the drainage wick; and furnishing all tools, materials, labor, equipment, and all other costs necessary to complete the required work. No payment will be made for any excess lengths, additional wicks used for contractor convenience, unacceptable drainage wicks, or for any delays or expenses incurred through changes necessitated by the use of improper or unacceptable material or equipment.

1.1.19.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.20 GEOTEXTILE FABRIC (Bid Item 0013AA, 0013AB, 0013AC, 0013AD, 0013AE AND 0014AC)

1.1.20.1 Payment

Payment will be made at the applicable contract lump sum price for geotextile fabric meeting the requirements as described in SECTION 02378 GEOTEXTILE USED AS FILTERS AND UNDERLAYS. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary for the complete and satisfactory installation of the geotextile.

1.1.20.2 Unit of Measure

Unit of measure: Lump Sum (LS)

1.1.21 PERFORMANCE AND PAYMENT BONDS (Bid Item 0028)

1.1.21.1 Payment

Payment will be made at the contract lump sum price for the performance and payment bonds that are required as part of this contract. The Government will pay either the actual cost of the Performance and Payment Bonds or the Contractor's bid price, whichever is less. All costs associated with this item shall be included in the lump sum contract price.

1.1.21.2 Unit of Measure

Unit of measure: Lump Sum (LS)

*

1.1.22 RIP RAP (Bid Item 0013AA, 0013AB, 0013AC, 0013AD AND 0013AE)

1.1.22.1 Payment

Payment will be made at the contract lump sum price for placing rip rap as described in SECTION 02370 EROSION AND SEDIMENTATION CONTROL. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.1.22.2 Unit of Measure

Unit of measure: Lump Sum (LS)

*

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 STRIPPED MATERIALS (Bid Item 0004)

1.2.1.1 Payment

Payment will be made at the contract unit price for stripping as described in SECTION 02300 EARTHWORK, including excavating, loading, hauling, stockpiling, and placing of this material. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work. No separate payment will be made for stripping outside of the limits indicated to be stripped.

1.2.1.2 Measurement

Stripping will be measured by the cubic yard. The quantity to be measured for payment shall be the actual number of square yards of material stripped to the depth specified within the limits of construction designated on the plans and typical sections, or as directed by the Contracting Officer. The Contractor shall notify the Contracting Officer's representative sufficiently in advance of the start of the stripping operation to afford sufficient time during which to make the necessary original measurements. Upon completion of the stripping operation, the Contractor will again notify the Contracting Officer's representative that final surveys will be performed. The surveys shall be performed by an independent licensed surveyor.

1.2.1.3 Unit of Measure

Unit of measure: Cubic Yard (CY)

1.2.2 IMPERVIOUS AND SATISFACTORY FILL (Bid Item 0005AD, 0005AE, 0006AA, 0006AB AND 0016)

1.2.2.1 Payment

Payment will be made at the contract unit price for fill placed as described in SECTION 02300 EARTHWORK, including excavating, loading, hauling, placing and compacting of this material. A cofferdam and dewatering to allow for construction in the dry between Sta. 7S 32+00 and 7S 41+00 will be incidental to the cost for fill. Payment constitutes full compensation for furnishing all labor, materials, equipment, tools, and incidentals necessary to complete the work.

*

*

1.2.2.2 Measurement

Impervious fill used for the embankment construction will be measured for payment by the cubic yard, in-place. Quantities shall be determined by the average end area method every 100 feet, or as directed by the Contracting Officer. Pre-placement surveys shall be taken after the necessary stripping, excavation, and other preparation of the area has been performed. The Contractor shall notify the Contracting Officer's representative sufficiently in advance of the start of the placing operation to afford sufficient time during which to make the necessary original measurements.

Upon completion of the placement operation, the Contractor will notify the Contracting Officer's representative that final surveys will be performed. The surveys shall be performed by an independent licensed surveyor. The Contractor should note that subsurface soils may be compressible, and shrinkage and settlement may occur during construction. No additional volume of impervious fill shall be added to the survey quantity to account for settlement or shrinkage, but shall be incidental to the levee construction. The quantity of impervious fill computed in the aforementioned paragraphs shall constitute the total measurement quantity for payment. No other method or means of determining quantities of placed impervious fill materials will be considered.

1.2.2.3 Unit of Measure

Unit of measure: Cubic Yard (CY)

1.2.3 PLANTING ZONE MATERIALS (Bid Item 0006AC)

1.2.3.1 Payment

Payment will be made at the contract unit price for planting zone materials as described in SECTION 02300 EARTHWORK, including excavating, loading, hauling, and placing of this material. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.3.2 Measurement

Planting Zone materials will be measured for payment by the cubic yard. Quantities shall be determined by the average end area method every 100 feet, or as directed by the Contracting Officer. Pre-placement surveys shall be taken after the necessary stripping or other preparation of the areas has been performed. The Contractor should note that subsurface soils may be compressible, and shrinkage and settlement may occur during construction.

1.2.3.3 Unit of Measure

Unit of measure: Cubic Yard (CY)

1.2.4 EXCAVATION (Bid Item 0005AB, 0005AC AND 0007)

1.2.4.1 Payment

Payment will be made at the contract unit price for excavation of the existing levee as indicated on the drawings to the top of the inspection trench, (not including the inspection trench excavation) as described in

SECTION 02300 EARTHWORK, including excavating, loading, hauling, stockpiling and/or disposal of this material. Also includes excavation of river muck between Station 7S 32+00 and 41+00. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.4.2 Measurement

Excavation will be measured for payment by the cubic yard and shall include the levee breach excavations as indicated on the drawings. Quantities shall be determined by the average end area method every 100 feet, or as directed by the Contracting Officer. Excavation of the borrow material will not be measured for separate payment.

1.2.4.3 Unit of Measure

Unit of measure: Cubic Yard (CY)

1.2.5 INSPECTION TRENCH (Bid Item 0008)

1.2.5.1 Payment

Payment will be made at the contract unit price for inspection trenches as described in SECTION 02300 EARTHWORK, including excavation and backfilling the trench. Payment constitutes full compensation for labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.5.2 Measurement

Excavation and backfilling of the inspection trench will be measured depending on the type of trench. The slit inspection trench and the conventional inspection trench will be measured for payment by the linear foot of trench excavated.

1.2.5.3 Unit of Measure

Unit of Measure: Linear Foot (LF)

1.2.6 TOPSOIL (Bid Item 0009)

1.2.6.1 Payment

Payment will be made at the contract unit price for topsoil as described in SECTION 02300 EARTHWORK, including excavating, loading, hauling, and placing of this material. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.6.2 Measurement

Topsoil will be measured by the cubic yard. The material will be measured in its final position by the average end area method every 100 feet. Topsoil stripping and stockpiling at the borrow site will not be measured for payment and costs associated with the operations shall be considered incidental to the borrow site development.

1.2.6.3 Unit of Measure

Unit of measure: Cubic Yard (CY)

1.2.7 SEEDING (Bid Item 0010AA, 0010AB, AND 0010AC)

1.2.7.1 Payment

Payment will be made at the contract unit price for seeding as described in SECTION 02920 TURF, including excavating, loading, hauling, and placing of this material. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.7.2 Measurement

The seeding will be measured for payment in acres of seed, completed and accepted.

1.2.7.3 Unit of Measuree

Unit of measure: Acre (AC)

* 1.2.8 RIPRAP (Bid Item 0005AE and 0005AF) *

1.2.8.1 Payment

Payment at the contract unit price for riprap material acceptably placed at levee toe between STA. 7S 32+00 and 7S 41+00 and within the tolerances required as described in SECTION 02370 EROSION AND SEDIMENTATION CONTROL will be made. All associated costs for placement of geotextile fabric under the rip rap shall be considered incidental. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

Deductions: All stone permitted by the Contracting Officer to remain outside the tolerances required will be deducted from the quantity to be paid for. Volume of excess stone will be computed, using the average end area of excess above the tolerance line. The excess volume will be deducted from the payment quantity at a rate of 135 pounds per cubic foot regardless of actual weight per cubic foot.

1.2.8.2 Measurement

Stone material shall be weighed on accurate, approved scales furnished or made available by the Contractor. Before being approved for use, the scales shall have been tested by the State of Indiana Department of Weights and Measures, or by a reliable scale servicing company, so as to operate within a degree of error not greater than one percent, and be sensitive to a change in load of one-fifth of one percent: both percentages being based on the total required weight of material normally weighed as a unit on the scale. Scales shall be spot checked for accuracy and sensitivity at least once a week as the contract work progresses. When materials are weighed in hauling vehicles, gross weights shall be checked and the vehicle tare weight determined as often as the Contracting Officer directs. The Contractor shall furnish such weights, accessories, and assistance as the Contracting Officer may require for making weighing equipment tests.

Weighing operations shall be performed offsite, as approved, in the presence of the Contracting Officer, unless waived. Each load shall be accompanied by duplicate copies of delivery tickets certified by the weighmaster. At a minimum each ticket shall contain the following: Date and time, Vehicle number, Gross weight, Vehicle tare weight, Net weight,

Material weighed, and Signature of weighmaster. Delivery tickets shall be collected by the Contractor, and one copy thereof furnished to the Contracting Officer at the close of each day's operations.

1.2.8.3 Unit of Measure

Unit of measure: Ton (TN)

1.2.9 AGGREGATE SURFACE MATERIALS (Bid Item 0014AA AND 0014AB)

1.2.9.1 Payment

Payment will be made at the contract unit price for trail surface materials in-place, within the lines and dimensions indicated on the drawings and as described in SECTION 02720 GRADE CRUSHED AGGREGATE BASE COURSE, including the limestone screenings. Payment constitutes full compensation for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

1.2.9.2 Measurement

The graded-crushed-aggregate base course and limestone screenings will be measured for payment in tons of Trail Surface Materials, completed and accepted.

1.2.9.3 Unit of Measurement

Unit of Measurement: Ton (TN)

1.2.10 STEEL SHEET PILING (Bid Item 0018AB, 0019AB, 0020AA, 0020AB, AND 0021AB)

1.2.10.1 Payment

Payment at the contract unit price will be made for the installation of steel sheet piling as described in SECTION 05502 METAL SHEET PILING, including removing and disposing of all materials. Payment constitutes full compensation for all necessary labor, equipment, materials, and other incidental items necessary to complete the work.

1.2.10.2 Unit of Measure

Unit of measure: Square Feet (SF)

* 1.2.11 STORM SEWER RCP PIPES (Bid Items 0020AC, 0023AC, 0024AR, 0024AS AND 0024AT) *

1.2.11.1 Payment

Payment at the contract unit price will be made for placement of the storm sewer culvert pipes as described in SECTION 02630 STORM DRAINAGE SYSTEM, including excavation, bedding, backfill, granular fill, concrete cradles, joint materials, granular fill where required, and construction and removal of temporary outlet features. Payment constitutes full compensation for all labor, equipment, materials, and other incidental items necessary to complete the work.

1.2.11.2 Measurement

The placement of the storm sewer culvert pipes shall be measured for payment in the units of Linear Foot. No separate measurement or direct payment will be made for bituminous pavement used to repair street cuts for drainage structure and culvert installations. All associated costs for repair work shall be included with the applicable unit prices in the Bid Schedule.

1.2.11.3 Unit of Measure

Unit of Measure: Linear Foot (LF)

1.2.12 VEHICLE BARRIERS/BOLLARDS (Bid Item 0014AE)

1.2.12.1 Payment

Payment at the contract unit price will be made for vehicle barriers as described in 01500 TEMPORARY CONSTRUCTION FACILITIES. Payment constitutes full compensation for all labor, equipment, materials, and other incidental items necessary to complete the work.

1.2.12.2 Unit of Measure

Unit of measure: Each (EA)

1.2.13 DITCH EXCAVATION (Bid Items 0012 and 0023AF)

1.2.13.1 Payment

Ditch excavation will be paid for at the contract unit price per linear foot as described in SECTION 02300 EARTHWORK. The price shall be full compensation for all plant, labor, equipment, and materials required to perform the work necessary to achieve the lines, grades, and elevations of the new ditch as shown. This shall also include the stockpiling of material from the excavation as necessary.

1.2.13.2 Unit of Measure

Unit of Measure: Linear Foot (LF)

1.2.14 BITUMINOUS BINDER and BITUMINOUS SURFACE (Bid Items 0014AF, 0014AG, 0017AB, and 0017AC)

1.2.14.1 Payment

Payment will be made at the contract unit price per ton for bituminous binder and bituminous surface course as described in SECTION 02741 BITUMINOUS CONCRETE PAVEMENT. Payment constitutes full compensation for preparing or reconditioning the base course or existing pavement; for furnishing all materials, equipment, plant, and tools; and for labor and other incidentals necessary to complete work required. Prime/tack coat, as necessary, shall be included in surface course payment.

No separate measurement or direct payment will be made for bituminous pavement used to repair street cuts for drainage structure and culvert installations. All associated costs for repair work shall be included with the applicable unit prices in the Bid Schedule.

1.2.14.2 Unit of Measure

Unit of Measure: Ton (TN)

1.2.15 PLANTING OF TREES (Bid Item 0011)



1.2.15.1 Payment

Payment at the contract unit price will be made for furnishing and planting the number of trees shown on drawing sheets R-1 to R-12, and maintenance during the establishment period as described in SECTION 02931 PLANTING OF TREES. Payment constitutes full compensation for all materials and labor associated with site preparation, furnishing and planting trees, maintenance, equipment and other incidental items necessary to complete the work.

1.2.15.2 Unit of Measurement

Unit of measure: EACH (EA)



PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section --

3.5.2 Limestone Screenings

* The screenings shall be unwashed INDOT FA23 or FA24, compacted to a final thickness of 2". *

3.6 COMPACTION

3.6.1 Equipment

Compaction shall be accomplished by vibratory steel drum rollers.

3.6.2 Requirements

Each layer of base course and limestone screenings shall be compacted as specified to produce an average field-measured density, through the full depth, of at least 95 percent of maximum density obtained in the laboratory using ASTM D 698. Water content shall be maintained during the compaction procedures. Water content during compaction of limestone screenings shall be between minus 2 and plus 2 percent of optimum moisture content for the limestone screenings. In all places not accessible to the rollers, the base course material shall be compacted with mechanical tampers. Field density tests shall be performed in accordance with subparagraph 1.6.3.

3.7 FINISHING

The limestone screening surface or top layer of base course shall be finished after final compaction by cutting any overbuild to grade and rolling with a steel-wheeled roller. In no case shall thin layers of material be added to the top layer of base course to meet grade. If the elevation of the limestone screenings surface or top layer of base course is 1/2 inch or more below the grade, the top layer of base shall be scarified to a depth of at least 3 inches, new material shall be added, and the layer shall be blended and recompact to bring to grade. Adjustments in rolling and finishing procedures shall be made as may be directed to obtain grades, minimize segregation and degradation of base course material, adjust the water content, and insure an acceptable base course. Material found unacceptable shall be removed and replaced with acceptable material, as directed by the Contracting Officer.

3.8 EDGES OF BASE COURSE

Acceptable materials shall be placed along the edges of the base course in such quantity as will compact to the thickness of the course being constructed. When the course is being constructed in two or more layers, at least a 1-foot width of the shoulder shall be rolled and compacted simultaneously with the rolling and compacting of each layer of the base course, as directed.

3.9 SMOOTHNESS TEST

The surface of the top layer shall not deviate more than 3/8 inch when tested with a 10-foot straightedge applied parallel with and at right angles to the centerline of the area. Deviations exceeding 3/8 inch shall be corrected as directed.

3.10 THICKNESS CONTROL

The completed thickness of the course shall be within 1/2 inch of the

SECTION 02820

CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.1 SCOPE

* A temporary security fence shall be installed around the government temporary field office located in the work limits, as directed by the Contracting Officer. The temporary fence shall remain in place for the duration of the contract and shall only be removed after project completion or as directed by the Contracting Officer. *

1.2 SUBMITTALS

The following shall be submitted in accordance with Section 01330, SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Shop Drawings

Drawings shall show post sizes and sections; post setting and bracing; gate details; barbed wire support arms; details of attachment of fabric and barbed wire to support members; and any other details required to erect the security fence and other fence along the lines indicated.

SD-03 Product Data

Data

Data shall be submitted to indicate the type, strength, grade, gauge, and other information relative to the materials to be used in the fencing.

SD-07 Certificates

Certificates

Certificates of compliance from the manufacturer of the fencing materials shall be submitted to indicate that the materials to be used in the project meet the requirements of these specifications.

PART 2 PRODUCTS

2.1 MATERIALS

Materials for the security fence shall conform to the following:

2.1.1 Chain Link Fence

FS RR-F-191/GEN and detailed specifications forming the various parts thereto.

SECTION 05502

METAL SHEET PILING

PART 1 GENERAL

1.1 SCOPE

The work covered by this section consists of furnishing all plant, equipment, labor and materials and performing all operations in connection with the installation of metal sheet piling, in accordance with these specifications and applicable drawings.

1.2 RELATED WORK

MISCELLANEOUS METAL, Section 05500.

1.3 MATERIALS TESTS

Sheet piling and appurtenant materials shall be tested and certified by the manufacturer to meet the specified chemical, mechanical and section property requirements prior to delivery to the site. Testing of sheet piling for mechanical properties shall be performed after the completion of all rolling and forming operations.

1.4 SUBMITTALS

The contractor shall submit descriptions of driving equipment, shop drawings, test procedures, test reports and certificates, sheet piling driving records and other submittals to the Contracting Officer for Government Approval (GA) as required. Submittals not satisfactory to the Contracting Officer will be rejected.

SD-01 Preconstruction Submittals

Equipment Descriptions

Complete descriptions of driving equipment including hammers, extractors, protection caps and other installations appurtenances shall be submitted for approval prior to commencement of work.

SD-02 Shop Drawings

Shop Drawings; G, DS

Shop drawings for sheet piling shall show complete piling dimensions and details, special pile section dimensions and details including connection details and other details of fabrication, driving sequence and location of installed piling. Shop drawings shall include details and dimensions of templates and other temporary guide structures for installing piling. Shop drawings shall provide details of the method of handling piling to prevent permanent deflection, distortion or damage to piling interlocks.



SD-03 Product Data



Sheet Pile Interlock Sealant; G, DS

SD-07 Certificates

Materials Test Certificates; G, DS

Materials test certificates shall be submitted for each shipment and identified with specific lots prior to installing piling. Identification data should include piling type, dimensions, section properties, heat analysis number, chemical composition, mechanical properties and mill identification mark.

SD-09 Manufacturer's Field Reports

Driving Records

Records of the sheet piling driving operations shall be submitted after driving is completed. These records shall provide a system of identification which shows the disposition of approved piling in the work, driving equipment performance data, piling penetration rate data, piling dimensions and top and bottom elevations of installed piling.

1.5 DELIVERY, STORAGE AND HANDLING

Materials delivered to the site shall be new and undamaged and shall be accompanied by certified test reports. The manufacturer's logo and mill identification mark shall be provided on the sheet piling as required by the referenced specifications. Sheet piling shall be stored and handled in the manner recommended by the manufacturer to prevent permanent deflection, distortion or damage. Storage of piling should also facilitate required inspection activities.

PART 2 PRODUCTS

2.1 METAL SHEET PILING

Steel for sheet piling shall conform to the requirements of ASTM A572, Grade 50. Piling shall be hot-rolled steel sections. Sheet piling shall be of the type indicated and the interlocks of sheet piling shall be free-sliding, provide a swing angle suitable for the intended installation but not less than 5 degrees when interlocked, and maintain continuous interlocking when installed throughout their entire length. The sheet piling shall be homogeneous for the full thickness of the section and shall be capable of developing the structural capacity using the full section modulus. At the governments option, visual and ultrasonic testing of the sheet pile can be performed at the site prior to installation of the piling. Any defective sheet showing evidence of delamination or non-homogeneity shall be rejected and replaced as directed by the contracting officer and at no cost to the government. Sheet piling shall consist of sections of the dimensions shown on the drawings. Sheet piling shall be provided with standard pulling holes. Piling substituted for those sections shown on the drawings shall have equivalent properties to those listed in the following table:

Section Shown on Drawing	Section Modulus	Section Depth	Thickness (flanges or webs)	Yield Strength
--------------------------	-----------------	---------------	-----------------------------	----------------

	(in ³ /ft of wall)	(in)	(in)	(ksi)
PZ 22	18.4	9.0	0.375	50
PZ 27	31.0	12.0	0.375	50

Substituted sections for those indicated on the drawings shall be of the same type of section with a section modulus equal to or greater than that listed. The total number of shear studs per linear foot of wall shall remain constant. When possible, the layout, location, size, and spacing of studs shall not change. Complete shop drawings of the proposed sections showing all dimensions and details shall be submitted to the contracting officer for approval.

2.2 SPECIAL PILE SECTIONS

The Contractor shall design and provide special pile sections as necessary to accommodate alignment changes. Special pile sections shall be fabricated from plates, angles, and standard pile sections cut or bent as necessary.

2.3 APPURTENANT METAL MATERIALS

Metal plates, shapes, bolts, nuts, headed shear studs, and other appurtenant fabrication and installation materials shall conform to manufacturer's standards and to the requirements specified in the respective piling standards and in Section 05500, MISCELLANEOUS METAL.

* 2.4 INTERLOCK SEALANT

Interlock sealant shall be a liquid type hydrophilic poured-in-place rubber waterstop. The contractor shall provide all other materials not specifically described, but required for a complete and proper installation of the sealant as recommended by the sealant manufacturer. *

PART 3 EXECUTION

3.1 PILING DRIVING EQUIPMENT - HAMMER

Driving Hammers. Hammers shall be steam, air, or diesel drop, single acting, double acting, or differential acting type. The driving energy of the hammers shall be as recommended by the manufacturer for the piling weights and subsurface materials to be encountered.

3.2 PLACING AND DRIVING

3.2.1 Placing

Any excavation required within the area where pilings are to be installed shall be completed prior to placing sheet piling. Pilings shall be carefully located as shown on the drawings or directed by the Contracting Officer. Pilings shall be placed plumb with out of plumbness not exceeding 1/8 inch per foot of length and true to line. Temporary wales, templates, or guide structures shall be provided to insure that the pilings are placed and driven to the correct alignment. At least two templates shall be used in placing each piling and the maximum spacing of templates shall not exceed 20 feet. Sheet pilings properly placed and driven shall be interlocked throughout their length with adjacent pilings to form a continuous diaphragm throughout the length or run of piling wall.

3.2.2 Driving

Vibratory driving of piles shall not be allowed. Pilings shall be driven with the proper size hammer and by approved methods so as not to subject the pilings to damage. Driving resistance in excess of 20 blows/in shall be considered practical refusal. If driving resistance approaches practical refusal to penetrate the layer, then the contractor shall notify the Contracting Officer and perform any corrective measures as directed by him. Insure proper sheet pile interlocking throughout their lengths. Driving hammers shall be maintained in proper alignment during driving operations by use of leads or guides attached to the hammer. A protecting cap shall be employed in driving when using impact hammers to prevent damage to the tops of pilings. Pilings damaged during driving or driven out of interlock shall be removed and replaced at the Contractor's expense.

Adequate precautions shall be taken to insure that pilings are driven plumb. If at any time the forward or leading edge of the sheet piling wall is found to be out of plumb in the plane of the wall, the piling being driven shall be driven to the required depth and tapered pilings shall be provided and driven to interlock with the out of plumb leading edge or other approved corrective measures shall be taken to insure the plumbness of succeeding pilings. The maximum permissible taper for any tapered piling shall be 1/8 inch per foot of length. Pilings in each run or continuous length of piling wall shall be driven alternately in increments of depth to the required depth or elevation. No piling shall be driven to a lower elevation than those behind it in the same run except when the pilings behind it cannot be driven deeper. If the sheet piling next to the one being driven tends to follow below final elevation it may be pinned to the next adjacent piling. If obstructions restrict driving a piling to the specified penetration the obstructions shall be removed or penetrated with chisel beam. If the Contractor demonstrate that removal or penetration is impractical the Contractor shall make changes in the design alignment of the piling structure as directed by the Contracting Officer to insure the adequacy and stability of the structure. Pilings shall be driven to depths shown on the drawings and shall extend up to the elevation indicated on the drawings for the top of pilings. Pilings shall not be driven within 100 feet of concrete less than 7 days old.

3.3 CUTTING OFF AND SPLICING

Pilings driven to refusal or to the point where additional penetration cannot be attained and are extending above the required top elevation shall be cut off to the required elevation, as directed by the Contracting Officer. Pilings driven below the required top elevation and pilings damaged by driving and cut off to permit further driving shall be extended as required to reach the top elevation by splicing when directed by the Contracting Officer at no additional cost to the Government. If directed by the Contracting Officer pilings shall be spliced as required to drive them to depths greater than shown on the drawings and extend them up to the required top elevation. Pilings adjoining spliced pilings shall be full length unless otherwise approved. Ends of pilings to be spliced shall be squared before splicing to eliminate dips or camber. Pilings shall be spliced together with concentric alignment of the interlocks so that there are no discontinuities, dips or camber at the abutting interlocks. Spliced pilings shall be free sliding and able to obtain the maximum swing with contiguous pilings. The tops of pilings excessively battered during driving shall be trimmed when directed at no cost to the Government. Piling cutoffs shall become the property of the Contractor and shall be removed from the site. The Contractor shall cut holes in pilings for

bolts, rods, drains or utilities as shown on the drawings or as directed. All cutting shall be done in a neat and workmanlike manner. A straight edge shall be used in cuts made by burning to avoid abrupt nicks. Bolt holes in steel piling shall be drilled or may be burned and reamed by approved methods which will not damage the surrounding metal. Holes other than bolt holes shall be reasonably smooth and the proper size for rods and other items to be inserted.

3.3.1 Inspection of Driven Piling

The Contractor shall inspect the interlocked joints of driven sheet pilings extending above ground. Pilings found to be out of interlock shall be removed and replaced at the Contractor's expense.

3.3.2 Pulling and Redriving

The Contractor shall pull selected pilings after driving to determine the condition of the underground portions of pilings when directed by the Contracting Officer. The method of pulling pilings must be approved by the Contracting Officer. Any piling so pulled and found to be damaged to the extent that its usefulness in the structure is impaired shall be removed and replaced at the Contractor's expense. Pilings pulled and found to be in satisfactory condition shall be redriven when directed by the Contracting Officer.

3.4 REMOVAL

The removal of pilings shall consist of pulling, sorting, cleaning, inventorying and storing previously installed pilings as shown on the drawings and directed by the Contracting Officer.

3.4.1 Pulling

The method of pulling piling must be approved by the Contracting Officer. Pulling holes shall be provided in pilings as required. Extractors shall be of suitable type and size. Care shall be exercised during the pulling of pilings to avoid damaging piling interlocks and adjacent construction. If the Contracting Officer determine that adjacent permanent construction has been damaged during pulling the Contractor will be required to repair this construction at no cost to the Government. Pilings shall be pulled one sheet at a time. Pilings fused together shall be separated prior to pulling unless the Contractor demonstrates to the satisfaction of the Contracting Officer that the pilings cannot be separated. The Contractor will not be paid for the removal of pilings damaged beyond structural use due to proper care not being exercised during pulling.

3.4.2 Sorting, Cleaning, Inventorying and Storing

Pulled pilings shall be sorted, cleaned, inventoried and stored by type into groups as (1) piling usable without reconditioning, (2) piling requiring reconditioning and (3) piling damaged beyond structural use.

3.5 QUANTITIES

The estimated quantities of steel sheet piling listed in the bidding schedule of the contract are furnished for bidding purposes only. Sheet pile quantities for payment shall consist of the square feet of piling acceptably installed. Installed quantities shall consist of all piling including fabricated sections driven between the required top and bottom

elevations of pilings plus any additions thereto resulting from changes in design or alignment.

3.6 QUALITY CONTROL

The Contractor shall establish and maintain a quality control system for the work under this section, in accordance with SECTION 01451, "CONTRACTOR QUALITY CONTROL".

-- End of Section --

SUBMITTAL REGISTER

CONTRACT NO.
W912P6-04-B-0004

TITLE AND LOCATION		CONTRACTOR															
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	CLASSIFICATION	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY			REMARKS			
						APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION	DATE OF ACTION	DATE FWD TO APPR AUTH/	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	DATE RCD FRM APPR AUTH		DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
			SD-02 Shop Drawings														
			Shop Drawings														
			SD-03 Product Data														
			Sheet Pile Interlock Sealant														
			SD-07 Certificates														
			Materials Test Certificates														
			SD-09 Manufacturer's Field Reports														
			Driving Records														
			SD-03 Product Data														
			Materials List														
			Manufacturer's Specifications														
			SD-08 Manufacturer's Instructions														
			Details														
			Installation Procedures														
			SD-02 Shop Drawings														
			Equipment Installation														
			SD-03 Product Data														
			Material and Equipment														
			Framed Instructions														
			Spare Parts														
			SD-08 Manufacturer's Instructions														
			Factory Test Setup and Procedures														
			SD-09 Manufacturer's Field Reports														



(Am-0001)

SUBMITTAL REGISTER

TITLE AND LOCATION
LCR Stage VI Phase I - South

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	CLASSIFICATION	GOVT REVIEW	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY			REMARKS		
							APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE FWD TO APPR AUTH	DATE FWD TO OTHER REVIEWER	DATE FWD TO OTHER REVIEWER	DATE OF ACTION	DATE RCD FROM APPR AUTH		MAILED TO CONTR	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
	16225		SD-10 Operation and Maintenance Data														
			Operating and Maintenance Instructions for Controller/Telemetry Units			G DM											
	16415		SD-02 Shop Drawings			G DM											
			Electrical Work Drawings			G DM											
			Conduits and Cables Installation Plan			G DM											
			SD-03 Product Data														
			Manufacturer's Catalog			G DM											
			Material, Equipment, and Fixture Lists			G DM											
			As-Built Drawings			G DM											
			Onsite Tests			G DM											
			SD-06 Test Reports														
			Field Test Plan			G DM											
			Field Test Reports			G DM											
			SD-07 Certificates														
			Materials and Equipment Reports			G DM											
			SD-10 Operation and Maintenance Data														
			Operation and Maintenance Manuals			G DM											

PREVIOUS EDITION IS OBSOLETE

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