

A0006805

METAIRIE RELIEF CANAL

SPECIFICATIONS

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CONTRACT

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SEWERAGE AND WATER BOARD OF NEW ORLEANS

ADVERTISEMENT AND DESCRIPTION

EXCAVATION OF THE METAIRIE RELIEF OUTFALL CANAL
FROM LAKE PONTCHARTRAIN TO PUMPING STATION NO. 6
METAIRIE, LOUISIANA

CONTRACT

New Orleans, Louisiana

Sealed proposals will be received by the Sewerage and Water Board of New Orleans, Louisiana, at the office of its Purchasing Agent, Room 5E14, City Hall, Civic Center, New Orleans, Louisiana 70165, up to

publicly opened immediately thereafter, for:

CONTRACT

The removal and satisfactory disposal of approximately 470,000 cubic yards of dredge material from the Metairie Relief Canal (17th Street Canal) starting from Lake Pontchartrain to the Southern Railroad Bridge a distance of approximately 13,550 linear feet; the demolition and removal of all structures and obstructions in the canal as noted on the plans, with the exception of The Hammond Highway Bridge, the Veterans Highway Bridge, the I-10 Bridge, and power poles; the construction of approximately 4185 linear feet of sheet pile cut-off wall; the construction of approximately 1350 linear feet of tied-back floodwall; the construction of approximately 18,100 linear feet of concrete floodwall; the relocation of a 12" waterline and the construction of a new pedestrian bridge near the mouth of the canal at Bucktown. Contract drawings, specifications and proposal forms may be obtained at the office of the Purchasing Agent of the Board. A cash payment of fifteen dollars (\$15.00) will be required for each set of plans and specifications issued; additional sets at five dollars (\$5.00) each, and no refund will be made for their return. These drawings, specifications and proposal forms will be issued only to Contractors and/or Sub-Contractors, under Louisiana Revised Statute 37:2157 through 37:2163, as amended, and who have furnished satisfactory evidence to the Purchasing Agent of the Board that they are licensed and are qualified to perform the work called for in the specifications. The right is reserved to reject any or all proposals and to waive informalities.

Bidders may submit inquiries concerning technical information to:

Modjeski and Masters
1055 St. Charles Avenue, Room 510
New Orleans, Louisiana 70130
Phone (504)524-4344

HAROLD KATNER
EXECUTIVE DIRECTOR

G. JOSEPH SULLIVAN
GENERAL SUPERINTENDENT

SPECIAL SPECIFICATIONS
SECTION 1

GENERAL PROVISIONS

1-01 CONTRACT DOCUMENTS

The contract documents governing this contract , consist of the following papers which, with the exception of the Contract Drawings, are bound together under one cover; namely;

Advertisement and Description of Contract

Contract and Bond

Section A of the General Specifications, including Information for Bidders and General Provisions;

- * Section B of the General Specifications, covering general matters pertaining to construction;
- * Section C of the General Specifications, covering materials;

These Special Specifications for Contract including the Form of Proposal and the Sections listed in Paragraph 1-03;

The Drawings listed in Paragraph 1-27

- * These Sections are included in the set of Sewerage & Water Board General Specifications (see Paragraph 1-04)

1-02 EXTENT OF CONTRACT

The work to be done under this contract consists of furnishing all labor, plant and materials and performing all operations necessary for: (1) the removal and satisfactory disposal of all dredge materials to the limits, depths and sections shown herein, (2) the demolition and removal of all structures and obstructions, as noted on the plans, the construction of a new sheet pile cut-off wall, tied-back wall and floodwall to the dimensions and locations shown herein, the construction of a new pedestrian bridge at the mouth of the canal, the removal of an existing 12" waterpipe with the waterline being relocated under the proposed pedestrian bridge, the placing of concrete mats beneath the existing vehicular bridges to the limits shown herein, the reconstruction of portions of Orpheum Ave. and the bicycle path located along the west bank of the canal to the limits shown herein, and the construction of new boat mooring slips along the west side of the canal in the Bucktown area.

1-03 Special Specifications

The specifications governing dredging and demolition methods, the materials and construction of the sheet pile wall, tied-back wall, floodwall, pedestrian bridge, concrete mats, road and bicycle path construction will be covered under the following headings:

- Section 1 - General Provisions
- Section 2 - Demolition
- Section 3 - Dredging and Disposal
- Section 4 - Steel Sheet Piling
- Section 5 - Structural
- Section 6 - Timber and Timber Preservatives
- Section 7 - Miscellaneous Specifications
- Section 8 - Proposal

1-04 GENERAL SPECIFICATIONS OF THE SEWERAGE AND WATER BOARD

The Sewerage and Water Board has discontinued the policy of issuing the applicable sections of the "General Specifications" with each contract specification. In implementing this system, each prospective bidder is given a complete set of the "General Specifications", without charge, with the first set of contractual drawings and bid data he receives. If he has previously received his complimentary set, he will not be entitled to additional sets without cost. His complimentary set of "General Specifications" is for his use on all future contracts which he may bid. Additional copies will be available to him at the office of the Purchasing Agent at a cost of \$5.00 per copy. Holders of these specifications will be kept advised of any changes that occur. Required AASHTO and LaDOTD Specifications shall be secured by the Contractor at his own expense.

1-05 BIDDERS TO EXAMINE LOCATIONS AND PLANS

Bidders shall make a personal examination of the location of the proposed work and of the surroundings thereof, and shall thoroughly acquaint themselves with the details of the work to be done, and all the conditions and obstacles likely to be encountered, including soil conditions in the performance and completion of the work. Bidders shall inform themselves as to the facilities for the transportation, handling and storage of equipment and materials, and they shall carefully study the plans, specifications and other contract documents and thoroughly satisfy themselves as to the conditions under which the work is to be done, and as to the character, qualities and quantities of work to be performed, and materials to be furnished, and be prepared to execute a finished job in every particular without any extra charge whatever except as may be specifically provided for elsewhere in these contract documents.

1-06 QUALIFICATIONS OF BIDDERS

Each bidder shall submit to the S&WB of New Orleans, prior to award of the contract, evidence, satisfactory to the Board, of his ability, experience and familiarity with work of the character specified.

1-07 LICENSE FROM SUCCESSFUL CONTRACTOR

The successful reliable Contractor or Sub-Contractor, if approved, for this Contract shall not commence actual work thereon before securing a license and paying the fee as provided under Louisiana Revised Statutes 37:2157 through 37:2163, as amended.

1-08 ORDER TO PURCHASE MATERIALS AND START WORK

Provided the low bid is acceptable to the Sewerage and Water Board, the proposal submitted by the low bidder will be tentatively accepted by the Board

at its regular monthly meeting. After approval by the City Council, the low bidder will be authorized by the Secretary-Executive Director of the Board to appear before the City Notary to sign the contract within ten (10) consecutive calendar days from the date of the notice. Within seven days after the Contract has been signed, the Engineer will issue a "Purchase Order" which shall be the Contractor's authority to purchase materials for use on this Contract.

Materials ordered by the Contractor before the Purchase Order has been issued are at his own risk. The Board has no obligation concerning them.

A "Work Order" will be issued when the Contractor has sufficient material on hand to assure continued installation. The Contractor will start work within ten consecutive calendar days after the date of the "Work Order". Maximum delivery period after which a "Work Order" will be issued, is one hundred fifty consecutive calendar days from the date of the "Purchase Order".

The Contract must be entirely complete in all respects and tendered to the Board in acceptable condition within 180 consecutive calendar days after the date of the "Work Order".

1-09 LIQUIDATED DAMAGES FOR FAILURE TO START OR TO COMPLETE ON TIME

Special notice is hereby given to all Contractors that the terms stipulated under Paragraph No. 26, in Section A of the General Specifications title "FAILURE TO START, FAILURE TO COMPLETE", as well as the liquidated damages in the following paragraphs, will be rigidly enforced on this contract.

The liquidated damages for failure to start at the time specified in Paragraph 1-09, above, are hereby fixed at Fifty Dollars for each calendar day of delay in starting (see Paragraph No. 26, in Section A of the General Specifications). The damages for failure to complete the contract at the time specified in Paragraph 1-08, above, are hereby fixed at Fifty Dollars for each calendar day of delay in completion (see Paragraph No. 26, in Section A, of the General Specifications).

1-10 VARIATION IN ESTIMATED QUANTITIES - DREDGING

Where the quantity of a pay item is an estimated quantity and where the actual quantity of such pay item is more than fifteen percent above or below the estimated quantity, an equitable adjustment in the contract price shall be made upon the demand of either party. The equitable adjustment shall be based upon any increase or decrease in costs due solely to the variations above one hundred fifteen percent or below eighty five percent of the estimated quantity. The quantity to be used for this determination will be that computed by using the theoretical section, including overdepth, and the before-dredging quantity survey.

1-11 CONFLICT BETWEEN GENERAL AND SPECIAL SPECIFICATIONS

The case of any conflict between the "General Specifications" herein, and these "Special Specifications", the latter shall govern.

The fact that certain paragraphs of the General Specifications have been specified as applying to this contract does not in any way imply that

paragraphs not quoted do not apply; in all cases where the General Specifications are not directly contradicted by these Special Specifications, the General Specifications shall have full force and effect; nor shall the fact that certain clauses of the General Specifications refer to operation not constituting a part of the work of this contract be construed as in any way weakening the binding force of the General Specifications in the remaining clauses.

1-12 SUBSTITUTE MATERIALS

If any materials called for in these specifications are not obtainable, the Contractor may offer substitute materials which are obtainable for the consideration of the Engineer, the contract time may be extended by the Engineer to allow the Contractor time to secure either the original materials specified or other substitute materials that are obtainable and acceptable.

1-13 PLANS AND SPECIFICATIONS FROM BOARD

The work shall be executed in strict conformity with the contract drawings and specifications, and the Contractor shall do no work without proper drawings and instructions. The Engineer will furnish to the Contractor, free of charge, all copies of contractual drawings and General Specifications of the Sewerage and Water Board reasonably necessary for the execution of the work.

1-14 STANDARDS

Wherever in these contract documents, references are made to A.W.W.A., A.S.T.M., A.S.A., A.C.I., and/or other standards and/or requirements, it shall be understood that the latest standards and/or requirements of the American Standard Association, American Concrete Institute, etc., are intended and shall apply, except to the extent that said standards and/or requirements may be in conflict with applicable laws, ordinances, etc.

1-15 LINES, GRADES, ETC.

Paragraph 46, in Section A of the General Specifications is amended to read as follows:

"The Engineer will verify with the Contractor the permanent control points and bench marks for locations and elevations. From these established control points and bench marks, the Contractor shall establish all locations and grade of the work and shall be solely responsible for the exact position of all parts of the work with reference to these established lines and bench marks. The Contractor shall maintain his own field engineering force, that of the Engineer being for checking. The Contractor shall furnish, free of charge, all stakes, permanent bench construction, templates, instrument platforms, other materials necessary for marking and maintaining points and lines given. He shall furnish the Engineer such assistance as he may require in checking the layout of the work. The Contractor shall be held responsible for the protection of all stakes and marks and if, in the opinion of the Engineer, benches or lines established by the Engineer have been destroyed or disturbed, they shall be replaced at the Contractor's expense.

The cost of establishing working control points and bench marks, and maintaining a field engineering force shall be included in the bid price.

Any deviation from the Contract Drawings not approved by the Engineer, shall be subject to correction at the Contractor's expense.

1-16 MATERIALS BY CONTRACTOR

All materials required for the various items of work shall be furnished by the Contractor.

1-17 CHANGES IN CONDITIONS

As it is impossible for the Sewerage and Water Board to guarantee that no changes in conditions will take place from the time bids are submitted until work is started, the Contractor will be required to assume responsibility for changes in conditions beyond the control of the S&WB. These contract documents with the Form of Proposal are issued to bidders with the understanding that the Board disclaims all responsibility to the matter of general conditions in the project area. Bidders must determine for themselves the conditions under which the work will be done and keep abreast of the changes.

1-18 DAMAGE TO PROPERTY

The Contractor shall assume full responsibility for any damage to any property of the Sewerage and Water Board or other owner, resulting from his work under this contract. He shall also put back into its original position and condition of any and all sidewalks, curbing, roadways, neutral grounds, billboards, signs, etc., that he is required to remove to necessitate the completion of this contract. (see Paragraph No. 43 in Section A of the General Specifications.)

1-19 TRUCKING THROUGH CITY STREETS

If necessary, to prevent littering city streets, trucks hauling spoil will be prohibited from being loaded above water level lines.

The Contractor shall clean all city streets used for trucking as may be directed by the Engineer.

1-20 CITY AND STATE SALES TAXES

The Contractor is to bear and pay City and State Sales Taxes, if any, and the Board shall be relieved of the obligation to pay the same.

1-21 PREVAILING LABOR STANDARDS

The minimum wages to be paid laborers and mechanics shall be the prevailing wages for corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work, said prevailing wages to be determined by the Secretary of the U.S. Department of Labor.

The successful bidder is to make available to the Board complete records in connection with payment to employees during the term of the job in order to permit the Internal Audit Division to check as to adherence to the wage scale presently in effect in accordance with U.S. Government Standards.

1-22 INSURANCE REQUIREMENTS

For this contract, the limits set forth in Paragraph 16 of Section A of the General Specifications shall be amended to read as follows (unless specifically modified herein); all other insurance requirements in Paragraph 16 remain in effect.

(a) Workmen's Compensation Insurance:

Limits shall be \$250,000 each person and \$1,000,000 each accident.

(b) Comprehensive General Liability Insurance:

Limits of liability for bodily injury and/or death of not less than \$250,000 for any one person and not less than \$500,000 for all injuries and/or deaths. The limits of liability for property damage shall be not less than \$250,000 for each occurrence and not less than \$500,000 aggregate.

(c) Owner's Protective Liability Insurance:

The limits shall be the same as specified for Comprehensive General Liability Insurance above.

1-23 BID BOND

The Bidder's attention is directed to Paragraph 1, of Section A of the general Specifications, in which it is written, "Said bid bond shall be written in the same name of the party, firm or corporation offering the Proposal."

1-24 DEPOSIT

The Deposit or Bid Bond for this Contract required in Paragraph No 1, in Section A of the General Specifications, shall be not less than five percent of the total amount of the Proposal made payable to the Sewerage and Water Board of New Orleans, Louisiana, and subject to forfeiture upon failure to sign contract and execute bond within ten days after official award of the Contract.

1-25 ARITHMETIC DISCREPANCIES IN BID PRICE

The following methods will be used to resolve any arithmetic discrepancies found on bid forms as submitted by bidders:

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

1-26 PROJECT SIGN

The Contractor shall furnish a project sign to be displayed for the duration of the contract work. The sign shall be of durable material 8'-0" wide by 6'-6" high, mounted on a substantial frame. The lettering and design of the project sign shall be in accordance with the sample drawing included in these contract specifications, but containing the proper and appropriate information for this particular project. The cost of the sign shall be included in the bid price.

The Sewerage and Water Board reserves the right to waive the "Project Sign", if it deems necessary, and at the discretion of the Sewerage and Water Board Engineer.

1-27 DRAWINGS

Drawing No.	Sheet 1	General Plan
Drawing No.	Sheet 2	Typical Section
Drawing No.	Sheet 3-15	Plan & Profile - 1 thru 13
Drawing No.	Sheet 16-18	Floodwall & Sheet Pile Wall Details - 1 thru 3
Drawing No.	Sheet 19	Concrete Mat Details
Drawing No.	Sheet 20	Hydraulic Grade Lines
Drawing No.	Sheet 21-30	Cross-Sections - 1 thru 10
Drawing No.	Sheet 101	Proposed Bucktown Bridge General Notes
Drawing No.	Sheet 102	Structure Plan and Elevation
Drawing No.	Sheet 103	Abutment Details
Drawing No.	Sheet 104	Footing Plan and Details
Drawing No.	Sheet 105	Bent Details
Drawing No.	Sheet 106-108	Steel Girder Details 1 thru 3
Drawing No.	Sheet 109	12" Waterline Details
Drawing No.	Sheet 110	Concrete Slab Placing Plan and Details
Drawing No.	Sheet 111	Handrail Details
Drawing No.	Sheet 112	Reinforcing Schedule

1-28 TRAFFIC

The Contractor shall schedule and plan his work to minimize interference with vehicular traffic. All efforts should be expended to maintain one-half of Orpheum Avenue open to traffic at all times when crossing. No interference with vehicular traffic will be permitted at any time of Hammond Highway, Veterans Highway, and I-10 Bridge.

All traffic re-routing, barricading, signing, lighting, and other construction traffic control devices shall comply with the Federal Highway Administration's "Manual on Uniform Traffic Control Devices".-Part VI.

1-29 PRECONSTRUCTION CONFERENCE

The successful bidder and any subcontractors he may enlist will be required to attend a preconstruction conference prior to beginning work. The place and time for this meeting will be determined by the Engineer following the contract award.

1-30 CONTRACTOR'S ACCESS TO WORK SITE

1-30.1 North of Hammond Hwy.

In the Bucktown area, the Contractor can gain access to the work site by land from Orpheum Avenue, along the west side of the canal and by water through the wooden bridge at the junction of the canal and Lake Pontchartrain.

1-30.2 Veterans Hwy. to Hammond Hwy.

Access can be gained by land through a removable section of the sheet pile wall along the west side of the canal immediately north of Veterans Hwy.

1-30.3 I-10 to Veterans Hwy.

Access can be gained by land through a removable section of the sheet pile wall along the west side of the canal immediately south of Veterans Hwy.

1-30.4 Pumping Station to I-10

Access can be gained by land at Academy Dr. on the east side of the canal and at several street locations on the west side.

1-31 SIGNAL LIGHTS

The Contractor shall display signal lights on any equipment to be located in the canal at night. These lights must meet the approval of the Engineer's Representative.

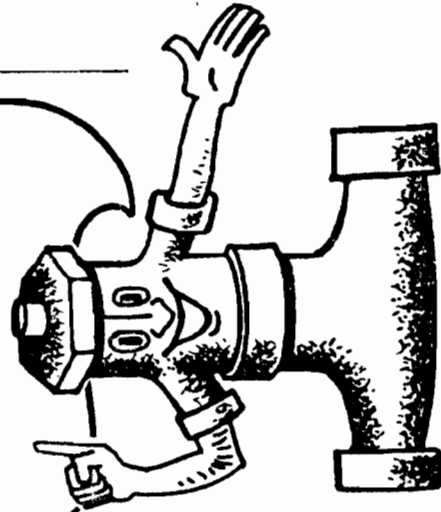
1-32 RIGHTS-OF-WAY

The Sewerage and Water Board will provide rights-of-way required for construction purposes without cost to the Contractor. The Contractor will be required to make rights-of-way and access area suitable for traveling to and from the work site. Upon completion of work, all rights-of-way and access area must be left in a condition satisfactory to the Engineer's Representative. Contractor's access to the work site will be limited to those areas listed in paragraph 1-30.

The Contractor shall obtain, at his own expense, any additional lands desired for his own convenience in the performance of the work. Any agreements made with public agencies or private concerns will be the sole responsibility of the Contractor.



Building
a
Better
City



This is a

Sewerage and Water Board

Drainage Project

FLORIDA AVENUE
CONCRETE BOX CANAL
Jourdan Ave. to Tupelo St.
Contract 0000 \$1,000,000

JOHN DOE CONSTRUCTION CO., INC.

1-33 SEQUENCE OF CONSTRUCTION

The Contractor must submit to the Engineer for approval his planned sequence of construction prior to commencement of work for the following project segments:

- Seg. 1 - Station 537+74 to Station 545+87
- Seg. 2 - Station 545+87 to Station 553+50
- Seg. 3 - Station 553+50 to Station 639+16
- Seg. 4 - Station 639+16 to Station 671+25

This is required to insure that at no time in the construction will the slopes of the canal section be in an unstable configuration.

SECTION 2
DEMOLITION

2-01 STRUCTURES

The Contractor shall remove and dispose of all pilings, docks, waterlines, boathouses, houses and any other structures which may exist within the limits of work as indicated on the contract drawings, with the exception of vehicular bridges (Hammond Highway, Veterans Highway, and I-10) and power poles. Piers and piling are to be cut off no higher than the proposed after-dredging ground line so that no structures obstruct the flow of water in the canal at the completion of the project. All products of demolition are to be hauled away and disposed of at a site chosen by the Contractor and approved by the Engineer.

2-02 OBSTRUCTIONS

The Contractor shall remove and dispose of all brush, trash, sunken boats and any other obstructions which may exist within the limits of this project. These items are to be hauled away and deposited at an approved site. The Contractor will be responsible for any damage to levees, streets, sheet pile walls, etc., during demolition and hauling operations.

2-03 SHEET PILE WALLS

The Contractor shall remove and dispose of all existing sheet pile walls along both sides of the canal as indicated on the plans. Sheet piles are to be either pulled or cut off no higher than the proposed after-dredging ground line. The order and timing of removal must be submitted to and approved by the Engineer.

2-04 PAYMENT

Prior to the commencement of work, the Contractor and Engineer's Representatives will mutually agree upon a total quantity of demolition items, with payment to be made at each payment period based upon the percentage of items removed that period and applied to the lump sum bid price for "Demolition." Payment will be made in accordance with Paragraphs 55 through 60 of the General Specifications.

SECTION 3
DREDGING, DISPOSAL, AND LEVEE RECONSTRUCTION

3-01 EXCAVATION

3-01.1 Dredging

Bucket dredging only shall be performed within the limits of work shown on the contract drawings. All soil encountered while dredging is to be placed in the designated disposal area. No dredging will be permitted while Pump Station No. 6 is in operation. Dredging may resume when the Engineer has determined that all flow of water in the canal has ceased.

3-01.2 Flood Control

The Contractor is required to maintain flood control during all construction phases of the project. Any temporary flood protection must be built to a minimum elevation equivalent to that of existing levees and floodwalls. The length of temporary flood protection must never exceed 250 feet. The Contractor must submit his plan for flood protection to the Engineer for approval prior to the commencement of work.

3-02 CHARACTER OF MATERIAL TO BE DREDGED

The material to be removed from the canal within the specified limits may include sand, silt, clay, shell, logs, stumps, snags, debris, brush, riprap, and other obstructions. Bidders are expected to examine the site and after investigation decide for themselves the character of the materials as stated in Paragraph 1-05.

3-03 THEORETICAL SECTION

3-03.1 After-dredging Section

An after-dredging cross-section is herewith established which shall have a varying bottom width and bottom elevation in accordance with the contract drawings. Excavation of six inches of allowable overdepth below the profile grade will be permitted and side slopes will be 1 vertical on 3 horizontal. To gain acceptance, sections must be dredged to the specified profile grade, bottom width and side slopes. Payment will be made for the six inches of allowable overdepth below profile grade. However, the Contractor will receive no payment for material removed below the overdepth grade or beyond the required side slopes.

3-03.2 Levee Degrading and Raising

In those areas where the required top of levee elevation is above the existing top of levee elevation, a section of varying top width and a 3 horizontal to 1 vertical back slope is herewith established. Only suitable material for levee-raising may be used and must meet the approval of the Engineer. Material removed from existing levees requiring degradation as indicated on the plans, but not from canal bottom, may be used to raise levee elevation where needed. The excess material removed from the levees may be placed on the Jefferson Lakefront Levee landside berm. The material shall be spread uniformly over berm, sloped to drain, and not exceed two feet in depth. It is to be fertilized and seeded according to Section 7-01.

3-04 DISPOSAL OF EXCAVATED MATERIAL

3-04.1 Hauling

All dredged material is to be hauled by truck to the designated disposal area site as shown on the map of page no. 3-5 of the Special Specifications. All hauling must be done in accordance with Section 1-19 of this Specification.

3-04.2 Lining of Trucks

Measures must be taken to assure that no dredged material escapes from the trucks while being hauled to the disposal area. Trucks are to be lined with 6 mil polyethylene or any alternative method acceptable to both the Contractor and Engineer.

3-04.3 Grading of Spoil

Dredged material hauled to the disposal site is to be graded and covered by a minimum of one foot of clean fill at the completion of this project to the satisfaction of the Engineer.

3-05 WORKING IN THE VICINITY OF STRUCTURES AND UTILITY CROSSINGS

The Contractor shall exercise caution when working in vicinity of existing structures and utilities. Repair of any damage to any of these items will be the responsibility of the Contractor. When dredging to the theoretical section and within the proposed limits might endanger any existing structures or utilities, the Contractor shall notify the Engineer before proceeding with any work in that area. The following structures or utilities are located within or near the construction limits of this project:

<u>UTILITY OR STRUCTURE</u>	<u>APPROXIMATE BASELINE STATION</u>	<u>ELEVATION</u>	<u>OWNER</u>
1. 12" Water Line	541 + 44	6.0	Jefferson Parish
2. Hammond Hwy. Bridge	552 + 90	-	La. Dept. of Highways
3. Overhead Power Line	579 + 90	52.0	La. Power & Light/NOPSI
4. Overhead Power Line	581 + 60	52.0	La. Power & Light/NOPSI
5. Veterans Hwy. Bridge	625 + 80	-	La. Dept. of Highways
6. Guy Pole	630 + 89	-	La. Power & Light
7. Power Pole	631 + 46	-	La. Power & Light
8. Power Pole	635 + 01	-	La. Power & Light
9. Power Pole	638 + 70	-	La. Power & Light
10. I-10 West Bridge	639 + 60	-	La. Dept. of Highways
11. I-610 East Bridge	640 + 80	-	La. Dept. of Highways
12. I-10 East Bridge	641 + 80	-	La. Dept. of Highways

<u>UTILITY OR STRUCTURE</u>	<u>APPROXIMATE BASELINE STATION</u>	<u>ELEVATION</u>	<u>OWNER</u>
13. Power Pole	642 + 40	-	La. Power & Light
14. Power Pole	646 + 18	-	La. Power & Light
15. Power Pole	649 + 90	-	La. Power & Light
16. Power Pole	653 + 56	-	La. Power & Light
17. Power Pole	657 + 64	-	La. Power & Light
18. Power Pole	661 + 19	-	La. Power & Light
19. Power Pole	665 + 38	-	La. Power & Light
20. Power Pole	669 + 09	-	La. Power & Light
21. Railroad Bridge	671 + 40	-	Southern Railroad

3-06 QUANTITY SURVEYS

The Contractor will be responsible for making original and final surveys to be used in the computation of quantities for the determination of the contract price under Bid Item 2, "Dredging," Bid Item 3, "Levee Degrading," and Bid Item 4, "Levee-Raising." All quantity surveys shall be made under the direction of a representative of the Project Engineer.

Cross Sections to be used for the purposes of quantity computation are to be taken at a maximum of 100 feet along the baseline. Soundings and/or level rod readings are to be taken at a maximum of 10 foot intervals normal to the baseline. Horizontal distances will be measured to the nearest foot and elevations to the nearest tenth of a foot. Soundings are to be taken with a twelve pound mushroom weight having a six-inch diameter base.

Original quantity surveys may be made at any time prior to the dredging of a particular section. Final surveys will be made only after the Engineer's representative has determined that the work in a particular section is complete.

3-07 MEASUREMENT AND ACCEPTANCE

The total amount of work to be paid for under Bid Item 2, "Dredging", Bid Item 3, "Levee Degrading," and Bid Item 4, "Levee-Raising," will be measured in accordance with the theoretical Sections described in Paragraph 3-03 of these Specifications.

For purposes of payment, dredging work will be accepted in 1000 linear foot segments. Payment at the applicable unit price will be made when it is

determined, by the final quantity survey, that a particular 1000 linear foot segment has been dredged to the required cross-section; in addition, profiles will be taken along each required top of slope and at the centerline of the required cross-section to insure that the entire channel has been excavated to the proper elevation. These profiles are to be performed by the Contractor using electronic sounding equipment and under the direction of the Engineer's Representative. Only after all cross-sections and profiles for a particular segment are deemed acceptable by the Engineer will payment for that segment be made.

3-08 PAYMENT

3-08.1 Mobilization and Demobilization

All costs connected with the mobilization and demobilization of all of the Contractor's plant and equipment will be paid for at the contract lump sum price for this item. Sixty percent of this amount will be paid to the Contractor upon the completion of his mobilization at the work site. The remaining forty percent will be paid to the Contractor upon completion of his demobilization from the work site.

3-08.2 Dredging

Payment for Bid Item 2 will be made at the applicable unit price based upon quantity surveys and after acceptance of each particular section. Payments for the dredging item will be made in accordance with Paragraphs 55 through 60, in Section A of the General Specifications.

3-08.3 Levee Degrading and Raising

Payment for Bid Items 3 and 4 will be made at the applicable unit price based upon quantity surveys and after acceptance of each particular section. Payment for the levee degrading and raising items will be made in accordance with Paragraphs 55 through 60, in Section A of the General Specifications.

3-09 REPORTING REQUIREMENTS

The Contractor will be required to prepare a daily report of operations and furnish copies to the Engineer's Representative. Further instructions will be furnished at a preconstruction conference.



DREDGING SITE

DISPOSAL SITE

SUGGESTED ROUTE FOR DREDGED MATERIAL TO BE TRUCKED TO DISPOSAL SITE

SECTION 4

STEEL SHEET PILING

4-01 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 steel sheet piling in accordance with these specifications and applicable drawings.

4-02 APPLICABLE PUBLICATIONS

The following American Society for Testing and Materials (ASTM) standards of the issues listed below, but referred to thereafter by basic designation only, form a part of this specification to the extent indicated by the references thereto:

A 328	PMA-22 Sheet Piling
A 690	High Strength Low Alloy Steel PZ-27 Sheet Piling for Use in Marine Environments
A 36	H-Piles for Tie-backs

4-03 SUBMITTALS

4-03.1 Equipment Descriptions

The Contractor shall submit complete descriptions of pile driving equipment, including hammers, extractors, protecting caps and other appurtenances to the Engineer for approval prior to commencement of work.

4-03.2 Certificate

The Contractor shall furnish the Sewerage and Water Board's Engineers a certificate showing that piling furnished has the required interlock strength as determined by test results of two representative test specimens, approximately 3 inches long, per heat. The certificate shall indicate piling type, dimensions and section properties. Piling shall not be delivered to the site prior to the receipt by the Contractor of a written approval from the Sewerage and Water Board's Engineers.

4-04 MATERIALS

Steel for sheet piling shall conform to the requirement of (ASTM A 36) (ASTM A 328) (ASTM A 690). Sheet piling, including special fabricated sections, shall be of the type indicated on the drawings, have a nominal web thickness of not less than 3/8-inch and be of a design such that when in place they will be continuously interlocked throughout their entire length. All 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.

Type of Section	Nominal Web Thickness (Inches)	Section Modulus Per Lin Ft of Wall (In)	Weight Per Sq Ft of Wall (Lbs)	Weight Per Lin Ft of Pile (Lbs)
PZ 27	3/8	30.2	27	40.5
PMA 22	3/8	5.4	22	36.0

Steel for tie backs and bolts shall conform to the requirements of Section 5-01 structural steel.

4-05 INSTALLATION

4-05.1 Placing and Driving

4-05.1.1 Placing

Piling shall be carefully located as shown on the drawings or as directed by the Sewerage and Water Board Engineers. 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 wall. Interlocks shall be properly engaged with the thumb of each pile gripped by the thumb and finger of the adjacent pile. All piles shall be placed as true to line as possible. Suitable temporary wales or guide structures shall be provided to insure that the piles are driven to correct alignment.

4-05.1.2 Driving

All piles shall be driven to depths shown on the drawings and shall extend to the elevation indicated for the top of piles. A tolerance of 3 inches above the indicated top elevation will be permitted. Piles shall be driven by approved methods in such manner as not to subject the piles to serious damage and to insure proper interlocking throughout the length of the piles. Pile hammers shall be maintained in proper alignment during driving operations by use of suitable leads or by guides attached to the hammer. A protecting cap shall be employed in driving, when required, to prevent damage to the tops of piles. All piles shall be driven without the aid of a water jet unless otherwise authorized. Adequate precautions shall be taken to insure that piles are driven plumb. If at any time the forward or leading edge of the pile wall is found to be out of plumb in the plane of the wall, the piles already assembled and partly driven shall be driven to full depth and the Contractor shall provide and drive tapered piles to interlock with the out of plumb leading edge or take other corrective measures to insure the plumbness of succeeding piles. The maximum permissible taper for any tapered pile will be one-eighth of an inch per foot of length. Each run of piling shall be driven to grade progressively from the start and no pile shall be driven to a lower grade than those behind it in the same run except when the piles behind it cannot be driven deeper. If the pile next to the one being driven tends to follow below final grade, it may be pinned to the next adjacent pile. Payment for the additional labor and materials necessitated by such changes will be made at the applicable contract prices. Piles driven out of interlock with adjacent piles or otherwise damaged shall be removed and replaced by new piles at the Contractor's expense.

4-05.2 Cutting and Splicing

Piles in excess of the specified tolerance shall be cut off to required grade. Piles driven below the elevations indicated from 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 elevation by welding an additional length, when directed, without cost to the Sewerage and Water Board. Should splicing of piles be necessary, the splice shall be made by an approved butt weld making full penetration of the web. Piles adjoining spliced piles shall be full length piles. The Contractor shall trim the tops of piles excessively battered during driving, when directed to do so, at no cost to the Sewerage and Water Board. Cut-offs shall become the property of the Contractor and shall be removed from the work. 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 shall be drilled or may be burned and reamed in place by approved methods which will not damage remaining metal. Holes, other than bolt holes, shall be reasonably smooth and of proper size for rods or other items to be inserted.

4-05.3 Pulling and Re-driving

The Contractor may be required to pull certain selected piles after driving, for test and inspection, to determine the conditions of the piles. Any pile so pulled and found to be damaged to such extent as would impair its usefulness in the structure 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 a satisfactory condition shall be redriven.

4-05.4 Controlled Rusting

A #6 reinforcing bar shall be welded to the top of each steel sheet pile and flexible jumpers installed at all monolithic joints and all transitions from I-wall to steel sheet piling. Jumpers shall be insulated No. 1/0 AWG copper; insulated with cross-linked polyethylene, in an 8" diameter loop. Jumpers shall be welded as specified to adjacent steel sheet piles 1" below the bottom of the concrete cap. Welded connections shall be coated with splicing epoxy to obtain a moisture proof joint.

4-06 QUANTITIES

The estimated quantities of sheet piling listed in the unit price schedule of the contract as to be furnished by the contractor are given for bidding purposes only. Sheet piling quantities for payment shall consist of the area of piling acceptably installed. This area includes the lengths of piles driven below the elevations indicated for the top of piles and the lengths of placed piles as shown on the drawings plus any additions thereto resulting from changes in design or alignment as provided in 4-05.1.2 above.

4-07 MEASUREMENT AND PAYMENT

4-07.1 Measurement

The length of each pile driven will be measured to the nearest tenth of a linear foot. No deduction will be made for holes cut for drains and utilities, in computing the area of steel sheet pile structures.

4-07.2 Payment

4-07.2.1 Sheet Piling

Payment for steel sheet piling quantities will be made at the applicable contract price per square foot for Item No. 7, "Tied-Back Wall," Item No. 8, "Floodwall," and Item No. 9, "Sheet Pile Cut-Off Wall;" price shall include all cost of furnishing, driving, cutting holes, and all other material and work incident thereto.

4-07.2.2 Pulled Piles

Pile which are directed to be pulled and found to be in good condition will be paid for at the contract price for furnishing and driving the pile in its original position plus an equal amount for the cost of pulling. Such pulled piles when redriven will be paid for at 50 percent of the applicable contract unit price for that portion of the pile redriven below cut off elevation. This price constitutes payment for redriving only; the cost of furnishing, initial driving and pulling the piles is to be paid for as specified above. When piles are pulled and found to be damaged, no payment will be made for originally furnishing and driving such piles, nor for the operation of pulling. Piles replacing damaged piles will be paid for at the contract unit prices for the lengths driven.

SECTION 5

STRUCTURAL - BUCKTOWN PEDESTRIAN BRIDGE

5-01 STRUCTURAL STEEL

Refer to Louisiana Standard Specifications for Roads and Bridges (1977 Edition) Sections 807, 810, 815, and 1013.01, and "Supplemental Specifications-Welding" (6/81) by the Department of Transportation and Development. All structural metal work must conform to ASTM A36.

5-02 STRUCTURAL CONCRETE AND REINFORCEMENT

Must be in accordance with Louisiana Standard Specifications for Roads and Bridges (1977 Edition) Sections 805 and 806. All concrete shall be Class A concrete with exception of revetments. All reinforcing bars shall be deformed steel bars, ASTM 615, ASTM 616, ASTM 617. No. 7 bars and larger shall be grade 60, #6 bars and smaller may be Grade 40 or 60. The Bend Test requirements for rail steel deformed bar shall be as specified in ASTM 616.

5-03 CONCRETE APPROACH SLABS

Refer to Louisiana Standard Specifications for Roads and Bridges (1977 Edition) Section 813.

5-04 PILES

Must be in accordance with Louisiana Standard Specifications for Roads and Bridges (1977 Edition) Section 804, 901, and 1009. Maximum design load will be 25 tons.

5-05 PAINTING AND PROTECTIVE COATINGS

Must comply with Louisiana Standard Specifications for Roads and Bridges (1977 Edition) Section 811, amended by Department of Transportation and Development "Supplemental Specifications" February 1980. Top coat will be aluminum blue in color.

5-06 ELASTOMERIC BEARINGS AND JOINT SEALS

Refer to Louisiana Standard Specifications for Roads and Bridges (1977 Ed.) Sections 601.15, 805.13, 1005.03.

5-07 STRUCTURAL EXCAVATION & BORROW

Must be in accordance with Louisiana Standard Specifications for Roads and Bridges (1977 Ed.) Section 203 and 802.

5-08 REVETMENT CONCRETE

Must be in accordance with Louisiana Standard Specifications for Roads and Bridges (1977 Ed.) Section 712.

5-09 CAST IRON PRESSURE PIPE

Must be in accordance with Louisiana Standard Specifications for Roads and Bridges (1977 Ed.) Section 1007.13.

5-10 PAYMENT

Payment for Bucktown Pedestrian Bridge will be made at the Contract lump sum price which includes all materials, labor, tools and equipment and the performance of all work to complete the Bucktown Pedestrian Bridge as indicated on the plans.

SECTION 6

TIMBER AND TIMBER PRESERVATIVES

6-01 STRUCTURAL TIMBER AND LUMBER

The Contractor shall have the option of providing either of the two species of wood specified below using the treatment methods outlined.

6-01.1 Southern Pine Timber

Referring to the latest Standard Grading Rules for Southern Pine Lumber, as published by the Southern Pine Inspection Bureau, Southern Pine lumber shall be furnished in grades with definite unit working stresses assigned as indicated for grade of lumber required.

- (1) For decking and bridge rails, the material shall conform to the following:

Grade: No. 1 Dense SR Timbers

- (2) For tied back sheet pile wales the material shall conform to the following:

Grade: No. 1 SR Timbers

6-01.2 Douglas Fir Timber

Referring to the latest Standard Grading Rules for Western Lumber, Douglas Fir lumber shall be furnished in accordance with the following:

- (1) Decking and bridge rail shall conform to Section 70.10 "Select Structural." Unless otherwise specified, design values shall be in accordance with Table 4, page 176, "Recommended Design Values in Pounds Per Square Inch."
- (2) Tied back sheet pile wales shall conform to Section 70.11, Grade 1. Unless otherwise specified, design values shall be in accordance with Table 4, page 176, "Recommended Design Values in Pounds Per Square Inch."

6-02 TIMBER PILING

Timber piles shall be Southern Yellow Pine or Douglas Fir and shall conform to ASTM Designation: D25.

6-03 TIMBER PRESERVATIVES

The type preservatives to be used are as follows:

Creosote Coal-Tar Solution - AWP A P2, Grade A, for regular treatment; AWP A P12 for marine treatment. The ratio shall be 80 percent creosote oil and 20 percent coal-tar.

Pentachlorophenol-Petroleum Solution-AWP A P8 and P9.

6-04 TREATMENT

6-04.1 General

All materials shall be treated according to current AWWA Standard Specifications for Preservative Treatment by Pressure Processes, modified as follows:

- Timber and Lumber..... C1 and C2
- Piles..... C1 and C3

Air-dried timber shall be steamed prior to treatment for a minimum of 6 hours.

Kiln-dried timber shall be steamed prior to treatment for a minimum of 2 hours.

6-04.2 Amount of Preservative

For acceptance purposes, the net retention in any charge by gage shall not be less than 100 percent of the specified quantity of preservative; and for verification, the net retention in any charge by random assay shall not be less than 85 percent of the quantity specified. If it is found necessary for the Sewerage and Water Board to use assay as the sole acceptance criteria, then the retention shall be at least 90 percent of the specified quantity of preservative. The minimum amount of preservative retained shall be as follows:

6-04.2.1 Creosote Coal-Tar Solution or Pentachlorophenol-Petroleum Solution Treatment shall be as follows:

Min. Net Retention of
Preservative Per Cu.
Ft. of Wood (Lbs.)

Material

- Southern Pine Timber for decking and bridge rail..... 16
- Douglas Fir Timber for decking and bridge rail..... 16
- Southern Yellow Pine Piles and Timber of Wales..... 20
- Douglas Fir Piles and Timber for Wales..... 20

6-04.2.2 Timber piles shall be treated with creosote coal-tar solution.

6-04.2.3 Bridge rail and decking shall be treated with pentachlorophenol-petroleum solution.

SECTION 7

MISCELLANEOUS SPECIFICATIONS

7-01 TURFING

Turfing will be done in all areas of disturbed ground cover above the normal water level.

All fertilizing, seeding, and other operations required to establish turf shall be in accordance with Orleans Levee Board Specification No. 80-M-2-3 Section 6, titled "Special Specifications - Turfing", and as per acceptance of Engineer.

7-02 RIPRAP

7-02.1 General

Riprap shall be placed within the limits and to the thickness shown on the drawings or otherwise required by the Contracting Officer. It will be paid under no direct payment.

7-02.2 Placement

Stone for riprap shall be placed in such manner as to produce a reasonably well graded mass of rock with the minimum practicable percentage of voids, and shall be constructed within the specified tolerances to the lines and grades shown on the drawings or as directed in the field. The Contractor shall maintain the riprap protection until accepted and any material displaced by any cause shall be replaced at his expense to the lines and grades shown on the drawings.

7-03 CONCRETE MATS

Erosion control under bridges shall be obtained with the use of concrete block mats by Ercomat-Erosion Control Systems, Inc. or approved equal. Installation shall be according to manufacturer's suggested methods.

7-04 ROAD WORK

Any and all damage to existing bike paths and roads shall be repaired in accordance with the City of New Orleans Specifications for Streets.

7-05 BOAT CLEATS

Boat cleats shall be 10 inch cast iron Perko No. 544 with open base, or approved equal. Spacing will be 10 ft maximum.

SECTION 8

PROPOSAL

8-01 MADE BY _____

ADDRESS _____

CITY AND STATE _____

DATE _____

_____ do hereby declare that, with the sole exception of authorized sub-contractors, _____ the only person _____ interested in this proposal, and that no other person _____ than the one _____ herein named has _____ any interest herein or in the contract proposed to be taken: that it is made without any connection with any other person or persons making proposal for the same work, and that it is in all respects fair and without collusion or fraud; also that no member of the Sewerage and Water Board, or of the City Council of the City of New Orleans, or any officer or employee of the City of New Orleans, or of the several boards thereof, who are by law excluded from participation herein, are directly or indirectly interested herein, or in furnishing the supplies or doing the work to which it relates, or in furnishing bond, or in any portion of the profits herein.

And _____ do further declare that _____ have carefully examined the annexed specifications and the drawings furnished, and hereby propose to furnish the material and to do the work called for in the specifications, and shown in the drawings in the manner and under the conditions required at prices stated herein which are in words and figures as follows:

BID FORM

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	-	-	\$
2	DREDGING	470,000	CU.YD.	\$	\$
3	LEVEE DEGRADING	23,000	CU.YD.	\$	\$
4	LEVEE RAISING	17,600	CU.YD.	\$	\$
5	DEMOLITION	LUMP SUM	-	-	\$
6	REMOVAL OF EXIST. SHEET PILE WALLS	18,060	L.F.	\$	\$
7	TIED-BACK WALL	1350	L.F.	\$	\$
8	PILE BRACED WALL	140	L.F.	\$	\$
9	FLOODWALL	18,300	L.F.	\$	\$
10	SHEET PILE CUT-OFF WALL	4185	L.F.	\$	\$
11	PEDESTRIAN BRIDGE	LUMP SUM	-	-	\$
12	REBUILD BICYCLE PATH	5666	S.Y.	\$	\$
13	REBUILD ORPHEUM AVE.	1417	S.Y.	\$	\$
14	BOAT SLIPS	LUMP SUM	-	-	\$
15	CONCRETE MATS	195,000	S.F.	\$	\$
TOTAL BID					\$

BIDDER UNDERSTANDS THAT THE SEWERAGE AND WATER BOARD RESERVES THE RIGHT TO REJECT ANY AND/OR ALL BIDS AND TO WAIVE ANY INFORMALITIES IN THE BIDDING.

NOTE: The total given above is subject to verification by the Sewerage and Water Board. In case of discrepancy between the unit price bid and the total shown by bidder, the unit price will be considered to be his proposal.

Bidder understands that the Sewerage and Water Board reserves the right to reject any and/or all bids and to waive any informalities in the bidding.

8-02 STATEMENT OF ENCLOSURE OF DEPOSIT OR BID BOND

_____ enclose with this proposal a _____, as required for the sum of _____
_____ DOLLARS (\$ _____)/(_____%)

made payable to the Sewerage and Water Board, which _____ hereby forfeit as liquidated damages to the Sewerage and Water Board, in event of failure to enter into contract with good and solvent bond to the full amount of the contract in a surety company legally authorized to do business in the State of Louisiana and acceptable to the Sewerage and Water Board.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract attached within ten (10) days and deliver a surety bond or bonds as required in Paragraph 29 of the General Conditions.

8-03 SIGNATURE OF BIDDER _____

BY _____

DATE _____

ADDRESS OF BIDDER _____

STREET _____

CITY _____

PARISH OR COUNTY _____

STATE _____

TELEPHONE NUMBER (NIGHT, WEEKEND, HOLIDAY): _____

IF BIDDER IS A FIRM, FILL OUT THE FOLLOWING: _____

NAME OF ALL MEMBERS OF FIRM: ADDRESS:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

IF BIDDER IS A CORPORATION, FILL OUT THE FOLLOWING:

NAME OF PRESIDENT _____

NAME OF SECRETARY _____

THE NEW ORLEANS OR NEAREST REPRESENTATIVE: _____

NAME _____

STREET AND NO. _____

CITY AND STATE _____

TELEPHONE NUMBER (NIGHT, WEEKEND, HOLIDAY): _____

8-03.

CERTIFICATE OF QUALIFICATION OF BIDDER

_____ CERTIFY THAT _____ LICENSED BY THE LOUISIANA STATE
LICENSING BOARD FOR CONTRACTORS, UNDER LOUISIANA REVISED STATUTES 37:2157
THROUGH 37:2163 AS AMENDED, AND _____ QUALIFIED TO PERFORM THE WORK
CALLED FOR IN THE FOREGOING SPECIFICATIONS, AND HOLD LICENSE NUMBER
_____ AS EVIDENCE THEREOF.

SIGNATURE OF BIDDER:

BY: _____

(SEAL)

Addenda:

The above signed acknowledges receipt of the following addenda:

NO. _____	DATED _____
NO. _____	DATED _____
NO. _____	DATED _____