

TFG FILES INVENTORY

DATE: 12-15-05

Box Number: N/A

Alternate Number: N/A

Other Identification: N/A

Contents Associated With

2. Contract #3, London Avenue Outfall Canal, 1110-2-150a General Correspondence #3

A 0006888

DATE	NATURE OF ACTION	SIGNATURE
5 May 94	FAX to Burk - Fin Letter	
5 May 94	FAX to Burk - Sheet Pile Letter	
6 May 94	ED-DD to RE: SCB time frame for TC-2	TICKNER
17 May 94	FAX from Burk - Amendment	
18 MAY 94	FAX to Burk - Amendment	
18 MAY 94	Transmittal from Burk - Amendment	
24 May 94	ED-SR to CT Amendment	TICKNER
23 May 94	Letter from Skyline - Substitute Sheet Pile	
26 May 94	Amendment # 1	
31 May 94	FAX from Burk - Pre Const. Surveys	
1 Jun 94	FAX from Burk - Pre-Const Surveys	
1 Jun 94	ED-DS to CT Amendment	Tickner
2 Jun 94	Transmittal from Burk - Amendment	
2 Jun 94	Amendment # 2	
6 Jun 94	FAX to Burk - Amendment - Painting	
26 May 94	RE to OLP SCB Time Frame for TC-2	Sellers
6 June 94	ED-DS to CT Amendment	TICKNER
6 Jun 94	FAX from Bon Bros	
7 Jun 94	Amendment # 3	
8 Jun 94	FAX from McPherson	
13 Jun 94	Bid Abstract	
13 Jun 94	FAX to Burk - Bid Abstract	

DATE	NATURE OF ACTION	SIGNATURE
9 Feb 94	Transmittal from Burk - Spec Delivery	
9 Feb 94	FAX to Burk - Title Block	
11 Feb 94	Transmittal from Burk - Plans Delivery	
12 Feb 94	MTF RE Siphon + Telephone Crossings	Baunny
17 Feb 94	ED-DD to ED-DS Request for Adv., Const., Legal + Col Approval	Guggenheimer
18 Feb 94	MFR Field Trip	DeSoto
22 Feb 94	ED-DS to CD Constructibility	TICKNER HILL
24 Feb 94	MFR Haul Roads	DeSoto
25 Feb 94	DWG 1 Signatures	
25 Feb 94	FAX from Burk - Temp. Bracing @ Pipe Crossing	
2 Mar 94	FAX to Burk - Temp. Bracing @ Pipe Crossing	
2 Mar 94	ED-DD to PP Relocations Cost Estimate	TICKNER
2 Mar 94	Transmittal from Burk - Revised dwgs. 40441	
22 Feb 94	ED-DD to CT Advertisement	TICKNER
15 Mar 94	Letter to OLD - Request for Burk to do Add'l Work	TICKNER
16 Mar 94	Letter to OLD - Relocations Cost	Broussard
21 Mar 94	FAX to Burk - 15 Mar Letter	
23 Mar 94	FAX to Burk - Fin Amendment	
29 Mar 94	Letter from Burk - Add'l Work	Giardina
30 Mar 94	RE-AP to ED Rights-of-Entry	Lewis
22 Apr 94	PP to CT Relocation Funds	Broussard
27 Apr 94	Letter from SCB - TC - 2	
3 May 94	Telecon Mineo + Baunny Canal Side Fins	
3 May 94	ED to Burk Add'l Sheel Pile Analysis	Tickner
4 May 94	FAX to Burk - Amendment Format	
5 May 94	Letter to OLD - Canal Side Fins	Tickner

DATE	NATURE OF ACTION	SIGNATURE
	COE to OLD Request for Buck to do Const Insp.	Wagahoff
30 Nov 93	Transmittal from Buck - Local Review Responses	
1 Dec 93	FAX to Buck - Signed Transmittal	
1 Dec 93	FAX from Buck - Gatech Responses	
6 Dec 93	Request for Buck to do Const Mgmt	Tickner
6 Dec 93	FAX to Buck - A/E Title Block	
7 Dec 93	FAX from Buck - Revised Const Div Responses	
17 Dec 93	FAX from Buck - Dept of Streets Comments	
21 Dec 93	letter from Buck - Revised ROW Request	Chopin
22 Dec 93	ED-DD to RE ROW Amendment #1	TICKNER
27 Dec 93	OLD to Dept of Streets ROE Request for Bridge Removal	Spencer
4 Jan 94	OLD to Buck ROE	Spencer
18 Jan 94	ED-DD to ED-DS Request for Wage Rates + Pre-INV. Notice	GUGGENHEIMER
18 Jan 94	ED-DS to OC Wage Rates	TICKNER
18 Jan 94	ED-DS to CT Pre-Invitation Notice	TICKNER
2 Feb 94	FAX from Buck - Revised Traffic Control	
1 Feb 94	HPR Final Spec Review	
3 Feb 94	FAX to Buck - Revised Traffic Control	
3 Feb 94	ED-DD to ED-C Relocation Cost Estimate	GUZZARINI
10 Feb 94	ED-C to ED-DD Relocation Cost Estimate	SETTON
1 Feb 94	FAX to Buck - Misc. Corrections	
3 Feb 94	Pre-Invitation Notice	
4 Feb 94	✓ FAX to Buck - Utility Crossing	
4 Feb 94	FAX from Buck - Sheet Pile Spec	
7 Feb 94	FAX from Buck - Painting Spec	
8 Feb 94	FAX to Buck - Sheet Pile Spec	

GUIZERIX

CINDY

DD

DS

DG

DL

DR

DW

SUSPENSE

DISTRIBUTE

RELEASE

FILE

#3

DESTROY

ROUTE

90-DAY HOLD

AC0006888

CELMN-ED-FS

7 April 1994

MEMORANDUM FOR Chief, Design Branch

SUBJECT: Review of Geotechnical Investigation London Ave Outfall Canal Contract No. 3 Mirabeau Ave to Leon C. Simon

1. We have reviewed the Soils Report investigating the stability of the existing London Ave Outfall Canal floodwalls in Contract No. 3. The current plans and specifications do not allow degrading of the protected side levee crown for a temporary haul road during construction. The soils report was hand carried to our office by Ms. Angela Desoto of your office.

2. We recommend that the levee crown elevations not be degraded below the elevations shown in the following table. We recommend that the reach between Sta. 102+30 to Sta. 119+40 East not be degraded during hurricane season. If the reach is degraded during hurricane season then the specifications must include language that the contractor shall restore the degraded levees to the existing or final design section prior to the approach of a hurricane.

STATION	DEGRADE ELEVATION	MINIMUM CROWN WIDTH	F.S. I-WALL STABILITY	S.W.L.
EAST 70+20 TO 73+00	3.0	14.5	1.66	11.3
EAST 73+00 TO 84+60	3.0	16	1.5	11.3
EAST 85+40 TO 100+00	2.6	12.1	1.5	11.3
*EAST 102+30 TO 119+40	2.5	10.5	1.31	11.3
EAST 102+30 TO 119_40	2.5	10.5	1.5	10.5
EAST 120+10 TO 127+50	4.0	12	1.58	12.0
WEST 70+50 TO 84+50	3.0	13.5	1.5	11.4
WEST 85+60 TO 99+1585	3.5	16	1.76	11.5
WEST 100+40 TO 119+85	3.0	15.5	1.52	11.5

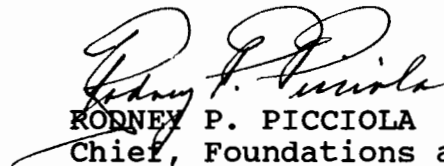
*FOR INFORMATION ONLY

3. We recommend that the floodside elevation for Sta. 85+40 to Sta. 100+00 East B/L be degraded to El. 4.5 and the floodside elevation for Sta. 102+30 to Sta. 119+40 East B/L be degraded to El. 4.0. Those are the design section elevations and will increase the F.S. of the existing floodwall.

CELMN-ED-FS

SUBJECT: Review of Geotechnical Investigation London Ave Outfall
Canal Contract No. 3 Mirabeau Ave to Leon C. Simon

4. Q-Files for Canplot program and data files for CWALSHT were furnished on 7 Apr 94, by mail on LAN to Ms. Desoto of your office.
5. POC is Frank Vojkovich, ext. 1034.


RODNEY P. PICCIOLA
Chief, Foundations and Materials
Branch

MB

_____ GUIZERIX

_____ CINDY

_____ DD *Cy*

_____ DS

_____ DG

_____ DL

_____ DR

_____ DW

_____ SUSPENSE

_____ DISTRIBUTE

_____ RELEASE

_____ FILE

_____ DESTROY

_____ ROUTE

_____ 90-DAY HOLD

Outfall Canals in the most timely and cost efficient manner. Please work with me to resolve this and any other issues so that we can proceed in the best overall public interest.

I am sorry we could not meet for lunch on the 30th, but as a new District Engineer I can certainly relate to busy schedules. However, I do look forward to meeting with you soon to introduce myself and for me to get your sense of the Levee Board's concerns regarding completion of this most important hurricane protection project for the citizens of New Orleans.

Sincerely,



Kenneth H. Clow
Colonel, U. S. Army
District Engineer

Enclosures (2)

Copies Furnished with enclosures:

Chairman, Engineering Committee
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Chief Engineer
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Managing Director
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

CELMN-ED
CELMN-ED-D
CELMN-ED-E
CELMN-RE
CELMN-OC
CELMN-CT



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

April 7, 1994

Programs and Project Management Division

Robert G. Harvey, President
Board of Levee Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Harvey:

Enclosed is a letter one of my Senior Project Managers, Terral Broussard, received from the chairman of your Engineering Committee, Richard D. Sackett. Mr. Sackett was responding to a letter Mr. Broussard sent to your Chief Engineer, Stevan Spencer, requesting Orleans Levee District funds for the relocations included with the Parallel Protection floodwall Contract No. 3 on the London Avenue Outfall Canal. A copy of this letter is also enclosed.

The plans and specifications for this contract were prepared by Burk-Kleinpeter, Inc. under contract to your Board. In accordance with the agreements between our offices, your Board furnished us the plans and specifications for us to advertise. You have furnished us right-of-entry to the right-of-way required for the construction. We, therefore, were ready to advertise for bids upon a favorable response to Mr. Broussard's letter.

Given Mr. Sackett's letter, we cannot advertise the contract and must delay this critical flood control project until we are assured your Board will furnish the required funds to cover the cost of the relocations included with the floodwall contract. We cannot proceed with floodwall construction until this issue is resolved.

It goes without saying that this is a critical matter. This floodwall is a major portion of the flood control system along the canal. This contract, along with other work completed or currently underway, represents all of the parallel protection on the London Avenue Outfall Canal except for the floodproofing of the bridges and fronting protection at the pumping stations.

I am certain we share the desire to construct the parallel protection works along the Orleans Avenue and London Avenue

The Board of Commissioners

OF THE

Orleans Levee District

SUITE 202 — ADMINISTRATION BUILDING
NEW ORLEANS LAKEFRONT AIRPORT

New Orleans, La.

70126

PROTECTING YOU
AND YOUR FAMILY



March 23, 1994

Mr. Terral J. Broussard
Senior Project Manager
Department of the Army
N. O. District Corps of Engineers
P.O. Box 60267
New Orleans, LA 70160-0267

Dear Mr. Broussard:

I am in receipt of your correspondence of March 16, 1994 regarding S&WB relocations. We appreciate your efforts in this regard, but as this is a non-participating project, we prefer to manage its costs ourselves.

With the approval of the President of the Orleans Levee Board, I request that you please forward the specifications and bid packages to our Chief Engineer, Stevan Spencer; otherwise, there will be no funds forthcoming.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Richard S. Sackett'.

Richard S. Sackett
Chairman, Engineering Committee

cc: President Robert G. Harvey, Sr.
Stevan Spencer, Chief Engineer

RDS/lab

MAR 16 1994

Programs and
Project Management Division

Stevan G. Spencer, Chief Engineer
Board of Levee Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Spencer:

This is in reference to the relocations that will be accomplished by the Federal Contractor in the construction of Contract 3 on London Avenue Outfall Canal. This is all a part of the Lake Pontchartrain and Vicinity, Louisiana Hurricane Protection Project.

As relocations are a non-Federal cost, it is required that your Board furnish the funds for the relocations after the bids are opened. The funds will be disbursed to the Contractor as the relocations are accomplished.

Our current estimate of your cost is as follows:

<u>Item</u>	<u>Estimated Cost</u>
Remove pedestrian Bridges at Fillmore Ave. and R. E. Lee Blvd.	\$ 6,600
Relocation of S&WB Feeder Cables	528,000
Replacement of S&WB Fence	<u>4,200</u>
Total	\$ 538,800

The actual amount required to be contributed by your Board will be determined after the bids are opened in mid April. We will then notify you of the proper amount and you will send us the contributed funds in 5 working days.

If you have any questions, please contact Walter D. Judlin at (504) 862-2626.

Sincerely,

Terral J. Broussard
Senior Project Manager

Copies Furnished:

**Chairman, Engineering Committee
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126**

**Mr. Robert G. Harvey, President
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126**

**Managing Director
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126**

**CELMN-ED
CELMN-ED-D
CELMN-ED-E
CELMN-CD**

Judlin
**JUDLIN
CELMN-PP**

Broussard
**BROUSSARD
CELMN-PP**
Tickner
**TICKNER
CELMN-ED**

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job No.

8 4 0 7 0 8

Date: February 09, 1994

Job Title

London Avenue Outfall Canal

Sending to: (FAX No. 504-862-1585)

US Army Corps of Engineers

New Orleans District

P.O. BOX 60267

New Orleans, LA 70160-0267

ATTN: Walter Baomy

Message:

As per your request, we are faxing this.

Please send in your comments about Dwgs. 40-43 by the end of the day. Thank You.

From:

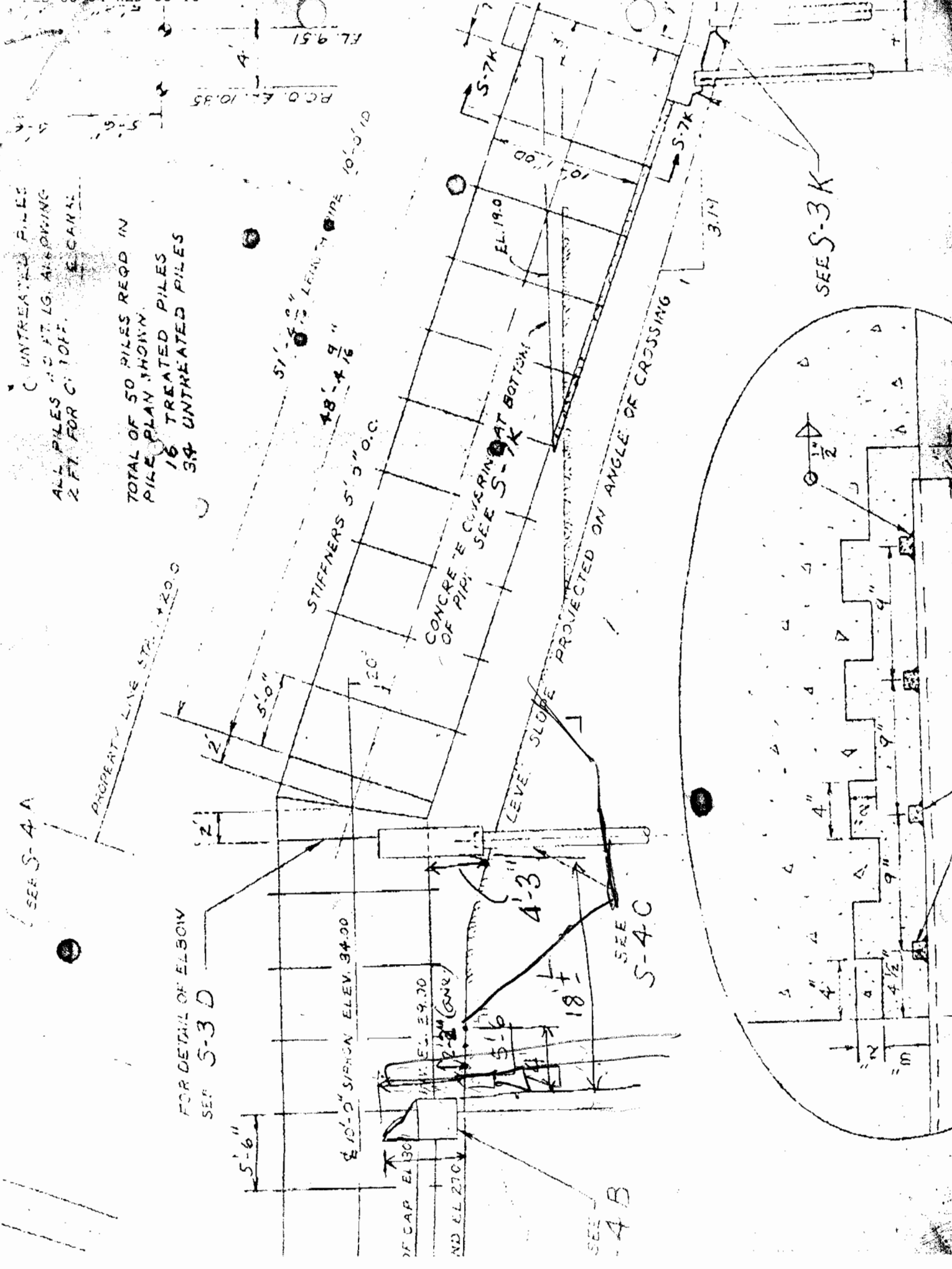
Suresh Shah

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
Fax - 504-488-1714

2

Total number of pages in this transmittal (including this cover sheet)

Copy MGJ, JWG, SIS, File



UNTREATED PILES
 ALL PILES 2 FT LG. ALLOWING
 2 FT FOR C. 10 FT. E. CASE

TOTAL OF 50 PILES REQD IN
 PILE PLAN SHOWN.
 16 TREATED PILES
 34 UNTREATED PILES

PROPERTY LINE STR. X 20.0

51'-0" LEAD PIPE 10'-0" ID

18'-4 9/16"

STIFFENERS 5'-0" O.C.

CONCRETE COVERING AT BOTTOM
 OF PIPE. SEE S-7K

LEVEL SLOPE PROJECTED ON ANGLE OF CROSSING

3.14

FOR DETAIL OF ELBOW
 SEE S-3D

10'-0" GIRDER ELEV. 34.00

2" CAP EL 30

ND EL 270

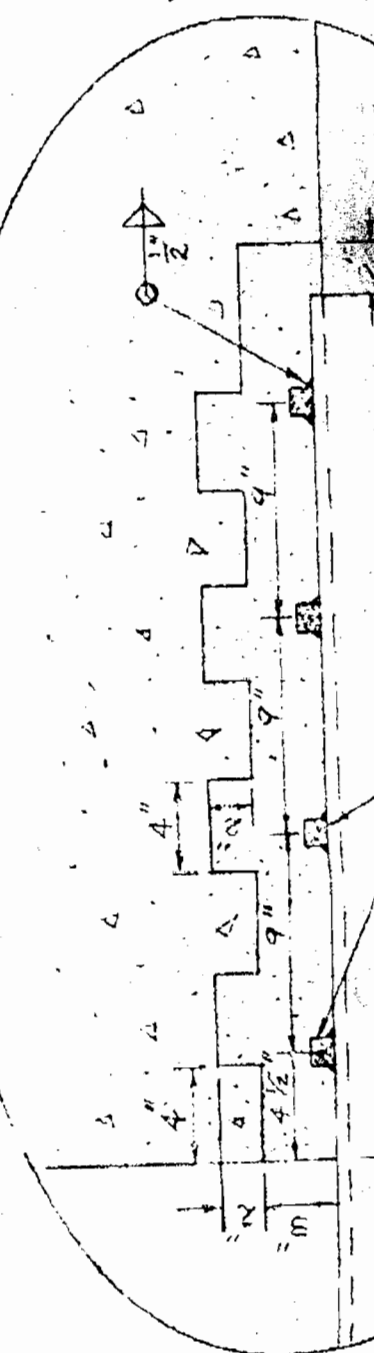
2" DIA (GRV)

18"

SEE S-4C

SEE S-4B

SEE S-3K



Copies Furnished (Continued):

CELMV, ATTN: CELMV-RE-A without enclosure

CELMN-ED-DD without enclosure

CELMN-ED-E without enclosure

CELMN-PP without enclosure

CELMN-CD without enclosure

CELMN-CD-NO with enclosure

CELMN-CT without enclosure

CELMN-RE-AC with enclosure

CELMN-RE-P without enclosure

January 4, 1994

Real Estate Division
Purchase Section

Mr. Robert G. Harvey
President, Board of Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Harvey:

Our letter dated December 9, 1993, indicated that we propose to construct the Lake Pontchartrain, Louisiana and Vicinity, Hurricane Protection Project, London Avenue Outfall Canal, Parallel Protection, Contract 3, Mirabeau Avenue to Leon C. Simon Boulevard, East Bank Floodwall, and Mirabeau Avenue to Robert E. Lee Boulevard, West Bank Floodwall, Orleans Parish, Louisiana. The limits of work extend from baseline station 70+30.00 to 119+85.00 on the west bank of the canal, and from baseline station 70+00.00 to 126+89.00 on the east bank of the canal, as indicated on the enclosed map, file number H-4-40330, sheets 1 through 5 of 5, dated October 1993, revised December 10, 1993.

The enclosed map has been amended to include the following information. All other aspects of our December 9, 1993, letter remain the same.

a. South Central Bell owns M.H.2, M.H.3 and M.H.4 at approximate stations 100+41.40 west baseline (WB/L), 100+42.73 WB/L and 100+50.95 WB/L respectively. The Government contractor shall protect these manholes at all times during the construction period.

b. New Orleans Public Service, Inc. (NOPSI) owns an overhead power line (P-6) which is crossing the floodwalls at approximate stations 120+70.80 WB/L and 121+01.75 east baseline (EB/L). This line will be de-energized by NOPSI. Upon completion of the floodwall construction, this line will be energized by NOPSI.

c. The Sewerage and Water Board of New Orleans owns a manhole for FL-432 at approximate station 97+26.76 EB/L. The Government contractor shall protect this manhole at all times during the construction period.

It is requested that right of entry to a clear and unobstructed right-of-way for construction, along with ingress and egress, be granted to the United States of America by February 18, 1994, in order to meet our scheduled advertisement date of March 1994 and award dated of May 1994.

If additional information or assistance is needed, please feel free to contact our Mrs. Linda C. LaBure at (504) 862-1295.

Your cooperation in granting right of entry, as requested, is appreciated and will enable us to maintain our construction schedule.

Sincerely,

RS

Robert E. Slockbower
Lieutenant Colonel, U.S. Army
Chief, Real Estate Division

Enclosure

Copies Furnished:

Mr. Curtis Patterson with enclosure
Director, Public Works and Flood Control
Department of Transportation and Development

Mr. John Evanco with enclosure
District Administrator
ATTN: Ms. Geneva P. Grille
District Design, Water Resources and
Development Engineer
Department of Transportation and Development
7252 Lakeshore Drive
New Orleans, Louisiana 70124

Burk-Kleinpeter, Inc. without enclosure
P.O. Box 19087
New Orleans, Louisiana 70179-0087

(Please see page 3 for additional copies furnished)

Copies Furnished:

Mr. Curtis Patterson with enclosure
Director, Public Works and Flood Control
Department of Transportation and Development

Mr. John Evanco with enclosure
District Administrator
ATTN: Ms. Geneva P. Grille
District Design, Water Resources and
Development Engineer
Department of Transportation and Development
7252 Lakeshore Drive
New Orleans, Louisiana 70124

Burk-Kleinpeter, Inc. without enclosure
P.O. Box 19087
New Orleans, Louisiana 70179-0087

CELMV, ATTN: CELMV-RE-A without enclosure

~~CELMN~~-ED-DD without enclosure
CELMN-ED-E without enclosure
CELMN-PP without enclosure
CELMN-CD without enclosure
CELMN-CD-NO with enclosure
CELMN-CT without enclosure
CELMN-RE-AC with enclosure
CELMN-RE-P without enclosure

#3
File wsb



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF.

December 9, 1993

Real Estate Division
Purchase Section

Mr. Robert G. Harvey
President, Board of Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Harvey:

We propose to construct the Lake Pontchartrain, Louisiana and Vicinity, Hurricane Protection Project, London Avenue Outfall Canal, Parallel Protection, Contract 3, Mirabeau Avenue to Leon C. Simon Boulevard, East Bank Floodwall, and Mirabeau Avenue to Robert E. Lee Boulevard, West Bank Floodwall, Orleans Parish, Louisiana. The limits of work extend from baseline station 70+30.00 to 119+85.00 on the west bank of the canal, and from baseline station 70+00.00 to 126+89.00 on the east bank of the canal, as indicated on the enclosed map, file number H-4-40330, drawings 1 through 5 of 5, dated October 1993. This right-of-way map was hand-delivered, on October 22, 1993, along with a written summary of the right-of-way requirements, to Ms. Angela DeSoto of Engineering Division. The map was delivered by a representative of your consultant who designed this project, Burk-Kleinpeter, Inc. The required right-of-way consists of perpetual levee/floodwall easements, and temporary construction easements, which include staging areas for the contractor.

The work will consist of removing the existing floodwalls and steel sheet pilings, removing pedestrian bridges at Filmore Avenue and Robert E. Lee Boulevard, removing concrete steps, and closing the gap at Filmore Avenue and Robert E. Lee Boulevard pedestrian bridges. Placement of approximately 1,500 cubic yards of fill, driving approximately 190,000 square feet of steel sheet piling, and capping I-type wall with 5,500 cubic yards of reinforced concrete over 4-inch thick stabilization slab will also be accomplished.

Work will also include driving approximately 900 square feet of uncapped AZ-18 steel sheet piling, pulling and salvaging approximately 275 square feet of existing AZ-18 steel sheet piling, removing approximately 3,000 square feet of existing steel sheet piling, and placing approximately 1,700 square feet of 8-inch thick reinforced concrete slope pavement, approximately 350 linear feet of 6 feet chain-link fence and a 4-foot gate. In addition, temporary and permanent relocation of approximately 6,300 linear feet of electric feeder lines including new splices will be accomplished.

Our Engineering Division, and your consultant, Burk-Kleinpeter, Inc. are coordinating the relocation facilities and are in contact with your office and the individual owners of these items. Items within the required right-of-way are noted on the enclosed map. All relocation work will be performed concurrently with construction. The affected facilities and their owners are as follows:

a. South Central Bell (SCB), has 18 - 5-inch diameter aerial telephone conduits (TC-1) that cross the floodwall alignment at approximate stations 100+49.61 west baseline (WB/L) and 100+18.61 east baseline (EB/L). SCB also has an underground telephone conduit (TC-2) that crosses the floodwall alignment at approximate station 100+41.27 WB/L and 100+14.28 EB/L. All work by SCB will be completed prior to the end of June 1994. The Government contractor will not be able to work around TC-1 until July 1, 1994. SCB will relocate some of the underground cables (TC-2) to the existing overhead structure (TC-1). The conduits for the underground telephone cables (TC-2) will be abandoned by SCB and portions of these conduits may be removed by the Government contractor. The Government contractor will drive new steel sheet piling under TC-1 on the west bank by hydraulic jacks as shown on the contract drawings without damaging or moving existing telephone conduits. The telephone conduits on the east side will remain on the existing floodwall. The construction of new floodwall on the east bank will end south of the existing telephone conduits.

b. New Orleans Public Service, Inc. (NOPSI) owns overhead powerlines that will be affected as follows:

1. Overhead power lines of varying voltage are crossing the floodwall alignment at stations 70+32.94 WB/L and 70+01.86 EB/L (P-1), 84+81.16 WB/L and 84+44.03 EB/L (P-2), 100+46.20 WB/L and 100+11.37 EB/L (P-5). There are power poles located at station 85+16.20 WB/L (P-3) and 85+21.30 EB/L (P-4). The lines will be de-energized by NOPSI (P-1, P-2, and P-5). Upon completion of the floodwall construction, these lines will be energized by NOPSI. The power poles (P-3 and P-4) will not be affected by construction.

2. The power pole at station 100+11.37 EB/L (P-5) will be relocated by NOPSI.

3. The remaining NOPSI facilities, at stations 69+30.30 WB/L and 68+99.33 EB/L (G-1), 69+28.90 WB/L and 68+98.23 EB/L (G-2) and 84+75.33 WB/L and 84+45.18 EB/L (G-3), will not be affected by the construction.

c. The Department of Streets owns two pedestrian bridges, PB-1 with concrete steps at stations 84+98.45 WB/L (CS-1), and 84+67.48 EB/L (CS-2), and PB-2 with concrete steps at stations 119+72.58 WB/L (CS-3) and 119+55.27 EB/L (CS-4), that are affected by the construction of this project. These bridges consist of a timber walkway and handrails supported by timber piles and cross-bracing. The pedestrian bridges, adjoining reinforced concrete staircase, aluminum handrails and approach sidewalks to the pedestrian bridges within existing canal right-of-way, will be removed by the Government contractor.

d. The Sewerage and Water Board (S&WB) of New Orleans owns aboveground and underground facilities affected by the construction of the project as follows:

1. There is an aboveground power cable (FL-400) between stations 70+37.50 WB/L and 101+47.29 WB/L that services Pump Station No. 4 and runs parallel to the existing floodwall. The Government contractor will dig a trench from stations 70+37.50 to 84+64.22 WB/L and stations 85+80.50 WB/L to 99+99.23 WB/L and lower the existing cable into it. The Government contractor will temporarily clamp FL-400 to the existing concrete slope paving from stations 99+99.23 WB/L to 101+47.39 WB/L. Subsequent to the removal of the existing floodwall and construction of a new wall, the cable will be attached to the new floodwall. At Mirabeau Avenue and Filmore Avenue bridges, the Government contractor will require new splice to join the existing power cable to either a temporarily relocated or permanently relocated power cable. The contractor will provide splices in cable at stations 70+37.50 WB/L, 70+49.00 WB/L, 84+51.72 WB/L, 84+64.22 WB/L, 85+80.50 WB/L, 85+92.00 WB/L, 101+32.00 WB/L, and 101+45.00 WB/L.

2. There is an aboveground power cable (FL-340) between stations 70+20.27 EB/L and 100+13.79 EB/L that services Pump Station No. 4 and runs parallel to the existing floodwall. The Government contractor will dig a trench from stations 70+20.27 EB/L to 84+40.35 EB/L and from stations 85+50.38 EB/L to 100+13.79 EB/L and lower the existing cable into it. Subsequent to the removal of existing floodwall and construction of a new wall, the cable will be attached to the new wall. The Government contractor will require new splice to join the existing power cable to either a temporarily or permanently relocated power cable. The contractor will provide splices in the cables at stations 70+20.27 EB/L, 70+29.77 EB/L, 84+25.60 EB/L, 84+40.35 EB/L, 85+50.38 EB/L, 85+56.63 EB/L, 99+71.22 EB/L, and 100+13.79 EB/L.

3. An aboveground power cable (FL-422) which services Pump Station No. 4 is coming through existing sheet piling at station 101+38.90 WB/L and runs south along existing floodwall and crosses under the London Avenue Outfall Canal at station 99+99.23 WB/L. It comes up on the east bank at station 99+88.47 EB/L and runs north into the pump station. The cables will be passed through the sheet pile wall at station 101+38.90 WB/L by the Government contractor. The Government contractor will temporarily clamp FL-422 to existing concrete slope paving from stations 99+99.23 WB/L to 101+38.90 WB/L. Subsequent to the removal of existing floodwall and construction of a new wall, the cable will be attached to the new wall.

4. An underground power cable (FL-432) from stations 70+00 EB/L to 101+63.00 EB/L runs parallel to the toe of the levee on east side and services Pump Station No. 4. This feeder line must be located by the Government contractor prior to setting his temporary fence posts for a temporary fence which should be located approximately 2 feet towards the canal from the existing homeowners' fence line. The holes to install temporary posts shall be hand augured without the use of any machinery. This power cable will not be affected by construction.

5. A 10-foot diameter siphon tube at stations 101+38.90 WB/L and 101+71.23 EB/L (ST-1) and 50-inch diameter discharge tube at stations 101+47.29 WB/L and 101+84.41 EB/L (DT-1) are crossing the canal aboveground. The Government contractor will drive new steel sheet piling under ST-1 and DT-1 on the west bank by hydraulic jacks as shown on the contract drawings. The contractor will notch the sheet pile at station 100+05.00 EB/L in order to pass FL-422 through the new floodwall.

6. In addition to facilities listed above, the S&WB owns water mains at stations 70+24.04 WB/L and 69+92.08 EB/L (W-1), 84+84.84 WB/L and 84+53.32 EB/L (W-2), and 120+35.46 WB/L and 120+22.10 EB/L (W-3), in the vicinity of the project that will not be affected by the construction.

7. A "no work area" is designated on the east side between approximate stations 100+43.44 to 102+48.69, EB/L to protect Pump Station No. 4.

e. Cox Cable owns overhead cables at stations 70+32.94 WB/L and 70+01.86 EB/L (CC-1) and 84+81.16 WB/L and 84+44.03 EB/L (CC-2) which are crossing the floodwall alignment. The Government contractor is not to disturb these aerial cable lines.

In order for our contractor to remove item numbers PB-1, PB-2, CS-1 through CS-4, and TC-2, which are located within the required right-of-way, these items must be declared abandoned. This should be accomplished by a letter of abandonment from the owners. In addition, a provision must be included in the right of entry, when conveyed to the United States, to defend, indemnify, and hold harmless the United States of America, its officers, agents, employees, and assigns against the lawful claim of all persons, whomsoever, with respect to the removal of the above listed abandoned items, in connection with such construction.

Your office should investigate, at this time, the need to acquire any permits from the City of New Orleans, Louisiana Department of Transportation and Development, railroad companies, utility companies or others which may be required to accommodate construction of the project so as not to delay award of this contract. It is our understanding that Burk-Kleinpeter, Inc. will assist your office by providing any technical information required for the permit applications.

The provisions of the Uniform Relocations Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, as amended, are not applicable as there are no habitable structures or commercial businesses to be relocated in connection with this project.

Ingress and egress to the work area will be from within the canal and public roads in the project vicinity. Public roads in the vicinity include Mirabeau Avenue, Filmore Avenue, Robert E. Lee Boulevard, Leon C. Simon Boulevard, Prentiss Avenue (east side), Pratt Street, and Warrington Drive. The contractor will be required to repair any damage to public or private roads as a result of this operation.

Clearing and use of the land will be held to the minimum required for completion of the work. Except for loss of vegetation necessitated by this clearing, the area will be left in a condition comparable to that prior to this work.

The enclosed drawings indicate the right-of-way required for construction and depict what we understand to be your existing right-of-way. Prior to your Board issuing right of entry for construction, please inform this office if our understanding is not correct.

This work will be accomplished by conventional construction contract scheduled to be advertised in March 1994. The expected duration of the contract is 18 months which includes weekends, holidays and loss of work days due to weather. The temporary construction easements should remain valid through construction.

It is requested that right of entry to a clear and unobstructed right-of-way for construction, along with ingress and egress, be granted to the United States of America by February 18, 1994, in order to meet our scheduled advertisement date of March 1994 and award date of May 1994.

If additional information or assistance is needed, please feel free to contact our Mrs. Linda C. LaBure at (504) 862-1295.

Your cooperation in granting right of entry, as requested, is appreciated and will enable us to maintain our construction schedule.

Sincerely,



Robert E. Slockbower
Lieutenant Colonel, U.S. Army
Chief, Real Estate Division

Enclosure

(Please see page 6 for copies furnished)

(AUTO)

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL. NO.	PAGE	RESULT
007	TRANSMISSION		8-46-1714	00	OK

ERRORS

- 1) HANG UP OR LINE FAIL
- 2) BUSY
- 3) NO ANSWER
- 4) NO FACSIMILE UNIT

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
045	TRANSMISSION		9-4881714	05	OK

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ERRORS

- 1) HANG UP OR LINE FAIL 2) BUSY 3) NO ANSWER 4) NO FACSIMILE CONNECTION



FACSIMILE HEADER SHEET

**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No. <u>488-1714</u>	Name <u>Suresh Shah</u>	Fax No. <u>862-1585</u>	Name <u>Angela DeSoto</u>
Office Symbol _____	Telephone No. _____	Office Symbol _____	Telephone No. <u>862-2733</u>
Date <u>7/1/94</u>	No. of Pages (including cover sheet) <u>5</u>	Precedence (P or R)	If you do not receive all pages, please telephone: <u>see above.</u>

REMARKS:

What's the bidder
Angela

FIRM: LAKE PORTCHAPPAIN, LA & VIC., INC. INVITATION NO: 94-B-0047 | PITMAN CONST. | BOH BOOS | T L JAMES | IL & A CONTRACTING
 LONDON AVE. DUTFALL CANY., PAROULEL. | METAIRIE, LA. | NEW ORLEANS, LA. | NEW ORLEANS, LA. | HATTESBURG, MS.
 PROTECTION, HIRREAU AVE TO LEON C. | DATE OPENED: JUNE 13, 1994

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT
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191	POSITION CONTROL												
19A	FIRST 10,670	10,670	LF	\$3,000	\$32,010.00	\$4,700	\$50,149.00	\$4,000	\$42,680.00	\$3,000	\$32,010.00	\$3,250	\$34,677.50
19B	OVER 10,670	2,700	LF	\$3,000	\$8,100.00	\$4,700	\$12,690.00	\$4,000	\$10,800.00	\$3,000	\$8,100.00	\$3,250	\$8,775.00

201	CONCRETE FLOOD PROTECTION AND COFFERDAMS												
21A	INSTALLING REINETS		LS	\$45,350,000	\$45,350.00	\$375,375,000	\$375,375.00	\$5,000,000	\$5,000.00	\$350,000,000	\$350,000.00	\$47,000,000	\$47,000.00
			LS	\$16,490,000	\$16,490.00	\$27,859,000	\$27,859.00	\$10,000,000	\$10,000.00	\$10,000,000	\$10,000.00	\$10,000,000	\$10,000.00

ESTIMATOR: DANIEL NORRWD					TOTAL	\$5,191,581.50	6,065,264.00	4,577,415.60	5,700,000.00	5,181,417.50
TYPE: FLOODWALL					25% MAXIMUM	\$6,469,476.88	16,821,290.00	-11.82	9,821,390.00	-22

FOR: LAKE PORTCHARTAIN, LA & VIC., HPL IMITATION NO: 94-9-0047
 LONDON AVE, DUTCH CANN, PARALLEL
 PROTECTION, MINNEAU AVE TO LEON C.
 SIMON & ROBERT E. LEE BLVD.
 DATE OPENED: JUNE 13, 1994
 PITMAN CONST. BOH BROS. I T L JAMES IL & A CONTRACTORS
 METAIRIE, LA. NEW ORLEANS, LA. NEW ORLEANS, LA. HATTIESBURG, MS.

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1LS	\$166,500.00	166,500.00	\$201,509.00	201,509.00	\$300,000.00	300,000.00	\$200,000.00	200,000.00	\$220,000.00	220,000.00
2	CLEARING AND GRUBBING	LUMP SUM	1LS	\$75,350.00	75,350.00	\$466,080.00	466,080.00	\$100,000.00	100,000.00	\$100,000.00	100,000.00	\$105,000.00	105,000.00
3	SELECTIVE DEMOLITION	LUMP SUM	1LS	\$122,460.00	122,460.00	\$268,473.00	268,473.00	\$200,000.00	200,000.00	\$200,000.00	200,000.00	\$400,000.00	400,000.00
() BESTRIUM BRIDGE DEMOLITION LUMP SUM 1LS \$8,830.00 \$17,928.00 17,928.00 \$20,000.00 20,000.00 \$30,000.00 30,000.00 \$7,500.00 7,500.00													
SIEMMENT, SERVICED FILL LUMP SUM 1LS \$17,660.00 \$37,990.00 37,990.00 \$20,000.00 20,000.00 \$80,000.00 80,000.00 \$7,236.00 7,236.00													
6) STRUCTURAL EXCAVATION & BACKFILL LUMP SUM 1LS \$107,270.00 \$108,328.00 108,328.00 \$300,000.00 300,000.00 \$50,000.00 50,000.00 \$130,000.00 130,000.00													
7) FERTILIZING, SEEDING & MULCHING 8) ACRES \$2,120.00 \$1,060.00 8,480.00 \$800.00 6,400.00 \$825.00 6,600.00 \$1,200.00 9,600.00													
8) CUTTING OFF EXISTING A2-18, R2-10 (AND P2-27 SHEET PILING) LUMP SUM 1LS \$18,890.00 \$129,633.00 129,633.00 \$5,000.00 5,000.00 \$40,000.00 40,000.00 \$10,000.00 10,000.00													
9) PULL, CLEAN, SAWICE, AND DELIVER, EXISTING A2-18 STEEL SHEET PILING LUMP SUM 1LS \$12,360.00 \$65,475.00 65,475.00 \$9,000.00 9,000.00 \$10,000.00 10,000.00 \$20,000.00 20,000.00													
10) REMOVE EXISTING A2-18 STEEL SHEET PILING LUMP SUM 1LS \$940.00 \$4,956.00 4,956.00 \$8,000.00 8,000.00 \$5,000.00 5,000.00 \$1,500.00 1,500.00													
11) PILING, STEEL SHEET, TYPE P2-27 187,944.95 \$9.00 1,690,596.00 \$7.750 1,455,791.00 \$8.400 1,577,889.60 \$11.000 2,066,284.00 \$8.000 1,502,782.00													
12) PILING, STEEL SHEET, TYPE P2-25 977.95 \$11.10 11,066.70 \$13.000 12,961.00 \$18.000 17,946.00 \$40.000 39,880.00 \$12.000 11,964.00													
() PAINTING LUMP SUM 1LS \$200.00 \$10,250.00 110,250.00 \$3,000.00 3,000.00 \$1,000.00 1,000.00 \$6,000.00 6,000.00													
14) REINFORCED CONCRETE FLOODWALL LUMP SUM 1LS \$2,303,190.00 \$2,044,598.00 2,044,598.00 \$1,636,000.00 1,636,000.00 \$1,988,606.00 1,988,606.00 \$2,070,000.00 2,070,000.00													
15) CONCRETE SLURF PAVEMENT 188.95 \$35.100 6,598.80 \$42.250 7,943.00 \$25.000 4,700.00 \$40.000 7,320.00 \$44.750 8,413.00													
16) UTILITY MODIFICATIONS LUMP SUM 1LS \$10,360.00 \$106,582.00 106,582.00 \$1,000.00 1,000.00 \$50,000.00 50,000.00 \$40,000.00 40,000.00													
17) TEMPORARY RELOCATION OF FEEDER LINE LUMP SUM 1LS \$161,320.00 \$307,233.00 307,233.00 \$100,000.00 100,000.00 \$225,000.00 225,000.00 \$105,000.00 105,000.00													
18) PERMANENT RELOCATION OF FEEDER LINE LUMP SUM 1LS \$339,120.00 \$224,962.00 224,962.00 \$200,000.00 200,000.00 \$200,000.00 200,000.00 \$406,000.00 406,000.00													
ESTIMATOR: DANIEL MORROW		SUBTOTAL		\$5,049,631.50		5,579,172.00		4,508,935.60		5,299,890.00		5,080,965.00	
TYPE: FLOODWALL													

ABSTRACT OF BIDS - CONSTRUCTION UNED-C PAGE 2 OF 4

Rt LAKE PONDCHARTRAIN, LA & VIC., HWY INVIATION NO: 94-9-0047

NOON AVE. DUTTALL CAVEL, PARALLEL
 DETECTION, NINAGEAU AVE TO LEON C.
 MON & ROBERT E. LEE BLVD.

DATE ORDER: JUNE 13, 1994

ENI	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT PRICE	ESTIMATED AMOUNT	BID NO: 1	BID NO: 2	BID NO: 3	BID NO: 4	BID NO: 5
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					18 & K CONST. HARRISVILLE, LA	HARRISWAY COLUMBUS, GA.	CONTINENTAL HERFORD, TN.	JOHNSON BROS. HENNER, LA.	RIVER ROAD CONST. IMMERVILLE, LA.
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19: EROSION CONTROL	19A1 FIRST 10,670	10,670 LF	\$3.0001	\$2,010.001	\$2.0001	\$2.0001	\$4.0001	\$4.0001	\$2.0001
	19B1 ALL OVER 10,670	2,700 LF	\$3.0001	\$8,100.001	\$2.0001	\$2.0001	\$3.5001	\$2.0001	\$2.0001

20: TEMPORARY FLOOD PROTECTION AND DIRTWORKS		ILLUP SUM ILS	\$45,350.0001	\$5,000.001	\$5,000.0001	\$40,000.0001	\$46,700.0001	\$30,000.0001	\$25,000.0001
21: INITIALMENTS METALS		ILLUP SUM ILS	\$16,490.0001	\$16,490.001	\$21,500.0001	\$20,000.0001	\$20,000.0001	\$23,000.0001	\$10,000.0001

					\$21,340.001	\$21,340.001	\$42,680.001	\$42,680.001	\$21,340.001
					\$5,400.001	\$5,400.001	\$9,450.001	\$2,000.001	\$5,400.001
					\$5,000.001	\$60,000.001	\$46,700.001	\$30,000.001	\$25,000.001
					\$21,500.001	\$20,000.001	\$20,000.001	\$23,000.001	\$10,000.001

TOTAL				\$5,191,581.501	4,354,500.001	5,940,160.001	5,376,129.001	5,431,152.001	5,196,076.121
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ESTIMATOR: DANIEL KORNHARD		TOTAL		\$5,191,581.501	4,354,500.001	5,940,160.001	5,376,129.001	5,431,152.001	5,196,076.121
TYPE: FLOORWALL		25% MAXIMUM		\$6,489,476.881 LOW BIDDER	-12.32%	14.42%	3.62%	4.62%	.12%

FOR: LAKE PORTDORNAIN, LA & VIC., HPL IMITATION NO: 94-B-0047
 LONDON AVE. GUTFALL CREEK, PARALLEL
 PROTECTION, HIRSHMAN AVE TO LEON C.
 SIMON & ROBERT E. LEE BLVD.
 DATE OPENED: JUNE 13, 1994

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT PRICE	ESTIMATED AMOUNT	BID NO: 1		BID NO: 2		BID NO: 3		BID NO: 4		BID NO: 5	
					UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM ULS	\$166,500.000	166,500.000	\$200,000.000	200,000.000	\$100,000.000	100,000.000	\$120,000.000	120,000.000	\$100,000.000	100,000.000	\$100,000.000	100,000.000
2	CLEANING AND GRUBBING	LUMP SUM ULS	\$75,360.000	75,360.000	\$175,000.000	175,000.000	\$250,000.000	250,000.000	\$19,000.000	19,000.000	\$30,000.000	30,000.000	\$200,000.000	200,000.000
3	SELECTIVE DEMOLITION	LUMP SUM ULS	\$122,460.000	122,460.000	\$250,000.000	250,000.000	\$200,000.000	200,000.000	\$342,000.000	342,000.000	\$200,000.000	200,000.000	\$200,000.000	200,000.000
4	RESTRICTION GRUBBING DEMOLITION	LUMP SUM ULS	\$8,630.000	8,630.000	\$15,000.000	15,000.000	\$10,000.000	10,000.000	\$18,000.000	18,000.000	\$15,000.000	15,000.000	\$20,000.000	20,000.000
5	WARRANT, SANDPACKED FILL	LUMP SUM ULS	\$17,660.000	17,660.000	\$11,200.000	11,200.000	\$30,000.000	30,000.000	\$17,000.000	17,000.000	\$10,000.000	10,000.000	\$100,000.000	100,000.000
6	STRUCTURAL EXCAVATION & BROSSL	LUMP SUM ULS	\$107,270.000	107,270.000	\$99,000.000	99,000.000	\$40,000.000	40,000.000	\$126,000.000	126,000.000	\$300,000.000	300,000.000	\$50,000.000	50,000.000
7	FERTILIZING, SEEDING & MULCHING	8/ACRE	\$2,120.000	16,960.000	\$1,250.000	10,000.000	\$3,500.000	28,000.000	\$1,630.000	13,200.000	\$1,100.000	8,600.000	\$1,000.000	8,000.000
8	CUTTING OFF EXISTING A2-18, R2-10 AND P2-27 SHEET PILING	LUMP SUM ULS	\$18,840.000	18,840.000	\$35,600.000	53,600.000	\$30,000.000	30,000.000	\$15,000.000	15,000.000	\$20,000.000	20,000.000	\$25,000.000	25,000.000
9	PULL, CLEAN, SALVAGE, AND DELIVER, EXISTING A2-18 STEEL SHEET PILING	LUMP SUM ULS	\$12,360.000	12,360.000	\$20,500.000	20,500.000	\$25,000.000	25,000.000	\$20,000.000	20,000.000	\$20,000.000	20,000.000	\$200,000.000	200,000.000
10	REPAIR EXISTING A2-18 STEEL SHEET PILING	LUMP SUM ULS	\$940.000	940.000	\$5,000.000	5,000.000	\$3,000.000	3,000.000	\$2,300.000	2,300.000	\$5,000.000	5,000.000	\$1,000.000	1,000.000
11	PILING, STEEL SHEET, TYPE P2-27	187,844 LF	\$9.00	1,690,596.000	\$8,500	1,596,674.000	\$10,000	1,878,440.000	\$9,750	1,831,678.000	\$8,000	1,502,752.000	\$9,000	1,690,596.000
12	PILING, STEEL SHEET, TYPE P2-23	977 SF	\$11.10	11,046.700	\$18,000	17,946.000	\$40,000	39,880.000	\$36,000	35,872.000	\$20,000	19,940.000	\$20,000	19,940.000
13	PAINTING	LUMP SUM ULS	\$200.000	200.000	\$7,000.000	7,000.000	\$5,000.000	5,000.000	\$5,000.000	5,000.000	\$10,000.000	10,000.000	\$1,000.000	1,000.000
14	INCREASED CONCRETE FLOODWALL	LUMP SUM ULS	\$2,303,190.000	2,303,190.000	\$1,487,320.000	1,487,320.000	\$2,500,000.000	2,500,000.000	\$2,145,000.000	2,145,000.000	\$2,500,000.000	2,500,000.000	\$2,000,000.000	2,000,000.000
15	CONCRETE SLUPE PAVEMENT	1881 SF	\$35.100	6,598.800	\$40,000	7,520.000	\$75,000	14,100.000	\$106,000	19,928.000	\$35,000	6,590.000	\$100,000	18,800.000
16	UTILITY MODIFICATIONS	LUMP SUM ULS	\$10,360.000	10,360.000	\$117,000.000	117,000.000	\$75,000.000	75,000.000	\$113,500.000	13,500.000	\$100,000.000	100,000.000	\$50,000.000	50,000.000
17	TEMPORARY RELOCATION OF FEEDER LINE	LUMP SUM ULS	\$161,320.000	161,320.000	\$38,500.000	38,500.000	\$175,000.000	175,000.000	\$105,000.000	105,000.000	\$100,000.000	100,000.000	\$300,000.000	300,000.000
18	TEMPORARY RELOCATION OF FEEDER LINE	LUMP SUM ULS	\$338,120.000	338,120.000	\$420,000.000	420,000.000	\$430,000.000	430,000.000	\$449,000.000	449,000.000	\$380,000.000	380,000.000	\$150,000.000	150,000.000
ESTIMATOR: DWANELL NORMAN		SUBTOTAL	\$5,069,631.50	4,501,260.00	5,833,420.00	5,257,299.00	5,328,072.00	5,134,336.00						
TYPE: FLOODWALL														

FOR LAKE PONDCHARTRAIN, LA & VIC., HPL INVITATION NO: 94-B-0047
 LONDON AVE. OUTFALL CANAL, PARALLEL PROTECTION, MINORCAU AVE TO LEON C. SIMON & ROBERT E. LEE BLVD.
 DATE OPENED: JUNE 13, 1994
 B & K CONST., HANDESVILLE, LA
 HARDAWAY, COLUMBUS, GA.
 CONTINENTAL, MEMPHIS, TN.
 JOHNSON BROS., KENNER, LA.
 RIVER ROAD CONST., HANDESVILLE, LA.

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM ULS	\$166,500.000	166,500.00	\$200,000.000	200,000.00	\$100,000.000	100,000.00	\$120,000.000	120,000.00	\$100,000.000	100,000.00
2	CLEARING AND GRUBBING	LUMP SUM ULS	\$75,360.000	75,360.00	\$175,000.000	175,000.00	\$250,000.000	250,000.00	\$19,000.000	19,000.00	\$30,000.000	30,000.00
3	SELECTIVE DEMOLITION	LUMP SUM ULS	\$122,460.000	122,460.00	\$260,000.000	260,000.00	\$200,000.000	200,000.00	\$342,000.000	342,000.00	\$200,000.000	200,000.00
4	PEDESTRIAN BRIDGE DEMOLITION	LUMP SUM ULS	\$8,850.000	8,850.00	\$15,000.000	15,000.00	\$10,000.000	10,000.00	\$18,000.000	18,000.00	\$15,000.000	15,000.00
5	EMBANKMENT, SANDCOMPACTED FILL	LUMP SUM ULS	\$17,660.000	17,660.00	\$11,200.000	11,200.00	\$30,000.000	30,000.00	\$17,000.000	17,000.00	\$10,000.000	10,000.00
6	STRUCTURAL EXCAVATION & BACKFILL	LUMP SUM ULS	\$107,270.000	107,270.00	\$89,000.000	89,000.00	\$40,000.000	40,000.00	\$126,000.000	126,000.00	\$300,000.000	300,000.00
7	FERTILIZING, SEEDING & MULCHING	8/ACRE	\$2,120.000	16,960.00	\$1,250.000	10,000.00	\$3,500.000	28,000.00	\$1,650.000	13,200.00	\$1,100.000	8,800.00
8	CUTTING OFF EXISTING A2-18, R2-10 AND P2-27 SHEET PILING	LUMP SUM ULS	\$18,840.000	18,840.00	\$53,600.000	53,600.00	\$30,000.000	30,000.00	\$15,000.000	15,000.00	\$20,000.000	20,000.00
9	PULL, CLEAN, SALVAGE, AND DELIVER, EXISTING A2-18 STEEL SHEET PILING	LUMP SUM ULS	\$12,360.000	12,360.00	\$20,500.000	20,500.00	\$25,000.000	25,000.00	\$20,000.000	20,000.00	\$20,000.000	20,000.00
10	REDRIVE EXISTING A2-18 STEEL SHEET PILING	LUMP SUM ULS	\$940.000	940.00	\$5,000.000	5,000.00	\$3,000.000	3,000.00	\$2,300.000	2,300.00	\$5,000.000	5,000.00
11	PILING, STEEL SHEET, TYPE P2-27	187,844:SF	\$9.00	1,690,596.00	\$8,500	1,596,674.00	\$10.00	1,878,440.00	\$9,750	1,831,479.00	\$8,000	1,502,752.00
12	PILING, STEEL SHEET, TYPE P2-23	977:SF	\$11.10	11,066.70	\$18,000	17,946.00	\$40.000	39,880.00	\$36,000	35,892.00	\$20,000	19,940.00
13	PAINTING	LUMP SUM ULS	\$200.000	200.00	\$7,000.000	7,000.00	\$5,000.000	5,000.00	\$5,000.000	5,000.00	\$10,000.000	10,000.00
14	REINFORCED CONCRETE FLOODWALL	LUMP SUM ULS	\$2,303,190.00	2,303,190.00	\$1,487,320.00	1,487,320.00	\$2,500,000.00	2,500,000.00	\$2,145,000.00	2,145,000.00	\$2,500,000.00	2,500,000.00
15	CONCRETE SLOPE PAVEMENT	188:SY	\$35.100	6,598.80	\$40.000	7,520.00	\$75.000	14,100.00	\$106.000	19,928.00	\$35.000	6,580.00
16	UTILITY MODIFICATIONS	LUMP SUM ULS	\$10,360.000	10,360.00	\$117,000.000	117,000.00	\$75,000.000	75,000.00	\$13,500.000	13,500.00	\$100,000.000	100,000.00
17	TEMPORARY RELOCATION OF FEEDER LINE	LUMP SUM ULS	\$161,320.000	161,320.00	\$38,500.000	38,500.00	\$175,000.000	175,000.00	\$105,000.000	105,000.00	\$100,000.000	100,000.00
18	PERMANENT RELOCATION OF FEEDER LINE	LUMP SUM ULS	\$339,120.000	339,120.00	\$420,000.000	420,000.00	\$430,000.000	430,000.00	\$409,000.000	409,000.00	\$380,000.000	380,000.00
ESTIMATOR: DARRELL NORWAND		SUBTOTAL	\$5,069,631.50	4,501,260.00	5,833,420.00	5,257,299.00	5,328,072.00	5,134,556.00				
TYPE: FLOODWALL												

FOR LAKE MONTCHASTRAIN, LA & VIC., HPL INVITATION NO: 94-B-0047 : PITMAN CONST. : BEN BROS : IT L JAMES : L & A CONTRACTING
 LONDON AVE, OUTFALL CANY, PAROULE : METAIRIE, LA. : NEW ORLEANS, LA. : NEW ORLEANS, LA. : HATTESBURG, MS.
 PROTECTION, NINEREAU AVE TO LEON C. :
 SIMON & ROBERT E. LEE BLVD. :
 DATE OPENED: JUNE 13, 1994

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT	UNIT PRICE	ESTIMATED AMOUNT
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	LS	\$166,500.000	166,500.000	\$201,509.000	201,509.000	\$300,000.000	300,000.000	\$200,000.000	200,000.000	\$220,000.000	220,000.000
2	CLEARING AND GRUBBING	LUMP SUM	LS	\$75,360.000	75,360.000	\$466,080.000	466,080.000	\$100,000.000	100,000.000	\$100,000.000	100,000.000	\$105,000.000	105,000.000
3	SELECTIVE DEMOLITION	LUMP SUM	LS	\$122,460.000	122,460.000	\$268,473.000	268,473.000	\$200,000.000	200,000.000	\$200,000.000	200,000.000	\$400,000.000	400,000.000
4	PEDESTRIAN BRIDGE DEMOLITION	LUMP SUM	LS	\$8,830.000	8,830.000	\$17,928.000	17,928.000	\$20,000.000	20,000.000	\$30,000.000	30,000.000	\$7,500.000	7,500.000
5	EMBANKMENT, SEMI-COMPACTED FILL	LUMP SUM	LS	\$17,660.000	17,660.000	\$37,990.000	37,990.000	\$20,000.000	20,000.000	\$80,000.000	80,000.000	\$7,236.000	7,236.000
6	STRUCTURAL EXCAVATION & BROFTILL	LUMP SUM	LS	\$107,270.000	107,270.000	\$108,328.000	108,328.000	\$300,000.000	300,000.000	\$50,000.000	50,000.000	\$130,000.000	130,000.000
7	FERTILIZING, SEEDING & MULCHING	BR/ACRE		\$2,120.000	16,960.000	\$1,060.000	8,480.000	\$800.000	6,400.000	\$825.000	6,600.000	\$1,200.000	9,600.000
8	ROUTING OF EXISTING A2-18, R2-10 AND P2-27 SHEET PILING	LUMP SUM	LS	\$18,840.000	18,840.000	\$129,633.000	129,633.000	\$5,000.000	5,000.000	\$40,000.000	40,000.000	\$10,000.000	10,000.000
9	PULL, CLEAN, SALVAGE, AND DELIVER, EXISTING A2-18 STEEL SHEET PILING	LUMP SUM	LS	\$12,360.000	12,360.000	\$45,475.000	65,475.000	\$9,000.000	9,000.000	\$10,000.000	10,000.000	\$20,000.000	20,000.000
10	RECURVE EXISTING A2-18 STEEL SHEET PILING	LUMP SUM	LS	\$940.000	940.000	\$4,956.000	4,956.000	\$8,000.000	8,000.000	\$5,000.000	5,000.000	\$1,500.000	1,500.000
11	PILING, STEEL SHEET, TYPE P2-27	LUMP SUM	LS	\$91.000	1,690,596.000	\$7,750	1,455,791.000	\$8,400	1,577,889.600	\$11,000	2,066,284.000	\$8,000	1,502,752.000
12	PILING, STEEL SHEET, TYPE P2-23	LUMP SUM	LS	\$11.100	11,066.700	\$13.000	12,961.000	\$18.000	17,946.000	\$40.000	39,880.000	\$12.000	11,964.000
13	PAINTING	LUMP SUM	LS	\$200.000	200.000	\$10,250.000	110,250.000	\$3,000.000	3,000.000	\$1,000.000	1,000.000	\$6,000.000	6,000.000
14	REINFORCED CONCRETE FLOODWALL	LUMP SUM	LS	\$2,303,190.000	2,303,190.000	\$2,044,598.000	2,044,598.000	\$1,636,000.000	1,636,000.000	\$1,988,606.000	1,988,606.000	\$2,070,000.000	2,070,000.000
15	CONCRETE SLOPE PAVEMENT	BR/SY		\$35.100	6,598.800	\$42,250	7,943.000	\$25.000	4,700.000	\$40.000	7,520.000	\$44,750	8,413.000
16	UTILITY MODIFICATIONS	LUMP SUM	LS	\$10,360.000	10,360.000	\$106,582.000	106,582.000	\$1,000.000	1,000.000	\$50,000.000	50,000.000	\$60,000.000	60,000.000
17	TEMPORARY RELOCATION OF FEEDER LINE	LUMP SUM	LS	\$161,320.000	161,320.000	\$307,233.000	307,233.000	\$100,000.000	100,000.000	\$225,000.000	225,000.000	\$105,000.000	105,000.000
18	PERMANENT RELOCATION OF FEEDER LINE	LUMP SUM	LS	\$339,120.000	339,120.000	\$224,962.000	224,962.000	\$200,000.000	200,000.000	\$200,000.000	200,000.000	\$406,000.000	406,000.000
ESTIMATOR: DWARREL MORROW		SUBTOTAL		\$5,069,631.500	5,579,172.000	4,508,935.600	5,299,890.000	5,080,965.000					

TYPE: FLOODWALL

ABSTRACT OF BIDS - CONSTRUCTION LINED-C-1 PAGE 4 OF 4
 FOR: LAKE PONDCHARTRAIN, LA & VIC., HPL INVITATION NO: 94-B-0047
 LONDON AVE. DUTFALL CANY., PARALLEL
 PROTECTION, MIRABEAU AVE TO LEON C.
 SIMON & ROBERT E. LEE BLVD.
 DATE OPENED: JUNE 13, 1994
 PITMAN CONST.
 METAIRIE, LA.
 BOH BROS
 NEW ORLEANS, LA.
 T L JAMES
 NEW ORLEANS, LA.
 IL & A CONTRACTING
 HATTIESBURG, MS.

ITEM NO.	DESCRIPTION OF BID ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT	BID NO: 6	BID NO: 7	BID NO: 8	BID NO: 9	BID NO: 10
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19	EROSION CONTROL												
19A	FIRST 10,670	10,670	LF	\$3,000	\$32,010.00	\$4,700	\$0,149,000	\$4,000	\$42,680.00	\$3,000	\$32,010.00	\$3,280	\$34,677.50
19B	FALL OVER 10,670	2,700	LF	\$3,000	\$8,100.00	\$4,700	\$12,690.00	\$4,000	\$10,800.00	\$3,000	\$8,100.00	\$3,280	\$8,775.00

20	TEMPORARY FLOOD PROTECTION AND DIFFERENCES		LS	\$65,350,000	\$65,350,000	\$395,395,000	\$395,395,000	\$5,000,000	\$5,000,000	\$350,000,000	\$350,000,000	\$47,000,000	\$47,000,000
21	MISCELLANEOUS METALS		LS	\$16,490,000	\$16,490,000	\$27,858,000	\$27,858,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000

ESTIMATOR:	DARRELL KERRAND	TOTAL	\$5,191,581.50	6,065,264.00	4,577,415.60	5,700,000.00	5,181,417.50
TYPE:	FLOODWALL	25% MAXIMUM	\$6,489,476.88	16.87% 2ND LOW	-11.87%	9.87% 3RD LOW	-2%

ABSTRACT OF OFFERS - CONSTRUCTION

4. ISSUING OFFICE
 U.S. Army Corps of Engineers
 P.O. Box 60267
 New Orleans, LA 70160-0267

5. PROJECT TITLE
 Lake Pontchartrain, Louisiana and Vicinity,
 High Level Plan London Ave. Outfall Canal,
 Parallel Protection, Mirabeau Ave. to Leon C.
 Simon Blvd. Floodwall, Orleans Parish,
 Louisiana

6. NUMBER OF AMENDMENTS ISSUED
 Unrestricted

1. SOLICITATION NUMBER
 DACW29-94-B-0047

I CERTIFY that I have opened, read, and recorded on this abstract all offers received in response to this solicitation

8. GOVERNMENT ESTIMATE
 (Check A, B or C and complete D, E, and F)

A. WRED LABOR

B. REASONABLE CONTRACT (without Profit)

C. REASONABLE CONTRACT (including Profit)

2. DATE ISSUED
 3 May 1994

NAME AND TITLE OF CERTIFYING OFFICER
 Signature: *Robert J. ...*

NO. 1
 A. OFFEROR
 B. BID SECURITY (type and amount)
 C. AMENDMENTS ACKNOWLEDGED

NO. 2
 A. OFFEROR
 B. BID SECURITY (type and amount)
 C. AMENDMENTS ACKNOWLEDGED

3. DATE OPENED
 15 June 94

PAGE OF
 1

PAGES

7A. ITEM NO.	7B. DESCRIPTION OF OFFERED ITEM	7C. EST. QUANTITY	D. UNIT	E. UNIT PRICE	F. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT
1.	B&R Const. Co. Inc.				\$4,554,500.00				
2.	Tran Hardware Co.				\$940,160.00				
3.	Continental Const. Co. Inc.				\$5,376,129.00				
4.	Polisson Bros. Const. Corp. of LA				\$5,431,152.00				
5.	Polisson Bros. Const. Co.				\$5,196,076.00				
6.	Ritter Const. Co. Inc.				\$6,065,264.00				
7.	Berk Bros. Const. Co.				\$4,577,415.60				
8.	I. I. Genist Const. Co. Inc.				\$5,700,000.00				
9.	LTA Const. Co.				\$5,181,417.50				

489476. 28

ABSTRACT OF OFFERS - CONSTRUCTION

A. ISSUING OFFICE
 U.S. Army Corps of Engineers
 P.O. Box 60267
 New Orleans, LA 70164-0267

L. SOLICITATION NUMBER
 DACW29-94-B-0047

I. CERTIFY that I have opened, read, and recorded on this abstract all offers received in response to this solicitation.

2. DATE ISSUED
 3 May 1994

3. DATE OPENED

NAME AND TITLE OF CERTIFYING OFFICIAL (Typed)
 BID OPENING OFFICER

SIGNATURE

DATE SIGNED

4. NUMBER OF PAGES OF ABSTRACTS ISSUED

5. OFFERS

NO. 1

NO. 2

NO. 3*

A. PROJECT TITLE

Lake Pontchartrain, Louisiana and Vicinity, High Level Plan London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd. Floodwall, Orleans Parish, Louisiana

Unrestricted

B. GOVERNMENT ESTIMATE
 Check A, B or C and complete D, E, and F)

A. WRED LABOR

B. REASONABLE CONTRACTI
 (without profit)

C. REASONABLE CONTRACTI
 (including profit)

A. OFFEROR
 P & A Const. Co.
 1905 Poydras St. 59448
 New Orleans, LA 70119

B. BID SECURITY (Type and amount)

C. ADVERTISEMENT ACKNOWLEDGED

A. OFFEROR
 P & A Const. Co.
 1905 Poydras St.
 New Orleans, LA 70119

B. BID SECURITY (Type and amount)

C. ADVERTISEMENT ACKNOWLEDGED

A. OFFEROR
 P & A Const. Co.
 1905 Poydras St.
 New Orleans, LA 70119

B. BID SECURITY (Type and amount)

C. ADVERTISEMENT ACKNOWLEDGED

7A. IFCB NO.	7B. DESCRIPTION OF OFFERED ITEM	7C. EST. QUANTITY	D. UNIT	B. GOVERNMENT ESTIMATE			9. OFFERS				
				E. UNIT PRICE	F. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT		
0001	Mobilization and Demobilization	Lump Sum	LS	---	166,500.	---	200,000.	---	300,000.	---	220,000.
0002	Clearing and Grubbing	Lump Sum	LS	---	75,360.	---	175,000.	---	100,000.	---	105,000.
0003	Selective Demolition	Lump Sum	LS	---	122,460.	---	260,000.	---	200,000.	---	400,000.
0004	Pedestrian Bridge Demolition	Lump Sum	LS	---	8,830.	---	15,000.	---	20,000.	---	7,500.
0005	Embankment, Semicompacked Fill Structural Excavation and Bankfill	Lump Sum	LS	---	17,660.	---	11,200.	---	20,000.	---	7,236.
0006	Fertilizing, Seeding and Mulching	Lump Sum	LS	---	107,270.	---	59,000.	---	300,000.	---	130,000.
0007	Cutting Off Existing AZ-18, RZ-10 and PZ-27 Sheet Piling	8	AC	2.120.	16,960.	1.250.	10,000.	800.	6,400.	1,200.	9,600.
0008	Pull, Clean, Salvage and Deliver Existing AZ-18 Steel Sheet Piling	Lump Sum	LS	---	18,840.	---	53,600.	---	5,000.	---	10,000.
0009	Redrive Existing AZ-18 Steel Sheet Piling	Lump Sum	LS	---	2,360.	---	20,500.	---	9,000.	---	20,000.
0010	Steel Sheet Piling	Lump Sum	LS	---	9,400.	---	5,000.	---	8,000.	---	1,500.
0011	Piling, Steel Sheet, Type PZ-22	187,844	SF	9.00	1,690,596.	8.50	1,596,674.	8.40	1,577,881.	8.00	1,502,752.
0012	Piling, Steel Sheet, Type PSA-23	997	SF	11.10	11,066.70	18.00	17,946.	18.00	17,946.	12.00	11,964.

ABSTRACT OF OFFERS - CONSTRUCTION

4. ISSUING OFFICE

U.S. Army Corps of Engineers
P.O. Box 60267
New Orleans, LA 70169-0267

1. SOLICITATION NUMBER
DACW29-94-B-0047

I CERTIFY that I have opened, read, and recorded on this abstract all offers received in response to this solicitation.

2. DATE ISSUED
3 May 1994

NAME AND TITLE OF CERTIFYING OFFICIAL (TYPE)
BID OPENING OFFICER

SIGNATURE

3. DATE OPENED

PAGE OF

PAGES

5. PROJECT TITLE

Lake Pontchartrain, Louisiana and Vicinity, High Level Plan London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd. Floodwall, Orleans Parish, Louisiana

6. UNRESTRICTED & NUMBER OF AMENDMENTS ISSUED

8. GOVERNMENT ESTIMATE
Check A, B or C and complete D, E, and F)
A. WAGED LABOR
B. REASONABLE CONTRACT (without profit)
C. REASONABLE CONTRACT (including profit)
X

9. OFFERS

NO. 1 NO. 2 NO. 3
A. OFFEROR A. OFFEROR A. OFFEROR
B. BID SECURITY (Type and amount) B. BID SECURITY (Type and amount) B. BID SECURITY (Type and amount)
C. AMENDMENTS ACKNOWLEDGED C. AMENDMENTS ACKNOWLEDGED C. AMENDMENTS ACKNOWLEDGED

7A. ITEM NO.	7B. DESCRIPTION OF OFFERED ITEM	7C. EST. QUANTITY	D. UNIT	E. UNIT PRICE	F. ESTIMATED AMOUNT	9. OFFERS			D. UNIT PRICE	E. ESTIMATED AMOUNT
						NO. 1	NO. 2	NO. 3		
						A. OFFEROR	A. OFFEROR	A. OFFEROR		
0013	Painting	Lump Sum	LS	---	200.	---	---	---	---	---
0014	Reinforced Concrete Floodwalls	Lump Sum	LS	---	2,303,190.	---	---	---	---	---
0015	Concrete Slope Pavement	188	SY	35.10	6,598,800	40.00	---	25.00	4,700.	44.75
0016	Utility Modifications	Lump Sum	LS	---	10,360.	---	---	---	1,000.	---
0017	Temporary Relocation of Feeder Lines	Lump Sum	LS	---	161,320.	---	---	---	38,500.	---
0018	Permanent Relocation of Feeder Lines	Lump Sum	LS	---	339,120.	---	---	---	420,000.	---
0019	Erosion Control									
0019AA	First 10,670 Linear Feet	10,670	LF	3.00	32,010.	2.00	---	4.00	42,680.	3.25
0019AB	All Over 10,670 Linear Feet	2,700	LF	3.00	8,100.	2.00	---	4.00	10,800.	3.25
0020	Temporary Flood Protection And Cofferdams	Lump Sum	LS	---	65,350.	---	---	---	5,000.	---
0021	Miscellaneous Metals	Lump Sum	LS	---	16,490.	---	---	---	21,500.	---
	TOTAL				\$1,915,815.00				4,554,500.	
									4,577,445.13	
									5,181,417.50	

FAX

Date 6/8/94

Number of pages including cover sheet 2

TO: SHEILA ENCLADE
US ARMY ENGR - N.O.
P.O. BOX 60267
NEW ORLEANS, LA
70160

Phone (504) 862-1514

Fax Phone (504) 862-2889

FROM: RICHARD McPHEARSON
McPHEARSON
CONSTRUCTION
SERVICES
513 RAYBURN AVE.
OCEAN SPRINGS, MS
38564

Phone 601-875-1722

Fax Phone 601-872-4324

CC:

REMARKS: Urgent For your review Reply ASAP Please Comment

SOLICITATION NO. DACW29-94-B-0047

LONDON AVE. OUTFALL CANAL

IF POSSIBLE, PLEASE ANSWER THESE TWO QUESTIONS.

1) FOR THE EXISTING SHEET PILE WHAT ARE THE FOLLOWING PROPERTIES:

ARBED CO AZ-12 - WIDTH PER SHEET
- WEIGHT PER LF OF BAR

weld PSA-23 MP 117 - WIDTH PER SHEET
- WEIGHT PER LF OF BAR

2) DO THE NEW PE-22 SHEETS ALL GET 16 MILS COAL TAR COATING OR JUST THE SHEETS UNDER THE UTILITY CROSSINGS ON THE WEST SIDE?

C9A-12.2 The limits of steel sheet piling in div. IC-1, ST-1 and ST-2 on the west face is shown on the drawing."

THANK YOU,
RICHARD MCPHERSON

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE OF PAGES

1 2

2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 06/07/94	4. REQUISITION/PURCHASE REQ. NO. ED0000-4031-0144	5. PROJECT NO. (If applicable) d
6. ISSUED BY US ARMY ENGR DIST NEW ORLEANS PO BOX 60267 NEW ORLEANS LA 70160-0267 Sheila W. Enclade		CODE ISSUE1	7. ADMINISTERED BY (If other than item 6) US ARMY ENGR DIST, NEW ORLEANS ATTN CELMN-CT PO BOX 60267 NEW ORLEANS LA 70160-0267 ADMIN1	
		SC1(504) 862-1514		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. DACW29-94-B-0047
	<input type="checkbox"/>	9B. DATED (SEE ITEM 11) 05/03/94
	<input type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO.
	<input type="checkbox"/>	10B. DATED (SEE ITEM 13)
CODE OMR68	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning 1 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.

<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	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.)

SPECIFICATIONS FOR LAKE PONTCHARTRAIN, LA & VICINITY, HIGH LEVEL PLAN, LONDON AVENUE OUTFALL CANAL, PARALLEL PROTECTION, MIRABEAU AVE. TO ROBERT E. LEE BLVD., WEST BANK; MIRABEAU AVE. TO LEON C. SIMON BLVD., EAST BANK FLOODWALL, ORLEANS PARISH, LA, ARE HEREBY AMENDED AS FOLLOWS:

BID OPENING DATE

BID OPENING DATE & TIME OF 15 JUNE 1994, 2:00 P.M., LOCAL TIME AT PLACE OF BID OPENING, REMAINS UNCHANGED.

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

SECTION C - TECHNICAL PROVISIONS

Page C9A-27, Paragraph C9A-14. Delete paragraph C9A-14 in its entirety and substitute the following revised paragraph:

"C9A-14. MEASUREMENT AND PAYMENT. No measurement will be made for painting sheet piling. Payment for all painting work performed and for all materials furnished under the section of the specifications for painting sheet piling will be included in the contract lump sum price for "Painting". Price and payment shall constitute full compensation for furnishing all plant, labor, materials and equipment, including compliance with the safety and health provisions, all as specified herein."

Boh Bras FAX 6/6/94

Response :

The floodwall is constructable as shown in the P+S. Excavation for floodwall construction is permitted in C2C-4.1 which states "The Contractor shall make all excavations required for construction of the new floodwall, and for removal of obstructions on or near the surface which prevent driving piles to their required penetration." Paragraph C2C-2(2) places restrictions on "degrading the existing landside levee to improve accessibility for construction".

FAX TRANSMITTAL

Date: 6/6/94

From: JEFF FUEBENEAUX
Boh Bros. Construction Co., Inc.
730 South Tond Street, New Orleans, Louisiana 70119
P.O. Drawer 53266, New Orleans, Louisiana 70153

Office Phone: (504) 821-2400
FAX Phone: (504) 821-0714

To: SHEILA ENCLARTE

Company: U.S. ARMY CORPS OF ENGINEERS

Fax Number: 862-2889

Number of pages (including this cover sheet): 1

NOTES: REF: SOLICITATION DACW 29-94-B-0047
I HAVE A QUESTION IN REFERENCE TO ITEM 1 OF AMEND. 0001
THE LAST SENTENCE PROHIBITS DEGRADING THE LEVEE
BEFORE FLOODWALL CONSTRUCTION IS COMPLETE. THE
PURPOSE OF DEGRADING THE LEVEE IS TO CONSTRUCT THE
FLOODWALL. CONSTRUCTION CAN NOT TAKE PLACE BEFORE
DEGRADING, IF IT COULD DEGRADING WOULD NOT BE NECESSO.
IF YOU HAVE ANY QUESTIONS, PLEASE CALL ME @ 821-2400

THANKS

Mr. Terranova/2709
6 June 1994

CELMN-ED-DS

MEMORANDUM FOR C/Contracting Division

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

1. Please issue Amendment No. 0003 to Solicitation No. DACW29-94-B-0047, subject as above, as follows:

A. SPECIFICATIONS. Page C9A-27, Paragraph C9A-14. Delete paragraph C9A-14 in its entirety and substitute the following revised paragraph:

"C9A-14. MEASUREMENT AND PAYMENT. No measurement will be made for painting sheet piling. Payment for all painting work performed and for all materials furnished under the section of the specifications for painting sheet piling will be included in the contract lump sum price for "Painting". Price and payment shall constitute full compensation for furnishing all plant, labor, materials and equipment, including compliance with the safety and health provisions, all as specified herein."

B. DRAWINGS. No changes.

2. If practical, we request that the bid opening date of 15 June 1994 not be changed.

W. EUGENE TICKNER
Chief, Engineering Division

~~CE:~~
✓ C/Struc Des Sec
C/Cost Engr Br
C/Const Div
C/CELMN-PP (Broussard)

Your continued cooperation in support of this project is greatly appreciated.

Sincerely,



Clyde H. Sellers
Chief, Real Estate Division

Enclosure

Copies Furnished:

Mr. Curtis Patterson with enclosure
Director, Public Works and Flood Control
Department of Transportation and Development

Mr. John Evanco with enclosure
District Administrator
ATTN: Ms. Geneva P. Grille
District Design, Water Resources and
Development Engineer
Department of Transportation and Development
7252 Lakeshore Drive
New Orleans, Louisiana 70124

Burk-Kleinpeter, Inc. with enclosure
P.O. Box 19087
New Orleans, Louisiana 70179-0087

~~CELMV~~, ATTN: CELMV-RE-A without enclosure

~~CELMN-ED-DD~~ without enclosure
CELMN-ED-E without enclosure
CELMN-PP without enclosure
CELMN-CD with enclosure
CELMN-CD-NO with enclosure
CELMN-CT without enclosure
CELMN-RE-AC without enclosure
CELMN-RE-P without enclosure

May 26, 1994

Real Estate Division
Purchase Section

Mr. Robert G. Harvey
President, Board of Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Harvey:

Our letters dated December 9, 1993 and January 4, 1994, indicated that we propose to construct the Lake Pontchartrain, Louisiana and Vicinity, Hurricane Protection Project, London Avenue Outfall Canal, Parallel Protection Project, London Avenue Outfall Canal, Parallel Protection, Contract 3, Mirabeau Avenue to Leon C. Simon Boulevard, East Bank Floodwall, and Mirabeau Avenue to Robert E. Lee Boulevard, West Bank Floodwall, Orleans Parish, Louisiana. The limits of work extend from baseline station 70+30.00 to 119+85.00 on the west bank of the canal, and from baseline station 70+00.00 to 126+89.00 on the east bank of the canal, as indicated on our previously furnished map, file number H-4-40330, sheets 1 through 5 of 5, dated October 1993, revised December 10, 1993.

Your letters dated March 17 and March 23, 1994 granted right of entry for construction of this project. This letter is to inform you that pursuant to the attached South Central Bell (SCB) letter, dated April 27, 1994, received by your office with a copy to our Engineering Division, we have amended the plans and specifications to extend the SCB time frame for removing TC-2 to September 30, 1994.

If additional information or assistance is needed, please feel free to contact our Mrs. Linda C. LaBure at (504) 862-1295.



FACSIMILE HEADER SHEET

**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Smah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	_____	Office Symbol	_____
Telephone No.	<u>483-6278</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>6/6/94</u>	<u>3</u>		<u>see above</u>

REMARKS:

Suresh,
Enclosed is a fax from TL James about
the painting spec. & our solution to the
discrepancy. Call me when you receive this.

Angela




T. L. JAMES & CO., INC.

Location: 100 James Dr., St. Rose, LA
Address: P. O. Box 20115
New Orleans, LA 70141-0115
Fax Phone No: (504) 461-9340

94-B-0047

YACHTS COVER SHEET

DATE: 6/1/94

TO: U.S. ARMY ENG. DISTRICT FROM: AL KACHUR
ATT. MR. STEPHEN W. ENLAGE
Fax 862-2829

PAGES TO FOLLOW _____

REMARKS: Section 9A - PAINTING - PARAGRAPH 9A-14 MEASUREMENT
AND PAYMENT - SHALL "NO SEPARATE MEASUREMENT
AND PAYMENT WILL BE MADE FOR PAINTING.
IN BIDDING SCHEDULE, ITEM N° 0013
PAINTING BIDS AS A LUMP SUM.
DO WE FOLLOW BIDDING SCHEDULE
OR PARAGRAPH 9A-14. ?

**IF YOU HAVE ANY TROUBLE WITH THIS TRANSMITTAL CALL (504) ⁴⁶¹⁻⁹³⁷¹ ~~669-0000~~.

CELMN-ED-DS

Mr. Terranova/2709

4/18/94 6 June 1994

MEMORANDUM FOR C/Contracting Division

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

1. Please issue Amendment No. 0003 to Solicitation No. DACW29-94-B-0047, subject as above, as follows:

A. SPECIFICATIONS. Page C9A-27, Paragraph C9A-14. Delete paragraph C9A-14 in its entirety and substitute the following revised paragraph:

"C9A-14. MEASUREMENT AND PAYMENT. No measurement will be made for painting sheet piling. Payment for all painting work performed and for all materials furnished under the section of the specifications for painting sheet piling will be included in the contract lump sum price for "Painting". Price and payment shall constitute full compensation for furnishing all plant, labor, materials and equipment, including compliance with the safety and health provisions, all as specified herein."

B. DRAWINGS. No changes.

2. If practical, we request that the bid opening date of 15 June 1994 not be changed.

W. EUGENE TICKNER
Chief, Engineering Division

CF:
C/Struc Des Sec
C/Cost Engr Br
C/Const Div
C/CELMN-PP (Broussard)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 06/02/94		4. REQUISITION/PURCHASE REG. NO. ED0000-4031-0144		5. PROJECT NO. (If applicable) dn	
8. ISSUED BY US ARMY ENGR DIST NEW ORLEANS PO BOX 60267 NEW ORLEANS LA 70160-0267 Sheila W. Enclade		CODE ISSUE1		7. ADMINISTERED BY (if other than Item 8) US ARMY ENGR DIST, NEW ORLEANS ATTN CELMN-CT PO BOX 60267 NEW ORLEANS LA 70160-0267		CODE ADMIN1	
				SC1(504) 862-1514			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. DACW29-94-B-0047 <input type="checkbox"/> 9B. DATED (SEE ITEM 11) 05/03/94 <input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO. <input type="checkbox"/> 10B. DATED (SEE ITEM 13)
CODE OMR68	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning 1 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.

<input checked="" type="checkbox"/>	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.)

PLANS AND SPECIFICATIONS COVERING LAKE PONTCHARTRAIN, LA AND VICINITY, HIGH LEVEL PLAN, LONDON AVENUE OUTFALL CANAL, PARALLEL PROTECTION, MIRABEAU AVE. TO ROBERT E. LEE BLVD., WEST BANK; MIRABEAU AVE. TO LEON C. SIMON BLVD., EAST BANK FLOODWALL, ORLEANS PARISH, LA, ARE HEREBY AMENDED AS FOLLOWS:

BID OPENING DATE

BID OPENING DATE AND TIME OF 8 JUNE 1994 HAS BEEN CHANGED AND WILL NOW OPEN ON 15 JUNE 1994, 2:00 P.M., LOCAL TIME AT PLACE OF BID OPENING.

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

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

AMENDMENT NO. 0001

Please make the following changes to Amendment No. 0001 issued 26 May 1994:

1. Page 4 of 6. Delete item 2a under the heading "DRAWINGS" in its entirety and substitute the following:

a. Drawing (Dwg.) No. 6 of 73, File No. H-4-40295. In the table entitled "EXISTING FACILITIES", add "(■ ■)" after "NA" in the "DISPOSITION" column for item FL-432.

2. Page 5 of 6. Delete item 2c under the heading "DRAWINGS" in its entirety and substitute the following:

c. Dwg. No. 19 of 73, File No. H-4-40295. In the detail entitled "SHEET PILE SPLICE AT TC-1, ST-1 & DT-1", change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; "STA. 101+27 WB/L FOR ST-1 & DT-1" to "STA. 101+34 WB/L FOR ST-1 & DT-1"; "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".

SECTION C - TECHNICAL PROVISIONS

1. Page C2G-9, Paragraph C2G-9.7.1. Delete paragraph C2G-9.7.1 in its entirety and substitute the following revised paragraph:

"C2G-9.7.1 Scope. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at anytime, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District.

2. Page C2G-9, Paragraph C2G-9.8.1. Delete paragraph C2G-9.8.1 in its entirety and substitute the following revised paragraph:

"C2G-9.8.1 Scope. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work."

SECTION H - SPECIAL CLAUSES

1. Page H-32, Paragraph H-32g. Delete paragraph H-32g in its entirety and substitute the following revised paragraph:

"g. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work."

2. Page H-32, Paragraph H-32h. Delete paragraph H-32h in its entirety and substitute the following revised paragraph:

"h. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District.

3. Page H-1, Paragraph H-2 a., 4th line, add "\$2,195.00".

BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS

4176 CANAL STREET

NEW ORLEANS, LOUISIANA 70119-5994

P. O. BOX 19087 - NEW ORLEANS, LA. 70179

TELEPHONE (504) 486-5901

FAX (504) 488-1714

OVER 80 YEARS OF SERVICE

8550 UNITED PLAZA BLVD.

TWO UNITED PLAZA, SUITE 305

BATON ROUGE, LOUISIANA 70809-2256

TELEPHONE (504) 922-4435

FAX (504) 922-4437

LETTER OF TRANSMITTAL

Job no. 8407 85 Date: June 2, 1994

Job Title London Avenue Outfall Canal

To: U.S. Army Corps of Engineers re: London Ave. Outfall Canal
P. O. Box 60267 BKI Job No. 8407-85-03
New Orleans, LA 70160 Corrections to Specs and
Drawings
Addendum C/ Construction

attn: Angela DeSoto

From: William R. "Billy" Burk, IV

Sending: attached under separate cover via _____

Description:	Copies:	Date:	No.:	Description:
	<u>1</u>	<u>6/2/94</u>	<u>2</u>	<u>Copy of Corrected Addendum Memo</u>

- as requested
- for your use
- for approval
- for review
- approved as submitted
- approved as noted
- returned for corrections
- returned after loan to us
- for your files

Remarks: If you have any questions or if I can be of any assistance, please call. Thank you, Billy.

Signature:  copies to: SIS,File

2 JUNE 1994

MEMORANDUM FOR C/ CONSTRUCTION DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0002 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

(1) Page C2G-9, delete paragraph C2G-9.7.1 in its entirety, and substitute the following paragraph.

C2G-9.7.1 Scope. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District.

(2) Page C2G-9, delete paragraph C2G-9.8 in its entirety, and substitute the following paragraph.

C2G-9.8 Preconstruction Survey.

C2G-9.8.1 Scope. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.

(3) Page H-32, delete paragraph g. in its entirety, and substitute the following paragraph.

g. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.

(4) Page H-32, delete paragraph h. in its entirety, and substitute the following paragraph.

h. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration

monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District.

CELMN-ED-DS

1 June 1994

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

(b) Paragraph H-32h. Delete paragraph H-32h in its entirety and substitute the following revised paragraph:

"h. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District. ~~The Contractor shall order his operations to accommodate these activities of the Orleans Levee District.~~".

B. DRAWINGS. No changes.

2. It is the opinion of the design engineer and project manager that the above changes are simple clarifications and will not affect bid prices. Therefore, we request that the bid opening of 8 June 94 not be changed if practical.

W. EUGENE TICKNER
Chief, Engineering Division

CF:
C/Struc Des Sec
C/Cost Engr Br
C/Const Div
C/CELMN-PP (Broussard)

CELMN-ED-DS

MEMORANDUM FOR C/Contracting Division

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

1. Please issue Amendment No. 0002 to Solicitation No. DACW29-94-B-0047, subject as above, as follows:

A. SPECIFICATIONS.

(1) Page C2G-9

(a) Paragraph C2G-9.7.1. Delete paragraph C2G-9.7.1 in its entirety and substitute the following revised paragraph:

"C2G-9.7.1 Scope. The Contractor is advised that the Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at anytime, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District. ~~The Contractor shall order his operations to accommodate these activities of the Orleans Levee District.~~".

(b) Paragraph C2G-9.8.1. Delete paragraph C2G-9.8.1 in its entirety and substitute the following revised paragraph:

"C2G-9.8.1 Scope. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.".

(2) Page H-32

(a) Paragraph H-32g. Delete paragraph H-32g in its entirety and substitute the following revised paragraph:

"g. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.".

BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET

NEW ORLEANS, LOUISIANA 70119-5994
P. O. BOX 19087 - NEW ORLEANS, LA. 70179

TELEPHONE (504) 496-5501
FAX (504) 488-1714

2027 BENTLEY BLVD
TWO UNITED PLAZA, SUITE 305
BATON ROUGE, LOUISIANA 70809-2256
TELEPHONE (504) 922-4435
FAX (504) 922-4437

OVER 60 YEARS OF SERVICE.

FACSIMILE TRANSMITTAL COVER SHEET

Job no.:

Date: 6/1/94

Job Title: London Avenue Outfall Canal, Hurricane Protection

To: Fax No.: 504-862-1585 Voice No.: 504-862-2733

U.S. Army Corps of Engineers (COE)
P. O. Box 60267
New Orleans, LA 70160

Attn: Angela DeSoto

Message: Please review the recent changes that we talked about on the phone to make sure
that I caught everything;
I will wait to hear from you before I send out the mail copies.

Thanks, Billy.

From: William R. "Billy" Burk, IV

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
Fax - (504) 588-1714

3 Total number of pages in this transmittal (including this cover sheet)

Copies to: MGJ, JWG, SIS, File

N-01-94 WED 09:31

31 MAY 1994

MEMORANDUM FOR C/ CONSTRUCTION DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0002 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

(1) Page C2G-9, delete paragraph C2G-9.7.1 in its entirety, and substitute the following paragraph.

C2G-9.7.1 Scope. The Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District. The Contractor shall order his operations to accommodate these actions of the Orleans Levee District.

(2) Page C2G-9, delete paragraph C2G-9.8 in its entirety, and substitute the following paragraph.

C2G-9.8 Preconstruction Survey.

C2G-9.8.1 Scope. The Contractor is advised that the Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.

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(4) Page H-32, delete paragraph h. in its entirety, and substitute the following paragraph.

h. The Orleans Levee District will retain an independent testing laboratory to monitor vibrations during the pile driving operations. If more than one pile driving rig is in operation any time, each rig will be independently monitored.

Vibration monitoring during the Contractor's other operations may be done at the discretion of the Orleans Levee District. The Contractor shall order his operations to accommodate the Orleans Levee District.

31 MAY 1994

MEMORANDUM FOR C/ ~~CONSTRUCTION~~ ^{CONTRACTING} DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

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The Contractor is advised that
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BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET

NEW ORLEANS, LOUISIANA 70119-5994
P. O. BOX 19087 - NEW ORLEANS, LA. 70179

TELEPHONE (504) 486-5901
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6550 UNITED PLAZA BLVD
TWO UNITED PLAZA, SUITE 305
BATON ROUGE, LOUISIANA 70809-2256
TELEPHONE (504) 922-4435
FAX (504) 922-4437

OVER 80 YEARS OF SERVICE

FACSIMILE TRANSMITTAL COVER SHEET

Job no.: 8407 85

Date: 5/31/94

Job Title: London Avenue Outfall Canal; Hurricane Protection

To: Fax No.: 504-862-1585

Voice No.: 504-862-2733

U.S. Army Corps of Engineers
P.O. Box 60267
New Orleans, LA 70160

Attn: Mr. Walter Baumy

Message: Please notify us today if you have any comments.

Thank You, Suresh. ext. 278

From: Suresh I. Shah, P.E.

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
Fax - (504) 588-1714

2 Total number of pages in this transmittal (including this cover sheet)

Copies to: MGJ, JWG, SIS, File

31 MAY 1994

MEMORANDUM FOR C/ ~~CONSTRUCTION~~ ^{CONTRACTING} DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0002 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

(1) Page C2G-9, delete paragraph C2G-9.7.1 in its entirety, and substitute the following paragraph.

C2G-9.7.1 Scope. The Orleans Levee District will retain an independent testing laboratory to monitor vibrations during pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during ~~contractor's other~~ operations may be done at the discretion of the Orleans Levee District.

the Contractor's other

(2) Page C2G-9, delete paragraph C2G-9.8 in its entirety, and substitute the following paragraph.

C2G-9.8 Preconstruction Survey.

C2G-9.8.1 Scope. The Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.

(3) Page H-32, delete paragraph g. in its entirety, and substitute the following paragraph.

g. The Orleans Levee District will conduct an independent preconstruction survey of residential properties prior to the commencement of work.

(4) Page H-32, delete paragraph h. in its entirety, and substitute the following paragraph.

h. The Orleans Levee District will retain an independent testing laboratory to monitor vibrations during pile driving operations. If more than one pile driving rig is in operation at any time, each rig will be independently monitored. Vibration monitoring during Contractor's other operations may be done at the discretion of the Orleans Levee District.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 6

2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 05/26/94		4. REQUISITION/PURCHASE REQ. NO. ED0000-4031-0144		5. PROJECT NO. (if applicable) dek	
8. ISSUED BY US ARMY ENGR DIST NEW ORLEANS PO BOX 60267 NEW ORLEANS LA 70160-0267 Molly M. Block		CODE ISSUE1		7. ADMINISTERED BY (if other than Item 6) US ARMY ENGR DIST, NEW ORLEANS ATTN CELMN-CT PO BOX 60267 NEW ORLEANS LA 70160-0267		CODE ADMIN1	
		SC2(504) 862-2879					

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Vendor ID: 00000000		<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. DACW29-94-B-0047 <input type="checkbox"/> 9B. DATED (SEE ITEM 11) 05/03/94 <input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO. <input type="checkbox"/> 10B. DATED (SEE ITEM 13)
CODE	OMR68	FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS SEE BELOW

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 1 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.

<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	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.)

Plans and Specifications covering Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank; Mirabeau Avenue to Leon C. Simon Blvd., East Bank Floodwall, Orleans Parish, Louisiana, are hereby amended as follows:

BID OPENING

Bid Opening Date and Time of 8 June 1994; 2:00 P. M., LOCAL TIME AT PLACE OF BID OPENING, remains unchanged.

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

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

BIDDING SCHEDULE

Delete page B-1 in its entirety and substitute revised attached page B-1 therefor. A double asterisk (**) denotes a modification.

SECTION C - TECHNICAL PROVISIONS

1. Page C2C-1, Paragraph C2C-2. Delete item (2), Excavation, in its entirety, and substitute the following:

"(2) Excavation. Check grade, slopes, and dimensions for compliance with design sections. The Contractor shall have an option to degrade the existing landside levee to elevation 3.0 N.G.V.D. at any time to improve the accessibility for construction in the following reaches:

Station 69+15 to 73+00 EB/L
Station 85+20 to 100+00 EB/L

The Contractor shall have an option to degrade the existing landside levee only during non-hurricane season with a maximum water elevation of 6.75 N.G.V.D. in the following reaches:

<u>Reach</u>	<u>Degraded Levee Elevation</u>
70+50 to 84+50 WB/L	3.0
85+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
73+00 to 84+60 EB/L	3.0
102+30 to 119+40 EB/L	3.0
120+18 to 126+88 EB/L	4.0

The Contractor's hurricane plan shall include provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season. During hurricane season, the Contractor shall be prohibited to degrade existing levee until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi."

2. Page C2G-6.

a. Add a following new paragraph after existing paragraph C2G-8.4, which begins on existing page C2G-5:

"C2G-8.4.1 Pull and Clean Existing AZ-18 Steel Sheet Piling. From Sta. 99+73.36 EB/L to Sta. 99+91.07 EB/L, the Contractor shall pull and clean existing AZ-18 steel sheet piling up to elevation 14.40 as shown on the drawings. The pulled portion of the piles shall be cleaned with a jet of water. The Contractor shall repair any damaged protective coating on AZ-18 sheet piling. For paint requirements, see Section C9A, "PAINTING."

b. Paragraph C2G-8.5. In the third (3rd) line, change "AZ-10" to "RZ-10".

3. Page C2G-10.

a. Paragraph C2G-11.1.5. Add the following sentence after the last sentence: "No separate measurement will be made for approximately eighteen (18) linear feet of existing AZ-18 steel sheet piling to be pulled and cleaned up to elevation 14.40."

b. Paragraph C2G-11.1.6. In the second (2nd) line, after "AZ-18", add ",RZ-10 and PZ-27".

4. Page C2G-11, Paragraph C2G-11.2.6. In the second (2nd) and third (3rd) lines, after "AZ-18", add ",RZ-10 and PZ-27".

5. Page C2J-3.

a. Add the following new paragraph after existing paragraph C2J-4.3:

"C2J-4.4 Concrete Slope Pavement. The Contractor shall remove and dispose of existing slope pavement on west bank as indicated on Contract Drawings and as specified herein."

b. Paragraph C2J-6.2. In the third (3rd) line, add "concrete slope pavement," after "sheet piling," .

6. Page C16B-5, Paragraph C16B-12.1. In the third (3rd) line, change "0.040" to "0.032".

7. Page C16B-7, Paragraph C16B-13.3.3. Change lines 9 and 10, which currently read "The thickness of the extruded screen shall be 50 mils with an 80% minimum point." to read as follows: "The thickness of the extruded screen shall have 32 mills minimum point."

8. Page C16B-11, Paragraph C16B-16.1.1:

a. Delete the second (2nd) sentence in its entirety and substitute the following revised sentence: "From stations 99+91.07 EB/L to 100+17.54 EB/L, the Contractor shall have an option to keep the underground existing cable in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during the construction".

b. In the ninth (9th) line, after "relocate cable", add "either from its original position or".

c. Add the following new sentence at the end of the paragraph: "Notching of steel sheet piling and split steel sleeves will be required to cross the cables thru sheet piling at approximate station 100+04.79 EB/L as shown on the drawings"

9. Page C16B-12.

a. Paragraph C16B-16.1.3.

(1) Beginning on the second (2nd) line and continuing onto the third (3rd) line, change "its existing position on" to "existing sheet pile to".

(2) Delete the second (2nd) sentence in its entirety and substitute the following revised sentence: "From stations 99+88.47 EB/L to sta. 100+17.54 EB/L the Contractor shall have an option to keep the underground existing cable in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during construction".

(3) In the third (3rd) sentence, add "In case of insufficient cable length," before "Splices" (change the capital "S" in splices to a small "s").

10. Page C16B-12, Paragraph C16B-16.1.4. Add the following new sentence at the end of the existing paragraph: "Notching of steel sheet piling and split steel sleeves will be required to cross the cables through the sheet piling at approximate station 101+38.90 WB/L and station 100+04.79 EB/L as shown on the drawings".

SECTION H - SPECIAL CLAUSES

Page H-24, Paragraph H-26b(1). In the first (1st) line, add "2,500,000.00" after "\$".

DRAWINGS

1. Delete existing Drawing (Dwg.) No. 37 of 73, File No. H-4-40295 in its entirety, and substitute revised attached Dwg. 37 of 73, File No. H-4-40295 therefor.

2. Please make the following pen-and-ink changes:

a. Drawing (Dwg.) No. 6 of 73, File No. H-4-40295. In the table entitled "EXISTING FACILITIES", add "()" after "NA" in the "DISPOSITION" column for item FL-432.

b. Dwg. No. 13 of 73, File No. H-4-40295. In the "WEST PROFILE (CANAL SIDE ELEVATION)", the elevation of the bottom of new sheet piling from Sta. 100+27.61 to Sta. 101+66.95 is -20.0.

c. Dwg. No. 19 of 73, File No. H-4-40295. In the detail entitled "SHEET PILE SPLICE AT TC-1, ST-1 & DT-1", change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; "STA. 101+27 WB/L FOR ST-1 & DT-1" to "STA. 100+34 WB/L FOR ST-1 & DT-1"; "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".

d. Dwg. No. 32 of 73, File No. H-4-40295. In the leftmost "SECTION A", change "APPROX. STA. 70+57.00 to 84+64.72 WB/L" to "APPROX. STA. 70+47.00 to 84+54.72 WB/L".

e. Dwg. No. 32a of 73, File No. H-4-40295. In the center of the drawing, in the Table entitled "LIMITS OF FRACTURED FIN TEXTURE ON THE CANAL SIDE OF THE FLOODWALL", delete "70+47.00 TO 72+52.33 WB/L" and "70+26.77 TO 72+32.10 EB/L". Fracture fin texture will not be applied within these limits.

f. Dwg. No. 42 of 73, File No. H-4-40295. In "SECTION B-B", change "16'-6"" to "21'-0"".

g. Dwg. No. 48 of 73, File No. H-4-40295.

(1) Change "PLAN" to "DETAIL ".

(2) On the right side of the drawing, change "EXISTING FL-340 TO FL-422 TO REMAIN" to "EXISTING FL-340 AND FL-422 TO REMAIN".

(3) The location of existing FL-432 from the fence corner to P.S. No. 4 is shown incorrectly. FL-432 turns right at the fence corner below the existing concrete slab.

h. Dwg. No. 49 of 73, File H-4-40295. Please make the following changes to the "NOTES":

(1) In third (3rd) line of Note 2.", change "££AA" to ""AA"" and "££BB" to ""BB"".

(2) In the second (2nd) line of Note 4, change "££BB" to ""BB"".

SOLICITATION NO. DACW29-94-B-0047

BIDDING SCHEDULE
 (To be attached to Bid Form)
 LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY, HIGH LEVEL PLAN
 LONDON AVE. OUTFALL CANAL, PARALLEL PROTECTION,
 MIRABEAU AVE. TO LEON C. SIMON BLVD. FLOODWALL,
 ORLEANS PARISH, LOUISIANA

Item No.	Description	Estimated Quantity	Unit	Unit Price	Est. Amt.
0001.	Mobilization and Demobilization	Lump Sum	LS		
0002.	Clearing and Grubbing	Lump Sum	LS		
0003.	Selective Demolition	Lump Sum	LS		
0004.	Pedestrian Bridge Demolition	Lump Sum	LS		
0005.	Embankment, Semicompacted Fill	Lump Sum	LS		
0006.	Structural Excavation and Backfill	Lump Sum	LS		
0007.	Fertilizing, Seeding, and Mulching	8	AC		
** 0008.	Cutting Off Existing AZ-18, RZ-10 and PZ-27 Sheet Piling	Lump Sum	LS		
0009.	Pull, Clean, Salvage and Deliver Existing AZ-18 Steel Sheet Piling	Lump Sum	LS		
0010.	Redrive Existing AZ-18 Steel Sheet Piling	Lump Sum	LS		
0011.	Piling, Steel Sheet, Type PZ-22	187,844	SF		
0012.	Piling, Steel Sheet, Type PSA-23	997	SF		
0013.	Painting	Lump Sum	LS		
0014.	Reinforced Concrete Floodwalls	Lump Sum	LS		
0015.	Concrete Slope Pavement	188	SY		
0016.	Utility Modifications	Lump Sum	LS		

STEEL CORPORATION

STRUCTURES • H PILES • SHEET PILING • PIPE PILING

Louisiana

126 Tchefuncze Dr., Covington, LA 70433

(504) 893-7723 FAX: (504) 893-7823

May 23, 1994

Sheila W. Enclade
Contract Officer
U.S. Army Corps of Engineers
New Orleans District

RE: DACW29-94B-0047
London Ave. Outfall Canal

Dear Sheila;

We request consideration and approval to bid AZ-13 as a substitute to PZ-22. AZ-13 meets all specifications except the depth is 11.93", which is approximately 25% greater than PZ-22, or 10% greater than the allowable 9" \pm 15% specification.

Note: AZ-13 is manufactured in Luxembourg, but according to Presidential Executive Order 12849, May, 1993 (implementation of agreement with European Community on government procurement), could be used on Corps projects bid in excess of \$6 million.

Above information is available in the Federal Register Vol. 58 - #101, Thursday, May 7, 1993.

Yours truly,
SKYLINE STEEL CORPORATION


Les Wilczynski

LGW/ehm

Corporate Office:

3 Woodholow Road
Perth Amoy, NJ 07054
Tel: (201) 488-4100
Fax: (201) 488-7288/8282

Sales Locations:

ALABAMA
P.O. BOX 68
Crownpt, AL 36064
TEL: (205) 336-7774
FAX: (205) 336-7748

CALIFORNIA
7844 MERRISON Ave.
Suite 111
Fair Oaks, CA 95629
Tel: (916) 863-8092
Fax: (916) 863-8048

GEORGIA
3802 Peachtree Industrial Blvd.
Suite 203
Duluth, GA 30126
Tel: (404) 885-4890
Fax: (404) 823-3166

ILLINOIS
17W 087 DUNBAR Road
Channahon, ILLINOIS, 61111
Tel: (708) 620-6300
Fax: (708) 690-6294

NEW JERSEY
One Ann Park
Suite 105
Madison, NJ 07748
Tel: (908) 671-8800
Fax: (908) 671-8872

OREGON
Three Monroe Parkway
Suite 906
Lake Oswego, OR 97035
Tel: (503) 636-8633
Fax: (503) 636-8270

TEXAS
11550 Fugate
Suite 346
Houston, TX 77064
Tel: (713) 484-4880
Fax: (713) 484-8782

VIRGINIA
P.O. Box
Fairfax VA
Tel: (703)
Fax: (703)

TOTAL P. 0.

Compressive Strength (psi)

Structure or Portion of Structure

3,000 @28* days

Floodwalls

2,500 @28* days

4-inch stabilization slab

2,000 @28* days

8-inch slope pavement

* 90 if pozzolan used

C3D-7.2.2 Maximum Water-Cementitious Ratio. The maximum water-cementitious ratio shall be as follows:

Water-Cementitious Ratio, by wt

Structure or Portion of Structure

0.58

All other features

0.64

4-inch stabilization slab and 8-inch slope pavement

C3D-7.2.3 Nominal Maximum-Size Coarse Aggregate. Nominal maximum-size coarse aggregate shall be either 1½-inch or 1-inch except ¾-inch nominal maximum-size coarse aggregate shall be used when any of the following conditions exist: (1) the narrowest dimension between sides of forms is less than 7½-inches; the depth of the slab is less than 4½-inches; the minimum clear spacing between reinforcing and sheet piling is less than 2-inches; or the minimum clear spacing between reinforcing is less than 2-inches; (2) in the fractured fin section of the floodwall.

C3D-7.2.4 Air Content. Air content as determined by ASTM C 231 shall be between 4 and 7 percent except that when the nominal maximum size coarse aggregate is ¾-inch, it shall be between 5 and 7 percent.

C3D-7.2.5 Slump. The slump shall be determined in accordance with ASTM C 143 and shall be within the range of 1-inch to 4-inches. Where placement by pump is approved, the slump shall not exceed 6-inches and shall remain within a 3-inch band.

C3D-7.2.6 Pozzolan Content. If pozzolan is used, it shall be limited to a maximum of 35 percent by absolute volume of the total cementitious materials.

C3D-7.3 Determining Standard Deviation. Test records from which a standard deviation is calculated shall:

(1) represent materials, quality control procedures, and conditions similar to those expected at the proposed work;

(2) not be from a project where the allowable changes in materials and/or proportions were more restricted than for the proposed work;

CODE

COMMENTARY

(b) "Specification for Lightweight Aggregates for Structural Concrete" (ASTM C 330).

Exception: Aggregates which have been shown by special test or actual service to produce concrete of adequate strength and durability and approved by the Building Official.

3.3.2 – Nominal maximum size of coarse aggregate shall be not larger than:

- (a) 1/5 the narrowest dimension between sides of forms, nor
- (b) 1/3 the depth of slabs, nor
- (c) 3/4 the minimum clear spacing between individual reinforcing bars or wires, bundles of bars, or prestressing tendons or ducts.

These limitations shall not apply if, in the judgment of the Engineer, workability and methods of consolidation are such that concrete can be placed without honeycomb or voids.

3.4 – Water

3.4.1 – Water used in mixing concrete shall be clean and free from injurious amounts of oils, acids, alkalis, salts, organic materials, or other substances that may be deleterious to concrete or reinforcement.

3.4.2 – Mixing water for prestressed concrete or for concrete that will contain aluminum embedments, including that portion of mixing water contributed in the form of free moisture on aggregates, shall not contain deleterious amounts of chloride ion. See 4.3.1.

R3.3.2 – It is recognized that aggregates conforming to the ASTM specifications are not always economically available and that, in some instances, noncomplying materials have a long history of satisfactory performance. Such nonconforming materials are permitted with special approval when acceptable evidence of satisfactory performance is provided. It should be noted, however, that satisfactory performance in the past does not guarantee good performance under other conditions and in other localities. Whenever possible, aggregates conforming to the designated specifications should be used.

R3.3.3 – The size limitations on aggregates are provided to insure proper encasement of reinforcement and to minimize honeycomb. Note that the limitations on maximum size of the aggregate may be waived if, in the judgment of the engineer, the workability and methods of consolidation of the concrete are such that the concrete can be placed without honeycomb or voids. In this instance, the engineer must decide whether or not the limitations on maximum size of aggregate may be waived.

R3.4 – Water

R3.4.1 – Almost any natural water that is drinkable (potable) and has no pronounced taste or odor is satisfactory as mixing water for making concrete. Impurities in mixing water, when excessive, may affect not only setting time, concrete strength, and volume stability (length change), but may also cause efflorescence or corrosion of reinforcement. Where possible, water with high concentrations of dissolved solids should be avoided.

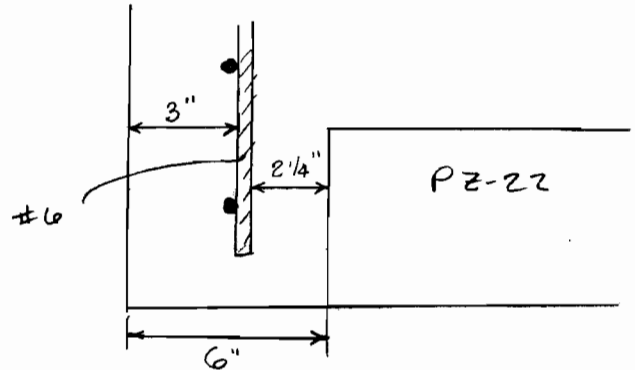
Salts, or other deleterious substances contributed from the aggregate or admixtures are additive to the amount which might be contained in the mixing water. These additional amounts must be considered in evaluating the acceptability of the total impurities that may be deleterious to concrete or steel.

BKI Design

$$\begin{array}{r} 1'-9'' \quad \text{F/W} \\ - \quad 9'' \quad \text{PZ-22} \\ \hline 1' \end{array}$$

$$\begin{array}{r} = 6'' \text{ clear} \\ - 3'' \text{ cover} \\ \hline 3'' \end{array}$$

$$\begin{array}{r} - .75'' \\ \hline 2.25'' \end{array} \quad \#6 \text{ dia of primary reinf.}$$



ACI Requirements Max aggregate

a) $\frac{1}{5}$ narrowest dimension between forms

$$\frac{1}{5} (12'') = 2.4''$$

b) $\frac{1}{3}$ depth of slabs N/A

c) $\frac{3}{4}$ min clear spacing between individual bars

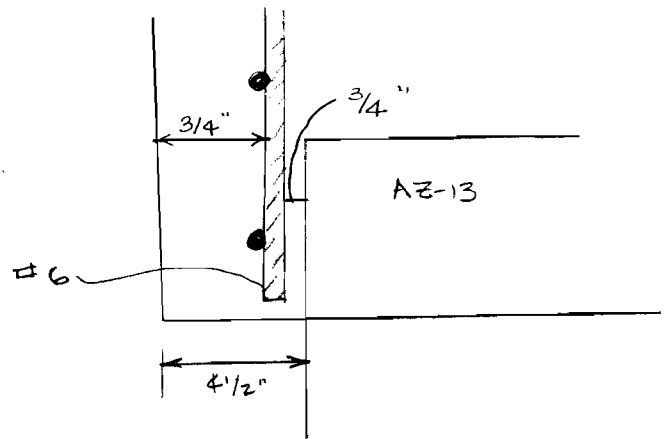
$$\frac{3}{4}'' (225) = 1\frac{5}{8}''$$

Corps Requirements

$$\text{Max } 1\frac{1}{2}'' - 1'' < 1\frac{5}{8}'' \quad \text{OK}$$

skyline Proposed

$$\begin{array}{r} 1'-9'' \text{ F/W} \\ \underline{12'' \text{ AZ-13}} \\ 9'' \\ = 4\frac{1}{2}'' \text{ clear} \\ - 3'' \text{ cover} \\ \underline{1\frac{1}{2}''} \\ - .75 \text{ \#6 dia of primary reinf.} \\ \underline{\quad .75''} \end{array}$$



ACI Requirements

a) $.15(12'') = 2.4''$

⇒ 1#4

b) $.75(.75) = 9/16''$

$9/16'' < 3/4''$ #6

CELMN-ED-DS

24 May 1994

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

(f) Dwg. No. 42 of 73, File No. H-4-40295. In "SECTION B-B", change "16'-6"" to "21'-0"".

(g) Dwg. No. 48 of 73, File No. H-4-40295.

1. Change "PLAN" to "DETAIL ".

2. On the right side of the drawing, change "EXISTING FL-340 TO FL-422 TO REMAIN" to "EXISTING FL-340 AND FL-422 TO REMAIN".

3. The location of existing FL-432 from the fence corner to P.S. No. 4 is shown incorrectly. FL-432 turns right at the fence corner below the existing concrete slab.

(h) Dwg. No. 49 of 73, File H-4-40295. Please make the following changes to the "NOTES":

1. In third (3rd) line of Note 2.", change "€€AA" to "AA" and "€€BB" to "BB".

2. In the second (2nd) line of Note 4, change "€€BB" to "BB".

2. It is requested that the bid opening date of 8 June 1994 not be changed.

W. EUGENE TICKNER
Chief, Engineering Division

CF:

✓ C/Struc Des Sec
C/Cost Engr Br
C/Const Div
C/CELMN-PP (Broussard)

SOLICITATION NO. DACW29-94-B-0047

BIDDING SCHEDULE
 (To be attached to Bid Form)
 LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY, HIGH LEVEL PLAN
 LONDON AVE. OUTFALL CANAL, PARALLEL PROTECTION,
 MIRABEAU AVE. TO LEON C. SIMON BLVD. FLOODWALL,
 ORLEANS PARISH, LOUISIANA

Item No.	Description	Estimated Quantity	Unit	Unit Price	Est. Amt.
0001.	Mobilization and Demobilization	Lump Sum	LS		
0002.	Clearing and Grubbing	Lump Sum	LS		
0003.	Selective Demolition	Lump Sum	LS		
0004.	Pedestrian Bridge Demolition	Lump Sum	LS		
0005.	Embankment, Semicompacted Fill	Lump Sum	LS		
0006.	Structural Excavation and Backfill	Lump Sum	LS		
0007.	Fertilizing, Seeding, and Mulching	8	AC		
** 0008.	Cutting Off Existing AZ-18, RZ-10 and PZ-27 Sheet Piling	Lump Sum	LS		
0009.	Pull, Clean, Salvage and Deliver Existing AZ-18 Steel Sheet Piling	Lump Sum	LS		
0010.	Redrive Existing AZ-18 Steel Sheet Piling	Lump Sum	LS		
0011.	Piling, Steel Sheet, Type PZ-22	187,844	SF		
0012.	Piling, Steel Sheet, Type PSA-23	997	SF		
0013.	Painting	Lump Sum	LS		
0014.	Reinforced Concrete Floodwalls	Lump Sum	LS		
0015.	Concrete Slope Pavement	188	SY		
0016.	Utility Modifications	Lump Sum	LS		

CELMN-ED-DS

MEMORANDUM FOR C/Contracting Division

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

1. Please issue Amendment No. 0001 to Solicitation No. DACW29-94-B-0047, subject as above, as follows:

A. SPECIFICATIONS.

(1) Bidding Schedule, Page B-1. Delete page B-1 in its entirety and substitute revised attached page B-1 therefor.

(2) Page C2C-1, Paragraph C2C-2. Delete item (2), Excavation, in its entirety, and substitute the following:

"(2) Excavation. Check grade, slopes, and dimensions for compliance with design sections. The Contractor shall have an option to degrade the existing landside levee to elevation 3.0 N.G.V.D. at any time to improve the accessibility for construction in the following reaches:

Station 69+15 to 73+00 EB/L
Station 85+20 to 100+00 EB/L

The Contractor shall have an option to degrade the existing landside levee only during non-hurricane season with a maximum water elevation of 6.75 N.G.V.D. in the following reaches:

<u>Reach</u>	<u>Degraded Levee Elevation</u>
70+50 to 84+50 WB/L	3.0
85+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
73+00 to 84+60 EB/L	3.0
102+30 to 119+40 EB/L	3.0
120+18 to 126+88 EB/L	4.0

The Contractor's hurricane plan shall include provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season. During hurricane season, the Contractor shall be prohibited to degrade existing levee until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi."

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

(3) Page C2G-6.

(a) Add a following new paragraph after existing paragraph C2G-8.4, which begins on existing page C2G-5:

"C2G-8.4.1 Pull and Clean Existing AZ-18 Steel Sheet Piling. From Sta. 99+73.36 EB/L to Sta. 99+91.07 EB/L, the Contractor shall pull and clean existing AZ-18 steel sheet piling up to elevation 14.40 as shown on the drawings. The pulled portion of the piles shall be cleaned with a jet of water. The Contractor shall repair any damaged protective coating on AZ-18 sheet piling. For paint requirements, see Section C9A, "PAINTING."

(b) Paragraph C2G-8.5. In the third (3rd) line, change "AZ-10" to "RZ-10".

(4) Page C2G-10.

(a) Paragraph C2G-11.1.5. Add the following sentence after the last sentence: "No separate measurement will be made for approximately eighteen (18) linear feet of existing AZ-18 steel sheet piling to be pulled and cleaned up to elevation 14.40."

(b) Paragraph C2G-11.1.6. In the second (2nd) line, after "AZ-18", add ",RZ-10 and PZ-27".

(5) Page C2G-11, Paragraph C2G-11.2.6. In the second (2nd) and third (3rd) lines, after "AZ-18", add ",RZ-10 and PZ-27".

(6) Page C2J-3.

(a) Add the following new paragraph after existing paragraph C2J-4.3:

"C2J-4.4 Concrete Slope Pavement. The Contractor shall remove and dispose of existing slope pavement on west bank as indicated on Contract Drawings and as specified herein."

(b) Paragraph C2J-6.2. In the third (3rd) line, add "concrete slope pavement," after "sheet piling," .

(7) Page C16B-5, Paragraph C16B-12.1. In the third (3rd) line, change "0.040" to "0.032".

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

(8) Page C16B-7, Paragraph C16B-13.3.3. Change lines 9 and 10, which currently read "The thickness of the extruded screen shall be 50 mils with an 80% minimum point." to read as follows: "The thickness of the extruded screen shall have 32 mills minimum point."

(9) Page C16B-11, Paragraph C16B-16.1.1:

(a) Delete the second (2nd) sentence in its entirety and substitute the following revised sentence: "From stations 99+91.07 EB/L to 100+17.54 EB/L, the Contractor shall have an option to keep the underground existing cable in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during the construction".

(b) In the ninth (9th) line, after "relocate cable", add "either from its original position or".

(c) Add the following new sentence at the end of the paragraph: "Notching of steel sheet piling and split steel sleeves will be required to cross the cables thru sheet piling at approximate station 100+04.79 EB/L as shown on the drawings"

(10) Page C16B-12.

(a) Paragraph C16B-16.1.3.

1. Beginning on the second (2nd) line and continuing onto the third (3rd) line, change "its existing position on" to "existing sheet pile to".

2. Delete the second (2nd) sentence in its entirety and substitute the following revised sentence: "From stations 99+88.47 EB/L to sta. 100+17.54 EB/L the Contractor shall have an option to keep the underground existing cable in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during construction".

3. In the third (3rd) sentence, add "In case of insufficient cable length," before "Splices" (change the capital "S" in splices to a small "s").

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd., West Bank Floodwall; Mirabeau Avenue to Leon C. Simon Blvd. Floodwall, East Bank Floodwall; Orleans Parish, Louisiana ED-94-144

(11) Page C16B-12, Paragraph C16B-16.1.4. Add the following new sentence at the end of the existing paragraph: "Notching of steel sheet piling and split steel sleeves will be required to cross the cables through the sheet piling at approximate station 101+38.90 WB/L and station 100+04.79 EB/L as shown on the drawings".

(12) Page H-24, Paragraph H-26b(1). In the first (1st) line, add "2,000,000.00" after "\$".

B. DRAWINGS.

(1) Delete existing Drawing (Dwg.) No. 37 of 73, File No. H-4-40295 in its entirety, and substitute revised attached Dwg. 37 of 73, File No. H-4-40295 therefor.

(2) Please make the following pen-and-ink changes:

(a) Drawing (Dwg.) No. 6 of 73, File No. H-4-40295. In the table entitled "EXISTING FACILITIES", add "(■)" after "NA" in the "DISPOSITION" column for item FL-432.

(b) Dwg. No. 13 of 73, File No. H-4-40295. In the "WEST PROFILE (CANAL SIDE ELEVATION)", the elevation of the bottom of new sheet piling from Sta. 100+27.61 to Sta. 101+66.95 is 20.0.

(c) Dwg. No. 19 of 73, File No. H-4-40295. In the detail entitled "SHEET PILE SPLICE AT TC-1, ST-1 & DT-1", change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; "STA. 101+27 WB/L FOR ST-1 & DT-1" to "STA. 100+34 WB/L FOR ST-1 & DT-1"; "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".

(d) Dwg. No. 32 of 73, File No. H-4-40295. In the leftmost "SECTION A", change "APPROX. STA. 70+57.00 to 84+64.72 WB/L" to "APPROX. STA. 70+47.00 to 84+54.72 WB/L".

(e) Dwg. No. 32a of 73, File No. H-4-40295. In the center of the drawing, in the Table entitled "LIMITS OF FRACTURED FIN TEXTURE ON THE CANAL SIDE OF THE FLOODWALL", delete "70+47.00 TO 72+52.33 WB/L" and "70+26.77 TO 72+32.10 EB/L". Fracture fin texture will not be applied within these limits.

BURK-KLEINPETER, INC.

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BATON ROUGE, LOUISIANA 70809-2256
TELEPHONE (504) 922-4435
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OVER 80 YEARS OF SERVICE

LETTER OF TRANSMITTAL

Job no. 8407 85 Date: May 18, 1994

Job Title London Avenue Outfall Canal

To: U.S. Army Corps of Engineers re: London Ave. Outfall Canal
P. O. Box 60267 BKI Job No. 8407-85-03
New Orleans, LA 70160 Corrections to Specs and
Drawings
Addendum C/ Construction

attn: Mr. Walter Baomy

From: Suresh I. Shah, P.E.

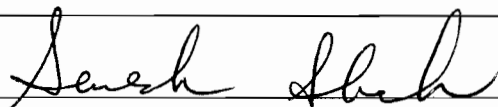
Sending: attached under separate cover via _____

Description:	Copies:	Date:	No.:	Description:
	<u>2</u>	<u>5/17/94</u>	<u>1</u>	<u>Copies of Eustis report</u>
	<u>1</u>	<u>5/17/94</u>	<u>1</u>	<u>Copy of the Addendum Memorandum</u>
	<u>1</u>	<u>5/18/94</u>	<u>1</u>	<u>Copy of Pile Stess Calculation Sheet</u>

- | | |
|--|--|
| <input type="checkbox"/> as requested | <input type="checkbox"/> approved as noted |
| <input checked="" type="checkbox"/> for your use | <input type="checkbox"/> returned for corrections |
| <input type="checkbox"/> for approval | <input type="checkbox"/> returned after loan to us |
| <input type="checkbox"/> for review | <input type="checkbox"/> for your files |
| <input type="checkbox"/> approved as submitted | |

Remarks: We have incorporated the comments from the S&WB dated May 10, 1994. and
the Corps comments dated May 3, 1994. The sheet pile stresses were found to be
within the acceptable limits.

If you have any questions or if I can be of any assistance, please call. Thank
you, Suresh. 486-5901 ext. 278.

Signature:  copies to: MGJ, JWG, SIS, File

18 MAY 1994

MEMORANDUM FOR C/ CONSTRUCTION DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0001 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

- (1) Page C2C-1, paragraph C2C-2. Add following paragraphs under "(2) EXCAVATIONS". "The Contractor shall have an option to degrade the existing landside levee to elevation 3.0 N.G.V.D. at any time to improve the accessibility for construction in the following reaches:

Station 69+15 to 73+00 EB/L
Station 85+20 to 100+00 EB/L

The Contractor shall have an option to degrade the existing landside levee only during non-hurricane season with a maximum water elevation of 6.75 N.G.V.D. in the following reaches:

Reach	Degraded Levee Elevation
70+50 to 84+50 WB/L	3.0
85+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
73+00 to 84+60 EB/L	3.0
102+30 to 119+40 EB/L	3.0
120+18 to 126+88 EB/L	4.0

The Contractor's hurricane plan shall include provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season. During hurricane season, the Contractor shall be prohibited to degrade existing levee until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi."

- (2) Page C2G-6. Add a following new paragraph C2G-8.4.1 after paragraph C2G-8.4 "C2G-8.4.1 Pull and Clean

Existing AZ-18 Steel Sheet Piling. From Sta. 99+73.36 EB/L to Sta. 99+91.07 EB/L, the Contractor shall pull and clean existing AZ-18 steel sheet piling up to elevation 14.40 as shown on the drawings. The pulled portion of the piles shall be cleaned with a jet of water. The Contractor shall repair any damaged protective coating on AZ-18 sheet piling. For paint requirements, see Section C9A, "PAINTING."

- (3) Page C2G-6, paragraph C2G-8.5. In the first sentence, change "AZ-10" to "RZ-10".
- (4) Page C2G-10, paragraph C2G-11.1.5. Add the following sentence after the last sentence. "No separate measurement will be made for approximately eighteen (18) linear feet of existing AZ-18 steel sheet piling to be pulled and cleaned up to elevation 14.40".
- (5) Page C2G-10, paragraph C2G-11.1.6. In the 2nd line, after "AZ-18", add ", RZ-10 and PZ-27".
- (6) Page C2G-11, paragraph C2G-11.2.6. In the 2nd and 3rd line, after "AZ-18", add "RZ-10 and PZ-27".
- (7) Page C2J-3. Add the following new paragraph after paragraph C2J-4.3. "C2J-4.4 Concrete Slope Pavement. The Contractor shall remove and dispose of existing slope pavement on west bank as indicated on Contract Drawings and as specified herein."
- (8) Page C2J-3, paragraph C2J-6.2. In the 3rd line, after "sheet piling," add "concrete slope pavement,".
- (9) Page C16B-5, paragraph C16B-12.1. In the 3rd line, change "0.040"" to "0.032"".
- (10) Page C16B-7, paragraph C16B-13.3.3. Lines 9 and 10 shall read "The thickness of the extruded screen shall have 32 mills minimum point".
- (11) Page C16B-11, paragraph C16B-16.1.1:
 - The 2nd sentence shall read "From stations 99+91.07 EB/L to 100+17.54 EB/L, the Contractor shall have an option to keep the underground existing cable to remain in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during the construction".

- In the 9th line, after "relocate cable", add "either from its original position or".
- Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables thru sheet piling at approximate station 100+04.79 EB/L as shown on the drawings".

(12) Page C16B-12, paragraph C16B-16.1.3:

- In the 2nd and 3rd lines, change "its existing position on" to "existing sheet pile to".
- The 2nd sentence shall read "From stations 99+88.47 EB/L to sta. 100+17.54 EB/L , the Contractor shall have an option to keep the underground existing cable in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during construction".
- In the 3rd sentence, add before "splices", "In case of insufficient cable length,".

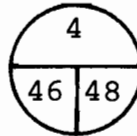
(13) Page C16B-12, paragraph C16B-16.1.4. Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables through the sheet piling at approximate station 101+38.90 WB/L and station 100+04.79 EB/L as shown on the drawings".

B. Drawings. File No. H-4-40295

- (1) DWG No. 6 of 73. Table of "EXISTING FACILITIES". Add "(■ ■)" after NA in Disposition column for item FL-432.
- (2) DWG No. 13 of 73. West Profile (Canal Side Elevation). Bottom of new sheet piling elevation is -20.0 from Station 100+27.61 to Station 101+66.95.
- (3) DWG No. 19 of 73. Sheet pile splice at TC-1, ST-1 & DT-1. Change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; STA. 101+27 WB/L FOR ST-1 & DT-1" to "STA. 100+34 WB/L FOR ST-1 & DT-1"; "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".

- (4) DWG 32 of 73. Section A. Change "APPROX. STA. 70+57.00 to 84+64.72 WB/L" to "APPROX. STA. 70+47.00 to 84+54.72 WB/L".
- (5) DWG 32a of 73. Table of "LIMITS OF FRACTURED FIN TEXTURE ON THE CANAL SIDE OF THE FLOODWALL". Delete fracture fin texture on Canal Side from station "70 + 47.00 to 72 + 52.33 WB/L" and station "70 + 26.77 to 72 + 32.10 EB/L".
- (6) DWG 42 of 73. Section B-B. Change "16'-6''" to "21'-0''".

- (7) DWG 48 of 73. PLAN.
- Change "Plan" to "Detail



- Change "Existing FL-340 to FL-422" to "Existing FL-340 and FL-422".
- The location of existing FL-432 from fence corner to P.S. No. 4 is shown incorrectly. "FL-432 turns right at fence corner below existing concrete slab".
- (8) DWG 49 of 73. NOTES.
- In 3rd line of Note 2, change "Ⓢ Ⓢ AA''" to "'AA''" and "Ⓢ Ⓢ BB''" to "'BB''".
- In 2nd line of Note 4, change "Ⓢ Ⓢ BB''" to "'BB''".

Burk-Kleinpeter, Inc.

Engineers, Architects, Planners, Environmental Scientists
4176 Canal Street, New Orleans, LA 70119

STRUCTURAL ANALYSIS OF EXIST. MP112 STEEL SHEET PILING

Job No.	Design By:	Date:	Checked By:	Page of
8407-85	S.I. Shah	5/14/94		1.

CHECK STRESSES IN EXIST. MP112 STEEL SHEET PILING FOR PROPOSED LEVEE CROWN DEGRADING DURING NON-HURRICANE SEASON WITH A MAX. HIGH WATER ELEV. OF 6.75 :

REFERENCE : GEOTECHNICAL INVESTIGATIONS REPORT BY EUSTIS ENG. 6 MAY 1994.

FROM ENCLOSE 1 OF EUSTIS REPORT, FOR REACH 2, MAX. B.M. FOR WATER EL. 6.75 = 2.5 ^{1k}

NOTE: FOR REACHS 5, 6 & 7, NO B.M. RESULTED AT EL. 6.75.

ASSUME F_y FOR STEEL SHEET PILING = 36 ksi

WITH F.S. = 1.0,

$$S_{REQ'D.} = \frac{2.5 \text{ }^{1k} \times 12,000}{36,000} = 0.83 \text{ in}^3 / \text{FT. OF WALL}$$

$$S_{AVAILABLE} \text{ FOR MP112} = 2.4 \text{ in}^3 / \text{FT. OF WALL}$$

WITH 25% SECTION LOSS,

$$S_{AVAILABLE} = 2.4 \times 0.75 = 1.80 \text{ in}^3 \text{ PER FT. OF WALL}$$

$S_{REQ'D.} < S_{AVAILABLE}$. O.K.

EN: IV ADMIN UNIT

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U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No. <u>488-1714</u>	Name <u>Suresh Shah</u>	Fax No. <u>862-1585</u>	Name <u>Angela De Soto</u>
Office Symbol _____	Telephone No. <u>483-6278</u>	Office Symbol _____	Telephone No. <u>862-2733</u>
Date <u>5/18/94</u>	No. of Pages (including cover sheet) <u>5</u>	Precedence (P or R)	If you do not receive all pages, please telephone: <u>see above.</u>

REMARKS:

Here is the marked up copy

Angela

MEMORANDUM FOR C/ CONSTRUCTION DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0001 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

- (1) Page C2C-1, paragraph C2C-2. Add following paragraphs under "(2) EXCAVATIONS". "The Contractor shall have an option to degrade the existing landside levee to elevation 3.0 N.G.V.D. at any time to improve the accessibility for construction in the following reaches:

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Station 85+20 to 100+00 EB/L

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73+00 to 84+60 EB/L	3.0
102+30 to 119+40 EB/L	3.0
120+18 to 126+88 EB/L	4.0

The Contractor's hurricane plan shall include provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season. During hurricane season, the Contractor shall be prohibited to degrade existing levee until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi."

- 2. Page C2G-6, paragraph C2G-8.5. In the first sentence, change "AZ-10" to "RZ-10".

3. Page C2G-10, paragraph C2G-11.1.5. Add the following sentence after the last sentence. "No separate measurement will be made for approximately eighteen (18) linear feet of existing AZ-18 steel sheet piling to be pulled and cleaned up to elevation 14.40".
4. Page C2G-10, paragraph C2G-11.1.6. In the 2nd line, after "AZ-18", add ", RZ-10 and PZ-27".
5. Page C2G-11, paragraph C2G-11.2.6. In the 2nd and 3rd line, after "AZ-18", add "RZ-10 and PZ-27".
6. Page C2J-3. Add the following new paragraph after paragraph C2J-4.3. "C2J-4.4 Concrete Slope Pavement. The Contractor shall remove and dispose of existing slope pavement on west bank as indicated on Contract Drawings and as specified herein."
7. Page C2J-3, paragraph C2J-6.2. In the 3rd line, after "sheet piling," add "concrete slope pavement,".
8. Page C16B-5, paragraph C16B-12.1. In the 3rd line, change "0.040" to "0.032".
9. Page C16B-7, paragraph C16B-13.3.3. Lines 9 and 10 shall read "The thickness of the extruded screen shall have 32 mills minimum point".
(with an 30% ??
10. Page C16B-11, paragraph C16B-16.1.1:
 - The 2nd sentence shall read "From stations 99+91.07 to 100+17.54 EB/L, the Contractor shall have an option to keep the underground existing cable ~~to remain~~ in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during the construction".
 - In the 9th line, after "relocate cable", add "either from its original position or".
 - Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables thru sheet piling at approximate station 100+04.79 EB/L as shown on the drawings".
11. Page C16B-12, paragraph C16B-16.1.3:
 - In the 3rd line, change "on" to "to". *Be more specific: "on" is used only twice*

- The 2nd sentence shall read "From stations 99+88.47 to sta. 100+17.54 EB/L , the Contractor shall have an option to keep the underground existing cable ~~to remain~~ in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during construction".
- In the 3rd sentence, add before "splices", "In case of insufficient cable length,".

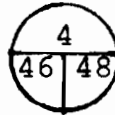
12. Page C16B-12, paragraph C16B-16.1.4. Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables through the sheet piling at approximate station 101+38.90 WB/L and station 100+04.79 EB/L as shown on the drawings".

B. Drawings. File No. H-4-40295

*FL-432
suspended
from pole ?*

1. DWG No. 6 of 73. Table of "EXISTING FACILITIES". Add "(■)" after NA in Disposition column for item FL-432.
2. DWG No. 13 of 73. West Profile (Canal Side Elevation). *Bottom of new sheet piling elevation is -20.0 from Station 100+27.61 to Station 101+66.95*.
3. DWG No. 19 of 73. Sheet pile splice at TC-1, ST-1 & DT-1. Change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; STA. 101+27 WB/L FOR ST-1 & DT-1 "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".
4. DWG 32 of 73. Section A. Change "APPROX. STA. 70+57.00 to 84+64.72 WB/L" to "APPROX. STA. 70+47.00 to 84+54.72 WB/L".
5. DWG 32a of 73. Table of LIMITS OF FRACTURED FIN TEXTURE ON THE CANAL SIDE OF THE FLOODWALL. Delete fracture fin texture on Canal Side from station "70 + 47.00 to 72 + 52.33 WB/L" and station "70 + 26.77 to 72 + 32.10 EB/L".
6. DWG 42 of 73. Section B-B. Change "16'-6''" to "21'-0''".
7. DWG 48 of 73. PLAN.

Change "Plan" to "Detail



Change "Existing FL-340 to FL-422" to "Existing FL-340 and FL-422".

The location of existing FL-432 from fence corner to P.S. No. 4 is shown incorrectly. FL-432 turns right at fence corner below existing concrete slab.

(2) Page C2G-6. Add a following new paragraph C2G-8.4.1 after paragraph C2G-8.4 "C2G-8.4.1 Pull and Clean Existing AZ-18 Steel Sheet Piling. The Contractor shall pull and clean approximately 18 linear feet of existing AZ-18 steel sheet piling up to elevation 14.40 as shown on ~~Drawings No. No. 48 of the Contract Drawings.~~ ^{the} These sheet pilings are on the south side of Pumping Station No. 4 on the east bank. The pulled portion of the piles shall be cleaned with a jet of water. The Contractor shall repair any damaged protective coating on AZ-18 sheet piling. For paint requirements, see Section C9A, "PAINTING."

Instead of describing area, give station limits

Dwg. 37. Dimension lines are missing on ladder details.
 Dwg. 49 of 73. Note 2 + 4. have "AA + BB". what does this mean?

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists

4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job No.

8	4	0	7
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8	5
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Date: May 17, 1994

Job Title London Avenue Outfall Canal, Hurricane Protection

Sending to: (FAX No. 504-862-1585) (TEL No. 504-862-2733)

US Army Corps of Engineers
PO Box 60267
New Orleans, Louisiana 70160-0267
Engineering Division
ATTN: Angela DeSoto

Message: Please review and send your comments back to us today.
Thank You, Suresh.

From: Suresh I. Shah, P.E.

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
Fax - 504-488-1714

7 Total number of pages in this transmittal (including this cover sheet)

Copy SIS, File

MEMORANDUM FOR C/ CONSTRUCTION DIVISION

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Blvd. Floodwall; West Bank, Mirabeau Avenue to Leon C. Simon Blvd. Floodwall; East Bank, Orleans Parish, Louisiana.

Please issue Amendment No. 0001 to Solicitation No. DACW 29-94-B-0047, subject as above, as follows:

A. Specifications:

- (1) Page C2C-1, paragraph C2C-2. Add following paragraphs under "(2) EXCAVATIONS". "The Contractor shall have an option to degrade the existing landside levee to elevation 3.0 N.G.V.D. at any time to improve the accessibility for construction in the following reaches:

Station 69+15 to 73+00 EB/L
Station 85+20 to 100+00 EB/L

The Contractor shall have an option to degrade the existing landside levee only during non-hurricane season with a maximum water elevation of 6.75 N.G.V.D. in the following reaches:

Reach	Degraded Levee Elevation
70+50 to 84+50 WB/L	3.0
85+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
73+00 to 84+60 EB/L	3.0
102+30 to 119+40 EB/L	3.0
120+18 to 126+88 EB/L	4.0

The Contractor's hurricane plan shall include provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season. During hurricane season, the Contractor shall be prohibited to degrade existing levee until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi."

2. Page C2G-6, paragraph C2G-8.5. In the first sentence, change "AZ-10" to "RZ-10".

3. Page C2G-10, paragraph C2G-11.1.5. Add the following sentence after the last sentence. "No separate measurement will be made for approximately eighteen (18) linear feet of existing AZ-18 steel sheet piling to be pulled and cleaned up to elevation 14.40".
4. Page C2G-10, paragraph C2G-11.1.6. In the 2nd line, after "AZ-18", add ", RZ-10 and PZ-27".
5. Page C2G-11, paragraph C2G-11.2.6. In the 2nd and 3rd line, after "AZ-18", add "RZ-10 and PZ-27".
6. Page C2J-3. Add the following new paragraph after paragraph C2J-4.3. "C2J-4.4 Concrete Slope Pavement. The Contractor shall remove and dispose of existing slope pavement on west bank as indicated on Contract Drawings and as specified herein."
7. Page C2J-3, paragraph C2J-6.2. In the 3rd line, after "sheet piling," add "concrete slope pavement,".
8. Page C16B-5, paragraph C16B-12.1. In the 3rd line, change "0.040" to "0.032".
9. Page C16B-7, paragraph C16B-13.3.3. Lines 9 and 10 shall read "The thickness of the extruded screen shall have 32 mills minimum point".
10. Page C16B-11, paragraph C16B-16.1.1:
 - The 2nd sentence shall read "From stations 99+91.07 to 100+17.54 EB/L, the Contractor shall have an option to keep the underground existing cable to remain in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during the construction".
 - In the 9th line, after "relocate cable", add "either from its original position or".
 - Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables thru sheet piling at approximate station 100+04.79 EB/L as shown on the drawings".
11. Page C16B-12, paragraph C16B-16.1.3:
 - In the 3rd line, change "on" to "to".

- The 2nd sentence shall read "From stations 99+88.47 to sta. 100+17.54 EB/L , the Contractor shall have an option to keep the underground existing cable to remain in its existing position or temporarily relocate the cable from its existing position into a trench in case of any conflict which may occur during construction".
- In the 3rd sentence, add before "splices", "In case of insufficient cable length,".

12. Page C16B-12, paragraph C16B-16.1.4. Add the following new sentence at the end of the paragraph. "Notching of steel sheet piling and split steel sleeves will be required to cross the cables through the sheet piling at approximate station 101+38.90 WB/L and station 100+04.79 EB/L as shown on the drawings".

B. Drawings. File No. H-4-40295

1. DWG No. 6 of 73. Table of "EXISTING FACILITIES". Add "(■)" after NA in Disposition column for item FL-432.
2. DWG No. 13 of 73. West Profile (Canal Side Elevation). "Bottom of new sheet piling elevation is -20.0 from Station 100+27.61 to Station 101+66.95".
3. DWG No. 19 of 73. Sheet pile splice at TC-1, ST-1 & DT-1. Change "STA. 100+42 WB/L FOR TC-1" to "STA. 100+47 WB/L FOR TC-1"; STA. 101+27 WB/L FOR ST-1 & DT-1" "STA. 100+58 WB/L FOR TC-1" to "STA. 100+52 WB/L FOR TC-1"; and "STA. 100+51 WB/L FOR ST-1 & DT-1" to "STA. 101+55 WB/L FOR ST-1 & DT-1".
4. DWG 32 of 73. Section A. Change "APPROX. STA. 70+57.00 to 84+64.72 WB/L" to "APPROX. STA. 70+47.00 to 84+54.72 WB/L".
5. DWG 32a of 73. Table of LIMITS OF FRACTURED FIN TEXTURE ON THE CANAL SIDE OF THE FLOODWALL. Delete fracture fin texture on Canal Side from station "70 + 47.00 to 72 + 52.33 WB/L" and station "70 + 26.77 to 72 + 32.10 EB/L".
6. DWG 42 of 73. Section B-B. Change "16'-6''" to "21'-0''".
7. DWG 48 of 73. PLAN.

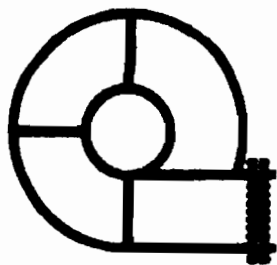
Change "Plan" to "Detail



Change "Existing FL-340 to FL-422" to "Existing FL-340 and FL-422".

The location of existing FL-432 from fence corner to P.S. No. 4 is shown incorrectly. "FL-432 turns right at fence corner below existing concrete slab".

(2) Page C2G-6. Add a following new paragraph C2G-8.4.1 after paragraph C2G-8.4 "C2G-8.4.1 Pull and Clean Existing AZ-18 Steel Sheet Piling. The Contractor shall pull and clean approximately 18 linear feet of existing AZ-18 steel sheet piling up to elevation 14.40 as shown on Drawing No. 48 of the Contract Drawings. These sheet pilings are on the south side of Pumping Station No. 4 on the east bank. The pulled portion of the piles shall be cleaned with a jet of water. The Contractor shall repair any damaged protective coating on AZ-18 sheet piling. For paint requirements, see Section C9A, "PAINTING."



SIDNEY J. BARTHELEMY, President
HENRY A. DILLON, JR., President Pro-Tem.

MAY 11 1994
BURK-KLEINPETER

Sewerage & Water Board OF NEW ORLEANS

G. JOSEPH SULLIVAN
General Superintendent

625 ST. JOSEPH STREET
NEW ORLEANS, LA., 70165 • 585-2365

May 10, 1994

Burk-Kleinpeter, Inc.
4176 Canal Street
New Orleans, Louisiana 70119

Attention: Mr. Suresh J. Shah

RE: London Avenue Outfall Canal, Parallel
Protection Mirabeau Avenue to Leon C.
Simon Blvd., East Bank, Mirabeau Avenue
to Robert E. Lee Blvd. West Bank

Gentlemen:

Our comments on the Electrical portion of the final subject plans and specifications are as follows:

A. Drawings:

1. Drawing 6:

Item (FL-432) add Note "TO BE LOCATED BY THE GOVERNMENT CONTRACTOR PRIOR TO SETTING THE TEMPORARY FENCE POSTS." in DISPOSITION column.

2. Drawing 48:

Existing Note "EXISTING FL-340 TO FL-422 TO REMAIN" shall read "EXISTING FL-340 AND FL-422 TO REMAIN."

Existing FL-432 is shown incorrectly from fence corner to Drainage Station No. 4. FL-432 turns right at fence corner below existing concrete slab.

Existing FL-340 and FL-422 between Stations 99+88.47 to 100+17.54 EB/L shall be temporarily relocated before being permanently relocated to the new floodwall.

Burk-Kleinpeter, Inc.
May 10, 1994
RE: London Avenue Outfall Canal
Page Two

B. Specifications:

1. Page C16B-5:

In Paragraph C16B-12.1 line three shall read "...
semiconducting strand shield, .220" Okoguard EPR
Insulation, .032"..."

2. Page C16B-7:

In Paragraph C16B-13.3.3 lines 9 and 10 shall read "The
thickness of the extruded screen shall have 32 mils
minimum point."

3. Page C16B-11:

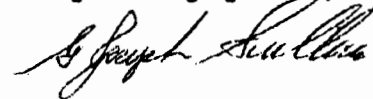
In Paragraph C16B-16.1.1 Feeder 340 from Stations
99+91.07 to 100+17.54 EB/L shall be temporarily
relocated. Please revise paragraph.

4. Page C16B-12:

In Paragraph C16B-16.1.3 Feeder 422 from Stations
99+88.47 to 100+17.54 EB/L shall be temporarily
relocated. Please revise paragraph.

Please incorporate the above corrections in your plans and
specifications by addendum.

Very truly yours,



GENERAL SUPERINTENDENT

GJS/CTP/S

CC: Mr. R. St. Germain
Mr. J. Parker
Mr. G. Preau
Mr. G. Sarrat
Mr. C. Perret

=====

- - Mail - -

May 16, 1994

3:43pm

MAIL IS -

FROM: Darrell Normand

Private Urgent

TO: Angela Desoto

FOR YOUR -

SUBJECT: LAOCF

Information Comments Action

ANGE,

MORE CHANGES FOR LONDON.

- 1) DWG. 37/73, LADDER DETAILS ARE MISSING DIMENSION LINES.
- 2) DWG. 49/73, NOTES REFERENCE "SECTION &&AA", "SECTION &&BB". THESE NEED TO BE CHANGED.

MAIL LISTING FOR Angela Desoto

May 12, 1994

=====

- - Mail - -

May 12, 1994 3:21pm MAIL IS -
FROM: Darrell Normand Private Urgent
TO: Angela Desoto FOR YOUR -
SUBJECT: L.A.O.C.F/W. Information Comments Action

ANGE,

HERE ARE MORE COMMENTS FOR YOUR ENJOYMENT.

1) DWG 32/73; THE DIMENSIONS FOR THE LEFT F/W ARE INCORRECT. THE STATION "70+57" AND "84+64.72" DON'T MATCH THE PROFILE STATIONS ON DRAWING 12/73. *70+47.00 84+54.72* 5/13/94

2) DWG 32a/73; "LIMITS OF FRACTURED FIN ON F/S OF WALL, EAST SIDE", ALL REACHES OF FRACTURE ARE ~ 205.33' EXCEPT "STA 85+54.63 TO 87+57.05" WHICH IS 202.42'. IS THIS AN ERROR? 5/13/94

} different sheet pile section

Contract #3 Changes Needed

- p. C2G-6, para C2G-8.5 "AZ-10" should be "RE-10" 5/12/94
- Dwg. 13. Sheet pile top el. missing under TC 5/12/94
- Dwg. 19. Splice Joints for DT-14 ST-1 wrong 5/12/94
- Dwg. 15. Where are ^{partial} sheet pile 99-74-99+91 paid? 5/12/94
- C2G-8.5. Where are cut PE-27 + AZ-10 paid for? 5/12/94
- Where is Cut + Removed Conc Slope Pavement paid? 5/12/94

~~pg C2J-3 3' w/ concrete (pulled pile holes @ pedes. bridge)~~

~~X splines ^{dwg 10/73} why does spline dia. decrease fr 8-1 + DT
top it does not agree w/ dwg. 13.~~

~~X sections for embankment~~

~~X dwg 15/73 pulled & set @ elev 14.4' - where paid for? @ PS#4~~

~~✓ missing bottom elev of sheet piles @ station 100+50+ (w)~~

~~✓ = dwg 16/73 102+67.72 → 119+03.06 (E) "RZ-10" conflicts w/ page
C26-10, para C26-8.5 "AZ-10" RZ-10~~

~~- cutting of existing MP-17 paid for? demolition?~~

~~- pulling of AZ-18 @ sta. 99+74.76 → 99+91.07 paid for where?
up to 14.4' (13.5')~~

~~✓ cutting of RZ-10 & PZ-27 paid for? 11.1.6~~

~~↓ Removal of Core Prop. Payment on selective demolition~~

6 May 94

MEMORANDUM FOR C/Real Estate Division

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA

- 1. Enclosed is a letter dated 27 Apr 1994 from South Central Bell to the Orleans Levee District.
- 2. We have amended the contract plans and specifications to extend the South Central Bell time frame for removing TC-2 to 30 Sep 94.
- 3. Point of contact is Angela DeSoto, x2733.

Encl
as

W. EUGENE TICKNER
Chief, Engineering
Division

CF:
CELMN-PP

CF
GUGGENHEIMER *ms*
CELMN-ED-DD *ms*
PK
GUIZERIX *6*
CELMN-ED-D
PK
TICKNER *6*
CELMN-ED

6767 Bundy Road
Third Floor - South
New Orleans, Louisiana 70127
504 245-5700

Mr. Frank P. Mineo
Engineer
Orleans Levee District
Suite 202
Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

April 27, 1994

RE: London Avenue Outfall Canal Floodwall - -Contract III
(Item TC-2, approximately station 0+98)

Dear Mr. Mineo:

Per our recent conversation, South Central Bell hereby formally notifies the Orleans Levee District and other parties of a delay in our removing service from Item TC-2. The most-recently-quoted date had been June 30, 1994. A more realistic date, barring unforeseen circumstances, is September 30, 1994.

Please notify me if this new date negatively impacts the project.

Sincerely,



Pierre Champagne
Specialist
(504) 245-5723

CC: W. Eugene Tickner, Chief, Engineering Division, U. S. Army Corps of
Engineers
Suresh I. Shah, P. E., Burk-Kleinpeter, Inc.

THE FOLLOWING FILE(S) CANCELED

FILE NO.	FILE TYPE	OPTION	TEL. NO.	PAGE	RESULT
001	TRANSMISSION		8-4-81714	03	OK

ERRORS

- 1- HANG UP OF LINE FAIL
- 2- BUSY
- 3- NO ANSWER
- 4- NO POSSIBLE CONNECTION



FACSIMILE HEADER SHEET

**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No. <u>488-1714</u>	Name <u>Suresh Shah</u>	Fax No. <u>862-1585</u>	Name <u>Angela De Soto</u>
Office Symbol _____	Telephone No. <u>488-5901</u>	Office Symbol _____	Telephone No. <u>862-2733</u>
Date <u>5/35/94</u>	No. of Pages (including cover sheet) <u>3</u>	Precedence (P or R)	If you do not receive all pages, please telephone:

REMARKS:

Here is the sheet pile letter

Angela



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

May 3, 1994

Engineering Division
Structural Design Section

Mr. Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119

Dear Mr. Jackson:

Reference our letter dated March 15, 1994, and subsequent report dated March 29, 1994 by Eustis Engineering Company concerning degrading 2 feet of existing levee for construction of London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

Based on the Eustis Report and our structural investigations, the contract specifications must be amended to prohibit degrading of certain levee reaches during hurricane season until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi.

Please perform structural analysis for the following reaches with water elevation 6.75 National Geodetic Vertical Datum (N.G.V.D.) and a factor of safety of 1.0. The degraded levee elevations are as shown:

Reach	Levee Elevation
70+50 to 84+50 WB/L	3.0
75+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
69+15 to 84+02 EB/L	3.0
120+18 to 126+88 EB/L	4.0

Degrading may be permitted during non-hurricane season if sheet pile stresses are within acceptable limits and the Contractor's hurricane plan includes provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season.

From Station 85+40 to 100+00 EB/L, our investigations indicate the levee may be degraded to elevation 3.0 N.G.V.D. at any time. Verify this prior to amending the specifications.

From Station 102+30 to 119+40 EB/L, both our investigations and Eustis' report indicate the levee can be degraded only during non-hurricane season. Please amend the contract specifications according to the requirements listed above.

Please forward your analyses and proposed specification changes no later than May 16, 1994. This contract will be advertised on May 3, 1994, with bids opened on June 8, 1994.

If you have any questions, please call Mr. Walter Baomy at (504) 862-2656.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

Copy Furnished:

Mr. Stevan Spencer
Chief Engineer
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

AUTO

FOLLOWING FILE(S) ERASED:

FILE	FILE TYPE	OPTION	TEL. NO.	FARE	RESULT
OUT	TRANSMISSION		9-4881714	00	OK

REAS

1. HANG UP OR LINE FAIL 2. BUSY 3. NO NUMBER 4. NO FACSIMILE CONNECTION



FACSIMILE HEADER SHEET

**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela De Soto</u>
Office Symbol	_____	Office Symbol	_____
Telephone No.	<u>488-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>5/5/94</u>	<u>2</u>		<u>see above</u>

REMARKS:

Here is an advanced copy of the letter
Angela



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

11-30PM

REPLY TO
ATTENTION OF:

May 5, 1994

Engineering Division
Structural Design Section

Mr. Stevan Spencer
Chief Engineer
Orleans Levee District
Suite 202
Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Spencer:

Please refer to the plans and specifications prepared by Burk-Kleinpeter, Incorporated for Lake Pontchartrain, Louisiana and Vicinity, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

As discussed by Mr. Walter Baomy and Mr. Frank Mineo of our respective offices, we would like Burk-Kleinpeter, Incorporated to make necessary changes to remove fractured fin finish from the canal side face of the floodwall adjacent to the Mirabeau Avenue bridge. This change is necessary since the floodwall on the south side of Mirabeau Avenue will not have fractured fin finish on the canal side.

Please furnish these changes no later than May 16, 1994. This contract was advertised on May 3, 1994, with bids scheduled to open on June 8, 1994.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

CG
GUGGENHEIMER
CELMN-ED-DD

WJ
GUIZERIX
CELMN-ED-D

WJ
TICKNER
CELMN-ED

Copy Furnished:

Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

FILE COPY

REPLY TO
ATTENTION OF:

May 5, 1994

Engineering Division
Structural Design Section

Mr. Stevan Spencer
Chief Engineer
Orleans Levee District
Suite 202
Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Spencer:

Please refer to the plans and specifications prepared by Burk-Kleinpeter, Incorporated for Lake Pontchartrain, Louisiana and Vicinity, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

As discussed by Mr. Walter Baomy and Mr. Frank Mineo of our respective offices, we would like Burk-Kleinpeter, Incorporated to make necessary changes to remove fractured fin finish from the canal side face of the floodwall adjacent to the Mirabeau Avenue bridge. This change is necessary since the floodwall on the south side of Mirabeau Avenue will not have fractured fin finish on the canal side.

Please furnish these changes no later than May 16, 1994. This contract was advertised on May 3, 1994, with bids scheduled to open on June 8, 1994.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

CG
GUGGENHEIMER
CELMN-ED-DD *10*

4
GUIZERIX
CELMN-ED-D

TICKNER
TICKNER
CELMN-ED

Copy Furnished:

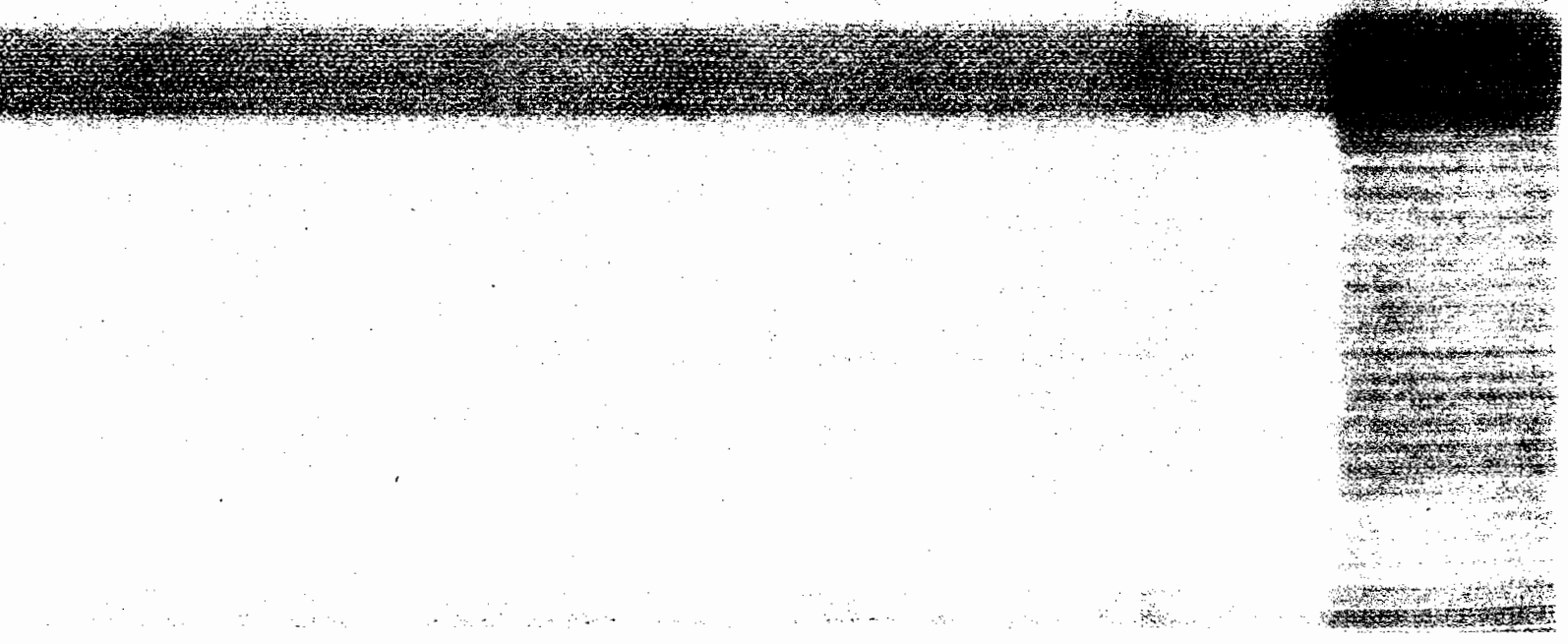
Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119

THE FOLLOWING FILES ERASED:

FILE	FILE TYPE	OPTION	FILE NO.	PAGE	RESULT
001	PROGRAM		001	04	OK

ERRORS

- 1. HARDWARE ERROR
- 2. ...
- 3. ...
- 4. ...





FACSIMILE HEADER SHEET

**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	_____	Office Symbol	_____
Telephone No.	<u>488-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>5/4/94</u>	<u>4</u>		<u>see above</u>

REMARKS:

Suresh,
Here is the format we use. Our specs section will do the final writing but if you do it on computer, they can take your writing + add the appropriate headings, etc.

Angela

MEMORANDUM FOR C/Contr Div

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Ave. Outfall Canal Parallel Protection, Pumping Station No. 3 To Mirabeau Ave. Floodwall, Orleans Parish, La.

Please issue Amendment No. 0001 to Solicitation No. DACW29-93-B-0080, subject as above, as follows:

A. Specifications.

(1) Pages C2C-4 and C2C-5. Delete paragraphs C2C-3.1, C2C-3.1.1, C2C-3.1.2, C2C-3.2, and C2C-3.3 in their entirety.

(2) Pages C2C-5 and C2C-6. Change paragraph numbers "C2C-3.4, C2C-3.4.1, C2C-3.4.2, C2C-3.4.3, and C2C-3.4.4" to "C2C-3.1, C2C-3.1.1, C2C-3.1.2, C2C-3.1.3, and C2C-3.1.4" respectively.

(3) Page C2E-5. Delete this paragraph in its entirety, and substitute the attached pages C2E-5 and C2E-5a therefor.

(4) Page C2G-4, paragraph C2G-8.1.1.1. In both tables, change "9±10%" to "9±15%".

(5) Page C2L-2, paragraph C2L-3.4. Add the following reference and reference title.

"STD 112-84 PCI Committee On Prestressed Concrete Piling,
Standard Prestressed Concrete Piles"

(6) Page C3A-3, paragraph C3A-6.1.1. In the 5th line, after "Grade B Concrete Form;" add "Class I;"

(7) Page C3A-4. Add the following new paragraph C3A-6.1.4 after paragraph C3A-6.1.3.

"C3A-6.1.4 Bas-Relief Architectural Finish. This class of finish shall apply to the locations shown on the drawings. The finish shall be achieved by the use of approved form liners manufactured using Government furnished molds. Liner panels shall be secured in the forms by methods recommended by the manufacturer and in such a manner that impressions of nail heads, screw heads, washers, staples, or similar fasteners will not be imparted to the concrete.

(8) Page C3A-5, paragraph C3A-10.1. Delete this paragraph in its entirety and substitute "C3A-10.1 Reserved." therefor.

(9) Delete page C3D-4 and C3D-5 in their entirety, and substitute the attached pages C3D-4, C3D-5 and C3D-5a therefor.

CELMN-ED-DS

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Ave. Outfall Canal Parallel Protection, Pumping Station No. 3 To Mirabeau Ave. Floodwall, Orleans Parish, La.

(10) Page C3D-15, paragraph C3D-7.5.2.2. Add the following before the last sentence: "Test cylinders for the 4000 psi concrete shall be tested at 7, 10 and 14 days."

(11) Page C3D-24, paragraph C3D-12.2.1. Under "Structure or Portion of Structure", change "All surfaces of concrete floodwalls" to "The top and both sides of the exposed floodwall surface to 6 inches below final grade".

(12) Page C3D-31. Add the following new paragraph C3D-15.2.6.3 after paragraph C3D-15.2.6.3.

"C3D-15.2.6.3 Compressive Strength. A minimum of six companion compression test specimen shall be prepared by the Contractor in accordance with ASTM C 31 each time 4000 psi concrete is placed, these cylinders shall be protected and cured in accordance with paragraphs 9.1 and 9.3 of ASTM C 31 to determine when the concrete may be put into service. The Contractor shall test these cylinder in accordance with ASTM C 39 and furnish these results to the Contracting Officer. Two cylinders shall be tested at 7 days for acceptance. If test results are below 4000 psi, the two remaining pair shall be tested at later ages."

(13) Page H-2, paragraph H-3e. Under "Drawing No.", change "R13" to "R17".

(14) Page H-39. Add the following new subparagraph H-34.h after subparagraph H-34.g.

"The Contractor shall coordinate with the Orleans Levee District for taking delivery of Government furnished property listed in the Special Clause entitled "SCHEDULE OF GOVERNMENT FURNISHED PROPERTY. The Contractor shall notify Mr. Stevan Spencer, Orleans Levee District, Administrative Building, Suite 202, Lakefront Airport, New Orleans, LA 70124, (504) 243-4049.

(15) Add the attached new pages H-41 and H-42 after page H-40.

B. Drawings. File No. H-4-40145. Delete Dwgs. 1 and 26 of 58 in their entirety and substitute the attached revised Dwgs. 1 and 26 of 58, and new Dwg. 26A of 58 therefor. Make the pen and ink changes as described below.

(1) Dwg. 8 of 58.

a. PLAN. Change the following WB/L or EB/L stations. "2+29.67 WB/L" to "2+33.32 WB/L", "2+62.77 WB/L" to "2+62.03 WB/L", "1+20.82 EB/L" to "1+19.79 EB/L", and "1+46.19 EB/L" to "1+46.88 EB/L" .

10 Aug 93

CELMN-ED-DS

SUBJECT: Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Ave. Outfall Canal Parallel Protection, Pumping Station No. 3 To Mirabeau Ave. Floodwall, Orleans Parish, La.

b. Table of "WALL ALIGNMENT OFFSETS". Change the following WB/L, EB/L, or OFFSETS respectively.

old WB/L	New WB/L ;	old OFFSET	new OFFSET
"2+29.67"	to "2+33.32" ;	"-9.64"	to "-9.55"
"2+62.77"	to "2+62.03" ;	"1.86"	to "1.58"

old EB/L	New EB/L ;	old OFFSET	new OFFSET
"1+20.82"	to "1+19.79" ;	"-25.93"	to "-22.29"
"1+46.88"	to "1+46.19" ;	"2.22"	to "2.67"

(2) Dwg. 9 of 58. Table of "WALL ALIGNMENT OFFSETS". Change the OFFSET of "4.82" to "4.49".

(3) Dwg. 12 of 58. Table of "WALL ALIGNMENT OFFSETS". Change the OFFSET of "1.61" to "1.20", and "6.49" to "6.17".

(4) Dwg. 31 of 58.

a. PLAN - SWING GATE MONOLITH WEST SIDE. Change "STA. 1+63.22 WB/L START C/L SHEET PILING" to ""STA. 1+62.51 WB/L START WALL LINE". Change "2.55" dimensioned from the baseline to the centerline of the sheet piling to "4.22" dimensioned from the baseline to the wall line.

b. PLAN - SWING GATE MONOLITH EAST SIDE. Change "STA. 0+82.87 EB/L START C/L SHEET PILING" to ""STA. 0+82.34 EB/L START WALL LINE". Change "7.42" dimensioned from the baseline to the centerline of the sheet piling to "6.73" dimensioned from the baseline to the wall line.

c. It is requested that the bid opening date of 1 Sep 93 not be changed.

W. EUGENE TICKNER
Chief, Engineering Division

CF:
C/Struc Des Sec
C/Cost Engr Br
C/Const Div
C/Life Cycle

From Station 85+40 to 100+00 EB/L, our investigations indicate the levee may be degraded to elevation 3.0 N.G.V.D. at any time. Verify this prior to amending the specifications.

From Station 102+30 to 119+40 EB/L, both our investigations and Eustis' report indicate the levee can be degraded only during non-hurricane season. Please amend the contract specifications according to the requirements listed above.

Please forward your analyses and proposed specification changes no later than May 16, 1994. This contract will be advertised on May 3, 1994, with bids opened on June 8, 1994.

If you have any questions, please call Mr. Walter Baummy at (504) 862-2656.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

Copy Furnished:

Mr. Stevan Spencer
Chief Engineer
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

CH
GUGGENHEIMER⁰⁰
CELMN-ED-DD *43*

TA
GUIZERYX³
CELMN-ED-D

ra
TICKNER
CELMN-ED



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO ATTENTION OF:

May 3, 1994

Engineering Division
Structural Design Section

Mr. Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119

Dear Mr. Jackson:

Reference our letter dated March 15, 1994, and subsequent report dated March 29, 1994 by Eustis Engineering Company concerning degrading 2 feet of existing levee for construction of London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

Based on the Eustis Report and our structural investigations, the contract specifications must be amended to prohibit degrading of certain levee reaches during hurricane season until the new floodwall is complete and the concrete has attained a compressive strength of 3,000 psi.

Please perform structural analysis for the following reaches with water elevation 6.75 National Geodetic Vertical Datum (N.G.V.D.) and a factor of safety of 1.0. The degraded levee elevations are as shown:

Reach	Levee Elevation
70+50 to 84+50 WB/L	3.0
75+60 to 99+15 WB/L	3.5
100+40 to 119+85 WB/L	3.0
69+15 to 84+02 EB/L	3.0
120+18 to 126+88 EB/L	4.0

Degrading may be permitted during non-hurricane season if sheet pile stresses are within acceptable limits and the Contractor's hurricane plan includes provisions for returning the levees to their original heights if new floodwall construction is not complete by the beginning of hurricane season.

Check Non-Hurricane Condition.

West Side

Water Elev.

①	70+50 to 84+50	6.75
②	85+60 to 99+15	6.75
③	100+40 to 119+85	6.75

East Side

④	69+15 to 84+02	6.75
⑤	120+18 to 126+88	6.75

$FS = 1.0 ?$

①	$6.75 - 3.0$	$= 3.75$	stick up
②	$6.75 - \cancel{3.0} 3.5$	$= 3.25$	
③	$6.75 - 3.0$	$= 3.75$	
④	$6.75 - 3.0$	$= 3.75$	
⑤	$6.75 - 4.0$	$= 2.75$	

CONVERSATION RECORD

TIME
1:50

DATE
3 May 94

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

FRANK MINEO

ORLEANS LEVEE DIST.

243-4048

SUBJECT

FRACTURED FIN ON CANAL SIDE

FACE AT MIRABEAU & GENTILLY BRIDGES

SUMMARY

1. Orleans Levee District has no objection to us removing fractured fin on canal side face at bridges.

2. Contract 3 must be amended to remove from Mirabeau Ave. We will leave on at ~~other~~ Filmore, Robert E Lee & Leon C. Simon Bridges.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Walter Baumgardner

3 May 94

ACTION TAKEN

SIGNATURE

TITLE

DATE

1 BA

QUIZERIX

CINDY

α

DD

DS

DG

DL

DR

DW

SUSPENSE

DISTRIBUTE

RELEASE

FILE

DESTROY

ROUTE

90-DAY HOLD

BELLSOUTH
TELECOMMUNICATIONS Ⓟ

6767 Bundy Road
 Third Floor - South
 New Orleans, Louisiana 70127
 504 245-5700

Mr. Frank P. Mineo
 Engineer
 Orleans Levee District
 Suite 202
 Administration Building
 New Orleans Lakefront Airport
 New Orleans, Louisiana 70126

April 27, 1994

RE: London Avenue Outfall Canal Floodwall - -Contract III
 (Item TC-2, approximately station 0+98)

Dear Mr. Mineo:

Per our recent conversation, South Central Bell hereby formally notifies the Orleans Levee District and other parties of a delay in our removing service from Item TC-2. The most-recently-quoted date had been June 30, 1994. A more realistic date, barring unforeseen circumstances, is September 30, 1994.

Please notify me if this new date negatively impacts the project.

Sincerely,



Pierre Champagne
 Specialist
 (504) 245-5723

CC: W. Eugene Tickner, Chief, Engineering Division, U. S. Army Corps of
 Engineers
 Suresh I. Shah, P. E., Burk-Kleinpeter, Inc.

*Make sure
 Burk sends us
 correspondence
 to amend
 specs if this
 is not already
 in.*

WJ

94-2541

**BELLSOUTH
TELECOMMUNICATIONS** ®

L. P. Champagne, Jr.,
6767 Bundy Road
Third Floor (South)
New Orleans, Louisiana 70127

W. Eugene Tickner
Chief Engineering Division
U. S. Army Corps of Engineers,
New Orleans District
P. O. Box 60267
New Orleans, Louisiana 70160-0267



70160-0267

CELMN-PP

22 April 1994

MEMORANDUM FOR C/Contracting Div

SUBJECT: Lake Pontchartrain Hurricane Protection Project, London Avenue Outfall Canal, Contract No. 3, Solicitation No. DACW29-94-B-0047

1. Please advertise the subject construction job for bids as soon as possible.
2. The Orleans Levee Board by letter dated 22 April 1994 has agreeded to provide the funds, prior to award, to cover the relocations work included in the job.

Encl

15/
Terral J. Broussard
Senior Project Manager

CE: w/Encl

~~CELMN-ED~~
CELMN-CT (Shiela Enclade)

The Board of Commissioners

OF THE

Orleans Levee District

SUITE 202 — ADMINISTRATION BUILDING
NEW ORLEANS LAKEFRONT AIRPORT

New Orleans, La.

70126

PROTECTING YOU
AND YOUR FAMILY



April 22, 1994

Mr. Terral J. Broussard
Senior Project Manager
U. S. Army Corps of Engineers
P. O. Box 60267
New Orleans, Louisiana 70160-0267

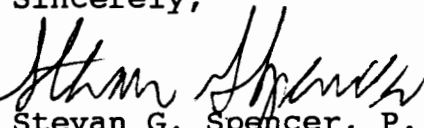
RE: OLB Project No. 24902
London Avenue Canal (Contract 3)

Dear Mr. Broussard:

At a recent meeting between Colonel Clow, Commissioner Richard D. Sackett, and myself, the matter of funding the relocations for London Avenue Canal (Contract 3) was discussed. Subsequent to that meeting Commissioner Sackett has directed me to allow for the relocations to occur as a part of the construction contract.

You are hereby authorized to proceed to advertise for bids on this project in accordance with your letter of March 16, 1994.

Sufficient OLD funds are available to cover the anticipated costs.

Sincerely,

Stevan G. Spencer, P. E.
Chief Engineer

SGS:pns

xc: Robert G. Harvey, Sr.
Richard D. Sackett
Theodore Lange
Mary E. Herbert

CELMN-RE-AP (504-90h)

30 March 1994
Mrs. LaBure/1295

MEMORANDUM THRU Chief, Programs and Project Management Division
ATTN: T. Broussard

TO Chief, Contracting Division

SUBJECT: Lake Pontchartrain, Louisiana and Vicinity, Hurricane Protection Project, London Avenue Outfall Canal, Parallel Protection, Contract 3, Mirabeau Avenue to Leon C. Simon Boulevard, East Bank Floodwall, and Mirabeau Avenue to Robert E. Lee Boulevard, West Bank Floodwall, Orleans Parish, Louisiana

1. The Orleans Levee District, by letters dated 17 March 1994 and 23 March 1994, granted right of entry, including ingress and egress, to a clear and unobstructed right-of-way for construction of subject project. Therefore, right of entry is available.
2. This completes right of entry requirements for construction as requested. However, you should not proceed with advertisement until advised to do so by Programs and Project Management Division since they (CELMN-PP) are awaiting funding for the relocation items in this contract from the Orleans Levee District.

/s/

WILLIAM C. LEWIS
Acting Chief, Real Estate Division

CE:
~~CELMN-ED-DD~~
CELMN-ED-E
CELMN-PP
CELMN-CD
CELMN-CD-NO
CELMN-RE-AC
CELMN-RE-P

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BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS

4176 CANAL STREET

NEW ORLEANS, LOUISIANA 70119-5994

TELEPHONE (504) 486-5901

FAX (504) 488-1714

P. O. BOX 19087-NEW ORLEANS, LA. 70179

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PAUL L. WAIDHAS
RANDOLPH C. CARMICHAEL

ARCHITECTURE ASSOCIATE

BARRY SCAIRONO, AIA

March 29, 1994

Mr. Stevan Spencer
Board of Commissioners of the
Orleans Levee Board
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

RE: London Avenue Canal
Contract No. 3
BKI 8407-85

Dear Steve:

As per the letter from the Corps of Engineers on March 15, 1994, requesting additional information to be added to the contract documents, we have included to you:

- 1) Two Autocadd diskettes which add the fractured fin finish to the canal side face of the floodwall adjacent to each bridge.
- 2) Geotechnical report from Eustis Engineers regarding the analysis for the temporary removal of up to two feet of existing levee crown during construction.
- 3) A letter from Cox Cable New Orleans, Inc. referring to the location of their cable positions along the project site.

By copy of this letter to Mr. Walter Baummy of the Corps of Engineers, we are transmitting the same information (Intergraph format drawings). Should you have any questions or need more information, please call me.

Sincerely,

BURK-KLEINPETER, INC.
Engineers, Architects, Planners,
Environmental Scientists


J. W. "Bill" Giardina, Jr., P.E.
Vice President

JWG

cc: Mr. Walter Baummy, U. S. Army Corps of Engineers (w/ 2 Eustis Reports, Intergraph Files and Cox Cable Letter)

2120 Canal Street
New Orleans, Louisiana 70112
Tel. (504) 522-3838

RECEIVED
MAR 23 1993



Cox Cable
New Orleans, Inc.

BURK - KLEINPETER

MARCH 22, 1993

BURK-KLEINPETER, INC.
4176 CANAL STREET
NEW ORLEANS, LA. 70119-5994

RE: LONDON AVENUE CANAL FLOODWALLS
CONTRACT NO 3
BKI 8407-07

DEAR MR SHAH:

IN REFERENCE TO THE ABOVE MENTIONED PROJECT, COX CABLE NEW ORLEANS, INC., HAS AERIAL CABLE CROSSINGS AT TWO LOCATIONS ALONG THE ROUTE OF THE PROJECT. THEY ARE AS FOLLOWS:

- 1) FILMORE AVENUE--SOUTH SIDE GOING EAST TO WEST FOR APPROXIMATELY 570'
- 2) MIRABEAU AVENUE--NORTH SIDE GOING EAST TO WEST FOR APPROXIMATELY 573'

IF THESE LOCATIONS WILL REQUIRE MOVEMENT PLEASE REQUEST IN WRITING AT LEAST 48 HOURS PRIOR TO YOUR WORK TAKING PLACE. IF YOU HAVE ANY OTHER COMMENTS OR CONCERNS PLEASE DO NOT HESITATE TO CONTACT ME AT 522-3838 EXTENSION 2288.

THANKING YOU IN ADVANCE FOR YOUR CONSIDERATION.

SINCERELY,

A handwritten signature in cursive script that reads "Mitzi Mancuso".

MITZI MANCUSO
COX CABLE NEW ORLEANS, INC.
SYSTEM DESIGNER/FIELD ENGINEER

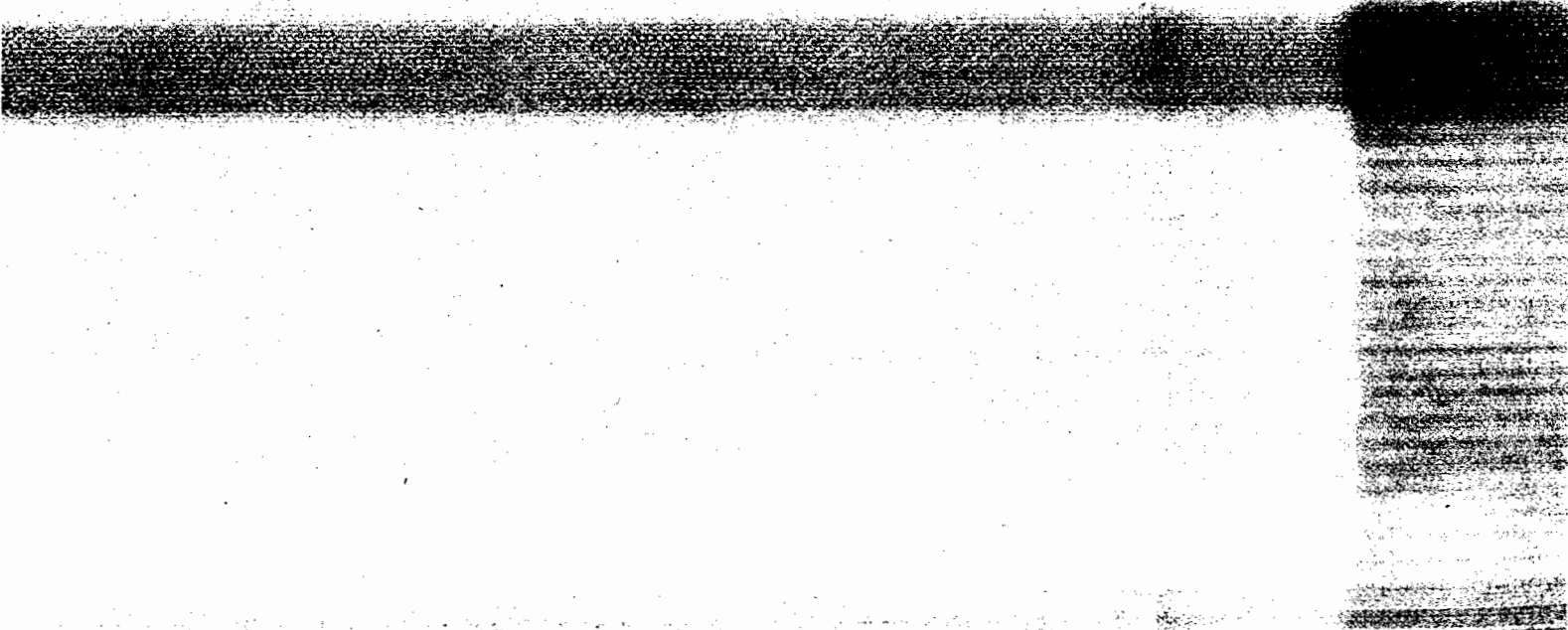
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- 2) BUSY
- 3) NO ANSWER
- 4) NO FREQUENCY
- 5) NO DIAL





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**US Army Corps
of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

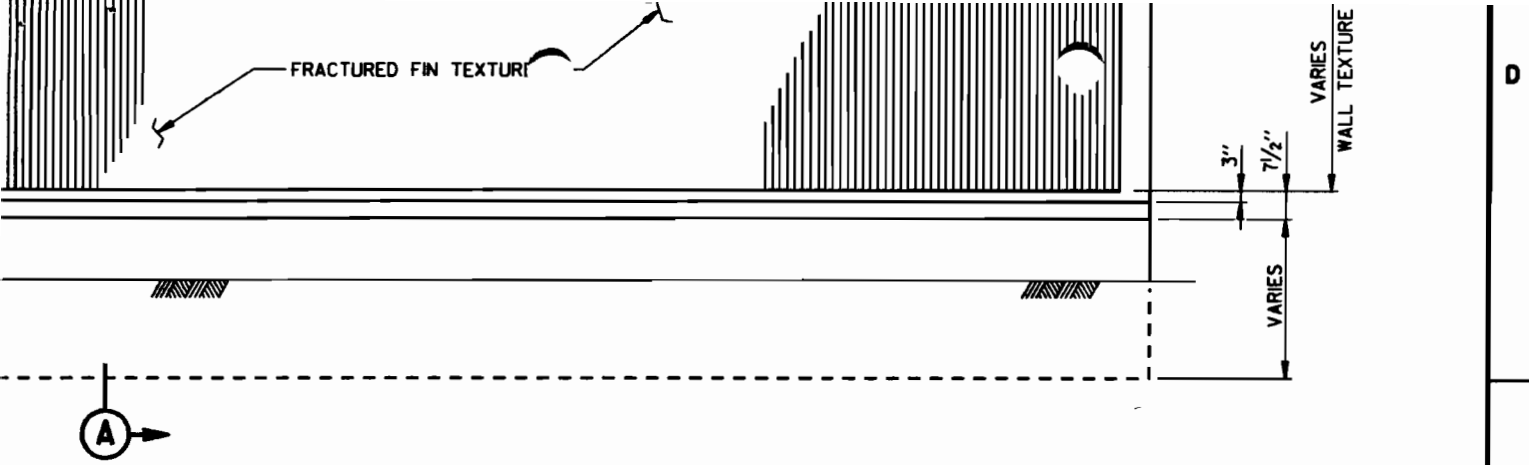
DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-7585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	_____	Office Symbol	_____
Telephone No.	<u>483-6278</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>3/23/94</u>	<u>3</u>		<u>see above.</u>

REMARKS:

Suresh,

I also included one modified section. All other sections are done the same. For amendments, the title block change is the same as this one except "Mod #" becomes "amendment no. 1". You can abbreviate. Right now we are checking on the status of the job to see if we will just substitute or if an amendment needs to be done. I'll let you know as soon as I find out.

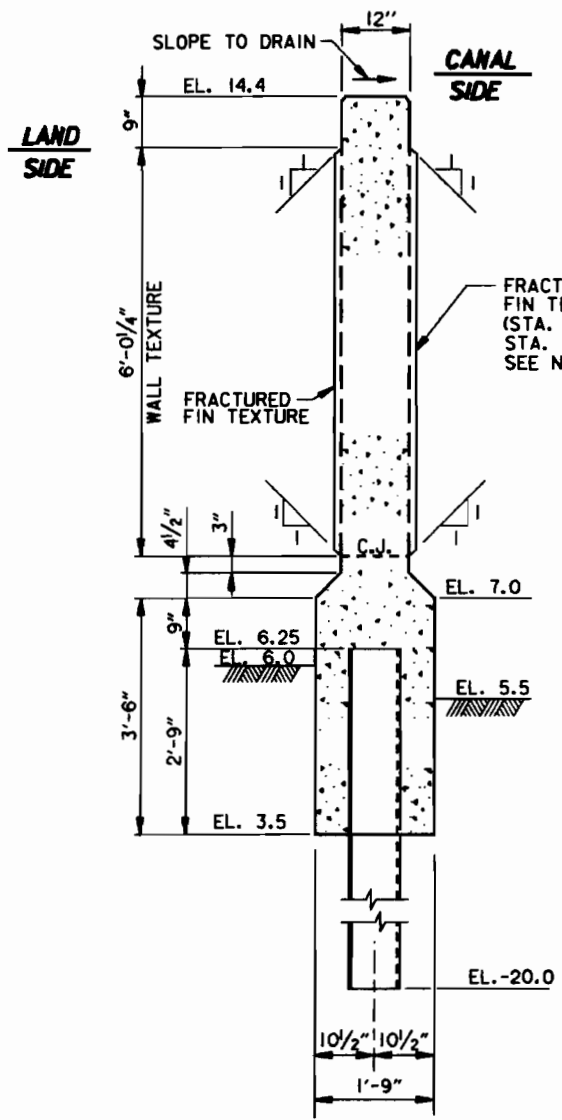
Angela



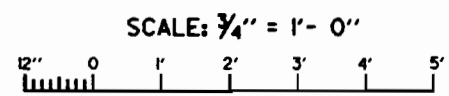
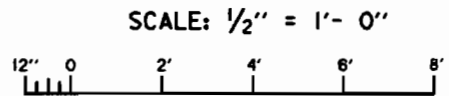
FINISH

NOTES:

1. FOR GENERAL NOTES, SEE DWG. 2.
2. FOR CONCRETE NOTES, SEE DWG. 2.
3. ALL FORM TIE BOLTS SHALL BE PLACED IN THE VALLEY OF THE FRACTURED FIN TEXTURE (I.E., BETWEEN ADJACENT FINES).
4. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE OCCURRENCE OF BUTT JOINTS. CONTRACTOR SHALL SUBMIT, FOR PRIOR APPROVAL, DRAWINGS SHOWING THE LOCATION OF ALL BUTT JOINTS IN FORMS USED FOR CONSTRUCTION.
5. FOR TREATMENT AT EXPANSION JOINTS AND P.I.'S, SEE DWG. 26.
6. STATIONING IS ROUNDED OFF, SEE PROFILE DRAWINGS.
7. FOR TRANSITION AREAS, SEE PLANS AND PROFILES.
8. SEE DWG. 30 FOR CANAL SIDE FINISH.



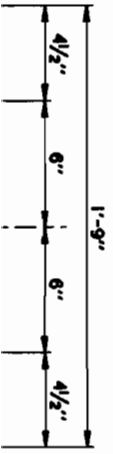
STA. 59+00 TO 68+74
SECTION A
 SCALE: 3/4" = 1'- 0"



SYMBOL	DESCRIPTION	DATE	APPROVED
▲	ADDED FRACTURED FIN AND NOTE MOD. #	3/17/94	A.L.D.
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LA. AND VICINITY HIGH LEVEL PLAN LONDON AVE. OUTFALL CANAL. PARALLEL PROTECTION PUMP STATION NO. 3 TO MIRABEAU AVE. FLOODWALL ORLEANS PARISH, LOUISIANA			
CONCRETE I-WALL EAST SIDE			
DESIGNED BY: A.L.D.	DATE:	PLOT SCALE:	PLOT DATE:

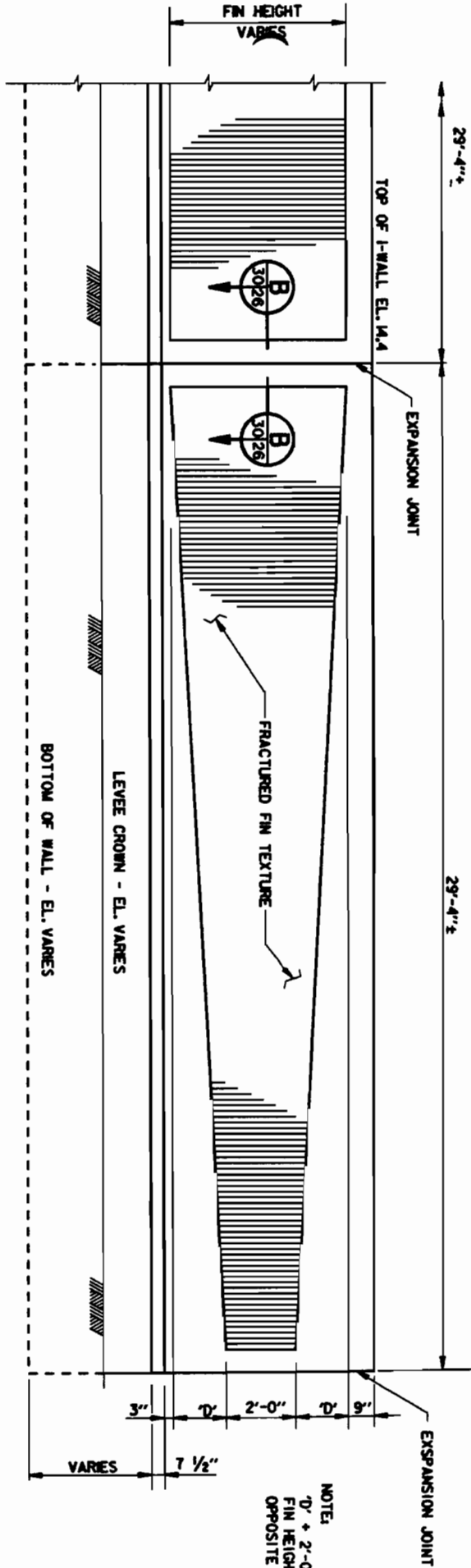
1500 151 1500 151 15.10.02 OCT 1001

THIS PLAN ACCOMPANIES
 MODIFICATION P0000
 TO CONTRACT NUMBER
 DAC129-94-C-0003



**TYPICAL I-WALL MONOLITH
 CANAL SIDE TEXTURE FINISH**

SCALE: 1/2" = 1' - 0"

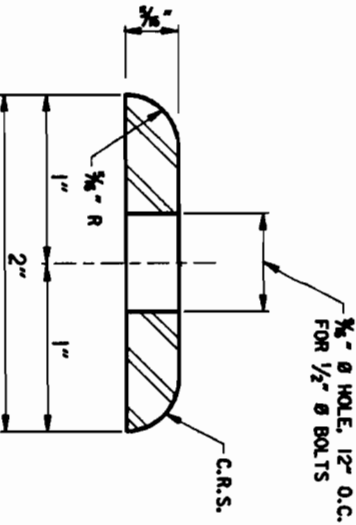


STAS. 10+75, 16+85 AND 66+84 E B/L
 STAS. 10+45, 16+35 AND 66+96 W B/L

NOTE:
 '0' + 2'-0" + '0' =
 FIN HEIGHT AT
 OPPOSITE END OF PANEL

SEAL RETAINING BAR

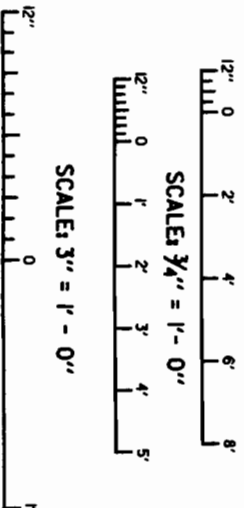
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SCALE: 1/2" = 1' - 0"

SCALE: 3/4" = 1' - 0"

SCALE: 3" = 1' - 0"



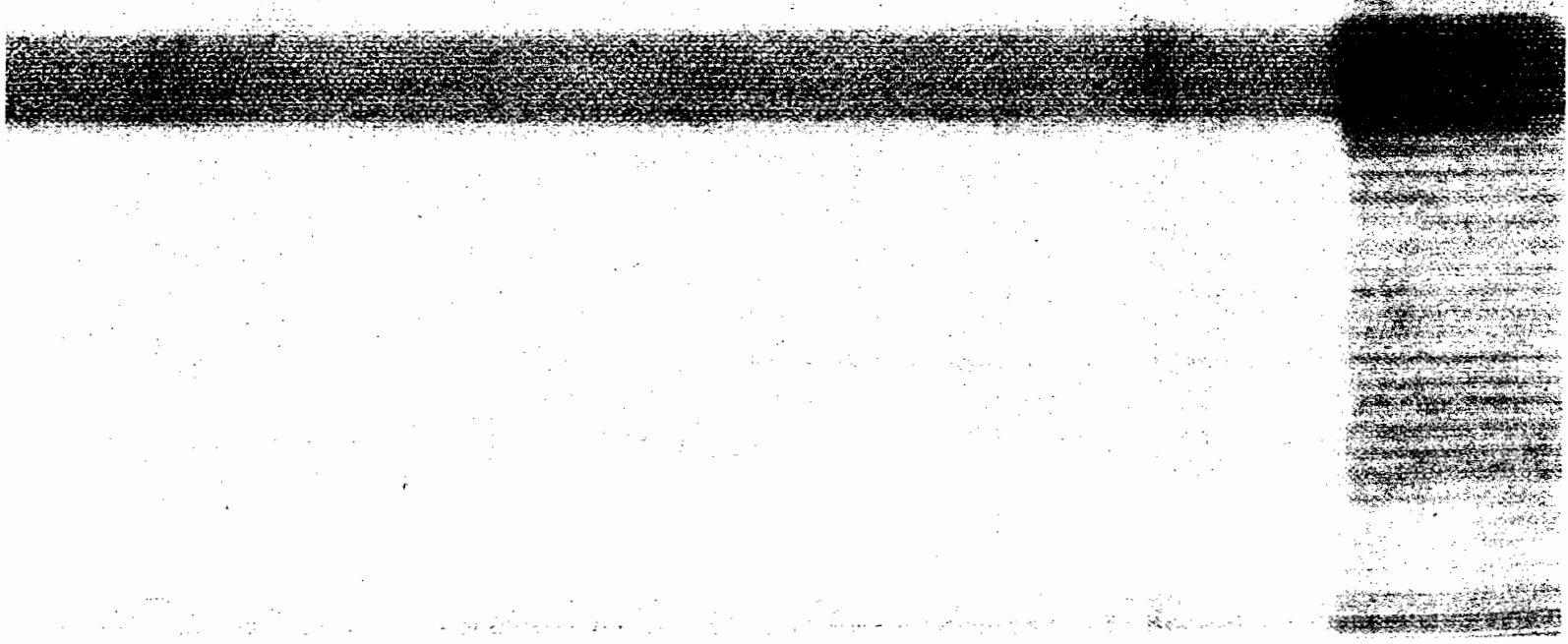
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ERRORS

1) THIS UP OR LINE FAIL 2) BERT 3) DE SCORP 4) DE FAN STRIKE 5) 000-1100





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of Engineers**

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Mike Jackson</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u>Burk-Kleinpete</u>	Office Symbol	_____
Telephone No.	<u>488-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>3/21/94</u>	<u>3</u>		<u>see above</u>

REMARKS:



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

March 15, 1994

REPLY TO
ATTENTION OF:

Engineering Division
Structural Design Branch

Stevan Spencer
Chief Engineer
Orleans Levee District
New Orleans Lakefront Airport
Suite 202, Administration Building
New Orleans, Louisiana 70126

Dear Mr. Spencer:

Please refer to the plans and specifications prepared by Burk-Kleinpeter, Incorporated for the Lake Pontchartrain, Louisiana and Vicinity, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

As discussed with you by Mr. Walter Baummy of my office on March 11, 1994, we would like Burk-Kleinpeter, Incorporated to perform the following:

1. Make necessary changes to include fractured fin finish to the canal side face of the floodwall adjacent to each bridge. The finish should begin on the first permanent monolith on each side of each bridge and extend 210 feet back. On the last monoliths furthest from each bridge, the fractured fin should taper down from full height to 2 feet high. This will make this floodwall consistent with other floodwalls in the general area.

2. Investigate the possibility of up to 2 feet of existing levee crown temporarily removed to improve accessibility for construction. This will entail stability analysis of the existing floodwall for this temporary condition. If acceptable, revise the plans and specifications to permit this as a Contractor's option. On the adjacent London Avenue floodwall contract, the Contractor opted to remove 2 feet of levee crown in order to accommodate land based construction methods. This seems to be the construction trend on the outfall canals.

3. Investigate the possibility of Cox Cable New Orleans owning any cables that may interfere with construction. We have discovered three cables on the adjacent floodwall contract subsequent to the start of construction.

Please furnish these changes no later than April 7, 1994. My staff is available to meet with Burk-Kleinpeter to discuss these issues. Please contact Mr. Walter Baumy at 862-2656 if you wish to discuss these matters.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

Copy Furnished:

Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119

Copies Furnished:

Chairman, Engineering Committee
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Mr. Robert G. Harvey, President
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Managing Director
Orleans Levee District
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

CELMN-ED
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CELMN-CD



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF.

March 16, 1994

Programs and
Project Management Division

Stevan G. Spencer, Chief Engineer
Board of Levee Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Spencer:

This is in reference to the relocations that will be accomplished by the Federal Contractor in the construction of Contract 3 on London Avenue Outfall Canal. This is all a part of the Lake Pontchartrain and Vicinity, Louisiana Hurricane Protection Project.

As relocations are a non-Federal cost, it is required that your Board furnish the funds for the relocations after the bids are opened. The funds will be disbursed to the Contractor as the relocations are accomplished.

Our current estimate of your cost is as follows:

<u>Item</u>	<u>Estimated Cost</u>
Remove pedestrian Bridges at Fillmore Ave. and R. E. Lee Blvd.	\$ 6,600
Relocation of S&WB Feeder Cables	528,000
Replacement of S&WB Fence	<u>4,200</u>
Total	\$ 538,800

The actual amount required to be contributed by your Board will be determined after the bids are opened in mid April. We will then notify you of the proper amount and you will send us the contributed funds in 5 working days.

If you have any questions, please contact Walter D. Judlin at (504) 862-2626.

Sincerely,

Terral J. Broussard
Senior Project Manager

3. Investigate the possibility of Cox Cable New Orleans owning any cables that may interfere with construction. We have discovered three cables on the adjacent floodwall contract subsequent to the start of construction.

Please furnish these changes no later than April 7, 1994. My staff is available to meet with Burk-Kleinpeter to discuss these issues. Please contact Mr. Walter Baumy at 862-2656 if you wish to discuss these matters.

Sincerely,

W. Eugene Tickner
Chief, Engineering Division

Copy Furnished:

Michael Jackson
Vice-President
Burk-Kleinpeter, Incorporated
4176 Canal Street
New Orleans, Louisiana 70119

CE
GUGGENHEIMER *148*
CELMN-ED-DD
JA
GUIZERIX *16*
CELMN-ED-D
W
TICKNER
CELMN-ED



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

March 15, 1994

REPLY TO
ATTENTION OF:

Engineering Division
Structural Design Branch

Stevan Spencer
Chief Engineer
Orleans Levee District
New Orleans Lakefront Airport
Suite 202, Administration Building
New Orleans, Louisiana 70126

Dear Mr. Spencer:

Please refer to the plans and specifications prepared by Burk-Kleinpeter, Incorporated for the Lake Pontchartrain, Louisiana and Vicinity, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Robert E. Lee Boulevard, East Bank, Mirabeau Avenue to Leon C. Simon Boulevard, West Bank.

As discussed with you by Mr. Walter Baummy of my office on March 11, 1994, we would like Burk-Kleinpeter, Incorporated to perform the following:

1. Make necessary changes to include fractured fin finish to the canal side face of the floodwall adjacent to each bridge. The finish should begin on the first permanent monolith on each side of each bridge and extend 210 feet back. On the last monoliths furthest from each bridge, the fractured fin should taper down from full height to 2 feet high. This will make this floodwall consistent with other floodwalls in the general area.

2. Investigate the possibility of up to 2 feet of existing levee crown temporarily removed to improve accessibility for construction. This will entail stability analysis of the existing floodwall for this temporary condition. If acceptable, revise the plans and specifications to permit this as a Contractor's option. On the adjacent London Avenue floodwall contract, the Contractor opted to remove 2 feet of levee crown in order to accommodate land based construction methods. This seems to be the construction trend on the outfall canals.

CELMN-ED-DS

22 Feb 94

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan,
London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to
Leon C. Simon Blvd., East Side, and Mirabeau Ave. to Robert E. Lee
Blvd., West Side, Orleans Parish, LA ED-94-144

CF:

Ofc of Counsel

C/Stru Des Sec

C/Cost Engr Br

C/Operation & Readiness Div

A/E, New Orleans A/O

C/CELMN-CD-C

C/Environmental Analysis Br, Plng Div

C/Real Estate Div

C/CELMN-PP

C/Engr Cntl Br

C/CELMN-PP-P

MEMORANDUM FOR C/Contracting Div

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Side, and Mirabeau Ave. to Robert E. Lee Blvd., West Side, Orleans Parish, LA ED-94-144

1. Subject technical specifications approved by Commander, NOD will be hand carried to Contracting Div on or about 28 Feb 94. Contract drawings will be furnished by Engr Div upon request.
2. You are requested to check specifications for compliance with procurement regulations and prepare the specifications for advertising and advertise for a period of 30 days. Award of this contract is scheduled for May 94.
3. Office of Counsel will furnish the applicable wage determination for this procurement.
4. Cost Engr Br of Engr Div will prepare the Government estimate.
5. Total estimated cost of payments to the Contractor is approximately \$5,900,000. Of this amount the sum of \$2,500,000 will be available for award in FY-94. (Fill in this amount in the Special Clause entitled "CONTINUING CONTRACTS".)
6. The work is being included in FY-94 Detailed Project Schedule (PB-2A) for "Lake Pontchartrain & Vic." (CYP) BEC00, page 50, line 11886 dated 1 Jan 94.
7. Reproduction, labor, and advertising are chargeable to account no. BEC21 111R LN 0LML.
8. The work is chargeable to appropriation 96X3122. The contract cost account number for this work is BEC21 111R LN 0LML, (284), (VD).
9. Rights to technical data/software were considered for this action. It was determined that rights were not applicable for this contract.

W. EUGENE TICKNER
Chief, Engineering Division

See page 2 for copies furnished.

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

LETTER OF TRANSMITTAL

Job no.

8	4	0	7
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0	8
---	---

 Date 3/2/94

Job Title LONDON AVE. CANAL FLOODWALLS

To: U.S. ARMY CORPS OF ENGINEERS re: LONDON AVE. CANAL
Room No. 309 CONTRACT NO. 3
BEI 8407-08

attn. Mr. Walter Baumy, P.E.

From: Suresh Shah

Sending: attached under separate cover via _____

Description:	copies	date	no.	description
				<u>one diskette containing</u>
				<u>two files (Integrgraph formatted)</u>
				<u>(4029540 & 4029541)</u>

- as requested approved as submitted _____ for your files
- for your use approved as noted
- for approval returned for corrections
- for review returned after loan to us
- other _____

Remarks: Please void above files from the diskettes
sent to you on 2/11/94 and use these revised files.

Signature Suresh Shah copies to: JWG, File 8408-08

CELMN-ED-DD

2 Mar 94

MEMORANDUM FOR CELMN-PP

SUBJECT: Lake Pontchartrain, LA & Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Side, Mirabeau Ave. to Robert E. Lee Blvd., West Side Floodwall, Orleans Parish, LA

1. The subject project includes relocation work that will be accomplished by Federal contract. Estimated cost for this work is \$538,800, see enclosed tabulation.
2. Upon bid opening, we will update the estimate based upon contract bid prices.
3. Point of contact is Angela DeSoto, ext. 2733.

Encl

W. EUGENE TICKNER
Chief, Engineering Division

cy
GUGGENHEIMER ⁰⁰
CELMN-ED-DD *kb*
BT
GUIZERIX ^{3/2}
CELMN-ED-D
TICKNER
CELMN-ED

LAKE PONTCHARTRAIN HURRICANE PROTECTION PROJECT
HIGH LEVEL PLAN
ESTIMATED RELOCATION COSTS

<u>Item</u>	<u>Estimated Cost</u>
Remove Pedestrian Bridges at Filmore Ave. & Robert E. Lee Blvd. - 4 pile bents - All timber construction	\$6,600
Relocation of S&WB electric feeder cables - Construct splices - 8 EA - Temporarily relocate cables - 5800 LF - Permanently relocate cables - 5800 LF (3 conductor, steel armored, 400 MCM copper, rubber insulated, lead covered power cable rated 15kV)	\$528,000
Replacement of S&WB Fence - Construct new chain link fence - 300 LF - Construct new chain link gate - 1 EA	\$4,200
TOTAL	<hr/> \$538,800

FILE

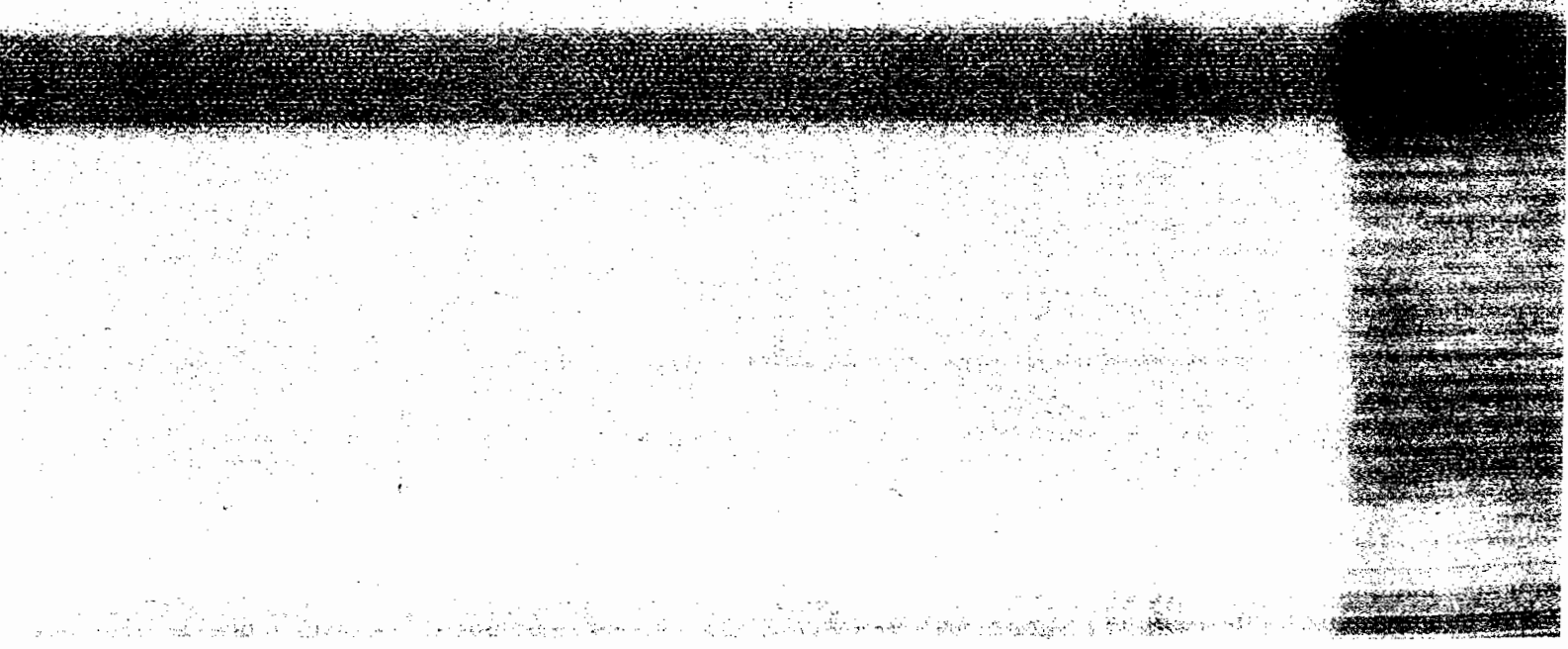
THE FOLLOWING INFORMATION IS

FILED FOR THE YEAR 1994

1994

ERRORS

1) MISSING OF THE FILE 2) ... 3) ... 4) ...





FACSIMILE HEADER SHEET

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

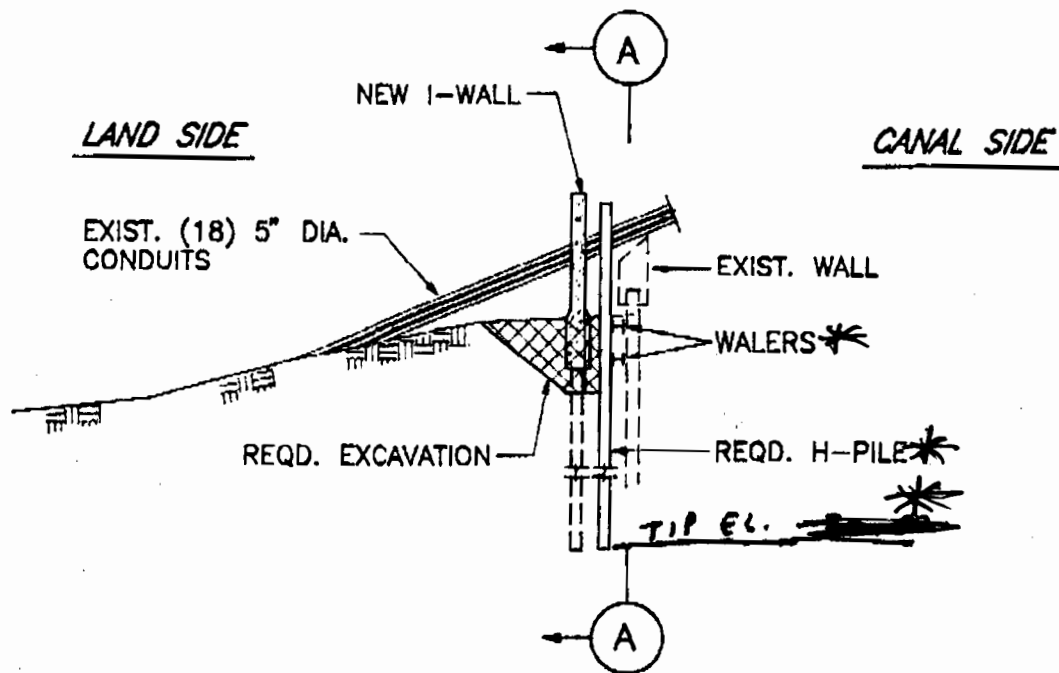
**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No.	<u>483-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u>Burk</u>	Office Symbol	<u>ED-DD</u>
Telephone No.	<u>483-6278</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>8/2/94</u>	<u>3</u>		<u>see above</u>

REMARKS:

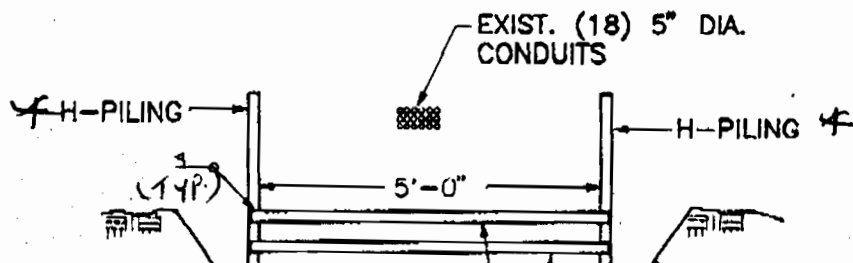
Here is your info.

Angela

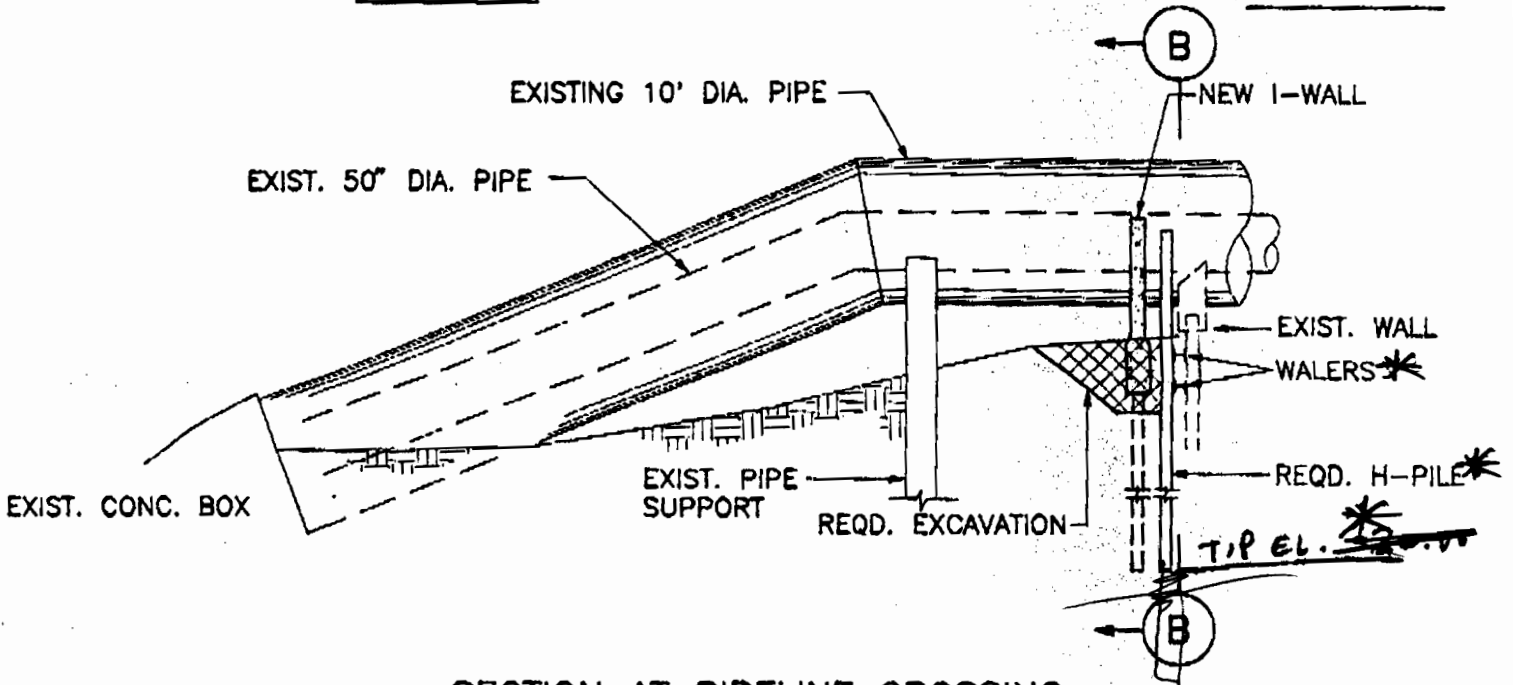
SECTION AT TELEPHONE CONDUIT

SCALE: 1" = 10'



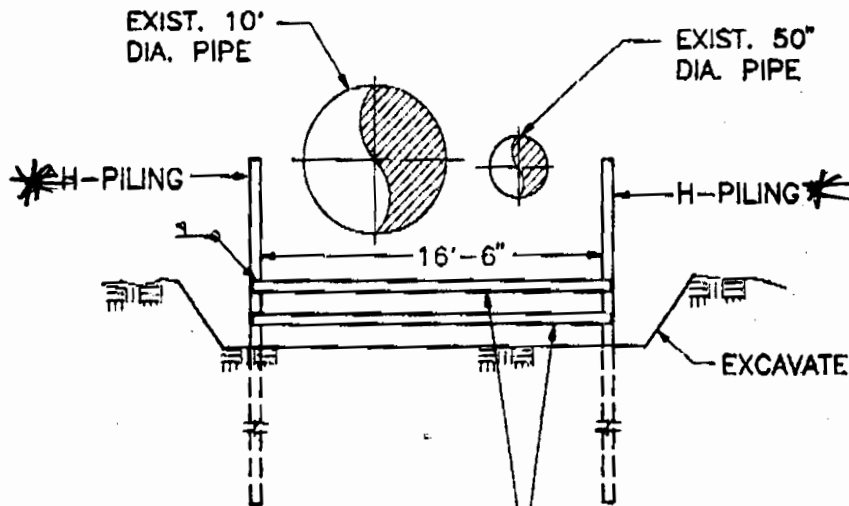
LAND SIDE

CANAL SIDE



SECTION AT PIPELINE CROSSING

SCALE: 1" = 10'



* CONTRACTOR SHALL FIELD VERIFY DIMENSIONS REQD. ~~SIZE~~ ~~WALERS~~ TO MATCH H-PILE TO EXIST. ~~SHEET PILE SPACE.~~

Add note

* REQD. STEEL WIDE FLANGE WALERS AT 1/3 POINTS OF EXCAVATION *

SECTION B-B

SCALE: 1" = 10'

The Contractor shall design the H-piles and walers to provide temporary protection in accordance with the requirements of the specifications. Tip elevations, member size and number of ~~me~~ piles and walers shall be determined by the Contractor and his design submitted for approval.

BURK-KLEINPETER, INC.
Engineers, Architects, Planners, Environmental Scientists
1176 Canal Street, New Orleans, Louisiana 70119
(504) 486-5001 FAX 488-1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job no.

2	4	0	7
---	---	---	---

0	8
---	---

 Date 2/25/94

Job Title CONCRETE AVE CANAL

Sending to: (FAX No. 504-2-1585) MR WALTER BAUMY
OR MR ANGELA IN SOTO

Message: Please review these details for the temporary bracing to protect existing piling during construction. Once I have your comments, then we cannot then send you the final plot files at the revised design. Please call me at 483-6278 or fax me your response. Thank you.
Shel Shah

Burk-Kleinpeter, Inc.
New Orleans, Louisiana
FAX - 504-488-1714

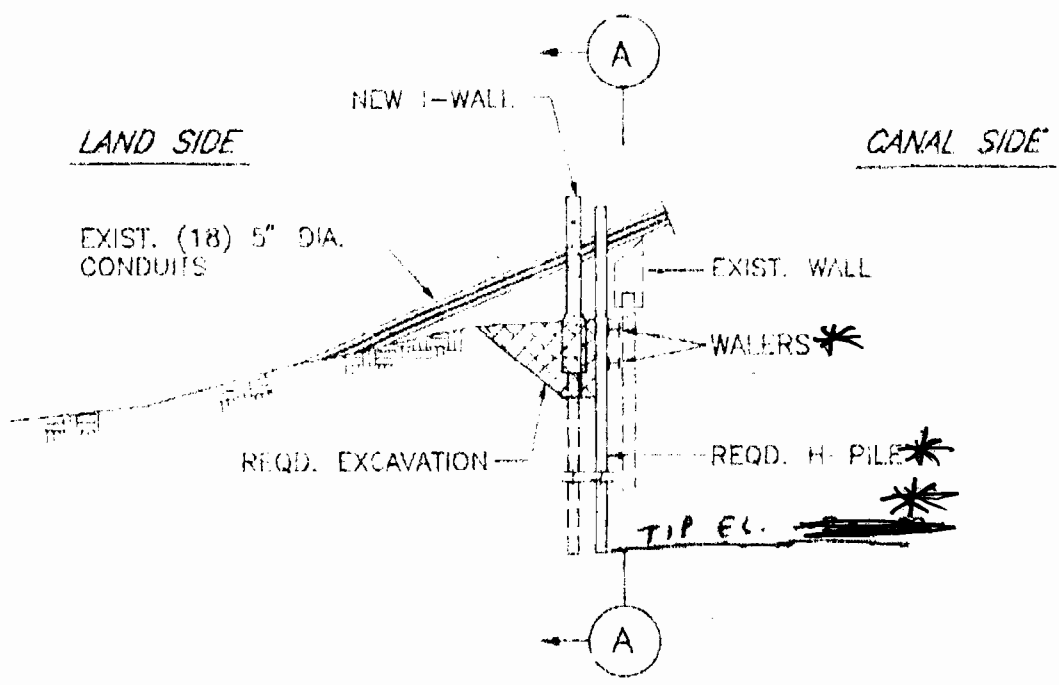
3 Total number of pages in this transmittal (including this cover sheet)

Copy Two, file.

DE

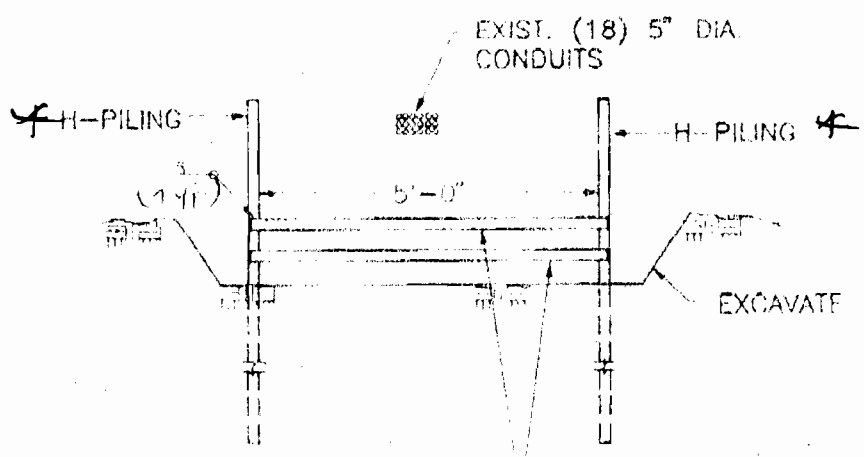
ALI

-PILE



SECTION AT TELEPHONE CONDUIT

SCALE: 1" = 10'



CONTRACTOR SHALL FIELD VERIFY
 DIMENSIONS REQD. ~~SIZE WALERS~~
 TO ~~MATCH H-PILE TO EXIST.~~
~~SHEET PILE SPACE.~~

REQD. STEEL WIDE FLANGE *
 WALERS AT 1/3 POINTS
 OF EXCAVATION

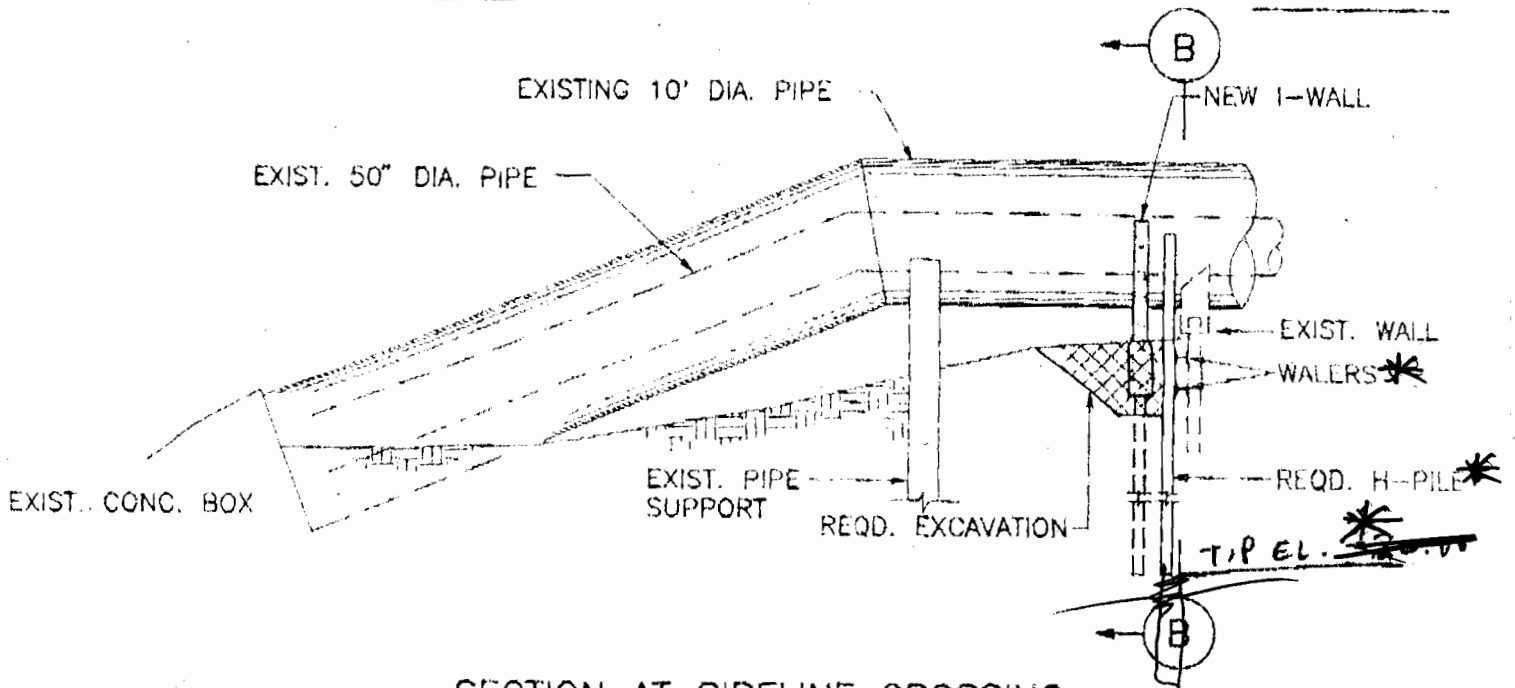
Add note

SECTION A-A

N.T.S.

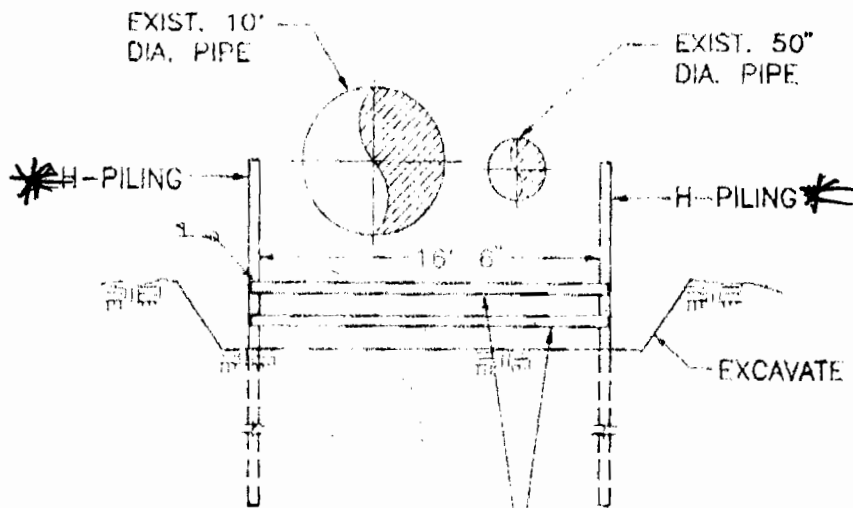
LAND SIDE

CANAL SIDE



SECTION AT PIPELINE CROSSING

SCALE: 1"=10'



* CONTRACTOR SHALL FIELD VERIFY DIMENSIONS REQD. ~~SIZE~~ ~~WALERS~~ TO MATCH H-PILE TO EXIST. SHEET PILE SPACE.

REQD. STEEL WIDE FLANGE ~~WALERS~~ AT 1/3 POINTS OF EXCAVATION *

Add note

SECTION B-B

SCALE: 1"=10'

ROUTING AND TRANSMITTAL SLIP

Date

2-25/94

TO: (Name, office symbol, room number, building, Agency/Post)

Initials

Date

1. Robert Guizerix

RG

2/25

2. Gene Tickner

GT

2/25

3. Col. Duffley

4.

5.

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	<input checked="" type="checkbox"/> Signature
Coordination	Justify	

REMARKS

Please call when signed.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Angela De Soto, ED-DD

Room No.—Bldg.

309

Phone No.

2733

5041-102

★ U.S. GPO: 1978-261-647/3310


OPTIONAL FORM 41 (Rev. 7-76)
 Prescribed by GSA
 FPMR (41 CFR) 101-11.206

MEMORANDUM FOR C/Contracting Div

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Side, and Mirabeau Ave. to Robert E. Lee Blvd., West Side, Orleans Parish, LA ED-94-144

I certify that all appropriate biddability, constructibility, and operability comments received and reviewed by this office by 22 Feb 94 have been incorporated into the bid package. Feedback has been provided to reviewers for all non-incorporated comments. No significant changes have been made since the local review.

W. EUGENE TICKNER
Chief, Engineering Division


FEB 25 1994

RICHARD HILL
Chief, Construction Division

CF:
C/Stru Des Sec
C/Const Div

17 Feb 94 (~~JAN 92~~)

MEMORANDUM FOR CELMN-ED-DS

SUBJECT: (Please give complete job title.) Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave to Robert E. Lee Blvd., West Side, Mirabeau Ave to Leon C. Simon Blvd., East Side, Orleans Parish, LA

Please initiate the following action on the subject job, The estimated cost is \$ 5,095,000.

- () Review and prepare attached specifications for review. _____ copies are required for review. The P&S cost account number is _____. Please furnish the required copies by: _____.
- (X) Forward to Office of Counsel for legal review. The environmental impact statement (EIS) filed with CEQ on 17 Jan 95. (If no such date exists, please advise Specifications as to the status of the EIS).
- () Submit to DE for approval. The estimated contract cost is less than \$2.0 million.
- (X) All reviews have been accomplished, and all comments generated in that review have been accommodated, and copies of the required responses have been sent to Construction Division. Please obtain constructibility review certification.
 - (X) a. No significant changes have been made since the local review.
 - () b. The significant changes to the plans and specifications since local review are summarized as follows:
- () Obtain applicable wage rates. The estimated date of advertising is _____ and it is proposed to advertise for ____ days. **The work consists of:

**For dredging contracts, indicate whether dike construction is required.

CELMN-ED-D
SUBJECT:

- () Request Contracting Div to issue the Preinvitation Notice (Fill out items 1 Thru 6, and 9 below).
- (X) Forward to Contracting Division for advertising (Fill out items 2, 4, 6 Thru 11 below).
1. Description of Work: (Fill out above)
 2. It is requested to advertise on 11 Mar 94, proposed to advertise for 30 days, and award the contract on 11 May 94.
 3. The time needed to complete the work is 540 calendar days.
 4. The total estimated cost is \$5,895,000. The amount of \$2,500,000 is programmed for payment in the current fiscal year.
 5. There are drawings included in this specification.
 6. Cost account numbers are as follows:
 - a. P&S account number is BEC21 30J9 L10 LML.
 - b. Contracting Division activities account number is SAME.
 - c. Others(please list):
 7. The work is chargeable to appropriation 96 x 3122, Const, Gen.
 8. The contract cost account number is BEC211112 LNO LML.
 9. The work is included in the FY-94 Detailed Project Schedule (PB-2A) for "Lake Pontchartrain", (CYP) BEC00, page50, line date 1 Jan 94.
 - **9. The work is being included in the FY- , TABULATION II Schedule for " ", Division Priority .
 10. A copy of NOD submittal and subsequent CELMV approval for this project is needed. (Subject technical specifications were approved by Division Engineer, CELMV, on 1 Oct 94.)
(Item #10 information needed only for advertising)
 11. The programmer for this job is Mr./Ms. Ritter, ext. 1609.

**Use for operation and maintenance contracts.

Point of Contact is Angela DeSoto (2733).

CARL R. GUGGENHEIMER
Chief, Structural
Design Section

2/12/94

MEMO FOR FILE, Contract 3, London Ave

Discussed siphon & telephone crossings on the west side of the canal with Suresh Shah of Burk-Kleinpeter. Requested:

- a. Cross Section with ~~util~~ utilities, both floodwalls, conceptual bracing (cofferdam), excavation & fill lines. Excavation can be designed by the contractor.
- b. List or reference design criteria.

Suresh said they would do this and provide us the revised drawings.

Walter Brauning
Supr. Steel Edge

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

LETTER OF TRANSMITTAL

Job no. 8407 08 Date FEBRUARY 11, 1994
Job Title LONDON Ave. Outfall Canal
To: COMPS OF ENGINEERS re: LONDON Ave. CANAL
New Orleans District CONTRACT No. 3
PO Box 60267 BKI Job # 8407
New Orleans LA
70160-0267
attn. ANGELA DeSoto
From: SURESH SAATH
Sending: attached under separate cover via _____

Description:	copies	date	no.	description
	<u>1</u>	<u>2/16</u>	<u>1</u>	<u>Submittal Register</u> <u>Hard Copy</u>

Walter & Angela:
I truly enjoyed
working with you &
everybody at COE.

- as requested
- approved as submitted
- for your use
- approved as noted
- for approval
- returned for corrections
- for review
- returned after loan to us
- other _____

Thanks a bunch for
everything & all the
help! much
appreciated.
Angela: see you
on 2/26 T Suresh

Remarks: _____
Signature Gally Bowers copies to: MOI, JWB, SAS, file

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

LETTER OF TRANSMITTAL

Job no. 8407 08 Date FEBRUARY 11, 1994

Job Title LONDON Ave. outfall canal

To: CORPS OF ENGINEERS re: LONDON Ave. CANAL
New Orleans District Contract No. 3
PO Box 60267 BKI Job # 8407
New Orleans LA
70160-0267

attn. ANGELA DeSoto

From: SURESH SAHAI

Sending: attached under separate cover via _____

Description:	copies	date	no.	description
	<u>1</u>	<u>2/10</u>	<u>1</u>	<u>submittal Register</u>
				<u>Hard copy</u>

- as requested
- approved as submitted
- _____ for your files
- for your use
- approved as noted
- for approval
- returned for corrections
- for review
- returned after loan to us
- other _____

Remarks: _____

Signature Gally Bowers copies to: MOS, JWB, SIS, file

CHAIRMAN OF THE BOARD
WM. R. "BIFF" BURK, III, PE

PRESIDENT
GEORGE C. KLEINPETER, JR., PE

SENIOR VICE PRESIDENTS
JAMES W. ARMBRUSTER
MICHAEL G. JACKSON, PE

WILLIAM R. BURK, JR. 1912-1986

BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS

4178 CANAL STREET
NEW ORLEANS, LOUISIANA 70119-5994

TELEPHONE (504) 486-5901

FAX (504) 486-1714

P. O. BOX 19087-NEW ORLEANS, LA. 70179

OVER 80 YEARS OF SERVICE

VICE PRESIDENTS

JOSEPH H. PRANGE, PE
BLAISE S. D'ANTONI, JR., PE
BRUCE L. BADON, AICP
OM P. DIXIT, PE
DALE R. JENSEN, PE
J. W. "BILL" GIARDINA, JR., PE

ENGINEERING ASSOCIATES

SURESH I. SHAH, PE
DANIEL S. CALUDA, JR.
LLOYD J. FITZPATRICK, JR.
HENRY M. PICARD, III, PE

PLANNING ASSOCIATES

PAUL L. WAIDHAS
RANDOLPH C. CARMICHAEL

ARCHITECTURE ASSOCIATE

BARRY SCAIRONO, AIA

February 11, 1994

Mr. Steven Spencer
Board of Commissioners of the
Orleans Levee Board
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

RE: London Avenue Canal
Contract No. 3
BKI 8407-08

Dear Steve:

Transmitted herewith are the final Autocad formatted diskettes (15) and estimated costs for the above referenced project. We have incorporated into these plans all of the final comments which the Corps of Engineers have provided. These diskettes are for your files, the plans and specifications will come to you through the Corps of Engineers when they are ready to advertise.

By copy of this letter, we are sending the Corps of Engineers (18) Intergraph formatted diskettes, 8 pinbar negatives of original photos, 4 original aerial photos, and the cost estimates. Specifications for this contract have been delivered to the Corps of Engineers on February 9, 1994. Also, we are delivering to the Corps of Engineers one original of each (Index, Location and Vicinity Map) which is signed and one original of the manual drawings (dwg nos. 52-55 & 58-62) which were pre-approved as manual drawings.

Sincerely,

BURK-KLEINPETER, INC.
Engineers, Architects, Planners,
Environmental Scientists



J. W. "Bill" Giardina, Jr., P.E.
Vice President

JWG

cc: Mr. Walter Baummy, U. S. Army Corps of Engineers (w/attachments)

SUBMITTAL REGISTER
(ER 415-1-10)

TITLE AND LOCATION		CONTRACTOR													CONTRACT NO.	SPECIFICATION SECTION								
TRANS-MITTAL NUMBER	ITEM NUMBER	SPECIFICATION PARAGRAPH NUMBER	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION			REMARKS	
				DATA	DRAWINGS	INSTRUCTIONS	SCHEDULES	STATEMENTS	REPORTS	CERTIFICATES	SAMPLES	RECORDS	INFORMATION ONLY	GOVERNMENT APPROVED	REVIEWER	SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	DATE	SUBMIT TO GOVERNMENT	CODE		DATE
a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.	p.	q.	r.	s.	t.	u.	v.	w.	x.	y.
	1	C2A-7	Environmental Pollution Control and Disposal of Debris	X																				
	2	C2B-3	Clearing & Grubbing	X																				
	3	C2B-6.2	Disposal Permission								X													
	4	C2C-3.2	Compaction Equipment	X																				
	5	C2C-4.5	Shoring Plan	X																				
	6	C2D-5.1	Fertilizer Certificates							X	X													
	7	C2D-6.1	Fertilizer Invoices								X													
	8	C2D-6.2	Seed									X												
	9	C2E-2.1	Compliance Surveys	X	X																			
	10	C2F-3.1	Security Chain-Link Fence	X																				
	11	C2F-4.1	Security Fence	X																				
	12	C2G-5.1	Pile Driving Equipment	X																				
	13	C2G-5.2	Sheet Pile Shop Dwg.	X																				
	14	C2G-5.3	Materials Test Certificates								X													
	15	C2G-5.4	Driving Records									X												
	16	C2G-5.5	Details of Telephone Cables, 10" Siphon, and 50" Discharge Pipe	X	X																			
	17	C2G-8.1.1.3	Shop Dwg. of Alternate Piling	X																				
	18	C2G-8.1.1.3	Layout of Alternate Piling	X	X																			
	19	C2G-8.2	Rolled Corners	X	X																			
	20	C2H-4.1	Temporary Cofferdams	X	X																			
	21	C2H-5.2 & H-31	Breach Closures	X	X																			
	22	C2I-4.1	Utility Schedule																					
	23	C2I-4.2	Utility Shop Dwg.	X																				
	24	C2J-3.1	Demolition Plan	X	X							X												

TITLE AND LOCATION		SUBMITTAL REGISTER (ER 415-1-10)															CONTRACT NO.									
TRANS-MITTAL NUMBER	ITEM NUMBER	SPECIFICATION PARAGRAPH NUMBER	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CLASSIFICATION			CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION			REMARKS
				DATA	DRAWINGS	INSTRUCTIONS	SCHEMES	STATEMENTS	REPORTS	CERTIFICATES	SAMPLES	RECORDS	INFORMATION ONLY	GOVERNMENT APPROVED	REVIEWER	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	DATE	SUBMIT TO GOVERNMENT	CODE	DATE	CODE	DATE		
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y		
	25	C2K-5.1.3	Course Design Mix	X																						
	26	C3A-4.1	Formwork Shop Drawings	X	X																					
	27	C3A-4.2	Manufacturer's Literature	X																						
	28	C3A-4.3	Form Liner								X															
	29	C3A-5	Formwork Design	X	X																					
	30	C3B-5.1	Shop Drawings	X																						
	31	C3B-5.2	Test Reports						X																	
	32	C3B-5.3	Disposition Records								X															
	33	C3B-7.3	Splicing	X																						
	34	C3C-5.1	Expansion Joint Test Reports						X																	
	35	C3C-5.2	Expansion Joint Samples								X															
	36	C3D-5.1.1	Concrete Mixture Proportions	X																						
	37	C3D-5.1.2	Cement & Pozzolan	X						X																
	38	C3D-5.1.4	Non-Shrink Grout Plan	X	X																					
	39	C3D-5.1.5	Aggregates	X																						
	40	C3D-5.1.6	Water												X											
	41	C3D-5.2	Manufacturer's Certificate											X												
	42	C3D-5.3.1	Batch Print	X																						
	43	C3D-5.3.2	Concrete Mixers							X																
	44	C3D-5.3.3	Conveying							X																
	45	C3D-5.3.4	Placing							X																
	46	C3D-5.3.5	Joint Cleanup							X																

SUBMITTAL REGISTER
(ER 415-1-10)

TITLE AND LOCATION		CONTRACTOR													CONTRACT NO.	SPECIFICATION SECTION										
TRANS-MITTAL NUMBER	ITEM NUMBER	SPECIFICATION PARAGRAPH NUMBER	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CLASSIFICATION			CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION			REMARKS
				DATA	DRAWINGS	INSTRUCTIONS	SCHEDULES	STATEMENTS	REPORTS	CERTIFICATES	SAMPLES	RECORDS	INFORMATION ONLY	GOVERNMENT APPROVED	REVIEWER	SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	DATE	SUBMIT TO GOVERNMENT	CODE	DATE	CODE	DATE	
a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.	p.	q.	r.	s.	t.	u.	v.	w.	x.	y.		
	47	C3D-5.3.6	Curing				X																			
	48	C3D-5.3.7	Cold-Weather Requirements				X							X												
	49	C3D-5.3.8	Hot-Weather Requirements				X							X												
	50	C3D-15.2.1	Fine Aggregate							X																
	51	C3D-15.2.2	Coarse Aggregate							X																
	52	C3D-15.2.3	Deleterious Substances							X																
	53	C3D-15.2.4	Scales							X																
	54	C3D-15.2.5	Batch-Paint Control							X																
	55	C3D-15.2.6	Concrete							X																
	56	C3D-15.2.7	Preparation for Placing							X																
	57	C3D-15.2.8	Placing							X																
	58	C3D-15.2.9	Vibrators							X																
	59	C3D-15.2.10	Curing							X																
	60	C3D-15.2.11	Protection																							
	61	C3D-15.2.12	Mixer Uniformity							X																
	62	C5A-3.1	Shop Dwg.				X	X																		
	63	C5A-3.2	Manufacturer's Certificate											X												
	64	C5A-5.1	Settlement Reference Bolts				X																			
	65	C5B-3.1	Tests of Materials							X																
	66	C5B-4.1	Shop Dwg.				X																			
	67	C5B-4.2	Lists of Materials							X																
	68	C5B-4.3	Welding Procedures							X																
	69	C5B-4.4	Material Certificates											X												

TITLE AND LOCATION		SUBMITTAL REGISTER (ER 415-1-10)															CONTRACT NO.								
TRANS-MITTAL NUMBER	ITEM NUMBER	SPECIFICATION PARAGRAPH NUMBER	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CLASSIFICATION			CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION		REMARKS
				DATA	DRAWINGS	INSTRUCTIONS	SCHEDULES	STATEMENTS	REPORTS	CERTIFICATES	SAMPLES	RECORDS	INFORMATION ONLY	GOVERNMENT APPROVED	REVIEWER	SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	DATE	SUBMIT TO GOVERNMENT	CODE	DATE		
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	
	70	C5B-8	Castings		X																				
	71	C5B-10.1.3	Welding Schedule			X																			
	72	C5B-10.1.4	Welder Qualifications					X																	
	73	C5B-10.1.7.4	Welding Repair Plan	X	X																				
	74	C16B-6.1	UL Publications				X																		
	75	C16B-6.3	Shop Dwg.	X	X																				
	76	C16B-12.1	Medium Voltage Cable	X																					
	77	C16B-27.8	Splicer Information					X																	
	78	H-15	Certificates of Compliance							X															
	79	H-22	Utility Owner's Notification								X														
	80	H-25	Aggregate Sources						X																
	81	H-27	Stone Sources							X															
	82	H-30	Traffic Control	X	X																				
	83	H-32	Coordination of Work										X												
	84	H-33	Order of Work	X	X																				

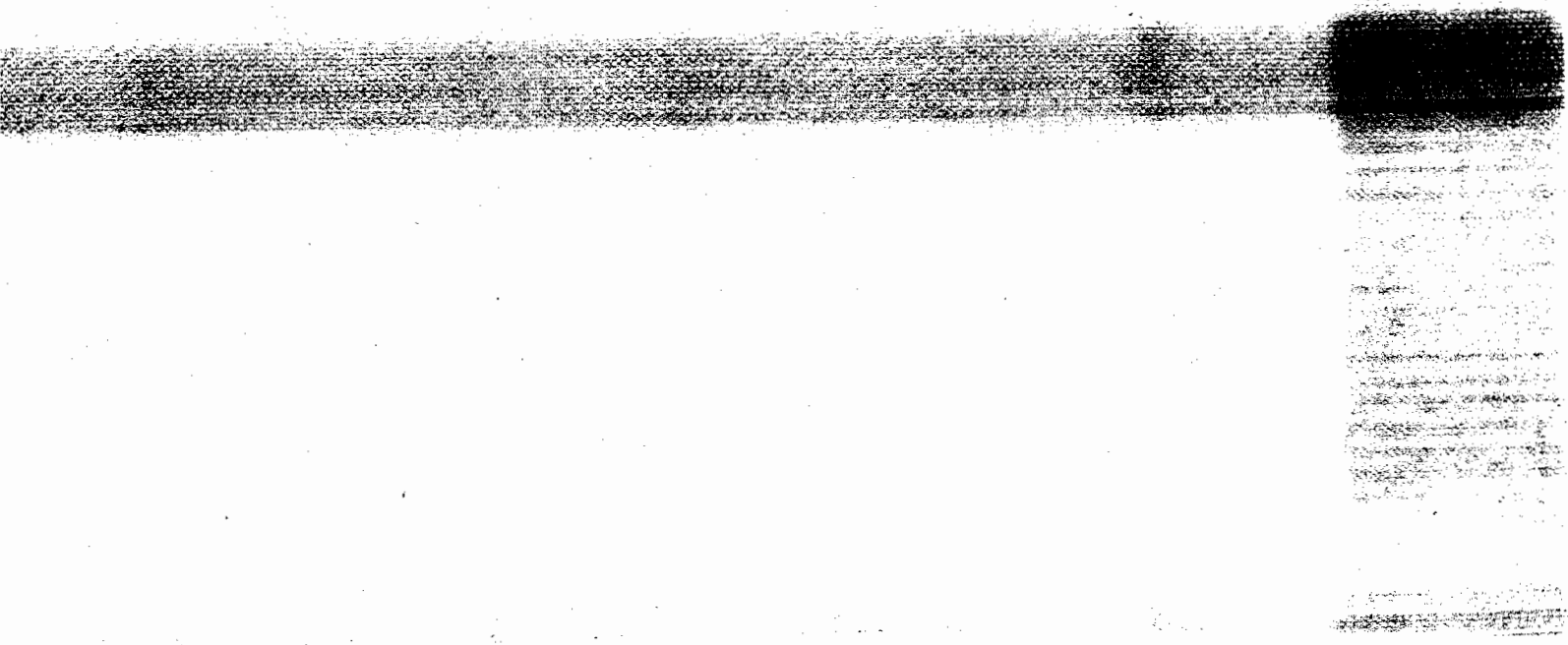
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THE FOLLOWING FILE(S) ERASED:

FILE	FILE TYPE	OPTION	TEL. NO.	PKT	SUBST
014	TRANSMISSION		9-8991714	00	01

ERRORS

- 1) HANG UP OR LINE FAIL
- 2) BUSY
- 3) NO ANSWER
- 4) NO AVAILABLE CARRIER





FACSIMILE HEADER SHEET

U.S. ARMY CORPS OF ENGINEERS

NEW ORLEANS DISTRICT

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

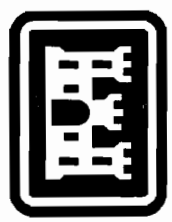
US Army Corps of Engineers

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u></u>	Office Symbol	<u>ED-DD</u>
Telephone No.	<u>486-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>2/9/94</u>	<u>2</u>		<u>see above</u>

REMARKS:

Here is the little block.
Angela

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			



U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY:	X	APPROVED BY:		CADD FILE:	PSAEI.DGN
DRAWN BY:	X	CHIEF, DESIGN BRANCH		PLOT DATE:	PLOT SCALE:
CHECKED BY:	X	APPROVED BY:		SOLICITATION NO.	DACW29-9X-B-0000
DATE:	X	CHIEF, ENGINEERING DIVISION		FILE NO.	X
SUBMITTED BY:	X	APPROVED BY:		DWG.	X OF XX
APPROVED BY:		COLONEL, C. E. DISTRICT ENGINEER			

A

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

LETTER OF TRANSMITTAL

Job no. 8407 08 Date FEBRUARY 9, 1994

Job Title LONDON AVE. OUTPAV CANAL

To: CORPS OF ENGINEERS re: LONDON AVE CANAL
NEW ORLEANS DISTRICT CONTRACT No. 3
P.O. BOX 60267 BKI 8407-08
NEW ORLEANS, LA 70160-0267

attn. MR. WALTER BAUMLY, PE

From: MR. SURESH SHAH, PE

Sending: attached under separate cover via _____

Description:	copies	date	no.	description
	<u>2</u>	<u>2/9</u>		<u>FLOPPY DISKETTES OF FINAL SPECIFICATIONS (3.5" & 5.25")</u>
	<u>1</u>	<u>2/9</u>		<u>STRAIGHT SPLICE DETAIL (416B)</u>

- as requested approved as submitted _____ for your files
 for your use approved as noted
 for approval returned for corrections
 for review returned after loan to us
 other _____

Remarks: WE HAVE CORRECTED ALL OF YOUR REVIEW COMMENTS

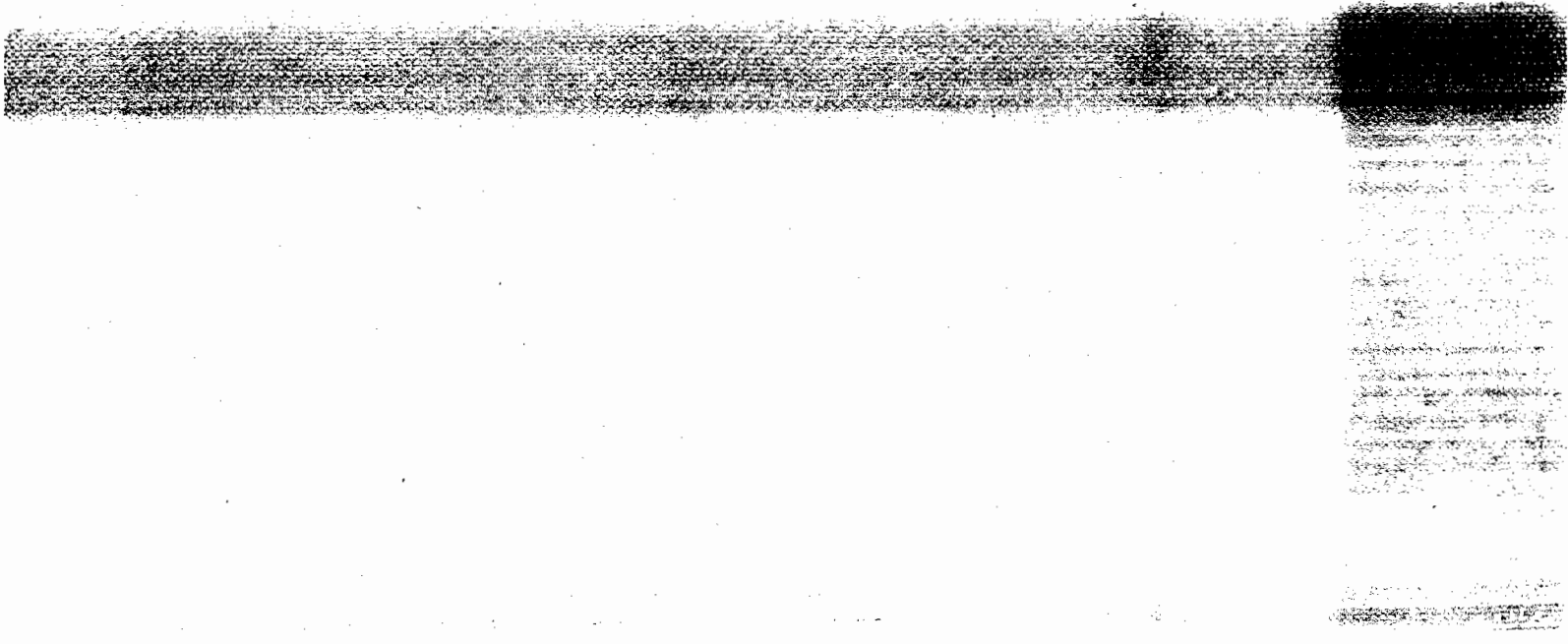
Signature [Signature] copies to: MGT, SWG, SIS, FILE

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
097	TRANSMISSION		9-4881714	12	OK

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U.S. ARMY CORPS OF ENGINEERS

NEW ORLEANS DISTRICT

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No.	<u>488-1314</u>	Fax No.	<u>862-2733</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u>Burk</u>	Office Symbol	<u> </u>
Telephone No.	<u>483-6278</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>2/8/94</u>	<u>12</u>		<u>see above</u>

REMARKS:

The paint spec is fine. Here's the sheet pile

INDEX

SECTION C2G - STEEL SHEET PILING

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C2G-2.	RELATED WORK SPECIFIED ELSEWHERE	C2G-1
C2G-3.	APPLICABLE PUBLICATIONS	C2G-1
C2G-4.	QUALITY ASSURANCE	C2G-1
C2G-5.	SUBMITTALS	C2G-1
C2G-6.	QUALITY CONTROL	C2G-2
C2G-7.	DELIVERY, STORAGE AND HANDLING	C2G-3
C2G-8.	MATERIALS	C2G-4
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C2G-10.	QUANTITIES	C2G-8
C2G-11.	MEASUREMENT AND PAYMENT	C2G-8

SECTION C2G - STEEL SHEET PILING
PART 1 - GENERAL

C2G-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 Contractor furnished steel sheet piling in accordance with these specifications and applicable drawings.

C2G-2. RELATED WORK SPECIFIED ELSEWHERE.

C2G-2.1 Metalwork Fabrication. Section C5B, "METALWORK FABRICATION, MACHINE WORK, AND MISCELLANEOUS PROVISIONS".

C2G-2.2 Painting. Section C9A, "PAINTING".

C2G-3. APPLICABLE PUBLICATIONS. The following American Society for Testing and Materials (ASTM) standards of the issues listed below and referred to thereafter by basic designation only form a part of this specification to the extent indicated by the references thereto:

A 36-91	Structural Steel
A 328-90	Steel Sheet Piling
A 572-91	High-Strength Low-Alloy Columbian-Vanadium Steels of Structural Quality
A 325-91c	High-Strength Bolts for Structural Steel Joints

C2G-4. QUALITY ASSURANCE. Requirements for material tests, workmanship and other measures for quality control shall be as specified herein and in Section C5B, "METALWORK FABRICATION, MACHINE WORK, AND MISCELLANEOUS PROVISIONS".

C2G-4.1 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.

C2G-5. SUBMITTALS. The Contractor shall submit descriptions of sheet piling driving equipment, shop drawings, test procedures, test reports and certificates, sheet piling driving records and other submittals to the Contracting Officer for approval as required. Submittals and associated work not satisfactory to the Contracting Officer will be rejected.

C2G-5.1 Equipment Descriptions. Complete descriptions of sheet piling driving equipment including hammers, extractors, protection caps and other installation appurtenances shall be submitted for approval prior to commencement of work.

C2G-5.2 Shop Drawings. Shop drawings for sheet piling, including fabricated sections, shall be submitted for approval and shall show complete piling dimensions and details, driving

sequence and location of installed piling. Shop drawings shall include details and dimensions of templates and other temporary guide structures for installing piling, and shall provide details of the method of handling piling to prevent permanent deflection, distortion or damage to piling interlocks.

C2G-5.3 Materials Test Certificates. 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.

C2G-5.4 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. The format for driving records shall be as directed by the Contracting Officer.

C2G-5.5 Jacking of PZ-22 Steel Sheet Piling in Segments Under Existing Telephone Cables (TC-1), 10 FT. Diameter Steel Siphon Tube (ST-1) and 50 in. Diameter Steel Discharge Tube (DT-1). The Contractor shall submit, for approval, details for installing the sheet piling at these locations. Details shall include the following.

- (1) Excavation details and shoring design ~~if required.~~
- (2) Step by step procedure of sheet pile installation, placement, driving, etc. is outlined on Dwgs. 40-43. The installation procedure shown on the drawings is a suggested procedure and the Contractor can submit his own procedure for approval.
- (3) Sheet pile fabrication, ^{Jacking} ~~if required.~~
- (4) Proposed number of segments per sheet pile section to be driven.

The Contractor shall not damage these pipes and any damage done by his operation shall be repaired at his own expense. The limits for painting the sheet piling are shown on the drawings 37-38. For painting details, see section C9A, "PAINTING".

C2G-6. QUALITY CONTROL

C2G-6.1 General. The Contractor shall establish and maintain quality control for pile driving operations to assure compliance with contract specifications and maintain records of his quality control for all construction operations including, but not limited to, the following:

- (1) Full and proper engagement of interlocks.
- (2) Driving (pile hammer and rate of operation).
- (3) Final position; depth of penetration; tip and cut-off elevations.
- (4) Length of cover plate and weld size.
- (5) Accurate location, alignment and plumbness of piling.

- (6) Manufacture and driving of fabricated sections.
- (7) Stockpiling and Storage.
- (8) Cutting and Splicing (Welding).
- (9) Uplift and vertical tolerances after driving.
- (10) Pulled piles and re-driving.
- (11) Removal and disposal of damaged piles.
- (12) Location and elevation of any obstruction encountered and action directed by Contracting Officer.

C2G-6.2 Reporting. The original and two copies of these records and tests, as well as the records of corrective action taken, shall be furnished to the Government daily. Format of the report shall be as prescribed in the Special Clause entitled "CONTRACTOR QUALITY CONTROL".

C2G-7. DELIVERY, STORAGE AND HANDLING. Materials delivered to the site shall be new and undamaged and shall be accompanied by certified test reports. Steel sheet piling shall have the manufacturer's logo and mill identification mark, which corresponds to the certified test reports, stamped on each unspliced length in a minimum of two locations. Sheet piling shall be stored and handled in the manner recommended by the manufacturer to prevent permanent deflection, distortion or damage to the interlocks. Storage of sheet piling should also facilitate required inspection activities. Piling shall not be delivered to the site prior to receipt of written approval from the Contracting Officer.

PART 2 - MATERIALS

C2G-8. MATERIALS.

C2G-8.1 Steel for sheet piling shall conform to the requirements of ASTM A 328. Sheet piling, including special fabricated sections, shall be of the type and dimensions indicated on the drawings, and be of a design such that when in place they will be continuously interlocked throughout their entire length. All sheet piling shall be provided with standard pulling holes located approximately 4 inches below the top of the pile, unless otherwise shown or directed. Piling shall have the properties equivalent to those listed in the following table:

PROPERTIES OF SECTIONS

Type of Section	Nominal Web Thickness (Inches)	Section Modulus (in. ³ /Ft. of Wall)	Moment of Inertia (in. ⁴ /Ft. of Wall)	Nominal Section Depth (In.)	Minimum Interlock Strength (Lbs/Lin In.)	Theoretical Driving Width (In.)
PZ 22	.375	18.1	154.7 84.4	9	- - - -	22
PSA 23	.375	2.4	- - -	- -	12,000	16

C2G-8.1.1 Substitute Sheet Pile Sections. The Contractor may elect to substitute for the sheet piling shown on the contract drawings and specified above, in accordance with C2G-8.1.1.1 or C2G-8.1.1.2 below. Combinations of substitute piling types shall not be permitted.

C2G-8.1.1.1 At no additional cost to the Government, new Z-type steel sheet piling conforming to ASTM A 328, with a minimum material thickness of .335 inches, a maximum overall width of 26 inches and meeting the following section properties, may be substituted in kind for the listed sections:

Substitute Section

Section Designated on Contract Drawings	Minimum Section Modulus (in. ³ /Ft. of Wall)	Nominal Depth (In.)
PZ 22	18.1	9±10% 15

C2G-8.1.1.2 At no additional cost to the Government, new Z-type steel sheet piling conforming to ASTM A 572 Grade 50, with a minimum material thickness of .335 inches, a maximum overall width of 26 inches and meeting the following section properties, may be substituted in kind for the listed sections:

Substitute Section

Section Designated on Contract Drawings	Minimum Section Modulus (in. ³ /Ft. of Wall)	Nominal Depth (In.)
PZ 22	14.00	9±10% 15

C2G-8.1.1.3 When proposing substitute piling, the Contractor shall submit, for approval, the following items at no additional cost to the Government:

(1) Complete shop drawings of the proposed sections showing the dimensions and details of the alternate piling including all fabricated and corner sections.

(2) A complete layout of the alternate sheet piling.

INSERT 3

and blast clean from the new top of pile to 4" above the bottom of the concrete I-wall to remove any remaining coal tar epoxy paint

INSERT 1

The pulled piles shall be cleaned with a jet of water.

INSERT 2

The Contractor shall blast clean from the top of the pile to 4" above the bottom of the concrete I-wall to remove any remaining coal tar epoxy paint prior to redriving

The P.I. Stations and I-wall transition lengths shall remain unchanged. Typical concrete I-wall monolith lengths may be altered to better accommodate the substitute piling driving widths. It shall be the Contractor's responsibility to make any adjustments necessary in his formwork so that the architectural treatment of the concrete is properly maintained.

C2G-8.1.2 All new sheet piling shall be provided in full lengths ~~except for jacking under telephone cables and drainage pipes on West Side.~~

C2G-8.2 Rolled Corners. Rolled corners, formed with new sheet piling, shall be of the types and dimensions shown on the drawings. Any proposed variations from the details shown on the drawings shall be submitted for approval of the Contracting Officer. The sheet pile types shall be as required for the corners being manufactured and shall conform to the requirements of ASTM A 328 and all other requirements stated above for new piling.

C2G-8.3 Fabricated Sections. Fabricated sections shall conform to the requirements stated herein, the details shown on the drawings and the piling manufacturer's recommendations for fabricated sections. Metalwork fabrication for sheet piling sections shall conform to the requirements of Section C5B. Steel plates and angles used to fabricate the special sections shall conform to ASTM A 36.

C2G-8.4 ~~Pull, Clean with jet of water, Salvage, and Deliver Existing Steel Sheet Piling.~~ The Contractor shall pull, clean and salvage approximately 273 linear feet of existing AZ-18 sheet piling north of Mirabeau Ave. on the east bank. The Contractor shall redrive approximately twenty linear feet of these sheet piling as shown on plans. The Contractor shall repair the protective coating on AZ-18 sheet piling prior to redriving. For paint requirements see Section C9A, "PAINTING". The contractor shall deliver remaining sheet piling to the Orleans Levee Board's maintenance yard, 6920 Franklin Ave., N.O., LA 70122, at no additional cost. Cut-offs shall become the property of the Contractor and shall be removed from the worksite.

The Contractor shall notify Mr. Max Hearn of the Orleans Levee District at 246-8000, days prior to delivery.

C2G-8.5 Cutting-Off Existing Steel Sheet Piling. The Contractor shall cut-off existing AZ-18 steel sheet piling between Filmore Ave. and Pumping Station No. 4 and PZ-27 & AZ-10 steel sheet piling between Pumping Station No. 4 and Robert E. Lee Blvd. to the required elevation as shown on the drawings. After cutting-off above steel sheet piling to the required elevation, the contractor shall ~~drill~~ ^{cut} standard pulling holes located approximately 4 inches below the top of the pile. ^{INSERT 3}

C2G-9 INSTALLATION. No work shall begin until the sheet pile layout, and concrete monolith layouts are approved.

C2G-9.1 Placing and Driving.

C2G-9.1.1 Placing. Any excavation required within the area where sheet pilings are to be installed shall be completed prior to placing sheet pilings. Pilings shall be carefully located as shown on the drawings. Pilings shall be placed as true to line as possible. Suitable temporary wales, templates, or guide

damaged pile. Piles pulled and found to be in satisfactory condition shall be redriven.

C2G-9.5 Void Backfill. Where voids adjacent to the steel sheet piling are induced by pile driving operations or caused by the removal of existing sheetpiling, the Contractor shall pump out all rain water and backfill with a cement-sand-bentonite slurry. The Contractor shall backfill with a cement-sand-bentonite slurry by the tremie or pump down method such that any water in the void is not mixed with but displaced by the slurry. The slurry shall consist of one part cement and two parts bentonite, and three parts sand mixed with enough water to produce a slurry liquid enough to thoroughly fill voids but have no less than twelve pounds of solids per gallon. The sand portion of the slurry shall meet the following gradation:

SAND GRADATION

<u>U.S. STANDARD SIEVE SIZE</u>	<u>REQUIRED PERCENT PASSING BY WEIGHT</u>
3/8 Inch	100
No. 4	100 - 90
No. 200	20 - 0

C2G-9.6 Painting. Piling shall be painted in accordance with Section C9A, "PAINTING".

C2G-9.7 Vibration Monitoring.

C2G-9.7.1 Scope. An independent testing laboratory retained by the Orleans Levee District will monitor vibrations during pile driving operations. If more than one pile driving rig is in operation at any time, each rig shall be independently monitored. Vibration monitoring during other Contractor operations may be done at the discretion of the Orleans Levee District.

C2G-9.8 PRECONSTRUCTION SURVEY.

C2G-9.8.1 Scope. An independent party retained by the Orleans Levee District will perform the preconstruction survey of residential properties prior to the commencement of work.

C2G-10. QUANTITIES. The estimated quantities of sheet piling listed in the unit price schedule of the contract are given for bidding purposes only. Sheet piling quantities for payment shall consist of the square feet of piling acceptably installed between the indicated top and tip of pile elevations.

C2G-11. MEASUREMENT AND PAYMENT.

C2G-11.1 Measurement. ^{(C26-11.1), PZ-22 Sheet Piling} The length of PZ-22 sheet piles, ~~PSA-28 bent corners, or fabricated sections and bent corners~~ driven or pulled will be measured to the nearest tenth of a linear foot and converted to square feet for payment purposes. The square footage will be determined by multiplying the number of piles times the measured length acceptably driven below the cut-off elevation shown on the drawings times the theoretical driving width of the pile. The number of piles paid for shall not exceed

C26-11.1.6 Cut-Off Piling. No separate measurement will be made for cutting of existing AZ-18 sheet piling at the required elevation

C26-11.1.8 Fabricated Sections. The length of the PSA-23 bent corners or fabricated sections and bent corners driven or pulled will be measured to the nearest length of a linear foot and converted to square feet for payment purposes. (Use rest of verbiage from PE-22 para.)

the number of piles indicated on the approved shop drawings. When driven piles are directed to be cut off before reaching penetration depths shown on the drawings, that portion cut off will be measured for payment on the basis of its total length, provided that the length is not greater than the difference between the total length of piles shown on the plans for that location and the length of piles driven below the point of cut-off. No deduction will be made for holes cut for drains and utilities, in computing the square footage of steel sheet pile structures.

C2G-11.1.5
Existing Sheet
Piling. No separate measurement will be made for existing steel sheet piling to be pulled, cleaned, salvaged, and delivered, ~~without damage.~~

~~The length of each PZ-22 sheet pile jacked under SOB and SOWB utilities on the West Bank will be measured to the nearest tenth of a linear foot and converted to square feet for payment purposes.~~

C2G-11.1.2
AZ-18 Sheet
Piling. No separate measurement will be made for redriving and repairing the protective coating on AZ-18 prior to redriving approximately twenty linear feet of salvaged AZ-18 steel sheet piling.

C2G-11.1.1⁴ Steel Sheet Piling Cofferdams. Steel sheet piling used for temporary flood protection will not be measured for payment.

C2G-11.1.1⁷ Void Backfill. The sheet piling void backfill will not be measured for payment.

C2G-11.2 Payment.

~~C2G-11.2.1 Sheet Piling.~~

C2G-11.2.1 PZ-22 Sheet Piling. Payment for PZ-22 steel sheet piling quantities will be made at the contract price per square foot for "Piling, Steel Sheet, Type PZ-22".

C2G-11.2.2
AZ-18 Sheet
Piling. Payment for redriving approximately twenty linear feet of salvaged AZ-18 steel sheet piling will be made at the contract price per lump sum ^{price} for "Redriving approximately 20 linear feet of existing AZ-18 steel sheet piling". ^(remove "furnishing" and add "removing coal tar epoxy paint")

C2G-11.2.3
Fabricated
Sections. Payment for fabricated sections and bent corners and each special PSA-23 bent corners will be made at the contract price per square foot for "Piling, Steel Sheet, Type PSA-23". Prices shall include all cost of fabricating, adding cover plates, furnishing, driving, cutting holes, splicing, backfilling voids, and all other work incidental to acceptably installing the steel sheet piling.

C2G-11.2.4
Temporary Flood
Protection. Piling used for temporary flood protection will be paid in accordance with Section C2H, "TEMPORARY FLOOD PROTECTION".

C2G-11.2.5
Existing Sheet
Piling. Payment for existing sheet piling quantities to be pulled, cleaned with jet of water, salvaged, and delivered will be made at the contract price per lump sum ^{price} for "Pull, Clean, ~~with jet of water~~ Salvage, and Deliver Approximately 273 Linear Feet of Existing Steel Sheet Piling."

C2G-11.2.6
Cut-Off
Piling. Payment for cutting off existing AZ-18 sheet piling at required elevation shall be paid at the contract price per lump sum ^{price} for

Prices shall include all costs of C2G-9 furnishing, driving, cutting holes, splicing, backfilling voids, and all other work incidental thereto.

cutting and
"Cutting off existing AZ-18 sheet piling at required elevation".

~~Price~~ shall include disposal of the ~~cut-off~~ sections, installing handling holes.

~~Contractor's Price~~
C2G-11.2.27 Cut-Offs and Splices. Cut-offs and/or splices which are required to construct the sheet pile structures as shown on the drawings and as specified herein, and which are necessitated due to Contractor negligence in any procedure required to install such structures shall be provided at no additional cost to the Government. Cut-offs and/or splices which are required through no fault of the Contractor shall be paid for by lump sum payments of \$10.00 per cut-off and \$25.00 per splice. Additionally, the portion of a Contractor furnished pile which is cut off and not reused when the Contractor is deemed to be not at fault, shall be paid for at 70 percent of the applicable contract unit price for the amount measured in accordance with C2G-11.1 above.

C2G-11.2.28 Pulled Piles. Piles which are directed to be pulled and found to be in good condition will be paid for at the contract price (or furnishing and driving the pile in its original position plus 50 percent of that amount for the cost of pulling and redriving the pile. When piles are pulled and found to be defective and/or damaged due to Contractor negligence, no payment will be made for originally furnishing and driving such piles, nor for the operation for pulling. Piles replacing defective or damaged piles will be paid for at the applicable contract unit price. Piles which are pulled and found to be damaged through no fault of the Contractor, will be paid for at 100% of the applicable unit price for the damaged pile and 100% of the applicable unit price for driving the replacement pile. The cost of pulling the damaged pile shall be paid for at 25% of the applicable contract unit price.

(removal of coal tar epoxy paint,
and all other work incidental thereto.

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F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job No.

8 4 0 7 0 8

Date: February 07, 1994

Job Title

London Avenue Outfall Canal

Sending to: (FAX No. 504-862-1585)

US Army Corps of Engineers

New Orleans District

P.O. BOX 60267

New Orleans, LA 70160-0267

ATTN: Angela DeSoto

Message:

Please fax back your comments, and we will
submit the spec this afternoon. Thank You

From:

Suresh Shah / Billy Burk

Burk-Kleinpeter, Inc.

New Orleans, LA 70119

Fax - 504-488-1714

27

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SECTION C9A - PAINTING

PART 1 - GENERAL

C9A-1. SCOPE. The work covered by this section of the specifications consists of furnishing all plant, labor, equipment, appliances, and materials and in performing all operations in connection with preparation of surfaces and application of paint and other specified materials. This work shall be accomplished in complete and strict accordance with the specifications and the applicable drawings and shall be subject to the terms and conditions of the contract.

C9A-2. QUALITY CONTROL.

C9A-2.1 General. The Contractor shall establish and maintain quality control for painting operations to assure compliance with contract specifications and maintain records of his quality control for all construction operations including but not limited to the following:

- (1) Cleaning and preparation of surfaces.
- (2) Paint and formulations.
- (3) Number of coats and rates of applications.
- (4) Protection of paint surfaces.
- (5) Safety and Industrial Hygiene monitoring.

C9A-2.2 Reporting. The original and two copies of these records and tests, as well as the records of corrective action taken, shall be furnished to the Government daily. Format of this report shall be as prescribed in H-4.

C9A-3. DEFINITIONS AND NOMENCLATURE.

C9A-3.1 Paint. The term "paint" as used herein includes emulsions, enamels, paints, stains, varnishes, sealers, and other coatings, organic or inorganic, whether they be used as prime, intermediate, or finish coats. This definition does not include troweled or sprayed-metal coatings.

C9A-3.2 Shop Painting. The term "shop painting" as referred to herein and/or on the drawings covers surface preparation and painting operations conducted in a shop, mill, or plant, before shipment of paint-receiving items to the project site.

C9A-3.3 Field Painting. The term "field-painting" as referred to herein and/or on the drawings covers surface preparation and painting operations conducted at the project site.

C9A-3.4 Touch-up Painting. The term "touch-up painting" refers to the application of paint on small areas of painted surfaces to repair mars, scratches, and other defects where the coating has deteriorated in order to restore the coating to an

unbroken condition.

C9A-3.5 Repainting. The term "repainting" designates the cleaning and recoating with the same or similar materials originally used on extensive areas on which the existing coatings have deteriorated or otherwise have not provided adequate protection.

C9A-4. APPLICABLE PUBLICATIONS.

C9A-4.1 American Conference of Governmental Industrial Hygienists (ACGIH) Publications.

Guidelines to the Selection of Chemical Protective Clothing, Volumes I and II.

Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment and Biological Exposure Indices.

C9A-4.2 American National Standards Institute (ANSI) Standards.

Z87.1- 79 Practice for Occupational and Educational Eye and Face Protection

Z358.1- 81 Emergency Eyewash and Shower Equipment

C9A-4.3 American Society for Testing and Materials (ASTM) Publications.

D 561-82 Carbon Black Pigment for Paint

D 1186-87 Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Base

D 4417 Field Measurement of Surface Profile of Blast Cleaned Steel

E 97-82 45-deg, 0-deg, Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry

C9A-4.4 Code of Federal Regulations (CFR).

29 CFR 1910 General Industry Standards

29 CFR 1926 Construction Industry Standards

C9A-4.5 Federal Acquisition Regulations.

52.236-13 Apr 84 Accident Prevention

C9A-4.6 Federal Standards (Fed. Std.).

No. 313 Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities

No. 595

Color

C9A-4.7 National Institute for Occupational Safety and Health (NIOSH) Publications.

87-108 Respirator Decision Logic
84-100 NIOSH Manual of Analytical Methods

C9A-4.8 Steel Structures Painting Council Specifications (SSPC).

SSPC-SP 1 Solvent Cleaning
SSPC-SP 5 White Metal Blast Cleaning
SSPC-Paint 16 Coal Tar Epoxy-Polyamide Black Paint

Available from: Steel Structures Painting Council, 4400 Fifth Avenue, Pittsburgh, PA 15213

C9A-4.9 U.S. Army Corps of Engineer Publications.

EM 385-1-1 Safety and Health Requirements Manuals

C9A-4.10 Special Formulations Special formulations indicated herein that are not covered by Federal or other nationally recognized standard specifications are specified below in C9A-9.

C9A-5. SAMPLING AND TESTING.

C9A-5.1 General. Batches of paint which the Contractor proposes to use shall be stored in an approved shelter on the project site or segregated at the source of supply sufficiently in advance of need to allow 30 days for sampling and testing. The Contractor shall notify the Contracting Officer when the paint is available for sampling. Sampling of each batch will be witnessed by a representative of the Contracting Officer unless otherwise specified or directed. Samples of paint submitted for approval shall be clearly labeled to indicate formula or specification number and nomenclature, batch number, batch quantity, color, date made, and applicable project contract number. Where specifically indicated herein or where indicated in a standard specification for a finished product, separate samples of ingredient materials shall be furnished. The ingredient samples shall be clearly identified by commercial name, trade designation, manufacturer, batch or lot number, and such other data as may be required. Testing of paint for compliance with the specifications will be performed at the U.S. Army Construction Engineering Research Laboratory at Intersate Research Park, 2902 Newmark Drive, P.O. Box 4005, Champaign, IL 61820, Attn: Paint Laboratory, at no expense to the Contractor except that the cost of testing any sample representing material that replaces previously rejected material will be deducted from payments to the Contractor at the rate of \$300.00 dollars for each replacement sample.

C9A-5.2 Special Paint Formulations Not Covered by Standard Specifications.

C9A-5.2.1 Solvents in epoxy paints and thinners are subject to analysis by programmed temperature gas chromatographic methods and/or spectrophotometric methods, employing the same techniques which give reproducible results on prepared control samples known to meet the specifications. If the solvent being analyzed is of the type consisting primarily of a single chemical compound (or a mixture of two or more such solvents) interpretation of the test results shall take cognizance of the degree of purity of the individual solvents as commercially produced for the paint industry.

C9A-6. SUBMITTALS. The following statements, reports, plans, and samples shall be submitted to the Contracting Officer for approval.

C9A-6.1 Special Formulation Paints and Thinners. Two one-quart samples of each batch of Coal Tar Epoxy type paint and thinners shall be submitted to the Contracting Officer for approval. Where samples of ingredient materials are required, see C9A 9.4, Paint Formulations; they shall be of one-half pint in size and shall be labeled with the name of the ingredient manufacturer as well as the trade name or designation of the product. When the required quantity of any paint is 10 gallons or less, samples of the paint and ingredient materials need not be submitted; but instead the Contractor shall submit a signed certificate from the paint manufacturer showing the percentage of each ingredient used to produce the material and a statement that the material complies with all of the requirements of the formulation. Each ingredient shall be clearly identified as provided for above.

C9A-6.2 Federal and Military Specification Paints and Thinners. When the required amount of a material of a particular type or color is more than 50 gallons, the Contractor shall submit a one-quart sample of each batch he proposes to use. When the required quantity of any type is 50 gallons or less, he shall supply either of the following:

(1) A certified test report showing the results of required tests made on the material and a statement that it meets all of the specification requirements.

(2) A certified test report showing the results of required tests made on a previous batch of paint produced by the same firm using the same ingredients and formulation except for minor differences necessitated by a color change and a statement that the previous batch met all of the specification requirements. He shall also supply a report of tests on the proposed batch showing the following properties applicable to the material specifications: color, gloss, drying time, opacity, viscosity, weight per gallon, and fineness of grind.

C9A-6.3 Proprietary Brands of Paints When the required quantity of a particular type or color of a paint covered by a Federal or Military Specification is 10 gallons or less, a proprietary name brand, shelf item paint of the same type and with similar properties to the material specified may be proposed without sampling. To receive consideration, the paint must be in

the original container with the manufacturer's label affixed. The Contractor shall submit a statement from the supplier that the paint is appropriate as to type, color, and gloss and is a premium grade of paint.

C9A-6.4 Safety and Health Submittal. The following is a listing of Safety and Health submittal items required by this contract. The submittals shall be provided as required in the Safety and Health Provisions of C9A-8.

a. Qualifications and Experience Statement.

b. Accident Prevention Plan.

(1) Administrative Requirements

(2) Activity Hazard Analysis Procedures

(3) Respiratory Protection Program

(4) Material Safety Data Sheet

(5) Airborne Sampling Plan

(6) Ventilation Assessment

(7) Worker Hazard Communication Program

(8) Medical Surveillance Program

(9) Other Safety and Health Submittal Items as required in EM 385-1-1.

c. Results of Airborne Sampling:

(1) Laboratory Conducted-within 5 working days after taking samples.

(2) Direct Reading Instrumentation - same day as taken.

C9A-7. PACKAGING, LABELING, DELIVERY, AND STORAGE OF PAINTS. Paints shall be so processed and packaged as to ensure that within a period of one year from date of manufacture, they will not gel, liver or thicken deleteriously, or form gas in the closed container. Paints, unless otherwise specified or permitted, shall be packaged in standard containers not larger than five gallons in size, with removable friction or lug-type covers. Each container of paint or separately packaged component thereof shall be clearly and durably labeled to indicate the purchaser's order number, date of manufacture, manufacturer's batch number, quantity, color, component identification, and the designated name, formula or specification number of the paint together with special labeling instructions, when specified. Paint shall be delivered to the job in unbroken containers. Paints that can be harmed by exposure to cold weather shall be stored in ventilated, heated shelters. All paints shall be stored under cover from the elements and in locations free from sparks and flames.

C9A-8. SAFETY AND HEALTH PROVISIONS.

C9A-8.1 General. The Contractor shall comply with the safety and health provisions contained herein in addition to those provisions contained in the clause entitled "Accident Prevention", FAR 52.236-13. These additional provisions are intended to amplify those contained in the aforementioned clause. In any conflict between the "Accident Prevention" clause and this section, the provisions of this section shall govern. The Contractor shall develop all required safety and health plans and procedures consistent with current Federal regulations as described in 29 CFR 1910, Occupational Safety and Health Standards; 29 CFR 1926, Safety and Health Regulations for Construction; EM 385-1-1, US Army Corps of Engineers Safety and Health Requirements Manual; the permissible exposure limits (PELs) contained in the latest edition of the American Conference of Governmental Industrial Hygienist's (ACGIH) booklet entitled, "Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment and Biological Indices with Intended Changes"; and the provisions of these specifications. The Contractor shall comply with the more stringent PELs contained in either 29 CFR Part 1910 or the ACGIH booklet. In order to comply with these specifications, the Contractor shall prepare for review and approval, specific safety and occupational health submittal items identified in C9A-6.4 and as further described in C9A-8.2 below.

C9A-8.2 Safety and Health Submittal Requirements.

C9A-8.2.1 Qualifications and Experience Statement. The contractor shall submit for approval, a written Qualification(s) and Experience statement signed and dated by the Contractor and the "Qualified and Competent person(s)" as defined in EM 385-1-1, that the Contractor has selected to develop the required safety and health submittal items and who will act as the Contractor's on-site safety and health representative(s) during the contract period. Approval of this submission must be obtained prior to the submission of other required safety and health submittal items.

C9A-8.2.2 Accident Prevention Plan. The criteria included in EM 385-1-1, TABLE 1-1, "Suggested Contractor's Accident Prevention Plan Format", as amplified below, shall be followed by the Contractor when preparing his Accident Prevention Plan. The plan at a minimum shall include each of the topic areas listed below but, may include other safety and health criteria as deemed necessary. Each topic shall be developed in a concise manner to include management and operational aspects.

C9A-8.2.2.1 Administrative Requirements.

(1) Administrative responsibilities for effecting the Accident Prevention Plan (i.e. identification and accountability of Contractor personnel responsible for accident prevention).

(2) Local requirement, if any, which must be complied with (i.e. noise control, traffic problems, parking and other similar items).

(3) Methods proposed to control and coordinate the work of Subcontractors, including list of Subcontractors.

(4) Plans for layout and use of temporary construction buildings, facilities and equipment including how the Contractor plans to control those of Subcontractors.

(5) Plans for initial indoctrination, continued safety education, and training for the Contractor's and Subcontractor's employees. The Safety Indoctrination Plan shall include, but may not be limited to, the following:

(a) General policy and pertinent provisions of EM 385-1-1, the Contractor's Accident Prevention Plan, and Activity Hazard analyses.

(b) General safety and occupational health rules.

(c) Responsibilities and authorities of employees during the contract including accident reporting, protection of property and safety of others.

(d) Procedure for reporting and correcting unsafe conditions or practices.

(e) Identification of specific hazards of the tasks (assignments) employees are to perform and the administrative (standard operating procedures), engineering and personal protective controls to mitigate those hazards.

(f) Procedures and schedules of safety meetings for indoctrination and training of supervisor and employees. Requirements for employee indoctrination and continued training by project safety officer shall include the following and as further defined in C9A-8.2.2.2 to C9A-8.2.2.9.

(i) Training of Contractor's employees for compliance to the Contractor Activity Hazard Analyses of the Accident Prevention Plan.

(ii) Material handling.

(iii) Heavy equipment.

(iv) Electrical (including temporary electrical)

(v) Safe clearance procedures.

(vi) Fire and explosion protection and prevention.

(vii) Reserved.

(viii) Respiratory protection equipment (selection, fit, use, inspection, maintenance, storage, training, and other criteria in accordance with EM 385-1-1, Section 105.2B.).

(ix) Hazard communication for employees to include identification of potential hazards, effects of exposure and

control measures to be used for chemical products and physical agents that may be encountered during the performance of work on this contract, and other criteria in accordance with 29 CFR Part 1910.1200.

(x) Training in the use and understanding of material safety data sheets and chemical product hazard warning labels.

(xi) Selection, use, inspection, maintenance, and storage of personal protective clothing and equipment.

(xii) Communication methods and systems to be used (i.e., voice, hand signals, radios or other means).

(xiii) Safe work procedures on or around water areas (water safety).

(xiv) Personal hygiene (washing and cleaning facilities, sanitation, eating, smoking and drinking requirements).

(xv) Training in types, use of, and safety features of portable and fixed mechanical supply and exhaust ventilation systems.

(xvi) Hearing protection.

(xvii) Training in Contractor substance abuse control.

(xviii) Medical surveillance.

(xix) Emergency Medical and first aid requirement per EM 385-1-1, Section 3.

(xx) Fire fighting and other emergency plans and procedures.

(xxi) Emergency equipment and supplies (i.e. emergency eyewash/shower and absorbent media for cleaning up spills and other equipment and supplies).

(6) Plans for continuous job clean up, and safe access and egress at the job site.

(7) Plans for emergency procedures (i.e. ambulance service, fire protection, water-related accidents and other site specific emergencies that could occur).

(8) Plans for job site safety inspection, industrial hygiene, and worker and environmental monitoring of hazardous chemical and physical agents.

(9) Record keeping procedures. Provide detailed description of methods and procedures proposed for collecting and maintaining required records such as medical monitoring, industrial hygiene, environmental sampling and analysis, safety inspections, safety meetings, and other records required by Federal, state and local regulations.

(10) Procedures for accident investigations and reporting (See EM 385-1-1, Section 01.D).

(11) Description and sketch of temporary power distribution system.

(12) Procedures and details of fall protection systems.

(13) Description of safe clearance procedures.

C9A-8.2.2.2 Activity Hazard Analysis Procedures. The Contractor shall develop Activities Hazard Analysis Procedures as part of the Accident Prevention Plan. The procedures shall define how the Contractor will implement the Activity Hazard Analysis in accordance with the criteria in EM 385-1-1 as further described below:

(1) In accordance with the requirements of EM 385-1-1 Section 1, paragraph 01.A.09, the Contractor shall, prior to the beginning of each major phase of work, prepare an Activity Hazard Analysis (phase plan) for that work phase. This analysis shall address the hazards for each activity to be performed in that work phase and shall detail procedures and safeguards necessary to eliminate the hazards or reduce the risks to an acceptable level.

(2) The Contractor shall develop this Analysis to identify the sequence of work, the specific safety and health hazards anticipated, and the control measures to be implemented to minimize or eliminate each hazard. The Activity Hazard Analysis shall be job specific and shall address the following major points:

- (a) Activity being performed (i.e. identify major phases).
- (b) Sequence of work.
- (c) Hazards to be controlled.
- (d) Control measure(s) to mitigate the hazards.

(3) A work phase in the analysis is defined as a major operation involving a type of work which presents hazards that must be abated or controlled and which has not been experienced in previous operations, or when a new Subcontractor or work crew is to perform work. For example, major phases include site preparation, sandblasting, surface cleaning (to include abrasive blasting) and painting.

(4) The Analysis for each major work phase will be discussed by the Contractor and Construction Officer's representative. Work shall not proceed on that phase until the Contractor's Activity Hazards Analysis Procedures has been approved by the Contracting Officer Representative

C9A-8.2.2.3 Reserved.

C9A-8.2.2.4 Respiratory Protection Program As part of the Accident Prevention Plan, the Contractor shall develop a

comprehensive written respiratory protection program in accordance with OSHA regulation 29 CFR Part 1910.134 and EM 385 1.1, Section 05.E and consistent with the guidance contained in the National Institute for Occupational Safety and Health (NIOSH) document entitled Respirator Decision Logic (DHHS (NIOSH) Publication No. 87-108). Copies of this document may be obtained by contacting NIOSH Publications in Cincinnati, Ohio at (513) 533-8280. The program shall define policies and procedures for the selection, fit-testing, use, training, maintenance, cleaning, storage, record keeping, and medical requirements for users. The program shall include a listing of the type of respirators to be worn and their National Institute for Occupational Safety and Health and/or Mine Safety and Health Administration (NIOSH/MSHA) approval statements and numbers.

C9A-8.2.2.5 Material Safety Data Sheets. The Contractor shall fully detail procedures for obtaining and providing material safety data sheets (MSDSs) for hazardous materials that will be brought onto the job site. For the purpose of the Contract, hazardous materials are those described by Federal Standard 313 (latest version) and the OSHA Hazard Communication Standard 29 CFR Para 1910.1200. MSDSs for hazardous materials furnished by the Government are appended to this Contract document. MSDSs for Contractor furnished hazardous materials must be obtained from the product manufacturer, importer, distributor, or supplier and a copy shall be provided to the government's on-site representative prior to use.

C9A-8.2.2.6 Airborne Sampling Plan. The Contractor shall develop and submit an air sampling plan as part of the Accident Prevention Plan detailing the NIOSH, Factory Mutual, or Underwriters Laboratories approved equipment, equipment calibration procedures, sampling methods and analytical procedures to be used based on the type of work to be performed, and anticipated toxic contaminants to be generated. The Contractor shall review the constituents of the paint systems, thinners, cleaners and abrasive media as well as confined spaces to be entered to determine the scope of the sampling plan. The sampling plan shall provide for approved methods of sampling and analysis by NIOSH sampling and analytical methods. The Contractor shall submit the name of the Laboratory to be used to conduct the analysis of any collected air samples. The Laboratory shall be accredited by American Industrial Hygiene Association (AIHA) as described in C9A-8.8.1.2. The Plan shall note procedures to provide details of how the Contractor will provide to the Contracting Officer Representative the laboratory conducted analysis of air sampling within 5 working days of the sample date, and the results from direct-reading instrumentation on the same day the samples were collected.

C9A-8.2.2.7 Ventilation Assessment. The Contractor shall submit for approval the method to be used to provide ventilation assessment required by C9A-8.8.1.1.

C9A-8.2.2.8 Worker Hazard Communication Program. The Contractor shall submit a worker hazard communication program for his employees consistent with 29 CFR 1910.1200 and state and local worker "right-to-know" rules and regulations. The program shall

detail how the Contractor's employees will be informed of the constituents of the paint systems, thinners, solvent cleaners, abrasive blasting media, and other materials used, as well as their potential hazards and toxic effects; how they will be informed of control measures that may be taken to prevent or minimize exposure; how they will also be informed of any exposure hazards associated with removal of surface coatings materials. This submittal shall show how the hazardous materials to be used or generated during work operations are to be identified, and how employees will be informed of the hazards prior to beginning the work task(s). In addition, the program shall detail how the Contractor will ensure, prior to usage, that all Government and Contractor furnished containers of paints, thinners or other hazardous materials are labeled in accordance with the requirements of the OSHA Hazard Communication Standard 29 CFR Para 1910.1200. The program shall describe procedures to ensure that workers will not open any chemical product containers which are improperly labeled and how the Government's on-site representative will be informed of any chemical product containers furnished by the Government that are properly labeled. The program shall also detail the requirements for labeling a product after it has been transferred from a labeled shipping container to a secondary container to ensure that information required by the OSHA Hazard Communication standard is placed on the secondary container.

C9A-8.2.2.9 Medical Surveillance. The Contractor shall describe how he will provide medical surveillance to his workforce as required in C9A-8.9.1, and provide a statement from the examining physician indicating the name of each employee who has been medically evaluated as described in C9A-8.9.1 and cleared to perform the work required by the Contractor. The statement shall detail any physical limitations, the employee's physical and psychological capability to wear respiratory protective equipment and perform job related tasks, and bear the date of the medical evaluation, the physician's name, signature and telephone number. The Contractor shall state how he will make potential employees fully aware that facial hair cannot interfere with the sealing surface or valve function of respirators required to be worn.

C9A-8.3. Abrasive Blasting.

C9A-8.3.1 Hoses and Nozzles. Hoses and hose connections of a type to prevent shock from static electricity shall be used. Hose lengths shall be joined together by approved couplings of a material and type designed to prevent erosion and weakening of the couplings. The couplings and nozzle attachments shall fit on the outside of the hose and shall be designed to prevent accidental disengagement. A deadman type control device shall be provided at the nozzle end of the blasting hose to cut off the flow in the event the blaster loses control of the hose.

C9A-8.3.2 Blasting Helmets. Blasting operators shall be protected by MSHA/NIOSH approved air-line fed abrasive blasting helmets of a continuous flow, positive pressure type. Breathing air, source of supply and other respirator criteria shall conform to the requirements EM 385-1- 1, Section 05.E.

C9A-8.3.3 Protective Clothing. Blasting operators shall be

protected against injury from impact of blast abrasives by wearing appropriate protective equipment, including heavy canvas or leather gloves and aprons or equivalent protection. Safety shoes or boots shall be worn. Hearing protectors shall be worn during all blasting operations.

C9A-8.3.4 Workers Other Than Blasters. Workers other than blasting operators working in close proximity to abrasive blasting operations, shall be protected by utilizing MSHA/NIOSH approved half face or full face air purifying respirators equipped with high efficiency particulate air (HEPA) filters, eye protection meeting or exceeding ANST Standard Z87.1 (latest revision) and hearing protectors (ear plugs and/or ear muffs). Representative air sampling, in the breathing zone of the worker, shall be obtained prior to permanent issuance of any respiratory protection to assure that the protection factor of the respirator is not exceeded. Air sampling will not be required when non-silica containing abrasive blasting material (1% free silica content or less) is used and it has been established that the surface coating to be removed will not generate toxic airborne particulates (for example lead or chromates).

C9A-8.4 Cleaning With Compressed Air. Cleaning with compressed air is prohibited, except where the pressure has been reduced to less than 20 psi (pounds per square inch) or the air hose is equipped with a pressure reducing valve. Persons using high pressure compressed air for blow down after abrasive blasting operations shall be protected by the same equipment required for abrasive blasters in C9A-8.3.2 and C9A-8.3.3 above.

C9A-8.5 Cleaning With Solvents.

C9A-8.5.1 Ventilation and Respiratory Protection. Where cleaning activities using solvents are being carried out in areas that the Contractor's on-site safety and health representative has determined are NOT confined or enclosed spaces, persons conducting such cleaning shall wear as a minimum, MSHA/NIOSH approved chemical cartridge/canister half or full face piece air purifying/respirators that have sorbent suitable for the chemical properties of the anticipated gas/vapor contaminant(s) and for the anticipated exposure levels. Whenever high airborne concentration of particulates are anticipated or encountered during cleaning with solvents, approved air-purifying chemical cartridge/canister respirators that have a particulate prefilter suitable for the specific type(s) of gas/vapor and particulate contaminant(s) and for the exposure concentration shall be worn. Air monitoring shall be conducted in the breathing zone of the worker to determine specific solvent vapor concentrations prior to the permanent issuance of respiratory equipment to assure that the Assigned Protection Factor (APF) of the respirator is not exceeded. APF is defined as the anticipated workplace level of respiratory protection provided by a properly functioning respirator or class of respirators to a percentage of properly fitted and trained users. The maximum specified use concentration for a respirator shall be determined by multiplying the permissible exposure limit for the contaminant by the protection factor assigned to a class of respirators. (Refer to the NIOSH document, respirator decision logic, for guidance).

C9A-8.5.2 Protective Clothing. Exposure of skin and eyes to solvents shall be avoided by utilization of appropriate chemical resistant gloves, apron, clothing (if applicable), safety goggles and face shield. Guidance regarding selection of appropriate clothing may be obtained by consulting the American Conference of Governmental Industrial Hygienists publication "Guidances to the Selection of Chemical Protective Clothing", VOLS I & II, 1987. Copies may be obtained by contacting ACGIH in Cincinnati, Ohio (513) 661-7881.

C9A-8.6 Pretreatment of Metals and Concrete With Acids.

C9A-8.6.1 Personal Protective Equipment. Exposure of skin and eyes to acids shall be avoided by wearing appropriate acid resistant gloves, apron, clothing (if applicable), approved safety goggles and face shields.

C9A-8.6.2 Emergency Equipment. The following requirement for the acid pretreatment operation is in addition to that required by paragraph 03.A.05 of EM 385 1-1. In accordance with ANSI Z 358.1, an emergency eye wash which provides at least 15 minutes of continuous clean water flow, and a deluge shower shall be provided for the acid pretreatment operation.

C9A-8.7 Mixing Epoxy Resin Formulations.

C9A-8.7.1 Ventilation. Local exhaust ventilation shall be provided in the area where the curing agent and resin are mixed. This ventilation shall be capable of providing at least 100 linear feet per minute of air flow at the mixing station.

C9A-8.7.2 Personal Protective Equipment. Exposure of skin and eyes to Epoxy Resin components shall be avoided by wearing appropriate chemically resistant gloves, apron, safety goggles and face shields meeting or exceeding the requirements of ANSI Standard Z 87.1.

C9A-8.7.3 Medical Precautions. Individuals who have a history of sensitivity to epoxy resin systems shall have been medically evaluated before any exposure could occur. Individuals who are medically evaluated as exhibiting a sensitivity to epoxy resins should not conduct work tasks or otherwise be exposed to such chemicals. Individuals who develop a sensitivity shall be immediately removed from further exposure and medically evaluated.

C9A-8.7.4 Emergency Equipment. An emergency eyewash capable of providing at least 15 minutes of continuous water flow, and a deluge shower shall be provided within close proximity to the Epoxy Resin Mixing Operation in accordance with ANSI Standard Z358.1.

C9A-8.7.5 Special Conditions. Smoking shall be prohibited during all Epoxy Resin Mixing operation.

C9A-8.8 Paint Application.

C9A-8.8.1 Fire and Explosion Prevention.

C9A-8.8.1.1 Reserved.

C9A-8.8.1.2 Atmospheric Testing. The Contractor shall implement the Airborne Sampling Plan required by C9A-8.2.2.6 above. Representative air samples shall be collected to determine if toxic contaminants are being generated in concentrations that may be harmful to workers. The Contractor shall utilize NIOSH approved sampling and analytical methods as described in the NIOSH Manual of Analytical Methods (latest revision). A copy may be obtained by contacting NIOSH Publication in Cincinnati, Ohio at (513) 533-8287. Laboratories utilized to analyze samples shall be AIHA accredited and shall have demonstrated proficiency in the analysis to be performed as evidenced by successful passing participation in the joint NIOSH/AIHA Analytical Testing Proficiency Program (PAT). A listing of AIHA approved laboratories and PAT participants may be obtained by calling AIHA in Akron, Ohio (216) 762-7294. Confined spaces shall be tested prior to and continuously during painting operations, to determine the effectiveness of the ventilation system (see C9A 8.2.2.3). Intrinsically safe oxygen, combustible gas and other monitoring instruments to be used in confined spaces, certified by FM and/or Underwriters Laboratories for use in Class 1, Division 1, Group A, B, C and D hazardous areas, shall be used to determine if adequate levels of oxygen and safe concentrations of combustibles or toxic contaminants exist. A minimum level of 19.5% oxygen and a maximum concentration of 20% of the Lower Explosive Limit for combustible materials are mandatory requirements for safe work in these spaces, except for the zone within 5 feet in any direction from an operating spray nozzle. Periodic testing, shall also be conducted in confined space areas adjacent to the area where spray painting is occurring and in areas where the air is being exhausted from the confined space to ensure safe concentrations of oxygen, combustibles and toxic contaminants are maintained. All air monitoring equipment shall be calibrated prior to each use and rechecked after each use. The oxygen and combustible gas meter(s) shall be equipped with an audible alarm which signals unsafe levels of oxygen and/or combustibles gases.

C9A-8.8.1.3 Explosion Proof Equipment. All electrical wiring, lights, and other equipment located in the paint spraying area shall be of the explosion proof type designed for operation in Class I, Division 1, Group D, Hazardous Locations as required by the National Electrical Code. Electrical wiring, motors and other equipment outside of, but within 20 feet of any spraying area, shall not spark and shall conform to the provisions for Class I, Division 2, Group 2, Hazardous Locations. Electric motors used to drive exhaust fans shall not be placed inside spraying areas or ducts. Fan blades and portable air ducts shall be constructed of nonferrous materials. All motors and associated control equipment shall be properly maintained and grounded. The metallic parts of air moving devices, spray guns, connecting tubing and all duct work shall be electrically bonded and the bonded assembly shall be grounded.

C9A-8.8.1.4 Further Precautions. Workers shall wear non sparking safety shoes. All solvent drums taken into the spraying area shall be placed on non ferrous surfaces and shall be grounded. Metallic bonding shall be maintained between containers

and drums when materials are being transferred. Insulation on all power and lighting cables shall be inspected to ensure that the insulation is in excellent working condition and is free of all cracks and worn spots. Cables should be further inspected to ensure that no connections are within fifty (50) feet of the operation, that lines are not overloaded, and that they are suspended with sufficient slack to prevent undue stress or chafing.

C9A-8.8.1.5 Ignition Sources. Ignition sources, to include lighted cigarettes, cigars, pipes, matches or cigarette lighters, shall be prohibited in areas of solvent cleaning, paint storage, paint mixing or paint application.

C9A-8.8.2 Health Protection.

C9A-8.8.2.1 Respirators. Contractor shall implement the Respirator Protection Program developed in C9A-8.2.2.4. During all spray painting operations, spray painters shall use approved SCBA or SAR (airline) respirators, unless valid air sampling has demonstrated contaminant levels to be consistently within concentrations that are compatible with air purifying respirator protection factors. All respiratory equipment shall be selected and used in accordance with EM 385-1-1, 05.E and 29 CFR 1910.134 and consistent with the guidance contained in the NIOSH document, Respirator Decision Logic. During all confined space spray painting operations, only MSHA/NIOSH approved SCBA with half face or full face piece operated in pressure demand or other positive pressure mode or a SAR (airline) with a half or full face piece or painters helmet, hood or suit operated in pressure demand or other positive pressure mode in combination with an auxiliary SCBA (emergency escape bottle) operated in pressure demand, or other positive pressure mode shall be used. Auxiliary SCBA must be of such duration to permit escape to safety if air supply is interrupted. All employees who wear air-purifying type respirators shall be quantitatively or qualitatively fit-tested, using NIOSH approved procedures, for the specific type air-purifying respirators they will wear. Persons with facial hair that interferes with the sealing surface of the facepiece to face seal or interferes with respirator valve function shall not be allowed to perform work requiring respirator protection. Airpurifying chemical cartridge/canister half or full face piece respirators that have a particulate prefilter and are suitable for the specific type(s) of gas/vapor and particulate contaminant(s) may be used for non-confined space painting, mixing, and cleaning (using solvents), provided the measured or anticipated concentration of the contaminant(s) in the breathing zone of the exposed worker, does not exceed the Assigned Protection Factor (APF) for the respirator, and the gas/vapor has good warning properties or the respirator assembly is equipped with a NIOSH approved End of Service Life Indicator for the gas(es)/vapor anticipated or encountered. Where paint contains toxic elements such as lead, cadmium, chromium or other toxic particulates that may become airborne during painting in non-confined spaces, air purifying half face and full face piece respirators or powered air purifying respirators, equipped with appropriate gas vapor cartridges in combination with a high efficiency filter or an appropriate canister incorporating a high efficiency filter shall

be used. Stand-by personnel used for all confined space operations shall be equipped with SCBA with a minimum breathing air supply of 30 minutes. Individuals selected to act as stand-by personnel shall be medically evaluated to ensure that they are physically and psychologically able to perform rescue duties while wearing a SCBA. In addition, they shall be thoroughly trained in confined space monitoring techniques, communications to be used, and emergency rescue techniques. Communications (i.e. visual, voice, signal line, radio or other means) shall be maintained between workers inside confined space and stand-by personnel outside at all times.

C9A-8.8.2.2 Protective Clothing and Equipment. All workers shall wear safety shoes or boots, appropriate gloves to protect against the chemical to be encountered and breathable protective full body covering during spray painting applications. Where necessary for emergencies, protective equipment such as life lines, body harnesses or other means of personnel removal shall be utilized during confined space work.

C9A-8.9 Medical Status.

C9A-8.9.1 Medical Evaluation. Prior to the start of work and annually thereafter, all Contractor employees working with or around paint systems thinners, blast media, those required to wear respiratory protective equipment, and those who will be exposed to high noise levels, shall be medically evaluated for the particular type of exposure they may encounter. The evaluation shall include:

(1) Audiometric testing and evaluation of employees who will work in the noise environments.

(2) Vision Screening (employees who use full face-piece respirators shall not wear contact lenses).

(3) Medical evaluation shall include but shall not be limited to the following:

(a) Medical history, including but not limited to alcohol use, with emphasis on liver, kidney and pulmonary systems, and sensitivity to chemicals to be used on the job.

(b) General physical examination with emphasis on liver, kidney and pulmonary system.

(c) Determination of the employee's physical and psychological ability to wear respiratory protective equipment and perform job related tasks.

(d) Determination of baseline values of biological indices for later comparison to changes associated with exposure to paint systems and thinners or blast media which include:

(1) liver function tests to include SGOT, SGPT, GGPT, alkaline phosphatase, bilirubin.

(2) complete urinalysis

- (3) EKG (employees over age forty)
- (4) blood urea nitrogen (bun)
- (5) serum creatinine
- (6) pulmonary function test, FVC and FEV
- (7) chest x-ray (if medically indicated)
- (8) blood lead (for individuals where it is known there will be an exposure to materials containing lead)
- (9) other criteria that may be deemed necessary by the Contractor's physician.
- (10) physician's statements for individual employees that medical status would permit specific task performance.

C9A-8.9.2 Change in Medical Status. Any employee whose medical status has changed negatively due to work related chemical and/or physical agent exposure while working with or around paint systems and thinners, blast media, or other chemicals shall be evaluated by a physician and the Contractor shall obtain a physicians statement as described in C9A-8.9.1 (10) above prior to allowing the employee to return to those work tasks. The Contractor shall notify the Contracting Officer in writing of any negative changes in employee medical status and the results of the physician's reevaluation statement.

PART TWO - PRODUCTS

C9A-9. SPECIAL PAINT FORMULAS. The ingredient materials described in this paragraph are applicable only to the special paint formulations not covered by standard specifications specified hereinafter and not to those finished-product coatings governed by Federal or other standard specifications.

C9A-9.1 General. Special paints shall have the composition as indicated in the formulas listed herein. Where so specified, certain components of a paint formulation shall be packed in separate containers for mixing on the job.

C9A-9.2 Colors and Tints. Colors shall conform to the listed chip of Fed. Std. 595. If not specified or otherwise prescribed, the color shall be that naturally obtained from the required pigmentation.

C9A-9.3 Coal Tar Epoxy. Coal Tar Epoxy (Black) Paint (Formula C-200a) shall conform to SSPC-Paint 16 manufactured with Type 1 pitch. In addition to standard labeling, container labels shall include the term, "Corps of Engineers Formula C-200a." Finished product samples submitted for approval shall be accompanied by a list showing all of its raw material ingredients, the name of the manufacturer of each, and the trade name and/or code designation by which the producer identifies his ingredient product.

C9A-9.4 Ingredient Materials and Thinners for Special Paint

Formulations. The following ingredient materials apply only to those paints whose formulations are shown above in detail.

C9A-9.4.1 Pigments and Suspending Agents.

C9A-9.4.1.1 Carbon Black. Carbon black shall conform to ASTM D 561, Type I or II.

PART THREE - EXECUTION

C9A-10. CLEANING AND PREPARATION OF SURFACES TO BE PAINTED.

C9A-10.1 General. Surfaces to be painted shall be clean before applying paint or surface treatments. Deposits of grease or oil shall be removed in accordance with SSPC-SP1, "Solvent Cleaning" prior to mechanical cleaning. Solvent cleaning shall be accomplished with mineral spirits or other low-toxicity solvents having a flashpoint above 100°F. Clean cloths and clean fluids shall be used to avoid leaving a thin film of greasy residue on the surfaces being cleaned. Items not to be prepared or coated shall be protected from damage by the surface preparation methods. Machinery shall be protected against entry of blast abrasive and dust into working parts. Cleaning and painting shall be so programmed that dust or other contaminants from the cleaning process do not fall on wet, newly painted surfaces, and surfaces not intended to be painted shall be suitably protected from the effects of cleaning and painting operations. Welding of, or in the vicinity of, previously painted surfaces shall be conducted in a manner to prevent weld spatter from striking the paint and to otherwise reduce coating damage to a minimum; paint damaged by welding operations shall be restored to original condition. Surfaces to be painted that will be inaccessible after construction, erection, or installation operations are completed shall be painted before they become inaccessible.

C9A-10.2 Ferrous surfaces subject to extended periods of immersion or otherwise as required shall be dry blast cleaned to SSPC-SP 5. The blast profile unless otherwise specified shall be 1.5 to 2.5 mils as measured by ASTM D 4417, Method C. Appropriate abrasive blast media shall be used to produce the desired surface profile and to give an angular anchor tooth pattern. If recycled blast media is used, an appropriate particle size distribution shall be maintained so that the specified profile is consistently obtained. Steel shot or other abrasives that do not produce an angular profile shall not be used. Weld spatter not dislodged by blasting shall be removed with impact or grinding tools and the areas reblasted prior to painting. Surfaces shall be dry at the time of blasting. Blast cleaning to SSPC SP5 shall be done in the field and, unless otherwise specifically authorized, after final erection. Within eight hours after cleaning, prior to the deposition of any detectable moisture, contaminants, or corrosion, all ferrous surfaces blast cleaned to SSPC SP5 shall be cleaned of dust and abrasive particles by brush, vacuum cleaner, and/or blowdown with clean, dry compressed air, and given the first coat of paint. All abrasives used in sandblasting operations shall contain less than 1% silica, unless otherwise approved in writing by the Contracting Officer. The surfaces if shop blasted, shall be shop coated with the first and second coats of the specified

paint system as specified in the paint system instructions. The shop coating shall be maintained in good condition by cleaning and touching up in areas damaged during the construction period. Appearance of pinpoint or general rusting prior to application of field coats will be considered as evidence of poor workmanship, requiring reblasting and repainting at no added cost to the Government. Prior to the field application of subsequent coats, soiled areas of the shop coating shall be thoroughly cleaned and all welds or other unpainted or damaged areas shall be cleaned and coated in such a manner as to make them equivalent to adjacent, undamaged paint surfaces.

C9A-11. PAINT APPLICATION.

C9A-11.1 General. The finished coating shall be free from holidays, pinholes, bubbles, runs, drops, ridges, waves, laps, excessive or unsightly brush marks, and variations in color, texture, and gloss. Application of initial or subsequent coatings shall not commence until a Government representative has verified that atmospheric conditions and the surfaces to be coated are satisfactory or has waived specific verification. All paint coats shall be applied in such manner as to produce an even, continuous film of uniform thickness. Edges, corners, crevices, seams, joints, welds, rivets, and other surface irregularities shall receive special attention to ensure that they receive an adequate thickness of paint. Spray equipment shall be equipped with traps and separators and where appropriate, mechanical agitators, pressure gages, pressure regulators, and screens or filters. Air caps, nozzles, and needles shall be as recommended by the spray equipment manufacturer for the material being applied. Airless-type spray equipment shall be used only on broad, flat or otherwise simply configured surfaces, except that it may be employed for general painting if the spray gun is equipped with dual or adjustable tips of proper types and orifice sizes.

C9A-11.2 Mixing and Thinning. Paints shall be thoroughly mixed, strained where necessary, and kept at a uniform composition and consistency during application. Paste or dry powder pigments specified to be added at the time of use shall, with the aid of powered stirrers, be incorporated into the vehicle or base paint in such a manner as to produce a smooth, homogeneous mixture, free of lumps and dry particles. Where necessary, in the opinion of the Government inspector, to suit conditions of surface, temperature, weather, and method of application, the packaged paint may be thinned immediately prior to use by the addition of not more than one pint per gallon of the proper thinner, provided that this general limitation shall not apply when more specific thinning instructions are provided. Paint that has been stored at low temperature, shall be brought up to at least 70°F before being mixed and thinned, and its temperature in the spray tank or other working container shall not fall below 60°F during the application. Paint that has deteriorated in any manner to such degree that it cannot be restored to essentially its original condition by customary field-mixing methods shall not be used and shall be removed from the project site. Paint and thinner that is more than one year old shall be sampled and submitted for testing to determine its suitability for application.

C9A-11.3 Atmospheric and Surface Conditions. Paints shall be applied only to surfaces that are above the dew point temperature and that are completely free of moisture as determined by sight and touch. In no case shall any paint be applied to surfaces upon which there is detectable frost or ice. Except as otherwise specified, the temperature of the surfaces to be painted and of air in contact therewith shall be not less than 45°F during paint application nor shall paint be applied if the surfaces can be expected to drop to 32°F or lower before the film has dried to a reasonably firm condition. During periods of inclement weather, painting may be continued by enclosing the surfaces and applying artificial heat, provided the minimum temperatures and surface dryness requirements prescribed above are maintained. Paint shall not be applied to surfaces heated by direct sunlight or other sources to temperatures that will cause detrimental blistering, pinholing, or porosity of the film.

C9A-11.4 Time Between Surface Preparation and Painting. Surfaces that have been cleaned and/or otherwise prepared for painting shall be primed as soon as practicable after such preparation has been completed prior to any deterioration of the prepared surface.

C9A-11.5 Method of Paint Application. Unless otherwise specified, paint shall be applied by brush or spray. Special attention shall be directed toward ensuring adequate coverage of edges, corners, crevices, pits, rivets, bolts, welds, and similar surface irregularities. Other methods of application to metal surfaces shall be subject to the specific approval of the Contracting Officer. Whenever application of paint by a specific method to a surface is permitted or directed, it is to be understood that all areas inaccessible to that method shall be coated by alternate means.

C9A-11.6 Coverage and Film Thickness. The actual surface area covered per gallon of paint shall not exceed the spreading rates prescribed for specific paints. Where no spreading rate is specified, the paint shall be applied at a rate normal for the type of material being used. In any event, the combined coats of a specified paint system shall completely hide base surface and the finish coats shall completely hide undercoats of dissimilar color.

C9A-11.6.1 Measurements on Ferrous Metal. Where dry film thickness requirements are specified for coatings on ferrous surfaces, measurements shall be made with one of the thickness gages listed below. They shall be calibrated and used in accordance with ASTM D 1186. They shall be calibrated using plastic shims with metal practically identical in composition and surface preparation to that being coated, and of substantially the same thickness (except that for measurements on metal thicker than 1/4-inch, the instrument may be calibrated on metal with a minimum thickness of 1/4-inch). The instruments shall be calibrated in the thickness range expected to be encountered and the range of accuracy determined. If thickness readings are encountered outside of the calibrated range, the instrument shall be recalibrated and measurements retaken. The instruments shall be calibrated or calibration verified prior to, during and after each use. Authorized thickness gages:

Mikrotest, Elektro-Physik, Inc.
Inspector Gage, Elcometer Instruments, Ltd.
Positest, Defelsko Corporation
General Electric, Type B, General Electric Company
Minitector, Elcometer Instruments, Ltd.
Positector 2000, Defelsko Corporation

C9A-11.7 Progress of Painting Work. Where field painting on any type of surface has commenced, the complete painting operation, including priming and finishing coats, on that portion of the work, shall be completed as soon as practicable, without prolonged delays. Sufficient time shall elapse between successive coats to permit them to dry properly for recoating, and this period shall be modified as necessary to suit adverse weather conditions. Paint shall be considered dry for recoating when it feels firm, does not deform or feel sticky under moderate pressure of the finger, and the application of another coat of paint does not cause film irregularities such as lifting or loss of adhesion of the undercoat. All coats of all painted surfaces shall be unscarred and completely integral at the time of application of succeeding coats. At the time of application of each successive coat, undercoats shall be cleaned of dust, grease, overspray, or foreign matter by means of airblast, solvent cleaning, or other suitable means. Cement and mortar deposits on painted steel surfaces, not satisfactorily removed by ordinary cleaning methods, shall be brush-off blast cleaned and completely repainted as required. Undercoats of high gloss shall, if necessary for establishment of good adhesion, be scuff sanded, solvent wiped or otherwise treated prior to application of a succeeding coat. Field coats on metal shall be applied after erection except as otherwise specified and except for surfaces to be painted that will become inaccessible after erection.

C9A-11.8 Contacting Surfaces. When riveted or ordinary bolted contact is to exist between surfaces of ferrous or other metal parts of substantially similar chemical composition, such surfaces will not be required to be painted but any resulting crevices shall subsequently be filled or sealed off with paint. Contacting metal surfaces formed by high-strength bolts in friction-type connections shall not be painted. Where a nonmetal surface is to be in riveted or bolted contact with a metal surface, the contacting surfaces of the metal shall be cleaned and given three coats of the specified primer. Unless otherwise specified, corrosion-resisting metal surfaces, including cladding therewith, shall not be painted.

C9A-11.9 Drying Time Prior to Immersion. Painted surfaces that are to be immersed in water shall be permitted a final drying time as long as practicable; but in any event, the following minimum requirements shall be met. The cold-applied coal tar system shall not be immersed until the final coat has dried at least seven days. Minimum drying periods may be required to be increased up to twofold if the drying temperature is below 65°F and/or if the immersion exposure involves considerable abrasion.

C9A-11.10 Protection of Painted Surfaces. Where shelter and/or heat are provided for painted surfaces during inclement weather, such protective measures shall be maintained until the

paint film has dried and discontinuances of the measures is authorized. Items that have been painted shall not be handled, worked on, or otherwise disturbed until the paint coat is fully dry and hard. All metalwork coated in the shop or field prior to final erection shall be stored out of contact with the ground in such manner and location as will minimize the formation of water-holding pockets, soiling, contamination, and deterioration of the paint film, and damaged areas of paint on such metalwork shall be cleaned and touched-up without delay. The specified first overall field coat of paint shall be applied within a reasonable period after the shop coat before weathering of the shop coat becomes extensive.

C9A-11.11 Special Directions for Mixing and Applying Coal Tar Epoxy (Black) Paint (Formula C-200a).

C9A-11.11.1 Mixing. Component B shall be added to previously stirred Component A and thoroughly mixed together with a heavy-duty mechanical stirrer just prior to use. The use of not more than one pint of xylene thinner per gallon of paint will be permitted in order to improve application properties and extend pot life. Where applicable, an approved thinner which complies with air pollution regulations shall be substituted for xylene. The pot life of the mixed paint, extended by permissible thinning, may vary from two hours in very warm weather to five or more hours in cool weather. Pot life in warm weather may be extended by: precooling the components prior to mixing; cooling the mixed material; and/or by slow, continuous stirring during the application period. The mixed material shall, in any event, be applied before unreasonable increases in viscosity take place.

C9A-11.11.2 Application. Spray guns shall be of the conventional type equipped with a fluid tip of about 0.09 inch diameter and external atomization, seven-hole air cap. Material shall be supplied to the spray gun from a bottom withdrawal pot or by means of a fluid pump; hose shall be 1/2-inch in diameter. Atomization air pressure shall not be less than 80 p.s.i. High-pressure airless spray equipment may be used only on broad, simply configured surfaces. Brush application shall be carried out with a stiff-bristled tool heavily laden with material and wielded in a manner to spread out the coating smoothly and quickly without excessive brushing. The coverage rate of the material is approximately 110 square feet per gallon per coat to obtain 20 mils (dry thickness) in a two-coat system. The minimum amount of paint applied in any coat shall be such that the deposited material flows together and provides a coherent, pinhole-free film. To promote uniformity of thickness, the direction of the spray passes (or finish strokes if brushed) of the second coat shall be at right angles to those of the first where practicable.

C9A-11.11.3 Subsequent Coats. Except at the high temperatures discussed below, the drying time between coal tar epoxy coats shall be not more than 72 hours, and application of a subsequent coat as soon as the undercoat is reasonably firm is strongly encouraged. Where temperature for substrate or coating surface during application or curing exceeds or can be expected to exceed 125 °F as the result of direct exposure to sunlight, either the surfaces shall be shaded by overhead cover or the interval

between coats shall be reduced as may be found necessary to avoid poor intercoat adhesion, here defined as inability of two or more dried coats of coal tar epoxy paint to resist delamination when tested aggressively with a sharp knife. Under the most extreme conditions involving high ambient temperatures and sun-exposed surfaces, the drying time between coal tar epoxy coats shall not exceed 10 hours, and the reduction of this interval to a few hours or less is strongly encouraged. Where the curing time of a coal tar epoxy undercoat exceeds the above (i.e., 72 hours of curing at normal temperatures or 10 hours at extreme conditions), or where the undercoat develops a heavy blush, frequently caused by its being subjected to moisture soon after application, it shall be given one of the following treatments before the subsequent coat is applied:

(1) Etch the coating surface lightly by brush-off blasting, using fine sand, low air pressure and a nozzle-to-surface distance of approximately three feet.

(2) Remove the blush and/or soften the surface of the coating by wiping it with cloths dampened with 1-methyl-2-pyrrolidone solvent or with Bitumastic 2CB solvent marketed by the Koppers Company, Inc. The solvents may be applied to the surface by fog spraying followed by wiping, but any puddles of solvent must be mopped up immediately after they form. The subsequent coat shall be applied in not less than 15 minutes or more than three hours after the solvent treatment.

C9A-11.11.4 Ambient Temperature. Coal tar epoxy paint shall not be applied when the receiving surface or the ambient air is below 50°F, unless it can be reasonably anticipated that the average ambient temperature will be 50°F or higher for the five-day period subsequent to the application of any coat.

C9A-11.11.5 Safety. In addition to the safety provisions in para C9A-8 above, other workmen as well as painters shall take extra care to avoid inhaling atomized particles of coal tar epoxy paint and to avoid contact of the paint with the skin.

C9A-12. PAINT SYSTEMS TO BE APPLIED--NUMBER OF COATS AND FORMULAS.

C9A-12.1 General. The required paint systems and the surfaces to which they shall be applied are shown in C9A-12.2 below. Supplementary information follows:

C9A-12.1.1 Fabricated and Assembled Items. Items that have been fabricated and/or assembled into essentially their final form and that are customarily cleaned and painted in accordance with the manufacturer's standard practice will be exempted from equivalent surface preparation and painting requirements described herein, provided that: (1) surfaces primed (only) in accordance with such standard practices are compatible with specified field-applied finish coats, (2) surfaces that have been primed and finish painted in accordance with the manufacturer's standard practice are of acceptable color and are capable of being satisfactorily touched up in the field, and (3) items expressly designated herein to be cleaned and painted in a specified manner

are not coated in accordance with the manufacturer's standard practice if different from that specified herein.

C9A-12.1.3 Surface Preparation. The method of surface preparation and pretreatment shown in the tabulation of paint systems is for identification purposes only. Cleaning and pretreatment of surfaces prior to painting shall be accomplished in accordance with detailed requirements hereinbefore described.

C9A-12.2 Paint Systems and Painting Schedule. See C9A-12.3 below for supplementary application instructions pertaining to the following paint system:

SYSTEM NO. 6

Items or surfaces to be coated: Both sides of sheet pile as follows:

The limits of painting of steel sheet piling under utilities TC-1, ST-1 & DT-1 on West Bank are shown on the drawings 40-43. Interlock grooves of the sheet piling shall not be painted. The unpainted portions of sheet piling which are to be embedded in concrete shall be free from surface contaminants such as oil, loose particles, or similar conditions that would prohibit bonding between the concrete and the sheet piling. Before redriving existing AZ-18 steel sheet piling on East Bank from approximately Sta. 99+91.07 EB/L to Sta. 100+10.42 EB/L, the Contractor will touch up any paint damaged on both sides of AZ-18 steel sheet piling.

Surface Preparation	Paint Formulas to be Applied		
	1st Coat	2d Coat	2d Coat
Approaching white metal blast cleaning	Coal tar epoxy (black) C-200a	Coal tar epoxy (black) C-200a	Coal tar epoxy (black) C-200a (if needed to attain required thickness)

C9A-12.3 Supplementary Application Instructions. Surfaces shall be coated with the system indicated in the schedule and/or noted on the drawings in accordance with the following instructions:

C9A-12.3.1 System No. 6. The coal tar epoxy paint shall be applied by brush or spray in not less than two coats to provide a total thickness at any point of not less than 16 mils. The specified film thickness shall be attained in any event and any additional (beyond two) coats needed to do so shall be applied at no additional cost to the Government. See safety provisions and special direction for applying coal tar epoxy paint.

C9A-13 PROTECTION OF NON-PAINTED ITEMS AND CLEANUP. Walls, equipment, fixtures and all other items in the vicinity of the surfaces being painted shall be maintained free of damage by paint or painting activities. Prompt cleanup of any paint spillage and prompt repair of any painting activity damage shall be required.

C9A-14. MEASUREMENT AND PAYMENT. No separate measurement and payment will be made for painting. Payment for all painting work performed and for all materials furnished under the section of the specifications will be included in the contract prices for the items on which the work is performed.

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists

4176 Canal St. • New Orleans, LA 70119 • (504) 488-5501 • FAX 488-1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job No.

8 4 0 7 0 8

Date: FEB 4, 1994

Job Title

London Avenue Outfall Canal

Sending to: (FAX No. 504-862-1585)

US Army Corps of Engineers

New Orleans District

P.O. BOX 60267

New Orleans, LA 70160-0267

ATTN: Angela DeSoto

Message:

Please fax back your comments, Thank you.

From:

Suresh Shah

Burk-Kleinpeter, Inc.

New Orleans, LA 70119

Fax - 504-488-1714

12

Total number of pages in this transmittal (including this cover sheet)

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SECTION C2G - STEEL SHEET PILING
PART 1 - GENERAL

C2G-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 Contractor furnished steel sheet piling in accordance with these specifications and applicable drawings.

C2G-2. RELATED WORK SPECIFIED ELSEWHERE.

C2G-2.1 Metalwork Fabrication. Section C5B, "METALWORK FABRICATION, MACHINE WORK, AND MISCELLANEOUS PROVISIONS".

C2G-2.2 Painting. Section C9A, "PAINTING".

C2G-3. APPLICABLE PUBLICATIONS. The following American Society for Testing and Materials (ASTM) standards of the issues listed below and referred to thereafter by basic designation only form a part of this specification to the extent indicated by the references thereto:

A 36-91	Structural Steel
A 328-90	Steel Sheet Piling
A 572-91	High-Strength Low-Alloy Columbian-Vanadium Steels of Structural Quality
A 325-91c	High-Strength Bolts for Structural Steel Joints

C2G-4. QUALITY ASSURANCE. Requirements for material tests, workmanship and other measures for quality control shall be as specified herein and in Section C5B, "METALWORK FABRICATION, MACHINE WORK, AND MISCELLANEOUS PROVISIONS".

C2G-4.1 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.

C2G-5. SUBMITTALS. The Contractor shall submit descriptions of sheet piling driving equipment, shop drawings, test procedures, test reports and certificates, sheet piling driving records and other submittals to the Contracting Officer for approval as required. Submittals and associated work not satisfactory to the Contracting Officer will be rejected.

C2G-5.1 Equipment Descriptions. Complete descriptions of sheet piling driving equipment including hammers, extractors, protection caps and other installation appurtenances shall be submitted for approval prior to commencement of work.

C2G-5.2 Shop Drawings. Shop drawings for sheet piling, including fabricated sections, shall be submitted for approval and shall show complete piling dimensions and details, driving

sequence and location of installed piling. Shop drawings shall include details and dimensions of templates and other temporary guide structures for installing piling, and shall provide details of the method of handling piling to prevent permanent deflection, distortion or damage to piling interlocks.

C2G-5.3 Materials Test Certificates. 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.

C2G-5.4 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. The format for driving records shall be as directed by the Contracting Officer.

C2G-5.5 Jacking of PZ-22 Steel Sheet Piling in Segments Under Existing Telephone Cables (TC-1), 10 FT. Diameter Steel Siphon Tube (ST-1) and 50 in. Diameter Steel Discharge Tube (DT-1). The Contractor shall submit, for approval, details for installing the sheet piling at these locations. Details shall include the following.

- (1) Excavation details and shoring design if required.
- (2) Step by step procedure of sheet pile installation, placement, driving, etc. is outlined on Dwgs. 40-43. The installation procedure shown on the drawings is a suggested procedure and the Contractor can submit his own procedure for approval.
- (3) Sheet pile fabrication, if required.
- (4) Proposed number of segments per sheet pile section to be driven.

The Contractor shall not damage these pipes and any damage done by his operation shall be repaired at his own expense. The limits for painting the sheet piling are shown on the drawings 37-38. For painting details, see section C9A, "PAINTING".

C2G-6. QUALITY CONTROL

C2G-6.1 General. The Contractor shall establish and maintain quality control for pile driving operations to assure compliance with contract specifications and maintain records of his quality control for all construction operations including, but not limited to, the following:

- (1) Full and proper engagement of interlocks.
- (2) Driving (pile hammer and rate of operation).
- (3) Final position; depth of penetration; tip and cut-off elevations.
- (4) Length of cover plate and weld size.
- (5) Accurate location, alignment and plumbness of piling.

- (6) Manufacture and driving of fabricated sections.
- (7) Stockpiling and Storage.
- (8) Cutting and Splicing (Welding).
- (9) Uplift and vertical tolerances after driving.
- (10) Pulled piles and redriving.
- (11) Removal and disposal of damaged piles.
- (12) Location and elevation of any obstruction encountered and action directed by Contracting Officer.

C2G-6.2 Reporting. The original and two copies of these records and tests, as well as the records of corrective action taken, shall be furnished to the Government daily. Format of the report shall be as prescribed in the Special Clause entitled "CONTRACTOR QUALITY CONTROL".

C2G-7. DELIVERY, STORAGE AND HANDLING. Materials delivered to the site shall be new and undamaged and shall be accompanied by certified test reports. Steel sheet piling shall have the manufacturer's logo and mill identification mark, which corresponds to the certified test reports, stamped on each unspliced length in a minimum of two locations. Sheet piling shall be stored and handled in the manner recommended by the manufacturer to prevent permanent deflection, distortion or damage to the interlocks. Storage of sheet piling should also facilitate required inspection activities. Piling shall not be delivered to the site prior to receipt of written approval from the Contracting Officer.

PART 2 - MATERIALS

C2G-8. MATERIALS.

C2G-8.1 Steel for sheet piling shall conform to the requirements of ASTM A 328. Sheet piling, including special fabricated sections, shall be of the type and dimensions indicated on the drawings, and be of a design such that when in place they will be continuously interlocked throughout their entire length. All sheet piling shall be provided with standard pulling holes located approximately 4 inches below the top of the pile, unless otherwise shown or directed. Piling shall have the properties equivalent to those listed in the following table:

PROPERTIES OF SECTIONS

Type of Section	Nominal Web Thickness (Inches)	Section Modulus (in. ³ /Ft. of Wall)	Moment of Inertia (in. ⁴ /Ft. of Wall)	Nominal Section Depth (In.)	Minimum Interlock Strength (Lbs/Lin In.)	Theoretical Driving Width (In.)
PZ 22	.375	18.1	154.7	9	- - - -	22
PSA 23	.375	2.4	- - -	- -	12,000	16

C2G-8.1.1 Substitute Sheet Pile Sections. The Contractor may elect to substitute for the sheet piling shown on the contract drawings and specified above, in accordance with C2G-8.1.1.1 or C2G-8.1.1.2 below. Combinations of substitute piling types shall not be permitted.

C2G-8.1.1.1 At no additional cost to the Government, new Z-type steel sheet piling conforming to ASTM A 328, with a minimum material thickness of .335 inches, a maximum overall width of 26 inches and meeting the following section properties, may be substituted in kind for the listed sections:

Substitute Section		
Section Designated on Contract Drawings	Minimum Section Modulus (in. ³ /Ft. of Wall)	Nominal Depth (In.)
PZ 22	18.1	9±10%

C2G-8.1.1.2 At no additional cost to the Government, new Z-type steel sheet piling conforming to ASTM A 572 Grade 50, with a minimum material thickness of .335 inches, a maximum overall width of 26 inches and meeting the following section properties, may be substituted in kind for the listed sections:

Substitute Section		
Section Designated on Contract Drawings	Minimum Section Modulus (in. ³ /Ft. of Wall)	Nominal Depth (In.)
PZ 22	14.00	9±10%

C2G-8.1.1.3 When proposing substitute piling, the Contractor shall submit, for approval, the following items at no additional cost to the Government:

(1) Complete shop drawings of the proposed sections showing the dimensions and details of the alternate piling including all fabricated and corner sections.

(2) A complete layout of the alternate sheet piling.

The P.I. Stations and I-wall transition lengths shall remain unchanged. Typical concrete I-wall monolith lengths may be altered to better accommodate the substitute piling driving widths. It shall be the Contractor's responsibility to make any adjustments necessary in his formwork so that the architectural treatment of the concrete is properly maintained.

C2G-8.1.2 All new sheet piling shall be provided in full lengths except for jacking under telephone cables and drainage pipes on West Side.

C2G-8.2 Rolled Corners. Rolled corners, formed with new sheet piling, shall be of the types and dimensions shown on the drawings. Any proposed variations from the details shown on the drawings shall be submitted for approval of the Contracting Officer. The sheet pile types shall be as required for the corners being manufactured and shall conform to the requirements of ASTM A 328 and all other requirements stated above for new piling.

C2G-8.3 Fabricated Sections. Fabricated sections shall conform to the requirements stated herein, the details shown on the drawings and the piling manufacturer's recommendations for fabricated sections. Metalwork fabrication for sheet piling sections shall conform to the requirements of Section C5B. Steel plates and angles used to fabricate the special sections shall conform to ASTM A 36.

C2G-8.4 Pull, Clean with jet of water, Salvage, and Deliver Existing Steel Sheet Piling. The Contractor shall pull, clean and salvage approximately 273 linear feet of existing AZ-18 sheet piling north of Mirabeau Ave. on the east bank. The Contractor shall redrive approximately twenty linear feet of these sheet piling as shown on plans. The Contractor shall repair the protective coating on AZ-13 sheet piling prior to redriving. For paint requirements see Section C9A, "PAINTING". The contractor shall deliver remaining sheet piling to the Orleans Levee Board's maintenance yard, 6920 Franklin Ave., N.O., LA 70122, at no additional cost. Cut-offs shall become the property of the Contractor and shall be removed from the worksite.

C2G-8.5 Cutting-Off Existing Steel Sheet Piling. The Contractor shall cut-off existing AZ-18 steel sheet piling between Filmore Ave. and Pumping Station No. 4 and PZ-27 & AZ-10 steel sheet piling between Pumping Station No. 4 and Robert E. Lee Blvd. to the required elevation as shown on the drawings. After cutting-off above steel sheet piling to the required elevation, the contractor shall drill standard pulling holes located approximately 4 inches below the top of the pile.

C2G-9 INSTALLATION

C2G-9.1 Placing and Driving.

C2G-9.1.1 Placing. Any excavation required within the area where sheet pilings are to be installed shall be completed prior to placing sheet pilings. Pilings shall be carefully located as shown on the drawings. Pilings shall be placed as true to line as possible. Suitable temporary wales, templates, or guide

structures shall be provided to insure that the piles are placed and driven to the correct alignment. Piles shall be placed in a plumb position with each pile interlocked with adjoining piles for its entire length, so as to form a continuous diaphragm throughout the length of each run of piling wall. Interlocks shall be properly engaged.

C2G-9.1.2 Driving. All piles shall be driven to the depths shown on the drawings and shall extend to the cut-off elevation indicated. A tolerance of 1-1/2 inches above or below the indicated cut-off elevation will be permitted. Pilings shall be driven by approved methods so as not to subject the pilings to damage and to insure proper interlocking throughout their lengths. Pile 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 required, to prevent damage to the tops of pilings. Pilings damaged during driving or driven out of interlock shall be removed and replaced. All piles shall be driven without the aid of a water jet. Adequate precautions shall be taken to insure that piles are driven plumb. Sheet piling shall not be driven more than 1/4 inch per foot out of plumb in the plane of the wall nor more than 1/8-inch per foot out of plumb perpendicular to the plane of the wall. If at any time the forward or leading edge of the piling wall is found to be out-of-plumb more than 1/4-inch per foot in the plane of the wall or 1/8-inch per foot perpendicular to the plane of the wall, the assembled piling 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 1/4 inch per foot of length. Unless specifically indicated otherwise, each run of piling wall shall be driven to grade progressively from the start and pilings in each run shall be driven alternately in increments of depth to the required depth or elevation. On each day of sheet pile driving, the Contractor shall stab only the number of piles that can be driven to grade by the end of the day, and all piling stabbed shall be driven to grade by the end of each working day except that the last two piles may remain tapered up to receive the next day's piles. No pile shall be driven to a lower elevation than those behind it in the same run except when the piles behind it cannot be driven deeper or in areas where there will be wall penetrations or obstructions are encountered. In this case, piling will be allowed to remain above final grade until the obstruction is removed or the penetration is completed. Alternately, if it is determined that an obstruction cannot be removed, the Contractor shall make such changes in design alignment of the pile structure as may be deemed necessary by the Contracting Officer to insure the adequacy and stability of the structure. Payment for the additional labor and materials necessitated by such changes will be made by an equitable adjustment under the "Changes" clause of the contract. If the piling next to the one being driven tends to follow below final grade, it may be pinned to the next adjacent piling. The Contractor is advised that buried stumps or similar debris may be encountered periodically on the sheet pile wall alignment and appropriate consideration should be given to hard driving conditions should they occur. Piles shall not be driven

within 100 feet of concrete less than 7 days old nor within 30 feet of concrete less than 28 days old.

C2G-9.1.3 Emergency Locking System on Pile Driving Head. All pile driving equipment shall be equipped so as to prevent piles from falling when a single or multiple power failure occurs after the pile driving head is attached to the pile. The jaws of vibratory hammers shall be equipped with devices such that upon loss of hydraulic pressure, the jaws will not release the pile.

C2G-9.2 Cutting Off and Splicing. Piles extending above grade in excess of the specified tolerance, and which cannot be driven deeper, shall be cut off to the required grade. The Contractor shall also trim the tops of piles excessively battered during driving, when directed to do so, at no cost to the Government. Cut-offs shall become the property of the Contractor and shall be removed from the worksite. Piles driven below the elevations indicated for the top of piles and piles which, because of damaged heads, have been cut off to permit further driving and are then too short to reach the required top elevation, shall be extended to the required top elevation by welding an additional length, when directed, without cost to the Government. Should splicing of additional lengths be necessary, the splice shall consist of an approved butt joint with a weld that fully penetrates the web. Welded extensions shall be a minimum of 6 inches in length. Piles adjoining spliced piles shall be full length unless otherwise approved. When piles are to be driven in sections and spliced together, they shall be delivered on site in full lengths and cut for splicing only after delivery. Only those portions of the originally uncut pile shall be spliced together to form the final in-place full-length pile. Splices for these piles shall conform to the details shown on the drawings. Welding of splices shall conform to the requirements of Section C5B. Ends of pilings to be spliced together 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 Contractor may cut holes in the piles for bolts, rods, drains or utilities at locations and of sizes shown on the drawings or as directed. All cutting shall be done in a neat and workmanlike manner. Bolt holes in steel piling shall be drilled or may be burned and reamed by approved methods which will not damage the remaining metal. Holes, other than bolt holes, shall be reasonably smooth and of the proper size for rods and other items to be inserted.

C2G-9.3 Inspection of Driven Piling. The Contractor shall inspect the interlocked joints of driven pilings extending above ground. Pilings found to be damaged or driven out of interlock shall be removed and replaced at the Contractor's expense.

C2G-9.4 Pulling and Redriving. The Contractor may be required to pull selected piles after driving, for test and inspection, to determine the condition of the piles. Any pile so pulled and found to be damaged to the extent that its usefulness in the structure is impaired shall be removed from the work and the Contractor shall furnish and drive a new pile to replace the

damaged pile. Piles pulled and found to be in satisfactory condition shall be redriven.

C2G-9.5 Void Backfill. Where voids adjacent to the steel sheet piling are induced by pile driving operations or caused by the removal of existing sheetpiling, the Contractor shall pump out all rain water and backfill with a cement-sand-bentonite slurry. The Contractor shall backfill with a cement-sand-bentonite slurry by the tremie or pump down method such that any water in the void is not mixed with but displaced by the slurry. The slurry shall consist of one part cement and two parts bentonite, and three parts sand mixed with enough water to produce a slurry liquid enough to thoroughly fill voids but have no less than twelve pounds of solids per gallon. The sand portion of the slurry shall meet the following gradation:

SAND GRADATION

<u>U.S. STANDARD SIEVE SIZE</u>	<u>REQUIRED PERCENT PASSING BY WEIGHT</u>
3/8 Inch	100
No. 4	100 - 90
No. 200	20 - 0

C2G-9.6 Painting. Piling shall be painted in accordance with Section C9A, "PAINTING".

C2G-9.7 Vibration Monitoring.

C2G-9.7.1 Scope. An independent testing laboratory retained by the Orleans Levee District will monitor vibrations during pile driving operations. If more than one pile driving rig is in operation at any time, each rig shall be independently monitored. Vibration monitoring during other Contractor operations may be done at the discretion of the Orleans Levee District.

C2G-9.8 PRECONSTRUCTION SURVEY.

C2G-9.8.1 Scope. An independent party retained by the Orleans Levee District will perform the preconstruction survey of residential properties prior to the commencement of work.

C2G-10. QUANTITIES. The estimated quantities of sheet piling listed in the unit price schedule of the contract are given for bidding purposes only. Sheet piling quantities for payment shall consist of the square feet of piling acceptably installed between the indicated top and tip of pile elevations.

C2G-11. MEASUREMENT AND PAYMENT.

C2G-11.1 Measurement. The length of PZ-22 sheet piles, PSA-28 bent corners, or fabricated sections and bent corners driven or pulled will be measured to the nearest tenth of a linear foot and converted to square feet for payment purposes. The square footage will be determined by multiplying the number of piles times the measured length acceptably driven below the cut-off elevation shown on the drawings times the theoretical driving width of the pile. The number of piles paid for shall not exceed

the number of piles indicated on the approved shop drawings. When driven piles are directed to be cut off before reaching penetration depths shown on the drawings, that portion cut off will be measured for payment on the basis of its total length, provided that the length is not greater than the difference between the total length of piles shown on the plans for that location and the length of piles driven below the point of cut-off. No deduction will be made for holes cut for drains and utilities, in computing the square footage of steel sheet pile structures.

No separate measurement will be made for existing steel sheet piling to be pulled, cleaned, salvaged, and delivered without damage.

The length of each PZ-22 sheet pile jacked under SCB and S&WB utilities on the West Bank will be measured to the nearest tenth of a linear foot and converted to square feet for payment purposes.

No separate measurement will be made for redriving and repairing the protective coating on AZ-18 prior to redriving approximately twenty linear feet of salvaged AZ-18 steel sheet piling.

C2G-11.1.1 Steel Sheet Piling Cofferdams Steel sheet piling used for temporary flood protection will not be measured for payment.

C2G-11.1.2 Void Backfill. The sheet piling void backfill will not be measured for payment.

C2G 11.2 Payment

C2G-11.2.1 Sheet Piling

Payment for PZ-22 steel sheet piling quantities will be made at the contract price per square foot for "Piling, Steel Sheet, Type PZ-22".

Payment for redriving approximately twenty linear feet of salvaged AZ-18 steel sheet piling will be made at the contract price per lump sum for "Redriving approximately 20 linear feet of existing AZ-18 steel sheet piling".

Payment for fabricated sections and bent corners and each special FSA-23 bent corners will be made at the contract price per square foot for "Piling, Steel Sheet, Type FSA-23". Prices shall include all cost of fabricating, adding cover plates, furnishing, driving, cutting holes, splicing, backfilling voids, and all other work incidental to acceptably installing the steel sheet piling.

Piling used for temporary flood protection will be paid in accordance with Section C2H, "TEMPORARY FLOOD PROTECTION".

Payment for existing sheet piling quantities to be pulled, cleaned with jet of water salvaged, and delivered will be made at the contract price per lump sum for "Pull, Clean with jet of water, Salvage and Deliver Approximately 273 Linear Feet of Existing Steel Sheet Piling".

Payment for cutting off existing AZ-18 sheet piling at required elevation shall be paid at the contract price per lump sum for

"Cutting off existing A2-18 sheet piling at required elevation"

C2G-11.2.2 Cut-Offs and Splices. Cut-offs and/or splices which are required to construct the sheet pile structures as shown on the drawings and as specified herein, and which are necessitated due to Contractor negligence in any procedure required to install such structures shall be provided at no additional cost to the Government. Cut-offs and/or splices which are required through no fault of the Contractor shall be paid for by lump sum payments of \$10.00 per cut-off and \$25.00 per splice. Additionally, the portion of a Contractor furnished pile which is cut off and not reused when the Contractor is deemed to be not at fault, shall be paid for at 70 percent of the applicable contract unit price for the amount measured in accordance with C2G-11.1 above.

C2G-11.2.3 Pulled Piles. Piles which are directed to be pulled and found to be in good condition will be paid for at the contract price (or furnishing and driving the pile in its original position plus 50 percent of that amount for the cost of pulling and redriving the pile. When piles are pulled and found to be defective and/or damaged due to Contractor negligence, no payment will be made for originally furnishing and driving such piles, nor for the operation for pulling. Piles replacing defective or damaged piles will be paid for at the applicable contract unit price. Piles which are pulled and found to be damaged through no fault of the Contractor, will be paid for at 100% of the applicable unit price for the damaged pile and 100% of the applicable unit price for driving the replacement pile. The cost of pulling the damaged pile shall be paid for at 25% of the applicable contract unit price.

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073	TRANSMISSION		9-4881714	05	OK

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FACSIMILE HEADER SHEET

U.S. ARMY CORPS OF ENGINEERS

NEW ORLEANS DISTRICT

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

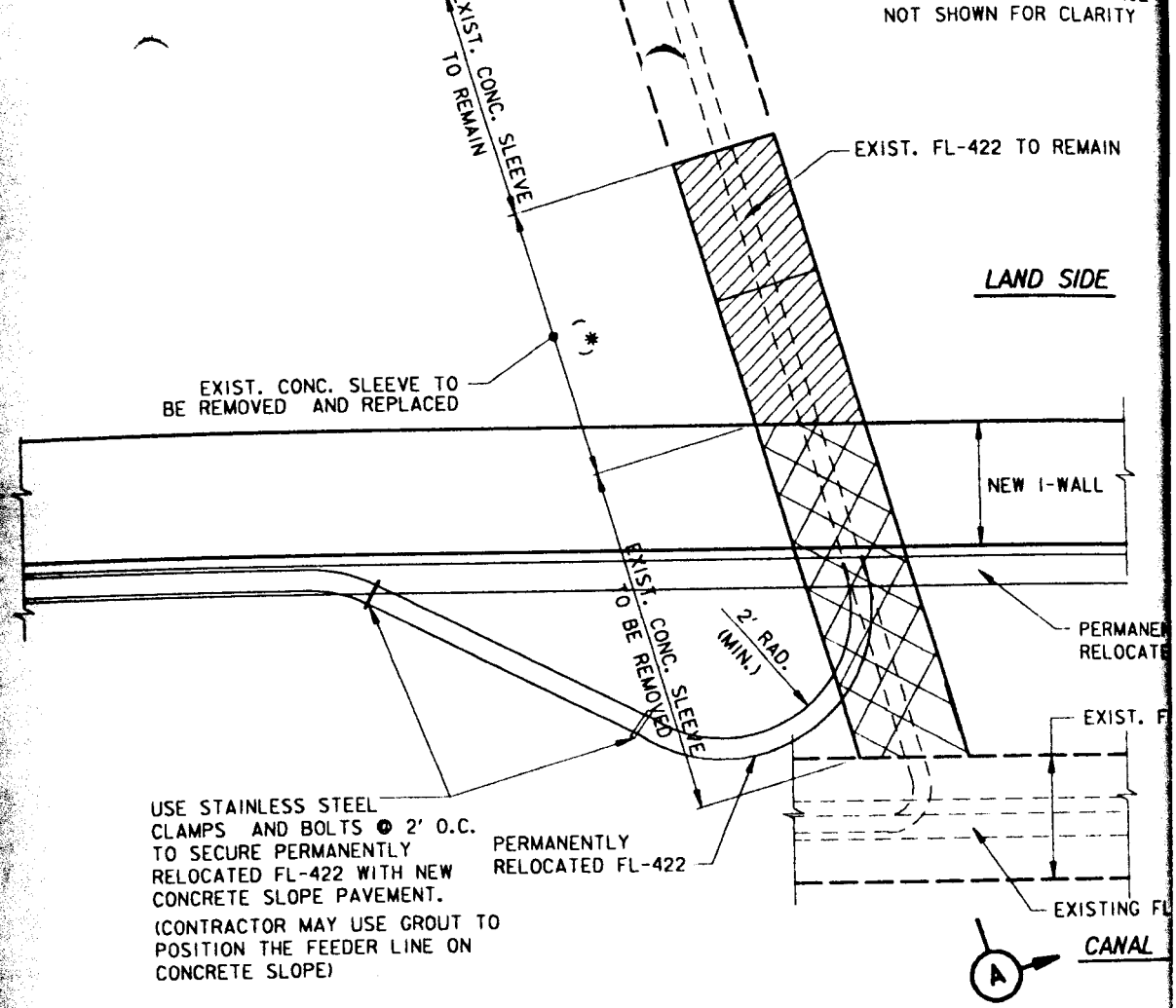
US Army Corps of Engineers

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u>Burk</u>	Office Symbol	<u>ED-DD</u>
Telephone No.	<u>486-5901</u>	Telephone No.	<u>862-2733</u>
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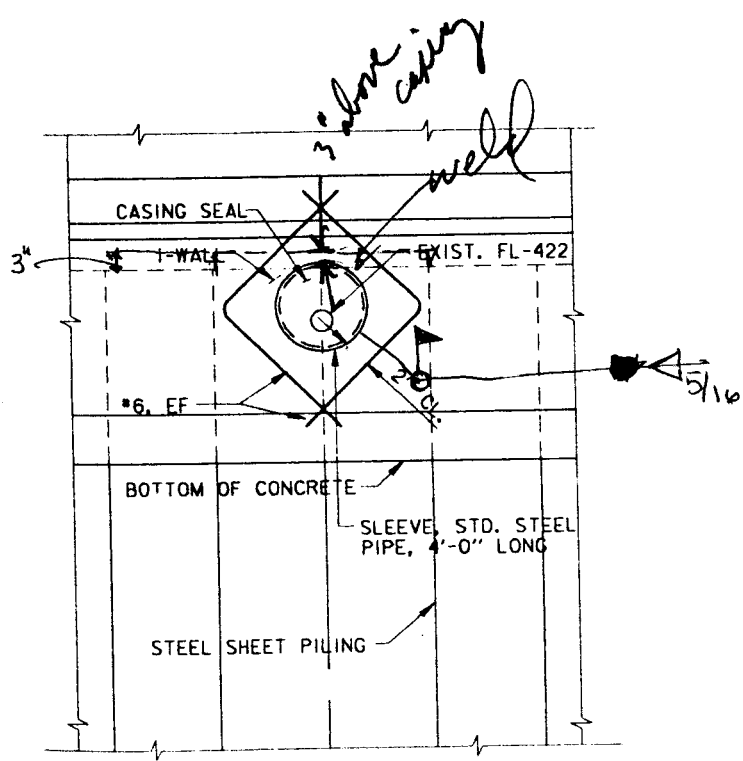
If you need anything tomorrow,
try me. at 895-1405. I'll be in
and out all day

Angela



PLAN

SCALE: 3/4" = 1'-0"



SLEEVE, STD. STEEL PIPE, 4'-0" (10" DIA.) LONGER THAN CASING

EXIST. FL-422 FINISH GRADE

THIS DIMENSION WILL BE USED TO DETERMINE HOW MUCH CONCRETE IS REQUIRED TO JACK THE SHEET PILING.
 THE CONTRACTOR SHALL PROVIDE THE CONCRETE SLEEVE OVER ALL EXPOSED FL-422 ON LAND SIDE. THE CONTRACTOR WILL ALSO PROVIDE SPLIT STEEL PIPES WITH CLAMPS TO PROTECT THE EXPOSED FL-422 ON LAND SIDE DURING CONSTRUCTION.

IDE

NOTE:
 NOTCH PZ-22 SHEET PILE TO CROSS FL-422 THRU IT.

(**)

NO CLAMPS WILL BE PROVIDED FOR FL-400 OVER STEEL SLEEVE. FL-400 WILL REST DIRECTLY ON STEEL SLEEVE FOR FL-422.

LL

PERMANENTLY RELOCATED FL-400

EXIST. FLOODWALL TO BE REMOVED

EXISTING FL-400
 CANAL SIDE

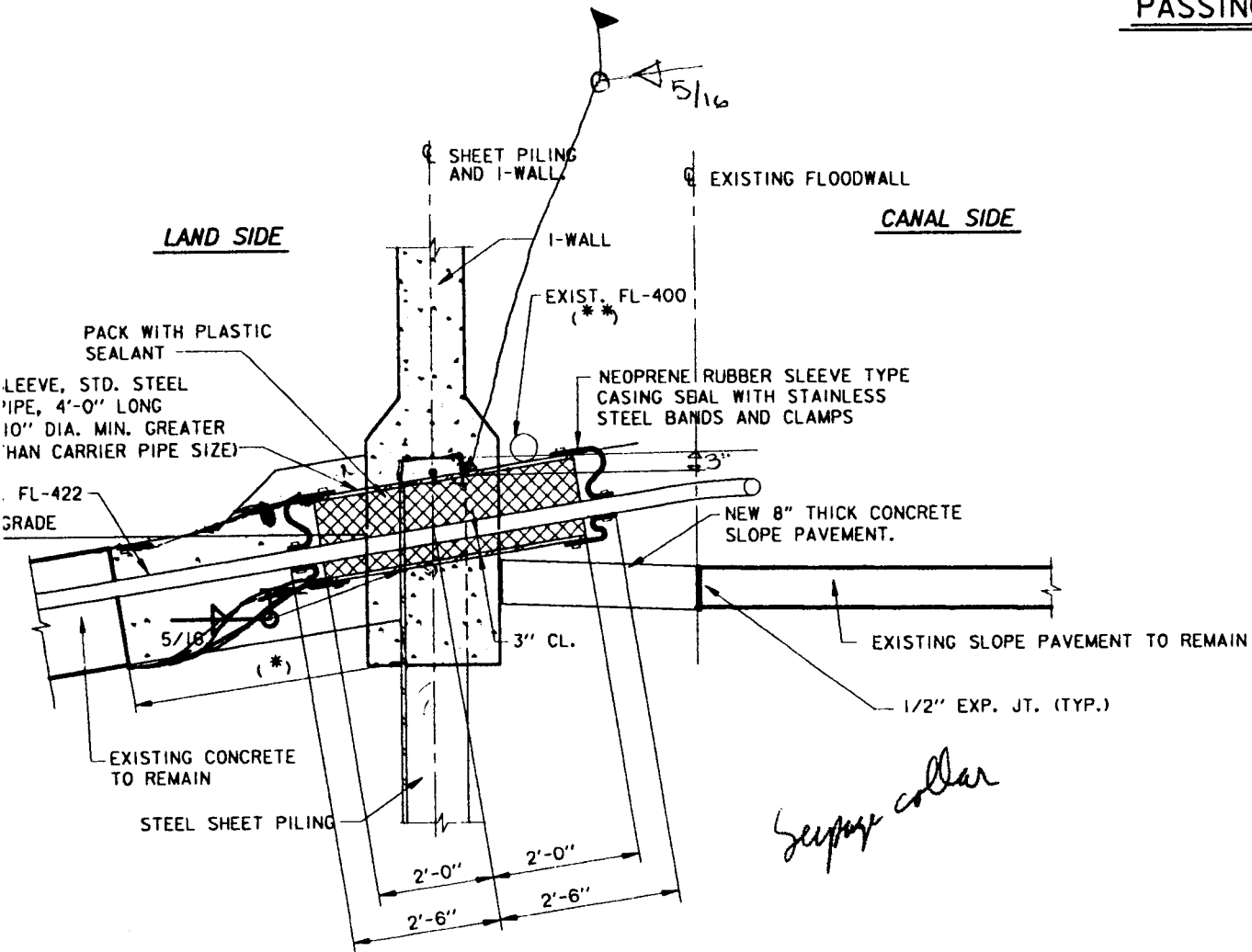
RE-DRIVEN AZ-18 SHEET PILE

SPLIT SLEEVE, STD. STEEL PIPE, 3'-0" LONG (10" DIA. MIN. GREATER THAN FEEDER LINE SIZE)

NOTE: NOTCH SHEET PILING TO PASS CASINGS. NOTCH MATERIAL REMOVED WILL BE WELDED BACK TO CLOSE HOLE IN SHEET PILING.

DETAILS OF S&W
PASSING THRU THE
APPROXIMATE

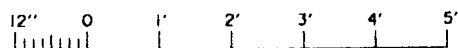
SCALE



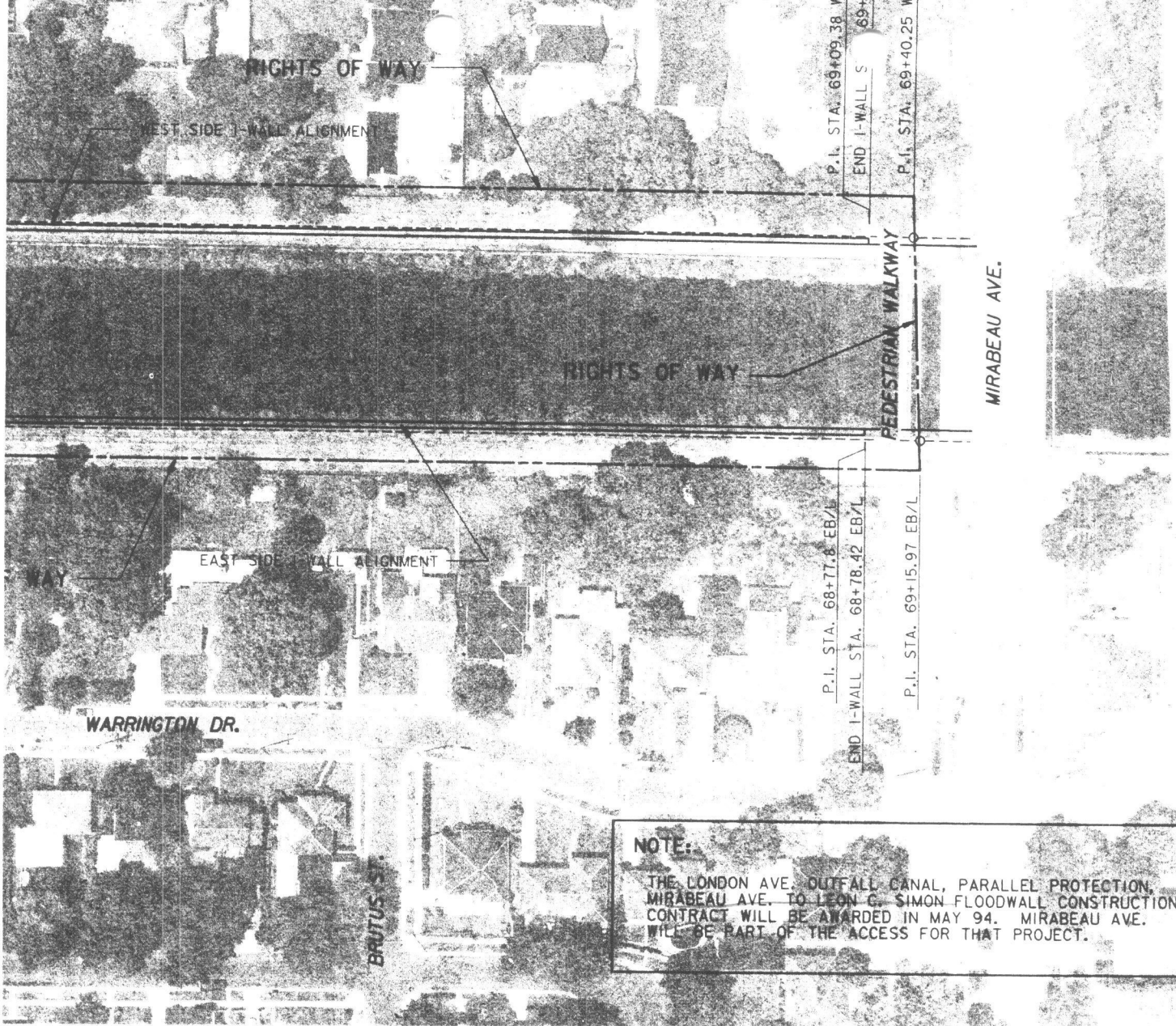
SECTION A-A

SCALE: $3/4" = 1'-0"$

SCALE: $3/4" = 1'-0"$




LINE 422



NOTE:
 THE LONDON AVE. OUTFALL CANAL, PARALLEL PROTECTION, MIRABEAU AVE. TO LEON C. SIMON FLOODWALL CONSTRUCTION CONTRACT WILL BE AWARDED IN MAY 94. MIRABEAU AVE. WILL BE PART OF THE ACCESS FOR THAT PROJECT.

SCALE: 1" = 50'



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LA. AND VICINITY HIGH LEVEL PLAN LONDON AVE. OUTFALL CANAL, PARALLEL PROTECTION PUMP. STATION NO. 3 TO MIRABEAU AVE. FLOODWALL ORLEANS PARISH, LOUISIANA CONSTRUCTION SERVITUDE AND RIGHTS OF WAY			
DESIGNED BY: A.L.D.	DATE: JUNE 93	PLOT SCALE: 600	PLOT DATE: 14 JULY 93
DRAWN BY: D.J.B.	CADD FILE: 40145012.DGN		FILE NO. H-4-40145
CHECKED BY: W.O.B.	SOLICITATION NO. DACW29-93-B-0080		DWG. 7 OF 58
SUBMITTED BY: WALTER O. BAUMY JR., P.E. DESIGN ENGINEER			



Note:

The London Ave. Outfall Canal, Parallel Protection, Pump Station #3 to Mirabeau Ave. Floodwall was awarded in October 93. Construction should be finished in June 95. Mirabeau Ave. is part of the access for that Project.

~~and will take precedence over this project.~~

**PRE-SOLICITATION NOTICE
(Construction Contract)**

1. PROJECT NO. DACW29-94-B-0047	2. DATE OF NOTICE 02/03/94	3. DATE SOLICITATION DOCUMENTS AVAILABLE (Approx.) 03/11/94	FORM APPROVED OMB NO. 9000-0037
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Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (VRS), Office of Federal Acquisition and Regulatory Policy, GSA, Washington, D.C. 20405; and to the Office of Management and Budget, Paperwork Reduction Project (9000-0037), Washington, D.C. 20503.

NOTE: The project number in Items 1 and 16 may be the same as the Invitation or Proposal Number.

4. OFFERS TO BE RECEIVED BY (at place specified for receipt of offers)	A. TIME 1400 A.M. P.M.	B. DATE (Month, day, year) 04/12/94	5. TIME FOR COMPLETION (Calendar days) 540
6A. ISSUING OFFICE (Name, address, and ZIP code) US ARMY ENGR DIST NEW ORLEANS PO BOX 60267 NEW ORLEANS LA 70160-0267 Sheila W. Enclade SC1		7. PROJECT TITLE AND LOCATION Lake Pont, LA & Vicinity, London Ave Outfall Canal, Parallel Prot, Mirabeau Ave to Leon C Simon Blvd. E.B., & Mibabeau Ave to Robert E Lee Blvd., W.B., Orleans Parish, LA	
6B. ROOM NO. 172	6C. TELEPHONE NO. (Include area code) (504) 862-1514		

INSTRUCTIONS: a. Solicitation Documents will be issued upon receipt of your affirmative response to this Pre-Solicitation Notice by the DUE DATE set forth in Item 15. b. If a charge is required under Item 8A, your affirmative response must include a check or money order in the applicable amount, made payable to Agency (shown in Item 9). Refund (when specified in Item 8B) will be made upon your return of the bid documents in good condition, without marks, notes, or mutilations, within 20 calendar days after the final date for receipt of offers. c. The Issuing Office, at its discretion, may make bid documents available to plan rooms of the Associated General Contractors, Chambers of Commerce, Dodge Reports, and other similar contractors' commercial service facilities. d. Bid guarantee is required with any bid in excess of \$25,000. Bid guarantee shall be in the amount of 20 percent of the amount of the bid, or \$3,000,000, whichever is less. For bid guarantee purposes, the amount of the bid is the aggregate of the Lump Sum Base Bid, all Alternates (if any), and the product(s) of each unit price (if any) multiplied by the applicable number of units shown on the Bid Form. e. NOTICE TO SMALL BUSINESS FIRMS: A program for the purpose of assisting qualified small business concerns in obtaining certain bid, payment, or performance bonds that are otherwise not obtainable is available through the Small Business Administration (SBA). For information concerning SBA's surety bond guarantee assistance, contact your SBA District Office.

8A. CHARGE FOR SOLICITATION DOCUMENTS \$ 25.00	8B. IS THIS CHARGE REFUNDABLE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9. MAKE CHECK PAYABLE TO: FAO, USAED, NO
10. ESTIMATED COST RANGE OF PROJECT A. FROM \$ 5,000,000.00 B. TO \$ 10,000,000.00		11. OFFERS COVERING THE PROJECT RESTRICTED TO SMALL BUSINESS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13. DESCRIPTION OF WORK (Physical characteristics)		12. SUBCONTRACTING PLAN REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Consists of clearing; selective demolition; cutting existing steel sheetpiling; pulling, cleaning, & delivering existing steel sheetpiling; driving new steel sheetpiling; construction reinforced concrete I-wall on existing and new steel sheetpiling; constructing reinforced concrete slope pavement, driving steel sheetpiling under South Central Bell telephone cables and New Orleans Sewerage and Water Board 10 foot diameter siphon tube and 50 inch diameter discharge pipe; relocating Sewerage and Water Board feeder cable; modifying existing utilities; degrading existing levees; placing embankment; fertilizing, seeding and grubbing. \$50.00 f/scale, Unrestricted.

The Energy & Water Development Appropriations Act, 1993, (PL102-377, 2 Oct 92) directed that a continuing contract be awarded to undertake this work & its inclusion in future budgets is uncertain. If Congress does not appropriate funds in future fiscal years for such work, the contract may be terminated for the convenience of the Government.

PLEASE PROVIDE TELEPHONE NUMBER AND FAX NUMBER IN BLOCK 17.

(If additional space is needed use reverse)

IMPORTANT: FAILURE TO COMPLETE AND RETURN THIS PART OF THE NOTICE TO THE ISSUING OFFICE, ON OR BEFORE THE DUE DATE SHOWN IN ITEM 15, MAY RESULT IN YOUR NAME BEING REMOVED FROM OUR MAILING LIST.

14. ACTION REQUESTED (Check applicable box)		15. DUE DATE 03/11/94
A. I AM INTERESTED IN BIDDING ON THIS PROJECT AS A: <input type="checkbox"/> PRIME CONTRACTOR <input type="checkbox"/> PRINCIPAL SUBCONTRACTOR	B. I AM NOT INTERESTED IN BIDDING ON THIS PROJECT. RETAIN MY NAME ON YOUR MAILING LIST.	16. PROJECT NO. DACW29-94-B-0047
NO. OF SET(S) YOU REQUIRE OF SOLICITATION DOCUMENTS	C. REMOVE MY NAME FROM YOUR MAILING LIST.	

17. NAME, ADDRESS (City, State, ZIP code), AND TELEPHONE NUMBER OF FIRM

18. NAME AND TITLE OF FIRM REPRESENTATIVE	19. SIGNATURE OF REPRESENTATIVE	20. DATE SIGNED
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U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LA 70160-0267

CELMN-CT-CC

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010	TRANSMISSION		9-4881714	07	OK

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FACSIMILE HEADER SHEET

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No. <u>488-1714</u>	Name <u>Suresh Shah</u>	Fax No. <u>862-1585</u>	Name <u>Angeia DeSoto</u>
Office Symbol _____	Telephone No. _____	Office Symbol _____	Telephone No. <u>862-2733</u>
Date <u>2/1/94</u>	No. of Pages (including cover sheet) <u>7</u>	Precedence (P or R)	If you do not receive all pages, please telephone: <u>see above.</u>

REMARKS:

(C2C-2)

(a) Contractor Testing. The Contractor shall perform all control testing such as soil classification, control compaction curves, and in-place density. The Contractor shall perform as a minimum, the specified number of each of the tests to demonstrate to the satisfaction of the Contracting Officer that the work is in compliance with the specifications. Testing shall be performed by a Government approved testing agency or organization. Criteria used for obtaining Government approval shall be in accordance with ASTM D 3740. Tests performed shall be pursued in a such a manner that the results are obtained and furnished to the Government within 24 hours. The following tests are required to provide adequate control:

C2C-6.2 Borrow Areas Requirements. Borrow areas shall conform to requirements prescribed herein and as shown on the drawings. The permissible depths in the borrow areas are indicated on the drawings, but the right is reserved in accordance with the provision entitled "CHANGES" of the Contract Clauses, to modify the permissible depths in accordance with subsurface conditions determined as work proceeds. The bottom of the pits excavated under this contract shall be left relatively smooth. Abrupt changes in grade shall be avoided. The borrow areas excavated under this contract shall be drained and kept dry during excavation, as excavation will not be permitted in water nor shall excavated material be scraped, dragged or otherwise moved through water. Drainage of borrow areas shall be accomplished by ditching, sump pumping or other approved methods. The borrow areas excavated under this contract and flodded from high river stages shall be drained and allowed to dry as quickly as practicable after the high river stage has passed. Abrupt changes in borrow area alignment shall be avoided. To make optimum use of available borrow, the excavation of the borrow areas, shall be made continuous throughout the length of the borrow areas to the permissible borrow depths, and at the width necessary to provide the required quantity of suitable material, and in such a manner that all suitable available material within the required width will be utilized.

C2C-7. EXCAVATION IN CONTRACTOR-FURNISHED BORROW AREAS.

C2C-7.1 General. The Contractor, at his option, may utilize borrow areas other than those indicated, provided that their location and dimensions are approved by the Contracting Officer, and the character of the material therein, as indicated by Government-selected tests of soil samples performed by an approved independent laboratory at the Contractor's expense, is equal to or better than the Government-furnished borrow material; and provided that he has

C2C-8.4 Grade Tolerances. All embankments shall be constructed to the design grade and cross section shown on the drawings. For structural backfill, at all points, a tolerance of 3/10 of 1 foot above ~~or below~~ the prescribed design grade and cross section shown will be permitted in the final dressing provided that the crown of the levee drains, there are no abrupt humps or depressions in surfaces or bulges in the width of the crown, and the side slopes are uniform. Any partial fill or temporarily stockpiled material placed within the design section shall not exceed the design grade or design slopes of the embankment by more than 6 inches, and shall have side slopes not steeper than 1V on 3H.

C2C-9. MEASUREMENT AND PAYMENT.

C2C-9.1 Structural Excavation and Backfill. Structural excavation and backfill as defined herein will not be measured for payment. Payment for structural excavation and backfill will be made at the contract lump sum price for "Structural Excavation and Backfill". Price and payment shall include all cost of excavation for the floodwall, full cost of transporting and placing backfill, compacting and dressing, and all other cost incident thereto.

Control testing
C2C-9.2 Waste Materials. Materials ordered wasted by the Contracting Officer will be measured for payment by the cubic yard, and quantities will be determined by the average end area method. The basis of measurement will be a survey of the area prior to and after the excavation. Payment for materials ordered wasted will be made by an equitable adjustment under the provision entitled "Changes" of the Contract Clauses.

C2C-9.3 Excavation in Borrow Areas. No separate measurement or payment will be made for excavation in borrow areas required by this section. Payment shall be included in the applicable contract prices for the items of which the work is incidental.

~~C2C-9.4 Control Testing. No additional payment will be made for control testing required in this paragraph. All cost in connection therewith shall be included in the contract lump sum price for "Structural Excavation and Backfill".~~

C2E-3.1.2 Self-Propelled. At the option of the Contractor, self-propelled tamping rollers may be used in lieu of tractor-drawn tamping rollers, provided these rollers conform to the towed roller requirements for the length and spacing of tamping feet, the empty weight per foot of drum, and cleaning devices. However, self-propelled rollers exceeding the empty weight requirement may be used, provided that by substitution of tamping feet having a face area not exceeding 14 square inches, the nominal foot pressure on the tamping feet of the self-propelled roller can be adjusted to approximate the foot pressure of the towed roller for the particular working conditions. Self-propelled rollers conforming to the above requirements but with tamping feet exceeding the 14-square-inch maximum face area may be approved for use provided the Contractor demonstrates to the satisfaction of the Contracting Officer, by field tests performed in accordance with the provisions of C2E-3.4, that the roller can properly compact and fill without creating planes of weakness or laminations. For the self-propelled rollers in which steering is accomplished through the use of rubber-tired wheels, the tire pressures shall not exceed 40 pounds per square inch. The roller shall be operated at a speed of not more than 3.5 per miles hour.

C2E-4.1 After clearing and grubbing and any required excavation of the embankment foundation similar cavities and depressions shall be broken down, where so directed, to flatten out the slopes. The entire earth surface on or against which fill is to be placed shall be thoroughly broken to a depth of 6 inches. If for any cause, this broken surface becomes compacted in such a manner that, in the opinion of the Contracting Officer, a plane of seepage or weakness might be induced, it shall again be adequately scarified before depositing material thereon. All scarifying and breaking of ground surface shall be done parallel to the centerline of the levee. All of the foregoing work shall be completed at least 200 feet but not greater than 500 feet in advance of the embankment construction.

C2E-4.2
but prior to final acceptance, the Contractor shall spread uniformly over the protected side any remaining material trapped by hay bales and fertilize and seed the disturbed areas. The Contractor shall maintain the erosion protection (hay bales) throughout the life of the contract or until requirements are met such that the hay bales may be removed. The hay bales shall be removed following completion of the project.

C2E-10.2 Erosion Control. Measurement for erosion control will be by the linear foot satisfactory placed. Payment for erosion control as specified herein will be made at the contract unit price per linear foot for "Erosion Control." Price and payment shall constitute full compensation for furnishing all plant, labor, materials and equipment and performing all operations necessary for erosion control, including the placement and maintenance of hay bales throughout the contract period, final dressing and cleanup and removal.

Table I.

Seeding Period and Grasses to be Used	Minimum Purity	Minimum Germination	Minimum Rate Lbs/Acre
2 March - 14 September Hulled common Bermuda grass	95	87	50
15 September - 1 March Unhulled common Bermuda grass	95	87	50
Ryegrass	97	82	35

C2D-5.4 Water. Water shall be free from oil, acid, alkali, salt, and other substances harmful to growth of grass.

C2D-5.5 Mulch. The wood fiber shall be furnished and applied by the Contractor. Materials that contain noxious grass or weed seeds that might be detrimental to the seeding operation or to adjacent farmland will not be acceptable.

C2D-5.5.1 Wood Cellulose Fiber Mulch. The wood cellulose fiber mulch with tackifier for use with hydraulic application equipment shall consist of wood cellulose fiber. The mulch shall be processed to contain no growth or germination inhibiting factors, and dyed an appropriate color to facilitate visual metering of application of the materials. The mulch material shall be supplied in packages having a net weight not in excess of 100 pounds. The wood cellulose fiber mulch shall contain not in excess of 10 percent moisture, air dry weight basis. The wood cellulose fiber mulch shall be manufactured so that after addition and agitation in slurry tanks, with water, and any other additives, the fibers in the material will become uniformly suspended to form a homogeneous

C2D-8.2 Clearing. Prior to grading and tilling, vegetation and debris that may interfere with fertilizing, seeding and mulching operations shall be mowed, grubbed, and raked; and shall be disposed of satisfactorily, as specified in C1-6.

C2D-8.3 Grading. Previously established grades and slopes shall be maintained in a true and even condition on the areas to be fertilized, seeded and mulched. Necessary repairs to previously graded areas shall be repaired with material as described in C2D-5.2. The material shall be placed and compacted in accordance with C3-6. Where grades have not been established, the areas shall be graded as shown, or as directed by the Contracting Officer, and all surfaces shall be left in a true and even condition.

SECTION C2E - EMBANKMENTS
PART 1 - GENERAL

C2E-1. SCOPE. The work covered by this section consists of furnishing all plant, labor, equipment, and materials, except as otherwise specified in Section C2C, and performing all operations in connection with modification of the existing embankments, dressing the levee crown, and other incidental earthwork as may be necessary to complete the embankments, as shown on the drawings, and as herein after specified. Fill and backfill for structures are covered in Section C2C, "STRUCTURAL EXCAVATION AND BACKFILL".

A 53-906

Pipe, Steel, Black and Hot-Dipped,
Zinc-Coated, Welded and Seamless

C2J-4. EXECUTION. The Contractor shall remove (1) the existing concrete floodwall, cutting off or driving of the existing sheet piling to the elevations shown on the drawings; (2) Pedestrian Bridge at Filmore Ave. and Robert E. Lee Blvd.; (3) concrete steps and sidewalks leading to the bridges as indicated herein and shown on the contract drawings.

tongue and groove lumber; or new plywood panels conforming to NIST Product Standard PS-1, Grade B Concrete Form, Class I; High Density Overlay, all Exterior Type. The Grade B Side shall be stamped as such and shall face the concrete.

C3A-6.1.2 Class "D" Finish. This class of finish shall apply to all unexposed surfaces. The sheathing may be of wood or steel.

C3A-6.1.3 Textured Form Liner Finish. This class of finish shall apply to locations as shown on the drawings. It shall be obtained by use of textured form liners conforming to the details shown on the drawings. Liners shall be 1-1/4 inch fractured fin polyurethane elastomeric form liner. *Liner shall be secured to the forms by methods recommended by the liner manufacturer and in such a manner that impressions of nailheads, screw heads,*

C3A-6.2 Form Accessories. Ties and other similar form accessories to be partially or wholly embedded in the concrete shall be of a commercially manufactured type. After the ends or end fasteners have been removed, the embedded portion of metal ties shall terminate not less than 2-inches from any concrete surface either exposed to view or exposed to water. Plastic snap ties may be used in locations where the surface will not be exposed to view. Form ties shall be constructed so that the ends or end fasteners can be removed without spalling the concrete. Safety factors for form ties, anchors and hangers shall comply with the standards of ACI 347R, Table 2.4. No form ties which leave a formed hole completely through the floodwall will be allowed.

C3A-6.3 Form Coating shall be a commercial formulation of satisfactory and proven performance that will not bond with the

C5A-4.2 Materials.

C5A-4.2.1 Corrosion Resistant Steel. Corrosion resistant steel shall conform to Federal Specification QQ-S-766C (up to and including amendment 6), Class 304. High strength corrosion resistant steel shall conform to ASTM A 276-84, Type 431. Corrosion resistant steel bolts, nuts and washers shall conform to the applicable provisions of C5B-12 except that the material shall be as specified in C5A-4.2.10.

C5A-4.2.2 Bicycle Lock. The bicycle locks shall be No. 8029A21 Long Shackle Laminated Brass Padlock, keyed alike, as shown in McMaster-Carr Supply Co., Catalog 91, or equal for use at swing gates.

C5A-4.2.3 Stainless Steel Bolts, Hex Cap Screws, Nuts, Washers, and Set Screws

washers, staples and similar features will not be imparted to the surface of the concrete.

S&A RE-TINKING BOLTS?

Where?

C5A-4.2.4 Eye Hook. The eye hook for latching devices shall be 1-1/2 ton (safe working load) as manufactured by Crosby-Laughlin, catalog No. 950-5, Item No. 320A (Alloy Steel), or equal. Eye hooks shall be hot-dip galvanized.

?
Do we have

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

H-3

<u>Title</u>	<u>File No.</u> and	<u>Drawing No.</u>
Lake Pontchartrain, La. And Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. To Leon C. Simon Blvd. on East Side and Mirabeau Ave. To Robert E. Lee Blvd. on West Side Orleans Parish, Louisiana	H-4-40295	1 THRU 73 Ref. Dwg. R1

Needs to be same as dwgs. exactly

H-4 CONTRACTOR QUALITY CONTROL (CQC) - (16 MAY 1988).

H-18 PAYMENT FOR MOBILIZATION AND DEMOBILIZATION (DFARS 252.236-7004 (b) (2) - 1991 DEC.).

a. The Government will pay all costs for the mobilization and demobilization of all of the Contractor's plant and equipment at the contract lump sum price for this item.

(1) Sixty percent (60%) of the lump sum price upon completion of the Contractor's mobilization at the work site.

(2) The remaining forty percent (40%) upon completion of demobilization.

H-23 PERMISSIBLE HOURS OF OPERATION. ~~Weekdays,~~ No work shall be done between 6:00 p.m. and 7:30 a.m., nor shall work be allowed on Saturdays, Sundays, or legal holidays without permission of the Government.

H-32 1. South Central Bell (SCB) and New Orleans Public Service, Inc. (NOPSI). NOPSI will work on their facilities, subsequent to proper notification, to allow floodwall construction to progress. It should be understood that they intend to perform the work on an as need basis, but not at once. SCB will work on their facilities until June 30, 1994. The Contractor shall fully coordinate his plans with SCB and NOPSI.

H-33 ORDER OF WORK. The first item of work at the floodwall site shall be for the Contractor to develop and submit for approval, a sheetpile layout and concrete monolith (I-wall) layout. No excavation, sheet pile driving or other work dependent upon the alignment and layout of the floodwall shall proceed until such approval is received.

_____ MARSALONE
_____ GUIZERIX
_____ CINDY
_____ DD
_____ DS
_____ DG
_____ DL
_____ DR
_____ DW

_____ SUSPENSE
_____ DISTRIBUTE
_____ RELEASE
_____ FILE
_____ DESTROY
_____ ROUTE
_____ 90--DAY HOLD

LAKE PONTCHARTRAIN HURRICANE PROTECTION PROJECT
HIGH LEVEL PLAN
ESTIMATED RELOCATION COSTS

<u>Item</u>	<u>Estimated Cost</u>
Remove Pedestrian Bridges at Filmore Ave. & Robert E. Lee Blvd. - 4 pile bents - All timber construction	\$ 6,600
Relocation of S&WB electric feeder cables - Construct splices - 8 EA - Temporarily relocate cables - 5800 LF - Permanently relocate cables - 5800 LF (3 conductor, steel armored, 400 MCM copper, rubber insulated, lead covered power cable rated 15kV)	\$ 528,000
Replacement of S&WB Fence - Construct new chain link fence - 300 LF - Construct new chain link gate - 1 EA	\$ 4,200
	<hr/> \$ 538,800

10 Feb 1994

MEMORANDUM FOR Chief, Design Branch

SUBJECT: Lake Pontchartrain, La. & Vicinity, HLP, Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA.

1. The estimated cost of the relocation work is \$538,800. .
2. Point of contact is Darrell Normand at extension 2727.


Charles E. Settoon
Chief, Cost Engineering Branch

de

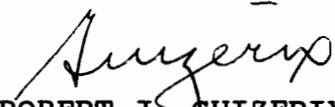
3 Feb 94

MEMORANDUM FOR C/Cost Engr Br

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Robert E. Lee Blvd., West Side, Mirabeau Ave. to Leon C. Simon Blvd., East Side, Orleans Parish, LA

1. Please prepare a relocation cost estimate for the subject project NLT 11 Feb 94. Enclosed is a breakdown of the relocation items.
2. Point of contact is Angela DeSoto, x2733.

Encl
as


ROBERT J. GUIZERIX
Assistant Chief,
Design Branch

CELMN-ED-DD

3 Feb 94



MEMORANDUM FOR C/Cost Engr Br

SUBJECT: Lake Pontchartrain, LA and Vicinity, High Level Plan, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Robert E. Lee Blvd., West Side, Mirabeau Ave. to Leon C. Simon Blvd., East Side, Orleans Parish, LA

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Encl
as

ROBERT J. GUIZERIX
Assistant Chief,
Design Branch


GUGGENHEIMER
ED-BD

GUIZERIX
ED-D

LAKE PONTCHARTRAIN HURRICANE PROTECTION PROJECT
HIGH LEVEL PLAN
ESTIMATED RELOCATION COSTS

<u>Item</u>	<u>Estimated Cost</u>
Remove Pedestrian Bridges at Filmore Ave. & Robert E. Lee Blvd. - 4 pile bents - All timber construction	
Relocation of S&WB electric feeder cables - Construct splices - 8 EA - Temporarily relocate cables - 5800 LF - Permanently relocate cables - 5800 LF (3 conductor, steel armored, 400 MCM copper, rubber insulated, lead covered power cable rated 15kV)	
Replacement of S&WB Fence - Construct new chain link fence - 300 LF - Construct new chain link gate - 1 EA	

FILE NAME: [unclear] EPRD
OPTION: [unclear]
TRANSMISSION: [unclear]

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U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela De Soto</u>
Office Symbol	<u>Burk</u>	Office Symbol	<u>ED-DD</u>
Telephone No.	<u>983-6278</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>2/3/94</u>	<u>3</u>		<u>see above</u>

REMARKS:

H-30 TRAFFIC CONTROL. The Contractor shall be responsible for traffic control as follows:

a. The Contractor shall prepare a traffic control plan in accordance with applicable provisions of Section 97-TRAFFIC ACCOMMODATIONS, of "General Specifications for Street Paving and Temporary Surfacing" published by the City of New Orleans and Part VI - "Traffic Controls for Street and Highway Construction Maintenance, Utility and Emergency Operations" of the "Manual of Uniform Traffic Control Devices" by the Federal Highway Administration, as adopted by Louisiana Department of Transportation and Development. The Contractor shall keep the portion of the project being used by public traffic, whether through or local, in such condition (including mail delivery) that traffic will be adequately accommodated. He shall also provide and maintain, in a safe manner, all required temporary approaches or crossings, intersections with roads, streets, business parking areas, residences and garages ~~are also included~~. The Contractor shall be responsible for supplying, maintaining and moving, when necessary, adequate barricades, warning signs and lights to safely inform the traveling public as to the location of the work at all times. The traffic plan shall be accompanied by a written concurrence from the City's Traffic Engineer for the Contracting Officer's approval.

b. The Contractor shall meet with the Director of the Department of Streets of the City of New Orleans, or his authorized representative to discuss the traffic control plan.

Prior to the beginning of the construction, the Contractor shall submit to the City Traffic Engineer for approval:

(1) A plan for the proposed route on which construction materials and equipment are to be transported to or from the construction site. This shall consist of a map depicting the proposed access routes to and from the worksite for each phase of the project. These routes will be approved or revised as necessary to establish an alternate which is acceptable. Also, the Department of Streets reserves the right to revise approved routes during the course of the project should problems arise or should this otherwise become necessary.

(2) A detour plan showing proposed routes for local traffic and transient traffic on which locations of detour traffic control devices and construction zone or work zone traffic control devices are shown. Traffic control device applications and methods shall be in compliance with Part VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(3) Locations where flagmen will be required.

These plans shall include name and telephone number of responsible personnel in charge of the project.

The Contractor shall seek the approval of the City Traffic Engineer for any traffic related plan change, including removal or addition of traffic control devices before or during the course of construction.

All existing traffic control devices which are in conflict with the construction of the work zone traffic control plan shall be covered or removed by the Contractor and the removed devices returned to the city signal shop or sign shop at 2823 Lafitte Street. All existing devices left in the construction or work zone shall be maintained in good condition by the Contractor during the course of construction.

All removed traffic control devices shall be restored to their original position and orientation by the Contractor prior to the time of final inspection.

c. In preparing the traffic control plan, the Contractor shall observe that only 1 lane of Mirabeau and Filmore Ave. may be affected by construction activities at any one time, and only 1 lane of Robert E. Lee and Leon C. Simon Blvd. may be affected by construction activities at any one time.

Should the Contractor elect to use the Mirabeau Avenue, Filmore Ave., Robert E. Lee Blvd., or Leon C. Simon Blvd. Bridge for construction activities, the following shall be required:

(1) A plan for traffic control at the bridges shall be prepared and approved in accordance with paras. H-31a and H-31b above.

(2) Vehicles and construction equipment shall not exceed the current permissible loadings of the Department of Streets, City of New Orleans.

(3) The bridge shall be cleared daily by the Contractor during soil hauling and concrete operations.

(4) Any damage to the bridge, sustained as a result of Contractor activities, shall be immediately repaired by the Contractor.

The Contractor will be permitted access to the job site via public streets as follows: Mirabeau Ave., Filmore Ave., Robert E. Lee Blvd., Leon C. Simon Blvd., Pratt St., Warrington St. and London Dr. ~~where sufficient rights-of-way exists.~~ The Contractor shall contact the Traffic Engineer of the Department of Streets, City of New Orleans for the prior approval of the proposed access route. ~~(which could provide the access to the jobsite)~~ The Contractor shall be required to fill in the Construction Access Plan (Hauling Route) Form for the proposed access plan prior to the construction of the project. This form is available at the Traffic Engineering Division, Department of Streets, City of New Orleans, 1300 Perdido Street, Room 6W02, New Orleans, LA 70112. Vehicles shall not exceed the maximum permissible loads of the Department of Streets, City of New Orleans. ~~The Contractor shall clean the streets daily during hauling and concrete operations.~~

Additionally, the Contractor shall ensure that residents and business establishments have access to their property and driveways at all times.

d. Daily upkeep of the roads and streets, including

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists

4176 Canal Street, New Orleans, Louisiana 70119

(504) 486 5901 FAX 488 1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job. no.

8	4	0	7		
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Date FEBRUARY 2, 1994

Job Title LONDON AVE OUTFALL CANAL

Sending to: (FAX No. 862 1585)

CORPS OF ENGINEERS

ATTN. ANGELA DESOTO

Message FOR YOUR INFORMATION,

WE NEED MR E. DARWIN TO REVIEW THIS
& WE NEED HIS COMMENTS BY FEB 3.

THE FOLLOWING PAGES OF THE SPEC HAVE
BEEN REVISED (SEE ATTACHMENTS).

From: SURESH SHAIK

Burk-Kleinpeter, Inc.
New Orleans, Louisiana
FAX - 504-488-1714

3

Total number of pages in this transmittal (including this cover sheet)

Copy MJS, JWG, SIS, FILE

H-30 TRAFFIC CONTROL. The Contractor shall be responsible for traffic control as follows:

a. The Contractor shall prepare a traffic control plan in accordance with applicable provisions of Section 97 TRAFFIC ACCOMMODATIONS, of "General Specifications for Street Paving and Temporary Surfacing" published by the City of New Orleans and Part VI - "Traffic Controls for Street and Highway Construction Maintenance, Utility and Emergency Operations" of the "Manual of Uniform Traffic Control Devices" by the Federal Highway Administration, as adopted by Louisiana Department of Transportation and Development. The Contractor shall keep the portion of the project being used by public traffic, whether through or local, in such condition (including mail delivery) that traffic will be adequately accommodated. He shall also provide and maintain, in a safe manner, all required temporary approaches or crossings, intersections with roads, streets, business parking areas, residences and garages ~~are also included~~. The Contractor shall be responsible for supplying, maintaining and moving, when necessary, adequate barricades, warning signs and lights to safely inform the traveling public as to the location of the work at all times. The traffic plan shall be accompanied by a written concurrence from the City's Traffic Engineer for the Contracting Officer's approval.

b. The Contractor shall meet with the Director of the Department of Streets of the City of New Orleans, or his authorized representative to discuss the traffic control plan.

Prior to the beginning of the construction, the Contractor shall submit to the City Traffic Engineer for approval:

(1) A plan for the proposed route on which construction materials, and equipment are to be transported to or from the construction site. This shall consist of a map depicting the proposed access routes to and from the worksite for each phase of the project. These routes will be approved or revised as necessary to establish an alternate which is acceptable. Also, the Department of Streets reserves the right to revise approved routes during the course of the project should problems arise or should this otherwise become necessary.

(2) A detour plan showing proposed routes for local traffic and transient traffic on which locations of detour traffic control devices and construction zone or work zone traffic control devices are shown. Traffic control device applications and methods shall be in compliance with Part VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(3) Locations where flagmen will be required.

These plans shall include name and telephone number of responsible personnel in charge of the project.

The Contractor shall seek the approval of the City Traffic Engineer for any traffic related plan change, including removal or addition of traffic control devices before or during the course of construction.

All existing traffic control devices which are in conflict with the construction or the work zone traffic control plan shall be covered or removed by the Contractor and the removed devices returned to the city signal shop or sign shop at 2823 Lafitte Street. All existing devices left in the construction or work zone shall be maintained in good condition by the Contractor during the course of construction.

All removed traffic control devices shall be restored to their original position and orientation by the Contractor prior to the time of final inspection.

c. In preparing the traffic control plan, the Contractor shall observe that only 1 lane of Mirabeau and Filmore Ave. may be affected by construction activities at any one time, and only 1 lane of Robert E. Lee and Leon C. Simon Blvd. may be affected by construction activities at any one time.

Should the Contractor elect to use the Mirabeau Avenue, Filmore Ave., Robert E. Lee Blvd., or Leon C. Simon Blvd. Bridge for construction activities, the following shall be required:

(1) A plan for traffic control at the bridges shall be prepared and approved in accordance with paras. H 31a and H 31b above.

(2) Vehicles and construction equipment shall not exceed the current permissible loadings of the Department of Streets, City of New Orleans.

(3) The bridge shall be cleared daily by the Contractor during soil hauling and concrete operations.

(4) Any damage to the bridge, sustained as a result of Contractor activities, shall be immediately repaired by the Contractor.

The Contractor will be permitted access to the job site via public streets as follows: Mirabeau Ave., Filmore Ave., Robert E. Lee Blvd., Leon C. Simon Blvd., Pratt St., Warrington St., and London Dr. ~~(where sufficient rights-of-way exists)~~ The Contractor shall contact the Traffic Engineer of the Department of Streets, City of New Orleans for the prior approval of the proposed access route, ~~(which could provide the access to the jobsite)~~ The Contractor shall be required to fill in the Construction Access Plan (Hauling Route) Form for the proposed access plan prior to the construction of the project. This form is available at the Traffic Engineering Division, Department of Streets, City of New Orleans, 1300 Perdido Street, Room 6W02, New Orleans, LA 70112. Vehicles shall not exceed the maximum permissible loads of the Department of Streets, City of New Orleans. ~~The Contractor shall clean the streets daily during hauling and concrete operations.~~

Additionally, the Contractor shall ensure that residents and business establishments have access to their property and driveways at all times.

d. Daily cleanup of the roads and streets, including

MEMO FOR RECORD

1 Feb 94

SUBJECT: London Ave., Contract #3, P&S Final Review

1. C2A - Environmental Protection. Specs (Jake Terranova) says that Burk is using the most up to date version.
2. C2H - Chain Link Fence. According to Jake, this version agrees with the guide spec. Submittals are required only for electronic gates and fences.
3. H-10 - Quantity Surveys. Const. Div requested that this clause be removed because most quantities are lump sum and Burk did so. Because this is a FAR clause, Jake checked with Contracting to see if it can be removed. Contracting has no problem. However, not all quantities are lump sum. Fertilizing, Seeding, and Mulching is being paid for by the acre. On Pump Station #1 Floodwall, fertilizing, seeding, and mulching is a unit price item also and the clause was removed by amendment. We will remove the clause.
4. ROE is to be provided by the Orleans Levee District by 18 Feb 94. According to Real Estate Div (Linda LaBure), S&WB will pass a resolution this week to allow OLD use of its property opposite PS #4. NORD will give OLD the use of its property on Prentiss Ave. NORD, however, has only agreed to this orally. OLD is trying to get their consent in writing. ROE will be granted but Linda's not sure if they will meet the 18 Feb 94 date. It will be close.
5. Burk has been given all our final spec comments. We requested the final floppies by 4 Feb 94. May be a little problem with City of New Orleans. They do not like some of the wording in the Traffic Control Plan. Suresh has been talking to them to resolve the problems. He will FAX both us and the Dept. of Streets the revised paragraph. We should receive it Thursday or Friday. Suresh is making all other changes now. We will probably receive the complete floppies Monday or Tuesday of next week.

CELMN-ED-DS

18 Jan 94

SUBJECT: Lake Pontchartrain, LA and Vicinity, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, and Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA ED-94-144

h. The work is included in the FY-94 Detailed Project Schedule (PB-2A) for "Lake Pontchartrain", (CYP) BEC00, page 50, line 118B, dated 1 Jan 94.

W. EUGENE TICKNER
Chief, Engineering Division

CF:
C/Prog Mgmt Ofc
C/Engr Ctrl Br
C/Stru Des Sec
C/CELMN-PP

MEMORANDUM FOR C/Contracting Div

SUBJECT: Lake Pontchartrain, LA and Vicinity, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, and Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA ED-94-144

Please issue a preinvitation notice for the subject invitation pursuant to FAR 36.302, to all prospective bidders. The following information is furnished for your use in preparing the notice:

a. Description of Work: The work consists of clearing; selective demolition; cutting existing steel sheetpiling; pulling, cleaning, and delivering existing steel sheetpiling; driving new steel sheetpiling; constructing reinforced concrete I-wall on existing and new steel sheetpiling; constructing reinforced concrete slope pavement, driving steel sheetpiling under South Central Bell telephone cables and New Orleans Sewerage and Water Board 10 foot diameter siphon tube and 50 inch diameter discharge pipe; relocating Sewerage and Water Board feeder cable; modifying existing utilities; degrading existing levees; placing embankment; fertilizing, seeding, and grubbing; and all other work incidental thereto.

The Energy and Water Development Appropriations Act, 1993, (PL 102-377, 2 Oct 92) directed that a continuing contract be awarded to undertake this work and its inclusion in future budgets is uncertain. If Congress does not appropriate funds in future fiscal years for such work, the contract may be terminated for the convenience of the Government.

b. Engineering Division will furnish the specifications on or about 18 Feb 94 for advertising on or about 11 Mar 94. Please advertise this job for a period of 30 days. Award is scheduled for May 94.

c. The estimated time of completion is 540 calendar days after receipt of notice to proceed.

d. The estimated cost is between \$5,000,000 and \$10,000,000.

e. The solicitation will include 74 drawings and specifications.

f. Reproduction and labor costs are chargeable to account no. BEC21 30J9 L1 OLML.

g. Wage rates were requested on 18 Jan 94.

MEMORANDUM FOR Office of Counsel

SUBJECT: Lake Pontchartrain, LA and Vicinity, London Ave. Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, and Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA ED-94-144

1. Please obtain applicable wage rate determinations to be included in the subject solicitation. The estimated date for issuance of the solicitation is 11 Mar 94 and it is proposed to advertise for a period of 30 days. The estimated cost is approximately \$5,900,000.
2. The work consists of clearing; selective demolition; cutting existing steel sheetpiling; pulling, cleaning, and delivering existing steel sheetpiling; driving new steel sheetpiling; constructing reinforced concrete I-wall on existing and new steel sheetpiling; constructing reinforced concrete slope pavement, driving steel sheetpiling under South Central Bell telephone cables and New Orleans Sewerage and Water Board 10 foot diameter siphon tube and 50 inch diameter discharge pipe; relocating Sewerage and Water Board feeder cable; modifying existing utilities; degrading existing levees; placing embankment; fertilizing, seeding, and grubbing; and all other work incidental thereto.
3. The work is located in the metropolitan area of New Orleans.

W. EUGENE TICKNER
Chief, Engineering Division

CF:
C/Stru Des Sec
C/Contr Div

MEMORANDUM FOR CELMN-ED-DS

SUBJECT: (Please give complete job title.) Lake Pontchartrain, LA and Vicinity, London Ave. outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd., East Bank, Mirabeau Ave. to Robert E. Lee Blvd., West Bank, Orleans Parish, LA

Please initiate the following action on the subject job, The estimated cost is \$2,895,000.

- () Review and prepare attached specifications for review. _____ copies are required for review. The P&S cost account number is _____. Please furnish the required copies by: _____.
- () Forward to Office of Counsel for legal review. The environmental impact statement (EIS) filed with CEQ on _____. (If no such date exists, please advise Specifications as to the status of the EIS).
- () Submit to DE for approval. The estimated contract cost is less than \$2.0 million.
- () All reviews have been accomplished, and all comments generated in that review have been accommodated, and copies of the required responses have been sent to Construction Division. Please obtain constructibility review certification.
 - () a. No significant changes have been made since the local review.
 - () b. The significant changes to the plans and specifications since local review are summarized as follows:
- (X) Obtain applicable wage rates. The estimated date of advertising is 11 Mar 94 and it is proposed to advertise for 30 days. ****The work consists of:** clearing; selective demolition; cutting existing steel sheetpiling; pulling, cleaning, and delivering existing steel sheet piling; driving new steel sheet piling; constructing reinforced concrete I-wall on existing and new steel sheet piling; constructing reinforced concrete slope pavement, driving steel sheet piling under South Central Bell Telephone cables and New Orleans Sewerage and Water Board 10' diameter siphon tube and 50" diameter discharge pipe, relocating Sewerage and Water Board feeder cables; modifying existing utilities; degrading existing levees; placing embankment; fertilizing, seeding, and grubbing; and all other work incidental thereto.

The Board of Commissioners

OF THE

Orleans Levee District

SUITE 202 -- ADMINISTRATION BUILDING
NEW ORLEANS LAKEFRONT AIRPORT

New Orleans, La.

70126

January 4, 1994

PROTECTING YOU
AND YOUR FAMILY



Mr. William Giardina
Burk-Kleinpeter, Inc.
4176 Canal Street
New Orleans, La 70119

RE: OLB Project No. 24902
London Avenue Canal
Contract No. 3

Dear Mr. Giardina:

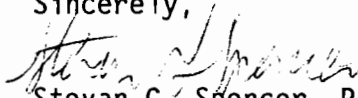
Enclosed is a copy of the December 16, 1993 letter from Louisiana Department of Transportation & Development (LADOTD) establishing the requirements for the Orleans Levee District (OLD) to provide rights of way and grant right of entry for construction.

OLD has requested the City of New Orleans to provide legal approval for the removal of the pedestrian bridges, holding OLD harmless for this work. OLD has also begun the process to obtain necessary authority to use the proposed construction staging area at Prentiss Avenue and Pratt Drive.

What yet remains is the investigation of the need to acquire permits from the City of New Orleans, LADOTD, railroad companies, utility companies, or others which may be required to accommodate construction, letters of concurrence from the owners of utilities or facilities to be relocated, and appropriate letters of abandonment.

The LADOTD indicates that you have been coordinating these remaining requirements with USACE. Please advise what further action is required by OLD so that we may issue the required right of entry for construction.

Sincerely,


Stevan G. Spencer, P.E.
Chief Engineer

SGS:FPM:pns

xc: Enrique Medina
Dan Judlin, USACE
Walter Baomy, USACE
Geneva Grille, LADOTD

The Board of Commissioners

OF THE

Orleans Levee District

SUITE 202 — ADMINISTRATION BUILDING
NEW ORLEANS LAKEFRONT AIRPORT

New Orleans, La.

70126

December 27, 1993

PROTECTING YOU
AND YOUR FAMILY



Mr. James C. Webb, P. E.
Deputy Director
Department of Streets
Room 6W02 City Hall
1300 Perdido Street
New Orleans, Louisiana 70112

RE: OLD PROJECT NO. 24902
CONTRACT III
LONDON AVENUE CANAL
LAKE PONTCHARTRAIN HURRICANE PROTECTION

Dear Mr. Webb:

The Orleans Levee District (OLD) has to grant by February 18, 1994 the U. S. Army Corps of Engineers (USACE) Right of Entry to the area from Mirabeau to Robert E. Lee along the London Avenue Outfall Canal for the work required to raise the floodwalls to the high level hurricane protection plan. The work includes the removal of the pedestrian bridges and access stairways at Robert E. Lee and Filmore Avenue.

USACE advises that they have received approval from your department to include this work in the contract.

Please advise if all the legal requirements have been met for these abandonments and if the OLD is held harmless in performing these removals.

Sincerely,

Stevan G. Spencer, P. E.
Chief Engineer

SGS:dab

xc: Mr. Theodore Lange, Managing Director
Mr. Dan Judlin, USACE
Mr. Walter Baumy, USACE
Mr. Enrique Medina
Burk-Kleinpeter

22 Dec 1993

MEMORANDUM FOR C/Real Estate Div

SUBJECT: Lake Pontchartrain, LA & Vicinity, London Ave. Outfall Canal, Mirabeau Ave. to Leon C. Simon Blvd., East Side, Mirabeau Ave. to Robert E. Lee Blvd., West Side, Orleans Parish, LA, Rights-of-way Request

1. On 21 Dec 1993, Burk-Kleinpeter, the Orleans Levee Board Consultant for the subject project, hand carried an amended rights-of-way request to Angela DeSoto of Engineering Division. On 22 Dec 1993, 12 copies of the amended rights-of-way request were hand carried by Angela DeSoto to Linda LaBure of Real Estate Division.

2, We have reviewed the subject request and have no comments. Please forward this request to the Orleans Levee District.

3. Point of contact is Angela DeSoto, x2733.

W. EUGENE TICKNER
Chief, Engineering Division

[Handwritten initials]
GUGGENHEIMER
ED-DD
[Handwritten initials]
MARSALEONE
ED-D
[Handwritten initials]
TICKNER
ED

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ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS

4176 CANAL STREET

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ARCHITECTURE ASSOCIATE

BARRY SCAIRONO, AIA

December 21, 1993

Mr. Stevan Spencer, P.E.
Chief Engineer
Board of Commissioners of the
Orleans Levee Board
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Re: London Avenue Canal
Contract No. 3
BKI 8407-08

Dear Steve:

I am submitting herewith two (2) sets of Revised Final Right-of-way Plans with an amendment to the write-up. By copy of this letter, I am sending fifteen (15) sets of Revised Final Right-of-way Plans with an amendment to the write-up to Mr. Walter Baumu of the Corps of Engineers.

Sincerely,

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS AND
ENVIRONMENTAL SCIENTISTS



Rene' A. Chopin, III, P.E.

RAC/lb

cc: Mr. Walter Baumu, U. S. Army Corps of Engineers (w/att.)
Mr. Bruce Dyson, Gotech, Inc. (w/att.) one diskette (five files)

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job no.

8	4	0	7
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0	8
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Date 12/17/93

Job Title LONDON AVE CANAL

Sending to: (FAX No 862 1585) Angela Desoto

Message:

I am sending the comments from DCs
Traffic Dept. Please review & call re-
Thanks Also sending CD ^{response to their} comments

From:

Suresh Shah

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
FAX - 504-488-1714

5

Total number of pages in this transmittal (including this cover sheet)

Copy

JWG File 8407-08

Mr. Suresh Shah
December 16, 1993
Page Two

course of the project should problems arise or should this otherwise become necessary."

In addition, the paragraph at the center of page H-26 gives a list of streets which may be used to access the site. This should be omitted. Such access routes will be approved as per the process described in the revision to paragraph b (1) above.

Also see our Construction Access Plan form, copy attached, which sets forth certain routine stipulations. On at least one previous occasion, a controversy developed when a contractor received his approval via this form. His contention was that certain of these provisions should appear in the contract specifications. As such, it may be beneficial at this time to review the requirements set forth in the form and include those which may impose an additional cost burden.

Thank you for your inquiry regarding our input on this project. Should additional discussion or clarification be required, please do not hesitate to contact this office.

Very truly yours,



Elmer N. Darwin, P. E.
City Traffic Engineer



CITY OF NEW ORLEANS
DEPARTMENT OF STREETS
1300 PERDIDO ST. ROOM 4102 - NEW ORLEANS, LA 70119



CITY OF NEW ORLEANS



DEPARTMENT OF STREETS
TRAFFIC ENGINEERING DIVISION
ROOM 6W02, CITY HALL
NEW ORLEANS, LOUISIANA 70112



SIDNEY J. BARTHELEMY
MAYOR

FRANK H. STUART
DIRECTOR

December 15, 1993

Mr. Suresh Shah
Burk-Kleinpeter, Inc.
1178 Canal Street
New Orleans, Louisiana 70119

Re: London Ave Outfall Canal

████████████████████

Dear Mr. Shah:

Reference is made to the bid package relative to the above captioned project which was recently received by the Department of Streets. Please receive the comments of the Traffic Engineering Division regarding this matter.

Our main concern in projects of this type is that the contractor submit a specific traffic control or detour plan for every phase in which the public right-of-way is impacted or temporarily occupied during the administration of the construction operations. It is also important that hauling routes which may be necessary during the course of the project be established and approved well in advance.

An examination of pages H-25 and H-26 has revealed a very comprehensive description of the procedures necessary to meet the traffic control plan requirement. Similar treatment, however, must be given to the approval of hauling routes. To accomplish this, paragraph b (1) on page H-25 should be expanded to include the following: "This shall consist of a map depicting the proposed access routes to and from the worksite for each phase of the project. These routes will be approved or revised as necessary to establish an alternative which is acceptable. Also, the Department of Streets reserves the right to revise approved routes during the



CITY OF NEW ORLEANS

DEPARTMENT OF STREETS

1300 PERDIDO ST., ROOM 6W02 - NEW ORLEANS, LA 70117
(504) 565-6844 • FAX 565-6848



SIDNEY J. BARTHELEMY
Mayor

FRANK M. STUART, SR.
Director

Date: _____

Mr. _____

RE: CONSTRUCTION ACCESS PLAN (HAULING ROUTE) FOR
PROJECT NO. _____ AT _____

Dear Mr. _____

Please be advised that your proposed access route for the referenced project has been approved as follows:

In order to retain this privilege for the duration of the project, you must strictly comply with the following provisions:

1) You must follow Part VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES in the implementation of the work site Traffic Control Plan.

2) You must comply with Sections 38-166, 167, 168, 169, 169.1, 169.2, 170, 171, 172, and 173 of the Code of the City of New Orleans.

3) You shall instruct your truck drivers, hauling materials on the approved streets, not to drive faster than 15 MPH except on established truck routes. Each hauling vehicle must carry a certified weight document stating that the vehicle is carrying its maximum load which does not exceed the City's legal weight.

4) You shall take necessary measures to prevent any spillage of material on the streets. You shall take immediate action to clean up any spilled haul material, and shall, at the end of each day, have residual mud and /or other materials tracked by the trucks' tires removed. Also, you shall have

DEC-17-93 FRI 10:12

BURK KLEINPEIER, INC.

FAX NO. 504 488 1114

12/16/1993 16113 FROM NEW ORLEANS STREETS DEPT.

P. 05

the streets hosed down at periodic intervals (at least daily) as deemed necessary.

5) You shall hold harmless the City of New Orleans from all costs and damages to any person and/or property which could be caused by hauling trucks traveling on the approved streets.

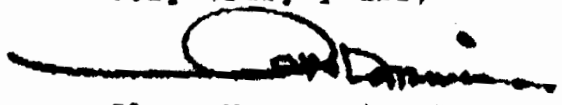
6) You shall immediately repair, at no cost to the City, all damages caused by hauling trucks to the City's streets and City's other properties. You may be asked by this office to post a bond, in the amount to be determined, to assure proper restoration of streets damaged by such trucks. Also, you shall report to this office and/or the City project inspector all existing excessive street damages prior to hauling activities. Any unreported damage shall be considered as caused by hauling trucks.

7) Additional provision(s): _____

8) All of the conditions cited above should be part of the hauler's contract. Violations of these conditions may result in a " Stop Work. " order or suspension of this permit until violations are corrected.

Your compliance is expected, and it will be appreciated. If you have any questions regarding this matter please contact our Traffic Engineering Staff at 565-6839.

Very truly yours,



Elmer N. Darwin, P.E.
City Traffic Engineer

END/PTL

cc: Director's Office
Streets Maintenance Division
Streets Construction Division
New Orleans Police Department

COVER SHEET + 6 = 7 PAGES

CITY OF NEW ORLEANS



DEPARTMENT OF STREETS
TRAFFIC ENGINEERING DIVISION
ROOM 6W02, CITY HALL
NEW ORLEANS, LOUISIANA 70112



SIDNEY J. BARTHELEMY
MAYOR

FRANK M. STUART
DIRECTOR

December 15, 1993

Mr. Suresh Shah
Burk-Kleinpeter, Inc.
4176 Canal Street
New Orleans, Louisiana 70119

Re: London Ave Outfall Canal

Parallel Protection

Dear Mr. Shah:

Reference is made to the bid package relative to the above captioned project which was recently received by the Department of Streets. Please receive the comments of the Traffic Engineering Division regarding this matter.

Our main concern in projects of this type is that the contractor submit a specific traffic control or detour plan for every phase in which the public right-of-way is impacted or temporarily occupied during the administration of the construction operations. It is also important that hauling routes which may be necessary during the course of the project be established and approved well in advance.

An examination of pages H-25 and H-26 has revealed a very comprehensive description of the procedures necessary to meet the traffic control plan requirement. Similar treatment, however, must be given to the approval of hauling routes. To accomplish this, paragraph b (1) on page H-25 should be expanded to include the following: " This shall consist of a map depicting the proposed access routes to and from the worksite for each phase of the project. These routes will be approved or revised as necessary to establish an alternative which is acceptable. Also, the Department of Streets reserves the right to revise approved routes during the

of Streets reserves the right to revise approved routes during the

Mr. Suresh Shah
December 15, 1993
Page Two

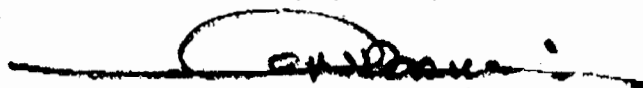
course of the project should problems arise or should this otherwise become necessary."

In addition, the paragraph at the center of page H-26 gives a list of streets which may be used to access the site. This should be omitted. Such access routes will be approved as per the process described in the revision to paragraph b (1) above.

Also see our Construction Access Plan form, copy attached, which sets forth certain routine stipulations. On at least one previous occasion, a controversy developed when a contractor received his approval via this form. His contention was that certain of these provisions should appear in the contract specifications. As such, it may be beneficial at this time to review the requirements set forth in the form and include those which may impose an additional cost burden.

Thank you for your inquiry regarding our input on this project. Should additional discussion or clarification be required, please do not hesitate to contact this office.

Very truly yours,



Elmer N. Darwin, P. E.
City Traffic Engineer



CITY OF NEW ORLEANS





CITY OF NEW ORLEANS

DEPARTMENT OF STREETS

1300 PERDIDO ST., ROOM 6W02 • NEW ORLEANS, LA 70112
(504) 565-6844 • FAX 565-6848



JEY BARTHELEMY
Mayor

FRANK M. STUART, SR.
Director

Date: _____

Mr. _____

RE: CONSTRUCTION ACCESS PLAN (HAULING ROUTE) FOR
PROJECT NO. _____ AT _____

Dear Mr. _____

Please be advised that your proposed access route for the referenced project has been approved as follows:

In order to retain this privilege for the duration of the project, you must strictly comply with the following provisions:

1) You must follow Part VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES in the implementation of the work site Traffic Control Plan.

2) You must comply with Sections 38-166, 167, 168, 169, 169.1, 169.2, 170, 171, 172, and 173 of the Code of the City of New Orleans.

3) You shall instruct your truck drivers, hauling materials on the approved streets, not to drive faster than 15 MPH except on established truck routes. Each hauling vehicle must carry a certified weight document stating that the vehicle is carrying its maximum load which does not exceed the City's legal weight.

4) You shall take necessary measures to prevent any spillage of material on the streets. You shall take immediate action to clean up any spilled haul material, and shall, at the end of each day, have residual mud and /or other materials tracked by the trucks' tires removed. Also, you shall have

-2-

the streets hosed down at periodic intervals (at least daily) as deemed necessary.

5) You shall hold harmless the City of New Orleans from all costs and damages to any person and/or property which could be caused by hauling trucks traveling on the approved streets.

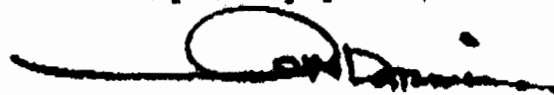
6) You shall immediately repair, at no cost to the City, all damages caused by hauling trucks to the City's streets and City's other properties. You may be asked by this office to post a bond, in the amount to be determined, to assure proper restoration of streets damaged by such trucks. Also, you shall report to this office and/or the City project inspector all existing excessive street damages prior to hauling activities. Any unreported damage shall be considered as caused by hauling trucks.

7) Additional provision(s):

8) All of the conditions cited above should be part of the hauler's contract. Violations of these conditions may result in a " Stop Work " order or suspension of this permit until violations are corrected.

Your compliance is expected, and it will be appreciated. If you have any questions regarding this matter please contact our Traffic Engineering Staff at 565-6839.

Very truly yours,



Elmer N. Darwin, P.E.
City Traffic Engineer

END/PTL

cc: Director's Office
Streets Maintenance Division
Streets Construction Division
New Orleans Police Department

Dept of Streets, Ltr dtd Dec 15, 93

Para #

① Cont #3 (London Ave) - local review

② Require contractor to submit specific traffic control or detour plan for each phase where public R/W is impacted or temporarily occupied.

Require hauling routes be established and approved in advance.

③ H-25 & H-26 list req'ts to establish a traffic control plan.

→ Dept of Streets wants similar treatment to establish hauling routes.

"... map depicting the proposed access routes to and from the worksite ..." "These routes will be approved or revised as necessary to establish an alternative which is acceptable. Also, the Department of Streets reserves the right to revise approved routes during the course of the project should problems arise or should this otherwise become necessary."

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MICHAEL G. JACKSON, PE

WILLIAM R. BURK, JR., 1912-1986

BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS

4176 CANAL STREET
NEW ORLEANS, LOUISIANA 70119-5994

TELEPHONE (504) 488-5901

FAX (504) 488-1714

P. O. BOX 19087 NEW ORLEANS, LA 70179

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PAUL L. WAIDYAS
RANDOLPH C. CARMICHAEL

ARCHITECTURE ASSOCIATE

BARRY SCAIRONE, AIA

November 30, 1993

Ref: London Ave. Canal Floodwalls
Contract No. 3
BKI Job Number 8407-08

A written response to the written 95% review comments
from the Corps of Engineers.

CELMN-CD-QM

Bidding Schedule

- 3. and 4. - Piling, steel sheet, Type PZ-22 installed in full lengths or in segments is paid under one item
- 5. and 6. - Concurred.
- 7. - Bid item for "Concrete Slope Pavement" will be paid on the basis of "squares".
- 8. thru 12 - Concurred.

SECTION C: Technical Specifications

- 13. thru 33. - Concurred.
- 34. - Does not Concur. since there is not enough space on either side of the floodwall, we feel that the form ties will be required to hold the forms. The last sentence of para. C3A-6.2 will be deleted during our final corrections.
- 35. - Does not Concur. Tapered ties are required due to limited space as mentioned in item 34. The last sentence in para. C3A-7.2 which is deleted will be put back in during our final corrections.
- 36. thru 46. - Concurred.

BURK-KLEINPETER, INC.

III. CELMN-CD-QM (cont.)**SECTION C: Technical Specifications (cont.)**

47. - Does not Concur. FL-422 under siphon on west bank and FL-422 & FL-340 on east bank near Pumping Station No. 4 are encapsulated in concrete.

SECTION H: Special Clauses

48. - Does not Concur. Amount of liquidated damages to be filled in at the later date.
49. - Concurred.
50. - Does not Concur. See traffic control for details. Specific access are shown on the drawings.
51. and 52. - Concurred.
53. a. - Concurred.
- b. - Does not Concur. Do not want Contractor to damage existing homeowner's fence during construction. Therefore, safety fence is required to support hay bales and to protect existing homeowner's fence.
54. thru 56. - Concurred.
57. - Does not Concur. The Contractor is required to be in constant touch with the S & WB.
58. thru 59. - Concurred.
60. a, b. - Concurred.
- c. - The access through Prentiss Ave. and Warrington St. will not be permitted. Prentiss Ave. and Warrington St. will be deleted from H-30, "Traffic Control" during our final corrections.
61. thru 64. - Concurred.

Drawings

65. - Concurred.
66. - Concurred. See typical sections for details.
67. - All of the existing sheet piles are structurally inadequate and do not meet the Government's Design Criteria.
68. - Concrete collars are required in order to protect the waterstop until the bridge closures are constructed in the future. The length of time is not known.

BURK-KLEINPETER, INC.

III. CELMN-CD-QM (cont.)**Drawings**

- 69. - General Note 1.
Does not Concur. For this project, Contract No. 3, and also in COE Contract No. 2, azimuths are measured from the NORTH.
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- 73. - Note has been added on Dwg. 6 with (▲▲).
- 74. - Note has been added on typical sections. (East Side)
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- 89. - Concurred. Posts shall be installed cast-in-place with I-Wall.
- 90. - The material available from levee excavation is unsuitable for embankment. An offsite borrow material section is included in the specifications.

BURK-KLEINPETER, INC.

Engineers • Architects • Planners • Environmental Scientists
4176 Canal St. • New Orleans, LA 70119 • (504) 486-5901 • FAX 488-1714

F A C S I M I L E T R A N S M I T T A L C O V E R S H E E T

Job no.

8	4	0	7
---	---	---	---

0	8
---	---

Date 12/7/93

Job Title LONDON AVE. CANAL

Sending to: (FAX No. 862-1585) ANGELA DESOTO

Message: Here is the revised ^{response to} "CD" comments.

From: Suresh shah

Burk-Kleinpeter, Inc.
New Orleans, LA 70119
FAX - 504-488-1714

4 Total number of pages in this transmittal (including this cover sheet)

Copy _____

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November 30, 1993

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BKI Job Number 8407-08

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- 90. - The material available from levee excavation is unsuitable for embankment. An offsite borrow material section is included in the specifications.

ENG. SV. ADMIN UNIT

(AUTO)

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL. NO.	PAGE	RESULT
094	TRANSMISSION		9-4881714	02	OK

ERRORS

- 1) HANG UP OR LINE FAIL
- 2) BURN
- 3) NO ANSWER
- 4) NO FEASIBLE CONNECTION



FACSIMILE HEADER SHEET

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

**US Army Corps
of Engineers**

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela DeSoto</u>
Office Symbol	<u></u>	Office Symbol	<u>ED-DD</u>
Telephone No.	<u>488-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>12/6/93</u>	<u>2</u>		<u>see above</u>

REMARKS:

If you need a floppy, let me know

Angela


SYMBOL	DESCRIPTION	DATE	APPROVED
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REVISIONS



U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
 CORPS OF ENGINEERS
 NEW ORLEANS, LOUISIANA

A

DESIGNED BY: X	APPROVED BY:	CADD FILE: PS AEI.DGN
DRAWN BY: X	-----	PLOT DATE: PLOT SCALE: I
CHECKED BY: X	CHIEF, DESIGN BRANCH	SOLICITATION NO. DACW29-9X-B-0000
DATE: X	APPROVED BY:	FILE NO.
SUBMITTED BY:	-----	X
X 	CHIEF, ENGINEERING DIVISION	DWG. X OF XX
APPROVED BY:	APPROVED BY:	
-----	COLONEL, C. E. DISTRICT ENGINEER	

Company Name

MAIL LISTING FOR Walter Baomy

December 6, 1993

=====

- - Mail - -

November 24, 1993 4:19pm MAIL IS -

FROM: C/ Engineering Division Private

TO: Des Br (EDD)

SUBJECT: London Ave Contract #3

COPY: Asst C/Engr Div (EDA)

Terral Broussard

Dan Judlin

C/Const Div (CD)

Engr Ctrl Br (EDE)

Bob

Discussions today w/DE and Mr Harvey (OLB) on Burke-Klein contract. Harvey was looking for something of value BK could do during construction since his contract with them has them involved after award of the contract. We ruled out construction mgmt. I agreed that since BK did the original design, any changes to the design which may arise during construction can be handled by BK. CD will send to us and we will pass to BK; BK's effort will come back thru us to CD for our concurrence prior to implementation.

Eugene

GOTECH, INC.

Consulting Engineers

8383 Bluebonnet Boulevard
Baton Rouge, Louisiana 70810

Tel. (504) 766-5358
Fax (504) 766-5879

RHAOUL A. GUILLAUME, P.E.
President
December 1, 1993

Mailing Address
P.O. Box 82007
Baton Rouge, Louisiana 70884

Misc Angela DeSoto
Structural Design
Section
COE

Mr. Suresh Shah
Burk-Kleinpeter, Inc.
4176 Canal Street
New Orleans, LA 70119

Re: London Avenue Canal
Mirabeam Avenue to Leon C. Simon Boulevard

Dear Mr. Shah:

We have received from the Corps of Engineers comments on the referenced project. We have responded to our portion of the drawing comments as follows:

Structural Design Section Comments:

5. Drawings

- b. Concur
- c. Concur
- e. Concur
- f. Concur
- k. Detail has been revised
- l. Detail has been revised
- q. Concur
- r. Detail has been revised

Foundations & Materials Branch Comments

- 28. Drawing 13 - Concur
- 33. Drawing 15 & 16 - Concur
- 34. Drawing 16 - Concur
- 38. Drawing 33 - Concur
- 40. Drawing 38 - Concur
- 41. Drawing 38 - Concur

43. Drawing 44 - Concur

Construction Division Comments

Drawing 16

- (78) - Concur
- (79) - Concur
- (80) - Concur
- (81) - Concur
- (82) - Concur

Drawing 37

- (84) - Concur

Drawing 39

- (86) - Concur

Most of the comments involved the specifications and it is our understanding that Burk-Kleinpeter has responded to those items. Also, we understand that Burk-Kleinpeter has responded to all general comments (stationing, drawing numbers, etc.)

If there are any questions, feel free to call.

Yours very truly,



Bruce K. Dyson, P.E., P.L.S.
Project Engineer

BKD:mal

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
050	TRANSMISSION		9-4981014	00	OK

ERRORS:

1. 1447 OF 16 LINES ERASED 2. BUSY 3. NO ANSWER 4. TX FAILURE 5. CONNECTION



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NEW ORLEANS DISTRICT
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

US Army Corps of Engineers

DELIVER TO		FROM	
Fax No.	<u>488-1714</u>	Fax No.	<u>862-1585</u>
Name	<u>Suresh Shah</u>	Name	<u>Angela De Soto</u>
Office Symbol	_____	Office Symbol	_____
Telephone No.	<u>486-5901</u>	Telephone No.	<u>862-2733</u>
Date	No. of Pages (including cover sheet)	Precedence (P or R)	If you do not receive all pages, please telephone:
<u>12/1/93</u>	<u>2</u>		

REMARKS:

here is the signed transmittal

Angela

BURK-KLEINPETER, INC.

Engineers, Architects, Planners, Environmental Scientists
4176 Canal St., New Orleans, LA 70119 (504) 486-5901 • FAX 488-1714

TRANSMITTAL RECEIPT

Job no. 8407 08 Date NOVEMBER 30, 1993

Job Title LONDON AVE. OUTFALL CANAL

To: CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LA
70160

PLEASE HAVE THIS
~~RECEIPT~~ RECEIPT
SIGNED AND FAXED
BACK TO US AT
488-1714

attn. MR. WALTER BAUMY

THANK YOU,
BKE

From: SURESH SHAH

Description: 1 COPY OF LETTER TO MR. SPENCER, OLB

1 COST ESTIMATE

1 WRITTEN RESPONSE TO THE WRITTEN 95% REVIEW
COMMENTS FROM THE COE.

1 COPY OF DESIGN CALCULATIONS, SHEET PILE

8 PLANS, HALF SIZE

8 SPECIFICATIONS

2 SOFT COPY (5 1/4 DISKETTES) CONTAINING 15

INTERGRAPH FILES OF DRAWINGS

1 SOFT COPY (5 1/4 DISKETTE) CONTAINING THE

SPECIFICATION FILES

The above transmittal has been received by

Signature

045-0286

Suresh Shah
Angela DeSoto

Date: NOV 30, 1993

Dec 1, 1993

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ARCHITECTURE ASSOCIATE
BARRY SCAIRONO, AIA

November 30, 1993

Mr. Steven Spencer
Board of Commissioners of the
Orleans Levee Board
Suite 202 - Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

RE: London Avenue Canal
Contract No. 3
BKI 8407-08

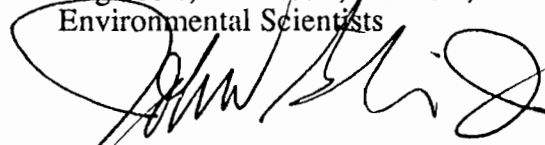
Dear Steve:

As per our schedule, we are transmitting herewith two (2) half size sets of final plans and specifications with cost estimates. By copy of this letter, I am sending eight (8) half size sets of final plans and specifications to Mr. Walter Baummy of the Corps of Engineers. We have incorporated all the 95% review comments from the COE, Sewerage & Water Board, and South Central Bell into above plans and specifications. Also, a written response to their written comments are included to COE. We are requesting that we can proceed with submitting the electronic Intergraph files to the Corps of Engineers. To that extent, we are requesting that the Corps provide us with any final comments by December 15, 1993.

Please note that "Vibration Monitoring" and "Reconstruction Survey" as described in Section C2G (steel sheet piling) of the Specifications will be performed by the Orleans Levee District.

Sincerely,

BURK-KLEINPETER, INC.
Engineers, Architects, Planners,
Environmental Scientists



J. W. "Bill" Giardina, Jr., P.E.
Vice President

JWG/jf

cc: Mr. Walter Baummy, U. S. Army Corps of Engineers (w/attachments)
Mr. Bruce Dyson, Gotech, Inc. (w/attachments)

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ARCHITECTURE ASSOCIATE

BARRY SCAIRONO, AIA

November 30, 1993

Ref: London Ave. Canal Floodwalls
Contract No. 3
BKI Job Number 8407-08

A written response to the written 95% review comments
from the Corps of Engineers.

I. Structural Design Comments.

1. Sheet pile design calculations for the entire project are submitted.
2. Since we are using PZ-22 sections for the tie-ins and for the siphon and discharge pipes, no separate design calculations are required. Separate reinforcement details are shown for the floodwall under siphon and discharge pipes.
3. Design calculations for the east and west side are checked and found consistent.
4. Concurred.
5. Specifications.
 - a. thru y. - Concurred.
6. Drawings.
 - a. thru k - Concurred.
 - l. Dwg. 38 - Casing will be extended up to elevation 14.40.
Therefore, no seal material is required for conduits.
 - m. Dwg. 39 - Concurred.
 - n. Dwg. 40 - #3 bars are used.
 - o. Dwg. 42 - All spliced are called out as "Permitted" on all drawings.
 - p. and q. - Concurred.

I. Structural Design Comments. (cont)

6. Drawings. (cont.)

- r. Dwg. 45 - S & WB requires a minimum distance of 3" between two clamps. The distance between the clamps satisfies this requirement. Also, the clearance between the feeders and the ladders is increased.
- s. Dwg. R4 - Concurrred.
- t. Dwg. R2 and R3 - Concurrred.
- u. Dwg. 55 - Fence posts will be secured cast-in-place to the I-wall.

II. CELMN-CT-CC Comments:

- 1 thru 7 - Concurrred.

III. CELMN-CD-QM

Bidding Schedule

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- 5. thru 12. - Concurrred.

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- b. - Does not Concur. Do not want Contractor to damage existing homeowner's fence during construction. Therefore, safety fence is required to support hay bales and to protect existing homeowner's fence.
- 54. thru 56. - Concurrred.

III. CELMN-CD-QM (cont.)

SECTION H: Special Clauses (cont.)

- 57. - Does not Concur. The Contractor is required to be in constant touch with the S & WB.
- 58. thru 64. - Concurred.

Drawings

- 65. - Concurred.
- 66. - Concurred. See typical sections for details.
- 67. - All of the existing sheet piles are structurally inadequate and do not meet the Government's Design Criteria.
- 68. - Concrete collars are required in order to protect the waterstop until the bridge closures are constructed in the future. The length of time is not known.

Drawings

- 69. - General Note 1.
Does not Concur. For this project, Contract No. 3, and also in COE Contract No. 2, azimuths are measured from the NORTH.
- 70. thru 72. - Concurred.
- 73. - Note has been added on Dwg. 6.
- 74. - Note has been added on typical sections. (East Side)
- 75. thru 88. - Concurred.
- 89. - Concurred. Posts shall be installed cast-in-place with I-Wall.
- 90. - The material available from levee excavation is unsuitable for embankment. An offsite borrow material section is included in the specifications.

IV. ED-FM (Gordon / Rome)

- 1. - Does not Concur. Paragraph C3A.4.4 mock-up-panel is deleted.
- 2. thru 7. - Concurred.
- 8. - Does not Concur.
- 9. thru 63. - Concurred.

IV. ED-FM (Gordon / Rome) (cont.)

- 64. - Does not Concur. London Drive is shown on the typical section on the east side from Robert E. Lee Blvd. to Leon C. Simon Blvd. This street may be damaged during construction and therefore, the "Incidental Paving" section is required.
- 65. thru 67. - Concurred.

V. CELMN-ED-DS

A

- 1. thru 3. - Concurred.
- 4. - Special Clauses: Does not concur with State Required Performance Bond. These requirements have been deleted at the request of Structural Design Section. "Stone Sources" are included.
- 5. - Concurred.

VI. CELMN-ED-D^LØ

- 1. thru 5. - Concurred.
- 6. - H-6d Transportation Facilities. The use of Pratt Drive as vehicle access to the jobsite is still not verified. We are in contact with OLD & Dept. of Traffic of the City of New Orleans.
- 7. - Concurred.
- b. - Drawings: Concurred.

VII. CELMN-RE-AP

- 2. a, b. - Concurred.
- c. - Notes have been added in the plan drawings.
- d, e, f. - Concurred

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ARCHITECTURE ASSOCIATE

BARRY SCAIRONO, AIA

November 30, 1993

Ref: London Ave. Canal Floodwalls
Contract No. 3
BKI Job Number 8407-08

A written response to the written 95% review comments
from the Corps of Engineers.

I. Structural Design Comments.

1. Sheet pile design calculations for the entire project are submitted.
2. Since we are using PZ-22 sections for the tie-ins and for the siphon and discharge pipes, no separate design calculations are required. Separate reinforcement details are shown for the floodwall under siphon and discharge pipes.
3. Design calculations for the east and west side are checked and found consistent.
4. Concurred.
5. Specifications.
 - a. thru y. - Concurred.
6. Drawings.
 - a. thru k - Concurred.
 - l. Dwg. 38 - Casing will be extended up to elevation 14.40.
Therefore, no seal material is required for conduits.
 - m. Dwg. 39 - Concurred.
 - n. Dwg. 40 - #3 bars are used.
 - o. Dwg. 42 - All spliced are called out as "Permitted" on all drawings.
 - p. and q. - Concurred.

I. Structural Design Comments. (cont)

6. Drawings. (cont.)

- r. Dwg. 45 - S & WB requires a minimum distance of 3" between two clamps. The distance between the clamps satisfies this requirement. Also, the clearance between the feeders and the ladders is increased.
- s. Dwg. R4 - Concurrred.
- t. Dwg. R2 and R3 - Concurrred.
- u. Dwg. 55 - Fence posts will be secured cast-in-place to the I-wall.

II. CELMN-CT-CC Comments:

- 1 thru 7 - Concurrred.

III. CELMN-CD-QM

Bidding Schedule

- 3. and 4. - Piling, steel sheet, Type PX-22 installed in full lengths or in segments is paid under one item.
- 5. thru 12. - Concurrred.

SECTION C: Technical Specifications

- 13. thru 46. - Concurrred.
- 47. - Does not Concur. FL-422 under siphon on west bank and FL-422 & FL-340 on east bank near Pumping Station No. 4 are encapsulated in concrete.

SECTION H: Special Clauses

- 48. - Does not Concur. Amount of liquidated damages to be filled in at the later date.
- 49. - Concurrred.
- 50. - Does not Concur. See traffic control for details. Specific access are shown on the drawings.
- 51. and 52. - Concurrred.
- 53. a. - Concurrred.
- b. - Does not Concur. Do not want Contractor to damage existing homeowner's fence during construction. Therefore, safety fence is required to support hay bales and to protect existing homeowner's fence.
- 54. thru 56. - Concurrred.

III. CELMN-CD-QM (cont.)

SECTION H: Special Clauses (cont.)

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- c. - Notes have been added in the plan drawings.
- d, e, f. - Concurred



EXECUTIVE CORRESPONDENCE

DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Programs and
Project Management Division

Robert G. Harvey, President
Board of Levee Commissioners
Orleans Levee District
Suite 202, Administration Building
New Orleans Lakefront Airport
New Orleans, Louisiana 70126

Dear Mr. Harvey:

This is in reply to your September 8, 1993 letter requesting a meeting with Colonel Diffley to discuss allowing Burk-Kleinpeter, Inc. to do the construction management for London Outfall Contract 3. This contract is a part of the Lake Pontchartrain, Louisiana and Vicinity hurricane protection project.

Colonel Diffley is out of town. He will return November 1st. He asked that I reply in his absence. Colonel Diffley will be glad to meet with you after he returns. Please have your secretary get with his secretary, Rea Dutton, at 862-2077 to arrange a good time for your meeting.

I appreciate you giving us your reasons for requesting Burk-Kleinpeter, Inc. to continue after the design phase into construction management. Let us share with you our feelings on this matter.

We do not disagree with Burk-Kleinpeter, Inc.'s ability to do the inspection services; however, we currently have an A-E firm under contract to give us these services, if we need them, and believe that, if we do need such support, it is better to get it from a firm under contract directly with us.

Burk-Kleinpeter is coordinating their design work with our designers. We feel confident there is a good connection between the design and construction management. It would be prudent, however, to have Burk-Kleinpeter remain under contract during the construction period to provide design advise.

Sincerely,

Cletis R. Wagahoff
Deputy District Engineer
for Project Management

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RETURN IT WITH THE FILE COPIES TO ORIGINATING OFFICE**