

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: St. Bernard Parish Government
Department of Public Works
1125 E. St. Bernard Highway
Chalmette, Louisiana 70043

BID FOR: H M G P Canal Crossing Project
Bartolo Drive @ 20 Arpent Canal (PW 19329)

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Royal Engineers & Consultants, L.L.C., 4298 Elysian Fields Ave., Suite B, New Orleans, LA 70122 (504) 283-9400 and dated: May 6, 2016.

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following ADDENDA: (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) ADD. # 1 DATED 06-27-16 ADD. # 2 DATED 07-01-16 ADD. # 3 DATED 07-01-16

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of:

FIVE HUNDRED FOUR THOUSAND THREE HUNDRED EIGHTY THREE Dollars (\$ 504,383.00 )
DOLLARS AND NO CENTS

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

n/a Dollars (\$ n/a )

Alternate No. 2 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

n/a Dollars (\$ n/a )

Alternate No. 3 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

n/a Dollars (\$ n/a )

NAME OF BIDDER: FLEMING CONSTRUCTION COMPANY, L.L.C.
ADDRESS OF BIDDER: 23 EAST AIRLINE DRIVE
KENNER, LA 70062

LOUISIANA CONTRACTOR'S LICENSE NUMBER: 935
NAME OF AUTHORIZED SIGNATORY OF BIDDER: JANA FLEMING KATZ
TITLE OF AUTHORIZED SIGNATORY OF BIDDER: MEMBER

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*\*: [Signature]
DATE: 7-14-2016
JANA FLEMING KATZ, MEMBER

\* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

\*\* If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid.

**LOUISIANA UNIFORM PUBLIC WORK BID  
FORM UNIT PRICE FORM**

**TO: St. Bernard Parish Government  
Department of Public Works  
1125 E. St. Bernard Highway  
Chalmette, Louisiana 70043**

**BID FOR: H M G P Canal Crossing Project  
Bartolo Drive @ 20 Arpent Canal (PW 19329)**

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

**Bartolo Drive @ 20 Arpent Canal (PW 19329)**

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Removal and Disposal of Concrete Pavement (Incidental Paving)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202-02-A-19329	30	Square Yard	13.00	390.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Removal and Disposal of Concrete Pavement (Roadway Pavement)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202-02-B-19329	355	Square Yard	15.00	5,325.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Removal and Disposal of Concrete Curb			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202-02-C-19329	220	Linear Foot	3.00	660.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Removal and Disposal of Existing Pipe			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202-02-F-19329	150	Linear Foot	24.00	3,600.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Relocation of 8" Water Main			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202-03-A-19329	1	Lump Sum	12,100.00	12,100.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ General Excavation			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203-01-19329	135	Cubic Yard	20.00	2,700.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Drainage Excavation			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203-02-19329	576	Cubic Yard	30.00	17,280.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Geotextile Fabric (Nonwoven)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203-08-19329	380	Square Yard	1.60	608.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Temporary Silt Fencing			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
204-06-19329	500	Linear Foot	1.80	900.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Class II Base Course			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
302-01-19329	60	Cubic Yard	130.00	7,800.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Traffic Maintenance Aggregate			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
402-01-19329	90	Cubic Yard	130.00	11,700.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Portland Cement Concrete Pavement (9-inched Thick)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
601-01-02-19329	355	Square Yard	98.00	34,790.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Cleaning and Resealing Existing Joints			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
602-02-19329	210	Linear Foot	4.00	840.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ A-2000 PVC Drainage Pipe (24")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
701-03-A-19329	30	Linear Foot	122.00	3,660.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Corrugated Metal Pipe-30", 12 Gage, Polymer Coated			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
701-12-F-19329	45	Linear Foot	140.00	6,300.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Catch Basins (Type III, Precast)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
702-03-03-19329	2	Each	5,500.00	11,000.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Guard Rail (Single Thrie Beam)(6'-3" post spacing)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
704-01-19329	100	Linear Foot	53.00	5,300.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Guard Rail End Treatment			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
704-11-A-19329	4	Each	3,500.00	14,000.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Concrete (4" Thick)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
706-01-19329	110	Square Yard	70.00	7,700.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Concrete (6" Thick)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
706-02-19329	30	Square Yard	100.00	3,000.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 6-inch Barrier Concrete Curb (Integral)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
707-01-A-19329	160	Linear Foot	17.00	2,720.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 5-inch Rollover Concrete Curb (Integral)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
707-01-B-19329	65	Linear Foot	20.00	1,300.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Grouted Rip Rap			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
711-01-19329	150	Square Yard	168.00	25,200.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Temporary Signs and Barricades			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
713-01-19329	1	Lump Sum	5,800.00	5,800.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Slab Sodding			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
714-01-19329	165	Square Yard	11.00	1,815.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Granular Material – Sub-Base (Net Section)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
723-01-02-19329	120	Cubic Yard	36.00	4,320.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Mobilization			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
727-01-19329	1	Lump Sum	62,500.00	62,500.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Driven Timber Piles			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
804-02-19329	1950	Linear Foot	16.50	32,175.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Timber Test Pile			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
804-06-19329	1	Each	4,200.00	4,200.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Loading Test Pile			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
804-09-19329	1	Each	4,200.00	4,200.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Precast Con-Span Bridge System and Footings			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-001-19329	1	Lump Sum	185,000.00	185,000.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Asphalt or PCC Saw Cutting (Per Inch Depth)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-002-19329	100	Linear Foot	9.00	900.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Handrail			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-003-19329	80	Linear Foot	165.00	13,200.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Preconstruction Video of Site			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-006-19329	1	Each	1,000.00	1,000.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Initial Installation & Final Removal of Dams			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-007-01-19329	1	Lump Sum	3,500.00	3,500.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Dam Removal & Replacement (First Five (5) Occurrences)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-007-02-19329	1	Lump Sum	4,800.00	4,800.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Dam Removal & Replacement (Each Additional Occurrence)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-007-03-19329	1	Each	1,100.00	1,100.00

DESCRIPTION:	<input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ Temporary Relocation of Utilities			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
S-008-19329	1	Each	1,000.00	1,000.00

Wording for "DESCRIPTION" is to be provided by the Owner.  
 All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner

AUTHORITY NOTE: Promulgated in accordance with R.S. 38:2212.

HISTORICAL NOTE: Promulgated by the Office of the Governor, Division of Administration, Office of Facility Planning and Control, LR 35:1522 (August 2009).

Jerry W. Jones  
 Assistant Commissioner

0908#113

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**Project Name:** St. Bernard Parish Government  
Department of Public Works  
HMGP Canal Crossing Project  
Bartolo Drive @ 20 Arpent Canal (PW 19329)

**Bid Open Date:** July 7, 2016

### **BIDDERS CHECK LIST**

Check off each box as you complete the instructions.

- Bid form must be completed in full and signed properly for consideration as a responsive bidder.
- Satisfactory evidence of the authority of the person signing on behalf of the individual, firm or partnership must be attached. In the case of a corporation, said authority must be in the form of a corporate resolution as specified on the Louisiana Uniform Public Work Bid Form. The sample corporate resolution provided in the bid documents may be used. Bids by partnerships must be executed in the partnership name and signed by a partner, whose title and signature must appear on the bid form.
- Bidders must acknowledge all addenda. (See the Louisiana Uniform Public Work Bid Form)
- Bid security in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid. (See the Louisiana Uniform Public Work Bid Form)
- If any bid is \$50,000.00 or more, Louisiana Contractor's License Number must be affixed to the outside of the bid envelope and to the bid form as well as where specified otherwise in the bid documents.  
***The bid from requires contractor license number – the form does not differ if a bid is above or below \$50,000.***
- The following will be clearly identified and included on the bid submittal envelope:
  - Louisiana Contractor's License Number
  - St Bernard Department of Public Works
  - Bidder's Name
  - Return address
  - Project Name



# AIA<sup>®</sup> Document A310<sup>™</sup> – 2010

## ***Bid Bond***

**CONTRACTOR:**

*(Name, legal status and address)*

**Fleming Construction Company, LLC  
23 East Airline Drive  
Kenner, LA 70062-6853**

**SURETY:**

*(Name, legal status and principal place of business)*

**Liberty Mutual Insurance Company  
175 Berkeley Street  
Boston, MA 02116**

**OWNER:**

*(Name, legal status and address)*

**St. Bernard Parish Government  
1125 E. St. Bernard Highway  
Chalmette, LA 70043**

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

**BOND AMOUNT: Five Percent (5%) of the Amount Bid-----**

**PROJECT:**

*(Name, location or address, and Project number, if any)*

**St. Bernard Parish Government Department of Public Works, HMGP Canal Crossing Project - Bartolo Drive @ 20 Arpent Canal, Project No. PW 19329**

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 14th day of July, 2016

  
\_\_\_\_\_  
(Witness)

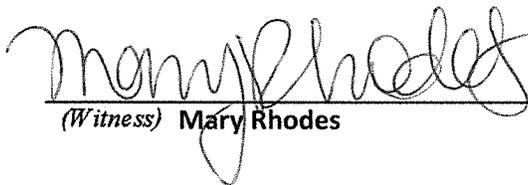
**Fleming Construction Company, LLC**

(Contractor as Principal)

(Seal)

  
\_\_\_\_\_  
(Title)

JANA FLEMING KATZ, MEMBER

  
\_\_\_\_\_  
(Witness) Mary Rhodes

**Liberty Mutual Insurance Company**

(Surety)

(Seal)

  
\_\_\_\_\_  
(Title) Tawanda A. Weatherspoon, Attorney-in-Fact

**THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.**

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 7361940

American Fire and Casualty Company  
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company  
West American Insurance Company

**POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Amy Lynn Dougay; Charles E. Reagin III; Charlotte L. Wright; Dwayne L. Moore; Markham R. McKnight; Stephanie S. McKnight; Steven P. Thibodeaux; Tawanda A. Weatherspoon; Thomas M. Sandahl; Trent J. Sandahl; William G. McKnight

all of the city of Baton Rouge, state of LA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of May, 2016.



American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
West American Insurance Company

By: David M. Carey  
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

On this 11th day of May, 2016, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Teresa Pastella, Notary Public  
Plymouth Twp., Montgomery County  
My Commission Expires March 28, 2017  
Member, Pennsylvania Association of Notaries

By: Teresa Pastella  
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

**ARTICLE IV – OFFICERS** – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII – Execution of Contracts** – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation** – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization** – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 14th day of July, 2016.



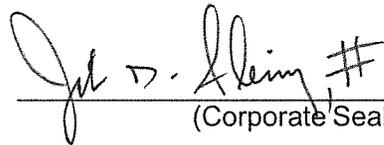
By: Gregory W. Davenport  
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, JACK D. FLEMING, II, certify that I am  
the FLEMING CONSTRUCTION COMPANY, L.L.C. Secretary of the  
Corporation named as Principal in the within bond; that  
JANA FLEMING KATZ who signed the said bond on behalf of  
the Principal was then MEMBER of said Corporation; that I know  
his signature, and his signature thereto is genuine; and that said bond was duly signed,  
sealed, and attested to for and in behalf of said corporation by authority of this governing body.

  
\_\_\_\_\_  
(Corporate Seal)

JACK D. FLEMING, II

MANAGER/MEMBER

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
\*Power-of-Attorney for person signing for Surety Company must be attached to bond.

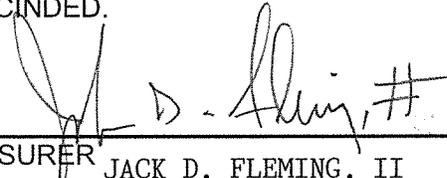
**CORPORATE RESOLUTION**

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF  
FLEMING CONSTRUCTION COMPANY, L.L.C., INCORPORATED.

AT THE MEETING OF DIRECTORS OF FLEMING CONSTRUCTION COMPANY, L.L.C.  
INCORPORATED, DULY NOTICED AND HELD ON MAY 3, 2016,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED.  
IT WAS:

RESOLVED. THAT JANA FLEMING KATZ, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-  
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON  
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS  
AND TRANSACTIONS WITH THE PARISH OF ST. BERNARD OR ANY OF ITS  
AGENCIES, DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT  
LIMITED TO THE EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS,  
BONDS, SURETIES, CONTRACTS AND ACTS AND TO RECEIVE AND RECEIPT  
THEREFOR ALL PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO THE  
PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS CORPORATION HEREBY  
RATIFYING, APPROVING, CONFIRMING AND ACCEPTING EACH AND EVERY  
SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE AND  
CORRECT COPY OF AN EXCERPT OF THE MINUTES OF THE  
ABOVE DATED MEETING OF THE BOARD OF DIRECTORS OF  
SAID CORPORATION, AND THE SAME HAS NOT BE  
REVOKED OR RESCINDED.



SECRETARY-TREASURER JACK D. FLEMING, II  
MANAGER/MEMBER

07-14-2016

DATE

NAME OF PROJECT: St. Bernard Parish Government  
 Department of Public Works  
 HMGP Canal Crossing Project – Bartolo Drive @ 20 Arpent Canal  
 PROJECT NUMBER: PW 19329  
 DATE OF BID: July 7, 2016

**ATTESTATION CLAUSE REQUIRED BY  
 LA. R.S. 38:2227 (PAST CRIMINAL CONVICTIONS OF BIDDERS)**

Appearer, as a Bidder on the above-entitled Public Works Project, does hereby attest that:

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes:

- |                                       |                                   |
|---------------------------------------|-----------------------------------|
| (a) Public bribery (R.S. 14:118)      | (c) Extortion (R.S. 14:66)        |
| (b) Corrupt influencing (R.S. 14:120) | (d) Money laundering (R.S. 14:23) |

B. Within the past five years from the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:

- |  |   |
|--|---|
| (a) Theft (R.S. 14:67)                         | (f) Bank fraud (R.S. 14:71.1)                             |
| (b) Identity Theft (R.S. 14:67.16)             | (g) Forgery (R.S. 14:72)                                  |
| (c) Theft of a business record (R.S. 14:67.20) | (h) Contractors; misapplication of payments (R.S. 14:202) |
| (d) False accounting (R.S. 14:70)              | (i) Malfeasance in office (R.S. 14:134)                   |
| (e) Issuing worthless checks (R.S. 14:71)      |   |

FLEMING CONSTRUCTION COMPANY, L.L.C.

JANA FLEMING KATZ

NAME OF BIDDER

NAME OF AUTHORIZED SIGNATORY OF BIDDER

7-14-2016

MEMBER

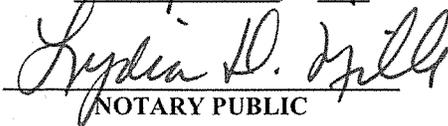
DATE

TITLE OF AUTHORIZED SIGNATORY OF BIDDER



SIGNATURE OF AUTHORIZED  
 SIGNATORY OF BIDDER  
 JANA FLEMING KATZ

SWORN TO AND SUBSCRIBED  
 BEFORE ME ON THIS 14th  
 DAY OF July, 2016.

  
 NOTARY PUBLIC

**LYDIA D. MILLER**  
 Notary ID #129346  
 Notary Public  
 Jefferson Parish, LA  
 My Commission is for Life

ATT-1

CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS  
FOR  
ST. BERNARD PARISH GOVERNMENT  
HMGP CANAL CROSSING PROJECT – BARTOLO DRIVE @ 20 ARPENT CANAL  
Department of Public Works Project No. PW 19329



---

ADDENDUM NO. 1  
DATE ISSUED: June 27, 2016

---

BID DATE: July 7, 2016 – 2:00 pm – Office of the Department of Public Works, located at 1125 East St. Bernard Highway, Chalmette, Louisiana 70043

This Addendum shall be part of the Contract Documents as provided in Part I of the Instructions to Bidders of the General Specifications.

The following items are issued to add to, modify and clarify the Contract Documents. These items shall have full force and effect as the Contract documents, and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by inserting its number and date on Page BF-1 of the Louisiana Uniform Public Work Bid Form section in the Bid Documents. Failure to do so will subject the bidder to disqualification.

Contractor acknowledges receipt of addendum No. 1 by executing the addendum in the space provided below and returning (via facsimile). Fax No. - (504) 283-9001

Received by: DEBBIE B. CLEMENT FLEMING CONSTRUCTION Date: 06-28-2016  
NAME & COMPANY COMPANY, L.L.C.

---

1. Attached are the meeting agenda and sign in sheet from the Pre-Bid Conference held June 23, 2016 – 10:00 a.m. at the Department of Public Works Office in St. Bernard Parish.
2. A point of clarification discussed in the meeting was that the contract time commences to run at the point the contractor receives the Notice to Proceed from St. Bernard Parish and is for 120 calendar days.
3. A point of clarification discussed in the meeting was that the Bid date and time is Thursday, July 7, 2016 at 2:00 pm.
4. A point of clarification discussed in the meeting was that project SBPG PW 19329 is to consist of work located on Bartolo Drive at the 20 Arpent Canal.
5. A point of clarification discussed in the meeting was that it is the responsibility of the Contractor to communicate with property owners for the use of any property as a lay down area of material. The contractor is to communicate to the Royal inspector and Parish inspector if Bartolo Drive itself is to be used for the lay down area so that careful inspection of the section of roadway to be used can be done.
6. A point of clarification discussed is the ability of the contractor to work seven (7) days a week on the project. Yes please refer to SP.31 of the Specifications.
7. A point of clarification discussed is that the last day to submit RFI's to the Engineer shall be by 2:00 p.m. on Thursday, June 30, 2016.

## TRANSACTION REPORT

JUN/28/2016/TUE 01:12 PM

## FAX (TX)

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CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS  
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ST. BERNARD PARISH GOVERNMENT  
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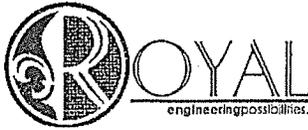
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8. A point of clarification is that the SBPG PW 19329 project is NOT Tax Exempt.
9. A point of clarification is that no building permit is required for SBPG PW 19329 project.
10. A point of clarification is that limestone is the only approved Class II Base material to be used on the SBPG PW 19329 project.
11. A point of clarification is that all limestone used on the section of Genie Street to be used as a bypass road for the duration of the SBPG PW 19329 project will be maintained during the project and will remain after the project is completed.
12. A point of clarification is that all testing and vibration monitoring for the SBPG PW 19329 project will be done by The BETA Group and that the SBPG will bear the cost of the testing. The Contractor will bear the cost of all failed test and cost incurred for failing to schedule or cancel testing in a timely manner.
13. Section 202-03.01(C) of the Technical Specifications has been changed to: "Existing 8" water main does not need to remain operational throughout construction. If the contractor so chooses the section of the 8" water main in the construction area can be cut and capped and the main reinstated after the placement of the crossing. If the contractor chooses this option the St. Bernard Parish Fire Department must be notified in writing a minimum of 72 hours in advance of the reduced water pressure servicing the fire hydrants north of the Bartolo Drive crossing. Water service will be maintained to the residents north of the Bartolo Drive crossing by back feeding the area through a smaller main at Genie Street."

END OF DOCUMENT

# PRE-BID MEETING AGENDA



**Client:** SBPG Department of Public Works    **Date:** June 23, 2016  
**Project:** HMGP Canal Crossing – Bartolo Drive    **Time:** 10:00 a.m.  
**Location:** St. Bernard Parish    **PM:** Edgar Mathews

## Department of Public Works Project No. PW 19329

### Summary:

This is the pre-bid conference for the SBPG Department of Public Works, HMGP Canal Crossing Project – Bartolo Drive @ 20 Arpent Canal and we are here to answer any questions that the contractors may have for the engineer. Anything said here should not be construed as a change of contract. Any changes to the contract will be made by addendum only.

#### I. INTRODUCTIONS

#### II. CONTRACT

- A. Contract Time – 120 Calendar Days
- B. Liquidated Damages - \$2,000/day

#### III. CONSTRUCTION

- A. This work consists of the removal of the existing culvert crossing at Bartolo Drive and the 20 Arpent canal. The crossing is to be replaced with an arch type structure.
- B. There will be drainage work, the relocations of outfalls, etc.
- C. There will be the replacement of roadway over the structure.
- D. Water main must be re-located.
- E. Utility re-location: companies have been contacted and work scheduled to be done.
- F. Bid quantities for bid comparison only.
- G. Questions??

#### IV. ADDENDUM

- A. No Addendums have been issued as of today
  - Bid date and time – July 7, 2016 – 2:00 p.m.

**Edgar “Matt” Mathews Contact Info:**  
(504)283-9400 Office  
(504)575-6118 Cell  
[emathews@royalengineering.net](mailto:emathews@royalengineering.net)

# MANDATORY PRE-BID CONFERENCE SIGN-IN

St. Bernard Parish Government HMGP Canal Crossing Project - Bartolo Drive @ 20 Arpent Canal, PW 19329

Date: June 23, 2016 Time: 10:00 a.m.

Location: St. Bernard Parish Government Department of Public Works

P.O.C. NAME		COMPANY	PHONE	FAX	EMAIL
First	Charlie	Cycle Construction	(504) 467-1444	(504) 467-1222	cgerkin@cydeconstruction.com
Last	Gierkin				
First	Neal	Command Construction	504-887-8745	504-887-8906	stage@commandindustries.com
Last	Lavin				
First	SANZOS	Fleming Const	504 464 4000	504 464 4036	ESTIMATE@FLEMING.NE
Last	SEBO				
First	Ashley	unlimited	504-835-6181	504-835-8860	unlimitedconstructionllc@gmail.com
Last	Savahing	Construction			
First	Lori	Unlimited	504-835-6181	504-835-8360	unlimitedconstructionllc@gmail.com
Last	Mazer	Construction			
First	Teri Doskey	SBPG DPW	504-278-4314	504-278-4480	tdoskey@sbspq.net
Last					
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CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS  
FOR  
ST. BERNARD PARISH GOVERNMENT  
HMGP CANAL CROSSING PROJECT – BARTOLO DRIVE @ 20 ARPENT CANAL  
Department of Public Works Project No. PW 19329



---

ADDENDUM NO. 2  
DATE ISSUED: July 1, 2016

---

BID DATE: July 7, 2016 – 2:00 pm – Office of the Department of Public Works, located at 1125 East St. Bernard Highway, Chalmette, Louisiana 70043

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Contractor acknowledges receipt of addendum No. 2 by executing the addendum in the space provided below and returning (via facsimile). Fax No. - (504) 283-9001

DEBBIE CLEMENT/FLEMING CONSTRUCTION COMPANY, L.L.C.

Received by: \_\_\_\_\_ Date: 07-05-2016  
NAME & COMPANY

---

1. Question: Can an Installation Floater Policy be used in lieu of the Builders Risk Policy as stated in the specifications? Answer: Yes, St. Bernard Parish will accept the Installation Floater Policy in lieu of the Builders Risk Policy.
2. Question: Who pays for the de-energizing costs of overhead power lines? SP-13 state to coordinate with Entergy. Answer: Please see SP.10 Utilities and Utility Relocation.
3. Question: Who pays for the re-location of the gas line? Answer: Please see SP.10 Utilities and Utility Relocation.
4. Question: Were soil boring taken? If so please provide copy. Answer: Yes soil borings were taken. A copy of the geotech report is attached.

END OF DOCUMENT

# TRANSACTION REPORT

JUL/05/2016/TUE 11:31 AM

FAX(TX)

#	DATE	START T.	RECEIVER	COM. TIME	PAGE	TYPE/NOTE	FILE
001	JUL/05	11:30AM	2839001	0:00:45	1	MEMORY OK	ECM 1641

**CONSTRUCTION SPECIFICATIONS  
 AND  
 CONTRACT DOCUMENTS  
 FOR  
 ST. BERNARD PARISH GOVERNMENT  
 HMGP CANAL CROSSING PROJECT – BARTOLO DRIVE @ 20 ARPENT CANAL  
 Department of Public Works Project No. PW 19329**

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Received by: \_\_\_\_\_ Date: 07-05-2016  
 NAME & COMPANY

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END OF DOCUMENT

**GEOTECHNICAL INVESTIGATION**

**PROPOSED CANAL CROSSING AT CORINNE AND 20 ARPENT CANAL  
MAGISTRATE, MISSOURI AND BARTOLO STREETS**

**ST. BERNARD PARISH, LOUISIANA**

**TBG PROJECT NO. 3976G**

**PREPARED FOR:**

**ROYAL ENGINEERING, INC.**

**NEW ORLEANS, LOUISIANA**



**1428½ Claire Avenue, Gretna, Louisiana 70053**

**(504) 227-2273 • fax: (504) 227-2274**

**2107 Nicholson Avenue, Waveland, Mississippi 39576**

**(228) 466-2556 • fax: (228) 466-2571**

**[Betagroupqc.com](http://Betagroupqc.com)**



January 23, 2015

Royal Engineering, Inc.  
4298 Elysian Fields Ave.  
New Orleans, LA 70122

Attn: Mr. Matt Mathews

Reference: Report of Geotechnical Investigation  
Proposed Canal Crossing at Corrine and 20 Arpent Canal  
Magistrate, Missouri and Bartolo Streets  
St. Bernard Parish, LA  
TBG Report No. 3976G

Dear Mr. Mathews:

The Beta Group, LLC (TBG) has performed a Geotechnical Investigation for the above referenced site in St. Bernard Parish, Louisiana. As authorized by your office, this project was performed in accordance with our proposal dated August 29, 2014. The attached report presents our understanding of the project, reviews our exploration procedures, describes existing site and general subsurface conditions, and presents our evaluations and recommendations.

We have enjoyed working with you on this project and look forward to assisting you during the continuing design and construction activities. Please feel free to contact us if you have any questions regarding this report or need further service.

Sincerely,

**THE BETA GROUP, LLC**

Alex Jaramillo, P.E.  
Senior Project Engineer



Tim Burbach, E.I.  
Project Engineer

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## **PURPOSE AND SCOPE OF SERVICES**

### **PURPOSE OF STUDY**

The purpose of the Geotechnical Investigation was to explore the subsurface conditions at the site and to provide geotechnical design recommendations for the proposed Conspan Bridges, site preparation, earthwork and quality control measures related to these design aspects.

### **SCOPE OF SERVICES**

To accomplish the stated purpose, we executed the following:

1. Documented existing surface conditions and features at the project site and the marked boring location.
2. Performed a subsurface exploration consisting of three (3) undisturbed soil test borings, each to a depth of 100 feet below the existing ground surface in the general area of each Bridge.
3. Performed laboratory testing on selected soil samples to ascertain soil properties for engineering purposes.
4. Evaluated the findings of the subsurface exploration and laboratory data relative to general subsurface characterization, support, and other geotechnical aspects of the project.

Our scope of services did not include a survey of boring locations and elevations, quantity estimates, preparation of plans or specifications, or the identification and evaluation of environmental aspects of the project site.

### **PROPOSED PROJECT DESCRIPTION**

The project consists of three (3) individual Conspan Bridges. The individual bridges will span across either Corinne Canal or 20 Arpent Canal at Missouri St., Magistrate St, and Bartolo St. Each bridge will be approximately 22 ft. to 26 ft. in width.

## SUBSURFACE EXPLORATION

### FIELD EXPLORATION

The subsurface exploration consisted of three (3) undisturbed soil test borings (designated as B-1 thru B-3) performed on October 28, 29 and November 8, 2014 at the referenced site and at the approximate locations shown on the attached Boring Location Plan (Figure No. 1).

The soil test boring locations were located in the field by a TBG representative by making measurements from known site features. The boring locations were plotted and topographical information was estimated. The methods used in the determination of the boring locations shown on the Boring Location Plan should be considered approximate.

The soil test borings were drilled utilizing a truck mounted drill rig at the designated locations shown on the Boring Location Plan. Undisturbed sampling was performed continuously in the upper 10 feet and on 5 ft. centers thereafter, with a 3-inch diameter thin-walled tube sampler. Representative samples were removed from the tubes and placed in moisture-proof containers for laboratory testing.

When cohesionless material was encountered, which could not be sampled by undisturbed methods, the Standard Penetration Test was performed. This test consists of driving a two inch diameter splitspoon sampler 1 ft. (after first seating it 6 inches) with a 140 lb. hammer falling 30 inches. The number of blows required to drive the sampler gives an indication of the density of the material.

The soil test borings were advanced through the soil overburden to the assigned termination depths of 100 feet below the existing ground surface.

Subsurface water level readings were obtained at the soil test boring locations immediately upon completion of the drilling process and after a period of 10 minutes. Upon completion of the drilling activities, the boreholes were backfilled with auger cuttings (soil) and high-strength concrete as per LADOTD requirements.

### LABORATORY TESTING

Laboratory tests were conducted on selected samples in general accordance with ASTM standards.

The laboratory testing performed for this project consisted of:

- Atterberg Limits
- Unconfined Compression
- Natural Moisture Content
- Percent Passing the #200 Sieve

The test results are summarized on the individual Boring Logs in the Appendix of this report.

## **SITE AND SUBSURFACE CONDITIONS**

### **SITE CONDITIONS**

TBG performed reconnaissance of the site. The sites are located on Magistrate, Missouri and Bartolo Streets and St. Bernard Parish, Louisiana.

### **SUBSURFACE CONDITIONS**

**Boring B-1:** Reference to the log of boring B-1 shows that beginning at the ground surface, there is 4 ft. of stiff brown and gray clay followed by very soft clay or organic clay to the 53 ft. depth. This is underlain by medium dense silty sand to the 62 ft. This silty sand is followed by soft to medium stiff gray clay or silty clay to at least the boring's termination depth of 100 ft.

**Boring B-2:** Reference to the log of boring B-2 shows that beginning at the ground surface, there is 12 ft. of medium stiff to stiff gray clay or silty clay followed by very soft clay or organic clay to the 60 ft. depth. This is underlain by stiff to very stiff gray silty clay to the 67 ft. This silty clay is followed by medium stiff to stiff gray silty clay to at least the boring's termination depth of 100 ft.

**Boring B-3:** Reference to the log of boring B-3 shows that beginning at the ground surface, there is 4 ft. of stiff brown silty clay followed by very soft to soft clay or organic clay to the 57 ft. depth. This is underlain by very soft to stiff gray silty clay to the 82 ft. This silty clay is followed by soft gray clay to the 87 ft. depth and is underlain by stiff to very stiff gray silty clay to at least the boring's termination depth of 100 ft.

### **GROUNDWATER CONDITIONS**

At the time of making the borings, subsurface water was encountered at the 7 ft. depth below the existing ground surface in all borings. After a 10 minute wait period, groundwater was measured at about the 6 ft. depth. It should be noted that groundwater levels tend to fluctuate with seasonal and climatic changes, as well as with some types of construction operations. As such, groundwater levels at other times of the year may be different than those described in this report. These observations were made while completing the borings and may not have become fully static at the time of measurement. If groundwater is important to construction, it should be measured at that time.

### **ENGINEERING EVALUATION & RECOMMENDATIONS**

The following evaluations and recommendations are based on our observations at the site, interpretation of the field and soil laboratory data obtained during this exploration, and our experience with similar subsurface conditions and projects. Subsurface conditions in unexplored locations may vary from those encountered. If the project location changes, we request that we be advised so that we may re-evaluate our recommendations.

Design recommendations for the proposed Conspan Bridges for the given location are dependent on the soil and site conditions. The subsurface exploration aids the geotechnical engineer in determining the necessary geotechnical recommendations needed. In addition, since the method of construction greatly affects the soils intended for the proposed Conspan Bridges, consideration must be given to the implementation of suitable methods of site preparation, pile driving, and other aspects of construction. Based on our analysis, it is our opinion that the proposed site is suitable for the planned construction.

### **DEEP FOUNDATION**

Analyses were made based on the borings and laboratory test data to develop geotechnical related parameters for use in design of a deep foundation system. These include an evaluation of pile capacities for 7-inch tip and 12-inch tip diameter timber piles (ASTM D 25), 12-inch and 14-inch square, pre-cast, pre-stressed concrete piles, and estimates of settlements. Results of these analyses are given in the following sections. Allowable pile load capacities for driven treated ASTM D 25 quality timber piles and the concrete piles are provided in the following tables. The allowable pile capacities also assume the piles are vertical and do not include the weight of the pile.

**PILES INSTALLED AT MAGISTRATE STREET CROSSING**

PILE TYPE AND SIZE	PILE TIP EMBEDMENT BELOW GROUND SURFACE(FEET)	ESTIMATED ALLOWABLE SINGLE PILE LOAD CAPACITIES IN TONS COMPRESSION FACTOR OF SAFETY = 2 TENSION FACTOR OF SAFETY = 3	
		COMPRESSION	TENSION
7-In. Dia. Tip & 12-In. Dia. Butt Timber Pile	30	3	2
	35	4	2½
	40	5	3
	45	6	4
	50	7	4½
	55	8	5
	60	11	7
	65	14	9
	70	16	10½
	75	17	11
	80	19	12½
	85	21	14
	90	23	15
	95	25	16½
100	27	18	
12-Inch Concrete Pile	30	5	3
	35	6	4
	40	8	5
	45	9	6
	50	10	6½
	55	13	8½
	60	17	11
	65	23	15
	70	27	18
	75	30	20
	80	33	22
	85	36	24
	90	39	26
	95	42	28
100	45	30	

14-Inch Concrete Pile	30	6	4
	35	7	4½
	40	9	6
	45	10	6½
	50	12	8
	55	15	10
	60	21	14
	65	26	17
	70	31	20½
	75	35	23
	80	39	26
	85	42	28
	90	45	30
	95	49	32
100	52	34	

\*These are soil-pile related values and consideration should be given to the requirements of the applicable building codes and the structural integrity of the pile member.

**PILES INSTALLED AT MISSOURI STREET CROSSING**

PILE TYPE AND SIZE	PILE TIP EMBEDMENT BELOW GROUND SURFACE(FEET)	ESTIMATED ALLOWABLE SINGLE PILE LOAD CAPACITIES IN TONS COMPRESSION FACTOR OF SAFETY = 2 TENSION FACTOR OF SAFETY = 3	
		COMPRESSION	TENSION
7-In. Dia. Tip & 12-In. Dia. Butt Timber Pile	30	8	5
	35	9	6
	40	10	6½
	45	12	8
	50	13	8½
	55	15	10
	60	17	11
	65	19	12½
	70	22	15½
	75	24	16
	80	25	16½
	85	28	18½
	90	30	20
	95	32	21
100	34	22	
12-Inch Concrete Pile	30	12	8
	35	14	9
	40	16	10½
	45	18	12
	50	20	13
	55	23	15
	60	25	16½
	65	29	19
	70	33	22
	75	37	24
	80	42	28
	85	46	30
	90	50	33
	95	55	36
100	59	39	

14-Inch Concrete Pile	30	14	9
	35	16	10½
	40	19	12½
	45	21	14
	50	24	16
	55	27	18
	60	29	19
	65	34	22
	70	39	26
	75	44	29
	80	49	32
	85	54	36
	90	59	39
	95	64	42
100	69	45½	

\*These are soil-pile related values and consideration should be given to the requirements of the applicable building codes and the structural integrity of the pile member.

**PILES INSTALLED AT BARTOLO STREET CROSSING**

PILE TYPE AND SIZE	PILE TIP EMBEDMENT BELOW GROUND SURFACE(FEET)	ESTIMATED ALLOWABLE SINGLE PILE LOAD CAPACITIES IN TONS COMPRESSION FACTOR OF SAFETY = 2 TENSION FACTOR OF SAFETY = 3	
		COMPRESSION	TENSION
7-In. Dia. Tip & 12-In. Dia. Butt Timber Pile	30	5	3
	35	6	4
	40	7	4½
	45	8	5
	50	9	6
	55	10	6½
	60	12	8
	65	13	8½
	70	15	10
	75	17	11
	80	18	12
	85	19	12½
	90	21	14
95	23	15	
100	25	16½	
12-Inch Concrete Pile	30	8	5
	35	9	6
	40	11	7
	45	13	8½
	50	14	9
	55	16	10½
	60	18	12
	65	20	13
	70	24	16
	75	28	18½
	80	30	20
	85	31	20½
	90	34	22
95	38	25	
100	41	27	

14-Inch Concrete Pile	30	9	6
	35	11	7
	40	13	8½
	45	15	10
	50	17	11
	55	18	12
	60	20	13
	65	23	15
	70	28	18½
	75	33	22
	80	36	24
	85	37	24
	90	40	26
	95	44	29
100	48	32	

\*These are soil-pile related values and consideration should be given to the requirements of the applicable building codes and the structural integrity of the pile member.

The provided compression capacities contain an estimated factor of safety of two (2) against failure of a single pile through the soil. The provided tension capacities contain an estimated factor of safety of three (3) against failure. The analyses for pile capacities are based on a soil-pile relationship only. The structural capacities of the piles and their connections to transmit these loads should be determined by a structural engineer.

All loads from the Conspan Bridges should be supported on piles having the same approximate tip embedment depth below the existing ground surface in order to minimize potential differential settlement. Pile driving will cause vibrations that may affect nearby structures or pavements. TBG should be contacted to monitor the effects of pile driving on adjacent structures.

**Estimated Settlement of Pile Foundations**

No detailed settlement analyses were made since the design structural loads, pile length, pile layout, etc. are not known at this time. However, settlement of the pile supported Conspan Bridges using the recommended pile load capacities, in single widely spaced rows or in clusters, of up to 6 to 8 piles, are estimated to be on the order of 1 to 1½ inches. Settlements will increase with the size of the pile cluster.

Our estimates do not include the elastic deformation of the piles, which should be added to the settlement estimates. Elastic deformation of the piles may be estimated at 67% of the static column strain of a pile acting as a column.

In the event any of our assumptions are not valid, TBG should be contacted to evaluate the potential effects on settlement of pile foundations.

### **Pile Driving**

Driving of timber piles having a 7 inch diameter tip and a 12 inch diameter butt should be limited to the rate of 25 blows per foot using a maximum of 12,000 to 15,000 ft-lbs of energy per blow. Driving of square concrete piles having widths of 12 inches and 14 inches should be limited to the rate of 50 to 75 blows per foot using a maximum of 20,000 to 30,000 ft.-lbs. of energy per blow. These recommendations are given in order to minimize possible damage to the piles.

It is important that inspection and monitoring of piles be done by a qualified soil technician so as to detect unexpected conditions indicated by the driving resistance (hammer blows per foot) as well as any potential problems with breakage or driving difficulties.

### **Group Effect**

The effect of pile grouping on the single pile load capacities is dependent on pile spacing, pile length and soil characteristics throughout the pile length and below the pile tips. All piles should have a minimum center-to-center spacing of at least three (3) pile diameters or center to center spacing of 3 ft., whichever is greater. Group effect should be unimportant for pile clusters of up to 6 piles. Group effect could become important for larger clusters and should be evaluated when actual pile layouts are known.

### **Minimum Pile Spacing**

$$\text{SPAC} = 0.05 L_1 + 0.025 L_2 + 0.0125 L_3$$

SPAC(ft.) = Center to center spacing of piles = (Min. 3.0 ft.)

L<sub>1</sub> = Pile penetration in ft. up to 100 ft.

L<sub>2</sub> = Pile penetration in ft. from 101 to 200 ft.

L<sub>3</sub> = Pile penetration in ft. from 201 to 300 ft.

### Allowable Group Capacity\*

$$Q_a = \frac{P \times L \times c}{FSF} + \frac{2.6 \times q_u \times (1 + 0.2 \frac{w}{b}) \times A}{FSB}$$

P = Perimeter distance of pile group (ft.)

L = Length of pile (ft.)

c = Average (weighted) shear strength ( $\frac{1}{2} q_u$ ) of soil throughout pile length (lbs./sq. ft.)

$q_u$  = Unconfined compressive strength of soils below pile tips (lbs./sq.ft.)

w = Width of base of pile group (ft.)

b = Length of base of pile group (ft.)

A = Base area of pile group (sq. ft.)

FSF = Factor of safety for friction area = 2

FSB = Factor of safety for base area = 3

\*In no case should the recommended single pile load capacity be exceeded.

### Vibration Monitoring

Pile driving will cause vibrations that may affect nearby buildings and utilities. Pile driving should be monitored at any structure of concern during the driving of the job piles to record their magnitude of vibrations. Sustained peak particle velocities of 0.25 inches per second measured at a structure may induce damage to the structure. Therefore, for sustained peak particle velocities in excess of 0.25 inches per second pile driving operations should be terminated and consideration given to altering the pile installation criteria.

### CONSTRUCTION QUALITY CONTROL

As previously discussed, the Geotechnical Engineer of record should be retained to monitor and test earthwork activities, pile driving activities, subgrade preparations, as well as any additional construction activities. We recommend that TBG be employed to monitor the earthwork construction, and to report that the recommendations contained in this report are completed in a satisfactory manner. Our continued involvement on the project will aid in the proper implementation of the recommendations discussed herein. The following is a recommended scope of services:

- Review of project plans and construction specifications to verify that the recommendations presented in this report have been properly interpreted and implemented.
- Observe the earthwork process to document that subsurface conditions encountered during construction are consistent with the conditions anticipated in this report.
- Observe the subgrade conditions before placing structural materials.
- Observe the placement and compaction of all structural materials, and perform laboratory and field compaction testing.

### **CONSULTATION**

Often during final design and/or construction, questions can arise or services are needed to complete the project. TBG offers various construction services such as pile logging, vibration monitoring, pile load tests, subgrade preparation testing, etc. At your request, TBG would be pleased to discuss these services.

### **LIMITATIONS**

This report has been prepared for the exclusive use of Royal Engineering, Inc. and their assigns for specific application to the referenced property in accordance with generally accepted geotechnical engineering practices.

No other warranty, expressed or implied, is made. These recommendations do not reflect variations in subsurface conditions that may be intermediate of the boring locations or in unexplored areas of the site. Should such variations become apparent during construction, we reserve the right to re-evaluate our recommendations based upon on-site observations of the conditions.

In the event changes are made in the proposed construction plans, the recommendations presented in this report shall not be considered valid unless reviewed by our firm and modified or verified in writing.

# Appendix



<b>BORING LOCATION PLAN</b>	●	<b>BORING LOCATION</b>	<b>North</b> ↑
<b>THE BETA GROUP, LLC.</b> 1428½ Claire Ave, Gretna, Louisiana, 70053 504-227-2273 fax: 504-227-2274 Betagroupgc.com		Client:	Royal Engineering, Inc.
		Project:	Proposed Canal Crossing at Corrine
		Location:	St Bernard Parish, Louisiana
		TBG Project No:	3976G
		Date:	10/28/14
		Scale: Not To Scale	Figure 1

Proposed Canal Crossing at Corrine  
Canal and 20 Arpent Canal  
St. Bernard Parish, LA

LOG OF SOIL BORING B-1

File: 3976G  
Date: 10/28/14  
Logged by: T. Roche  
Driller: E.J. Laizer  
Rig: Truck



Royal Engineering, Inc.  
4298 Elysian Field Ave., Ste. B  
New Orleans, LA

Sheet 1 of 2

FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 29° 57' 2.9" Long. 89° 56' 32.7"	
Ground Water Level	Depth (feet)	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
	Samples					LL	PL	PI				
		1.75 (P)	1.26	42	109							Stiff Brown and Gray CLAY (CH) w/ silt
		1.5 (P)		43								
	- 5	0.25 (P)	0.25	78	99	105	19	86				Very Soft Gray CLAY (CH) w/ organics
		0.25 (P)	0.17	74	98							
	- 10	0.25 (P)		202								Very Soft Dark Gray ORGANIC CLAY (OH)
		0.25 (P)		163								
	- 15	0.25 (P)		193								
		0.25 (P)	0.10	71	101	89	17	72				Very Soft Gray CLAY (CH) w/ organics
	- 25	0.25 (P)		46								
		0.25 (P)	0.18	73	100							
	- 30	0.25 (P)		64								
		0.25 (P)	0.23	60	106							
	- 35	0.25 (P)		64								
		0.25 (P)	0.25	60	106							
	- 40	0.25 (P)		64								
		0.25 (P)	0.23	60	106							
	- 45	0.25 (P)		64								
		0.25 (P)	0.25	63	101							
	- 50	0.25 (P)		63	101							

Continued Next Page

Ground Water Level Data	Boring Advancement Method	Notes
Free water first encountered Water level after 10 mins.	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.	
	<b>Boring Abandonment Method</b> Borehole grouted with cement/ bentonite upon completion	

Strata Boundaries May Not Be Exact

ARD LOG01 01R 3976G.GPJ LOG01R.GDT 2/10/15

Proposed Canal Crossing at Corrine  
Canal and 20 Arpent Canal  
St. Bernard Parish, LA

LOG OF SOIL BORING B-1

File: 3976G  
Date: 10/28/14  
Logged by: T. Roche  
Driller: E.J. Laizer  
Rig: Truck

Royal Engineering, Inc.  
4298 Elysian Field Ave., Ste. B  
New Orleans, LA



Sheet 2 of 2

FIELD DATA			LABORATORY DATA								Soil Type	Location: Lat. 29° 57' 2.9" Long. 89° 56' 32.7"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:	
							LL	PL	PI		Description			
														Very Soft Gray CLAY (CH) w/ organics
	-55	X	10 b/f 4-4-6		28					19				Medium Dense Gray SILTY SAND (SM)
		X	10 b/f 4-5-5		31					10				
	-60	X	21 b/f 3-6-15		28					17				
	-65		0.5 (P)	0.83	51	112								Medium Stiff Gray CLAY (CH)
	-70		0.75 (P)		42									
	-75		0.5 (P)	0.73	39	117								Soft to Medium Stiff Gray SILTY CLAY (CL)
	-80		0.75 (P)		22									
	-85		1.25 (P)	0.48	22	133								
	-90		0.75 (P)		25									
	-95		0.5 (P)	0.53	33	122								
	-100		1.5 (P)		28									Boring completed at 100 ft.
Ground Water Level Data			Boring Advancement Method				Notes							
Free water first encountered Water level after 10 mins.			4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.				Boring Abandonment Method Borehole grouted with cement/ bentonite upon completion							

ARD LOG01 01R 3976G.GPJ LOG01R.GDT 2/10/15

Strata Boundaries May Not Be Exact

Proposed Canal Crossing at Corrine  
Canal and 20 Arpent Canal  
St. Bernard Parish, LA

LOG OF SOIL BORING B-2

File: 3976G  
Date: 10/29/14  
Logged by: B. Kempton  
Driller: T. Roche  
Rig: Truck

Royal Engineering, Inc.  
4298 Elysian Field Ave., Ste. B  
New Orleans, LA



FIELD DATA			LABORATORY DATA							Soil Type	Location: Lat. 29° 56' 33.24" Long. 89° 56' 49.71"	
Ground Water Level	Depth (feet)	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:
	Samples					LL	PL	PI				
		2.25 (P)	1.75	27	121							Stiff Brown SILTY CLAY (CL) w/ organics
		1.25 (P)		38								Medium Stiff Gray CLAY (CH) w/ silt
	5	0.75 (P)	0.82	48	112	60	16	44				
		0.5 (P)	0.56	41	110							
	10	0.25 (P)	0.67	40	113							
		0.25 (P)		197								Very Soft Dark Gray ORGANIC CLAY (OH)
	15											
		0.25 (P)	0.20	174	79	191	26	165				
	20											
		0.25 (P)		43								Soft Gray CLAY (CH)
	25											
		0.5 (P)	0.32	64	106							
	30											
		0.25 (P)		38								
	35											
		0.25 (P)	0.41	56	107							
	40											
		0.25 (P)		46								
	45											
		0.5 (P)	0.47	60	105							
	50											

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Ground Water Level Data	Boring Advancement Method	Notes
Free water first encountered Water level after 10 mins.	4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.	
	<b>Boring Abandonment Method</b> Borehole grouted with cement/ bentonite upon completion	

Strata Boundaries May Not Be Exact





Proposed Canal Crossing at Corrine Canal and 20 Arpent Canal  
St. Bernard Parish, LA

**LOG OF SOIL BORING B-3**

File: 3976G  
Date: 11/8/14  
Logged by: T. Roche  
Driller: E.J. Laizer  
Rig: Truck



Royal Engineering, Inc.  
4298 Elysian Field Ave., Ste. B  
New Orleans, LA

FIELD DATA				LABORATORY DATA							Soil Type	Location: Lat. 29° 56' 24.78" Long. 89° 55' 47.4"		
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Wet Unit Weight (pcf)	Atterberg Limits			Percent Passing #200 Sieve		Organic Content	Surface Elevation:	Description
							LL	PL	PI					
													Very Soft to Soft Gray CLAY (CH)	
	-55		0.5 (P)		69									
	-60		1.25 (P)	0.37	27	122							Soft Gray SILTY CLAY (CL)	
	-65		1.5 (P)		29									
	-70		4.0 (P)	1.42	22	126							Stiff Gray SILTY CLAY (CL)	
	-75		3.75 (P)		24									
	-80		0.25 (P)	0.01	30	127							Very Soft Gray SILTY CLAY (CL)	
	-85		1.0 (P)	0.27	67	118							Soft Gray CLAY (CH)	
	-90		24 b/f 5-10-14		30								Stiff to Very Stiff Gray SILTY CLAY (CL)	
			17 b/f 6-7-10		28					75				
			19 b/f 7-7-12		28									
	-95													
	-100		14 b/f 7-8-6		30						80			
Ground Water Level Data				Boring Advancement Method							Boring completed at 100 ft			
Free water first encountered Water level after 10 mins.				4" Nom. Dia. Short Flight Auger: 0 to 10 ft. 4" Dia. Rotary Wash: 10 to 100 ft.							Notes			
				Boring Abandonment Method										
				Borehole grouted with cement/ bentonite upon completion										
													Strata Boundaries May Not Be Exact	

ARD LOG01 01R 3976G.GPJ LOG01R.GDT 2/10/15

# SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
<b>COARSE GRAINED SOILS</b>  MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	<b>GRAVEL AND GRAVELLY SOILS</b>  MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	<b>CLEAN GRAVELS</b> (LITTLE OR NO FINES)		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<b>GRAVELS WITH FINES</b> (APPRECIABLE AMOUNT OF FINES)		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<b>GRAVELS WITH FINES</b> (APPRECIABLE AMOUNT OF FINES)		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
		<b>GRAVELS WITH FINES</b> (APPRECIABLE AMOUNT OF FINES)		<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
	<b>SAND AND SANDY SOILS</b>  MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	<b>CLEAN SANDS</b> (LITTLE OR NO FINES)		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		<b>CLEAN SANDS</b> (LITTLE OR NO FINES)		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
		<b>SANDS WITH FINES</b> (APPRECIABLE AMOUNT OF FINES)		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES	
		<b>SANDS WITH FINES</b> (APPRECIABLE AMOUNT OF FINES)		<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES	
		<b>FINE GRAINED SOILS</b>  MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	<b>SILTS AND CLAYS</b>  LIQUID LIMIT LESS THAN 50		<b>ML</b>	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	<b>OL</b>			ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
<b>SILTS AND CLAYS</b>  LIQUID LIMIT GREATER THAN 50			<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
			<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY		
		<b>OH</b>	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
<b>HIGHLY ORGANIC SOILS</b>				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

USCS LEGEND 7/13/11

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

## DESCRIPTION OF TERMS AND SYMBOLS USED ON SOIL BORING LOG

FIELD DATA		LABORATORY DATA							Soil Type	
Ground Water Level	Depth (feet)	Samples	Field Test Results	Compressive Strength (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits			Other
							LL	PL	PI	
<b>DESCRIPTION</b>										
<div style="border: 1px solid black; padding: 5px;"> <p><b>Description</b></p> <p>Classifications are based on visual observations by field &amp; lab representatives as well as results of laboratory data (when available).</p> </div>										
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Laboratory Data</b></p> <div style="border: 1px solid black; padding: 2px;"> <p><b>Compressive Strength</b></p> <p>Value based on peak compressive strength. Determined by unconfined compression test unless otherwise noted.</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Dry Unit Weight</b></p> <p>As determined by method similar to ASTM D-2937.</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Water Content</b></p> <p>As determined by pertinent portions of ASTM D-2216.</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Atterberg Limits</b></p> <p>LL : Liquid Limit                      PL : Plastic Limit                      PI : Plasticity Index                      (= Liquid Limit - Plastic Limit)</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Other</b></p> <p>Results of other tests such as consolidation, permeability, grain size or notes associated with testing program.</p> </div> </div>										
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Soil Type</b></p> <p>Graphical representation of soil type. In accordance with USCS Symbols.</p> </div>										
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Ground Water Levels</b></p> <div style="border: 1px solid black; padding: 2px;"> <p><b>Long-Term Depth</b></p> <p>Depth to water after boring is completed (time noted).</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Short-Term Depth</b></p> <p>Depth to water after initial water encountered prior to proceeding with boring (time noted).</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Initially Encountered</b></p> <p>Depth where free water was initially encountered during augering.</p> </div> </div>										
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>Sampling/Field Data</b></p> <div style="border: 1px solid black; padding: 2px;"> <p><b>3.5 (P)</b></p> <p><b>Undisturbed</b></p> <p>3" dia. Tube sample</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Pocket Penetrometer (P)</b></p> <p>Penetration resistance (tons/sq. ft.).</p> <p><b>Torvane (T)</b></p> <p>Shearing resistance (tons/sq. ft.)</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>13 b/f (3-7-6)</b></p> <p><b>Split Spoon</b></p> <p>Std. penetration test</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Std. Penetration</b></p> <p>No. of blows per foot (blows per each six inch increments).</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>Auger</b></p> <p>Disturbed (auger) collected in accordance with ASTM D-1452.</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p><b>No Recovery</b></p> <p>Sampling attempted but no sample retrieved.</p> </div> </div>										
<b>Ground Water Level Data</b>			<b>Boring Advancement Method</b>				<b>Notes</b>			
			<b>Boring Abandonment Method</b>							

CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS  
FOR  
ST. BERNARD PARISH GOVERNMENT  
HMGP CANAL CROSSING PROJECT – BARTOLO DRIVE @ 20 ARPENT CANAL  
Department of Public Works Project No. PW 19329

JFK

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ADDENDUM NO. 3  
DATE ISSUED: July 1, 2016

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BID DATE: July 14, 2016 – 2:00 pm – Office of the Department of Public Works, located at 1125 East St. Bernard Highway, Chalmette, Louisiana 70043

This Addendum shall be part of the Contract Documents as provided in Part I of the Instructions to Bidders of the General Specifications.

The following items are issued to add to, modify and clarify the Contract Documents. These items shall have full force and effect as the Contract documents, and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by inserting its number and date on Page BF-1 of the Louisiana Uniform Public Work Bid Form section in the Bid Documents. Failure to do so will subject the bidder to disqualification.

Contractor acknowledges receipt of addendum No. 3 by executing the addendum in the space provided below and returning (via facsimile). Fax No. - (504) 283-9001

Received by: DEBBIE CLEMENT FLEMING CONSTRUCTION CO. Date: 07-05-2016  
NAME & COMPANY

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1. Change of bid date: BID DATE has been changed to July 14, 2016 – 2:00 pm – Office of the Department of Public Works, located at 1125 East St. Bernard Highway, Chalmette, Louisiana 70043.

END OF DOCUMENT

## TRANSACTION REPORT

JUL/05/2016/TUE 11:27 AM

## FAX (TX)

#	DATE	START T.	RECEIVER	COM. TIME	PAGE	TYPE/NOTE	FILE
001	JUL/05	11:26AM	2839001	0:00:42	1	MEMORY OK	ECM 1640

CONSTRUCTION SPECIFICATIONS  
AND  
CONTRACT DOCUMENTS  
FOR  
ST. BERNARD PARISH GOVERNMENT  
HMGP CANAL CROSSING PROJECT – BARTOLO DRIVE @ 20 ARPENT CANAL  
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END OF DOCUMENT

May 3, 2016

CERTIFICATION  
FLEMING CONSTRUCTION CO., L.L.C.

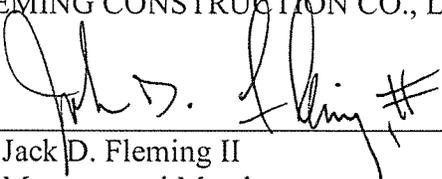
It is hereby certified that a special meeting of the Members of Fleming Construction Co., L.L.C. was held at its registered offices on May 3, 2016. All members were present. All members waived notice of the meeting in writing.

It was resolved:

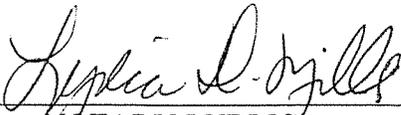
1. That Jack D. Fleming II, Manager and Member of Fleming Construction Co., L.L.C., be authorized to sign any and all contracts, agreements and bid bonds in the name of Fleming Construction Co., L.L.C.
2. That Jana Fleming Katz, Member of Fleming Construction Co., L.L.C., be authorized to sign any and all contracts, agreements and bid bonds in the name of Fleming Construction Co., LLC.
3. That A. Thomas Mora, Jr., Member of Fleming Construction Co., L.L.C., be authorized to sign any and all contracts, agreements and bid bonds in the name of Fleming Construction Co., L.L.C.
4. That Joe O. Malley, Member of Fleming Construction Co., L.L.C., be authorized to sign any and all contracts, agreements and bid bonds in the name of Fleming Construction Co., L.L.C.

Being no further business, the meeting was adjourned.

FLEMING CONSTRUCTION CO., L.L.C.

By:   
\_\_\_\_\_  
Jack D. Fleming II  
Manager and Member

SWORN TO AND SUBSCRIBED BEFORE ME,  
THIS 3rd DAY OF May, 2016

  
\_\_\_\_\_  
NOTARY PUBLIC

**LYDIA D. MILLER**  
Notary ID #129546  
Notary Public  
Jefferson Parish, LA  
My Commission is for Life

Jack D. Fleming II, Manager and Member  
422 Atherton Drive  
Metairie, LA 70005

Jana Fleming Katz, Member  
67 Colonial Club Dr.  
Harahan, LA 70123

A. Thomas Mora, Jr., Member  
141 Rex Drive  
River Ridge, LA 70123

Joe O. Malley, Member  
467 Sam Smith Rd.  
Poplarville, MS 39470



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
8/3/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> BancorpSouth Insurance Services, Inc. 4041 Essen Lane, Suite 400 Baton Rouge LA 70809	<b>CONTACT NAME:</b> PHONE (A/C No, Ext): 225-336-3200      FAX (A/C No): 225-336-4536 E-MAIL ADDRESS:	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> FLEMCON-01 Fleming Construction Co., LLC 23 East Airline Drive Kenner LA 70063-6853	<b>INSURER A:</b> Zurich American Insurance Co      NAIC # 16535	
	<b>INSURER B:</b> AGCS Marine Insurance Company      22837	
	<b>INSURER C:</b> American Guarantee & Liability      26247	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
<b>INSURER F:</b>		

**COVERAGES**      **CERTIFICATE NUMBER:** 2046006527      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

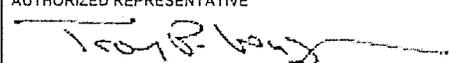
INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		GLO018134500	8/1/2015	8/1/2016	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 Deductible \$100,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		BAP018134400	8/1/2015	8/1/2016	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$		AUC018138100	8/1/2015	8/1/2016	EACH OCCURRENCE \$10,000,000 AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> Y    N/A	WCO18134600	8/1/2015	8/1/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
B	Contractor's Equipment		MZI93052788	8/1/2015	8/1/2016	Leased/Rented/Borrow \$325,000 Per Item

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Subject to policy terms, conditions and exclusions; the certificate holder shall be considered a Blanket Additional Insured on a Primary and Non-Contributory basis on General Liability, Automobile Liability and Excess policies when required by written contract or agreement with a Blanket Waiver of Subrogation granted in their favor General Liability, Automobile Liability, Worker's Compensation, and Excess policies when required by written contract, but only to the extent of the Named Insured's obligation to indemnify, defend and/or hold harmless the certificate holder as required by written contract.

See Attached...

**CERTIFICATE HOLDER**      **CANCELLATION**

MASTER CERTIFICATE	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 



**ADDITIONAL REMARKS SCHEDULE**

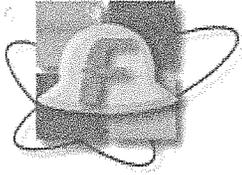
AGENCY BancorpSouth Insurance Services, Inc.		NAMED INSURED Fleming Construction Co., LLC 23 East Airline Drive Kenner LA 70063-6853	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

**ADDITIONAL REMARKS**

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,  
 FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

The Certificate Holder shall be considered Blanket Alternate Employer for Worker's Compensation when required by written contract or agreement.

30 Day Notice of Cancellation: General Liability, Automobile Liability, Worker's Compensation, and Excess Policies when required by written contract or agreement.



# **FLEMING CONSTRUCTION CO., L.L.C.**

PAVING & PIPE CONTRACTORS SINCE 1953 LOUISIANA LICENSE NO. 935

Fleming Construction Co., L.L.C. has and is presently performing numerous projects throughout the Greater New Orleans area.

The following is a list of the same:

Sewerage & Water Board of New Orleans - Contract #8142

Sewerage & Water Board of New Orleans - Contract #2106

Jefferson Parish - Two Year Contract for Water Line Point Repairs

Jefferson Parish - Two Year Contract for Replacement or Restoration of Existing Sewer Mains (Gravity or Force) by Point Repair

Jefferson Parish - Two Year Contract for the Restoration of Sidewalks and Driveway Aprons Related to Water and Sewer System Repairs

Jefferson Parish - Maplewood Drive/Paillet Street Drainage Improvements

Jefferson Parish - Alexis Drive Lift Station Improvements

Jefferson Parish - Emergency Pump Out (EPO) Installation Initiative

Jefferson Parish - Improvements to SLS M-12-1A (Patriot & Ave. B)

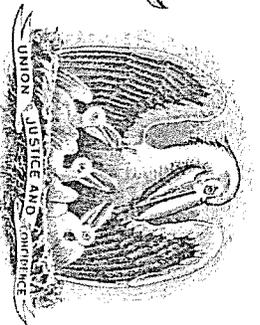
Jefferson Parish - Improvements to N. Lester Ave. at Canal No. 5

Jefferson Parish - South Kenner Road Improvements (Chenevert Rd. to River Rd.)

City of New Orleans - Ninth Ward Quad 1 Pavement Only

U. S. Army Corps of Engineers - SELA14 Industry Canal Drainage Improvements

# State of Louisiana



## State Licensing Board for Contractors

This is to Certify that:

FLEMING CONSTRUCTION COMPANY, L.L.C.  
23 East Airline Drive  
Kenner, LA 70062

is duly licensed and entitled to practice the following classifications

BUILDING CONSTRUCTION; HEAVY CONSTRUCTION; HIGHWAY, STREET AND BRIDGE  
CONSTRUCTION; MUNICIPAL AND PUBLIC WORKS CONSTRUCTION



Expiration Date: October 25, 2018

License No: 935

Witness our hand and seal of the Board dated,  
Baton Rouge, LA 26th day of October 2015

*W. B. MacP...*  
Director

*See [Signature]*  
Chairman

This License Is Not Transferrable

*[Signature]*  
Treasurer