



ADDENDUM No. 1

**Via Email
And U.S. Mail**

DATE: April 21, 2016

PROJECT: Palmisano Boulevard Drainage Repairs and Improvements
GEC Project Number: KL52.4890410.109

ISSUED TO: All Plan Holders

This Addendum is issued prior to receipt of Proposals to provide for modifications and clarifications in the plans and specifications. Acknowledgment of this Addendum shall be made and the cost of work included in the construction proposal.

BID DATE:

The bid date has been changed. Bids will be received until 2:00 p.m. Tuesday, May 10, 2016.

SPECIFICATIONS:

Table of Contents

Replace Table of Contents with attached Table of Contents, Revised 04/18/2016

Instructions to Bidders

Add the following Section 29:

"29. High River Conditions – Portions of the work for this project will require excavation within an area delineated by a line 1,500 linear feet from and parallel to the protected side toe of the Mississippi River levee. During periods when the river elevation is higher than elevation 11.00' at the Carrollton Gauge as maintained by the U.S. Army Corps of Engineers, no excavation work or pile driving will be permitted within this 1,500 linear feet limit from the protected side toe of the Mississippi River levee until the river level has decreased to less than 11.00'. Any work stoppage under these conditions will be considered incidental to the project and no additional payment will be made for any delay due to the river level exceeding the 11.00' elevation as described, irrespective of the length of time during which excavation activity is curtailed."

Section 00400 – Bid Form

Replace Bid Form with attached Bid Form, Revised 4/18/2016

Agreement

Article V. Paragraph A – Change the first sentence to read:

"All work designed on the plans and in the specifications shall be executed and completed in all details (final acceptance) within four hundred (400) consecutive calendar days from the date specified in the "Order to Proceed" as the starting date for the contract time."

Article VI., Paragraph B – Change the liquidated damages amount to one thousand, two hundred dollars (\$1,200.00) for each and every calendar day.

Section NS-804-00001 – Vibration Monitoring

Replace Section NS-804-00001 – Vibration Monitoring with attached Section NS-804-00001 – Vibration Monitoring Revised 4/18/2016

Add New Technical Specification Sections (Attached)

- Section NS-999-00001 – Drainage Pump Station, dated 4/18/2016
- Construction Photographs, dated 4/18/2016
- Handling and Disposal of Stormwater and Accumulated Water, dated 4/18/2016
- Permanent Sheet Pile Dams Below Box Culverts, dated 4/18/2016
- Record Plans, dated 4/18/2016
- Materials Testing Requirements, dated 4/18/2016

PLANS:

Sheet GN 01

Add the following note:

"29. High River Conditions – Portions of the work for this project will require excavation within an area delineated by a line 1,500 linear feet from and parallel to the protected side toe of the Mississippi River levee. During periods when the river elevation is higher than elevation 11.00' at the Carrollton Gauge as maintained by the U.S. Army Corps of Engineers, no excavation work or pile driving will be permitted within this 1,500 linear feet limit from the protected side toe of the Mississippi River levee until the river level has decreased to less than 11.00'. Any work stoppage under these conditions will be considered incidental to the project and no additional payment will be made for any delay due to the river level exceeding the 11.00' elevation as described, irrespective of the length of time during which excavation activity is curtailed."

PRE-BID CONFERENCE

A pre-bid conference was held on April 19, 2016. Minutes of the pre-bid conference are attached.

END OF ADDENDUM

By: 
Michael M. Hattaway, P.E.

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LOUISIANA UNIFORM PUBLIC WORK BID FORM

To: ST. BERNARD PARISH GOVERNMENT
1125 E. St. Bernard Highway
Chalmette, LA

BID FOR: PALMISANO BOULEVARD DRAINAGE REPAIRS
AND IMPROVEMENTS
Project No. HMPG 1603-087-0011

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: G.E.C., Inc. and dated: March, 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) _____ .

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:

_____ Dollars (\$ _____)

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 (\$ _____)

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

N/A Dollars (\$ _____)

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

N/A Dollars (\$ _____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

* 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
1125 E. St. Bernard Highway
Chalmette, LA

BID FOR: PALMISANO BOULEVARD DRAINAGE REPAIRS
AND IMPROVEMENTS
Project No. HMPG 1603-087-0011

(Owner to provide name of project and other identifying information)

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ CLEARING AND GRUBBING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
201-01	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF STRUCTURES & OBSTRUCTIONS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
2202-01-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF ASPHALT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-02020	599.1	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF CONCRETE HEADWALL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-06040	12	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF CATCH BASIN			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-06060	10	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF CONCRETE WALK AND DRIVES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-06100	509	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF CONCRETE CURB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-06140	40	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF FENCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-12000	344	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF STORM DRAIN MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-26000	2	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF STORM DRAIN <48" DIAMETER			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-32140	711	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF STORM DRAIN >48" DIAMETER			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-32160	435	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF PCCP			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-02-32500	58	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ SAW CUTTING OF PAVEMENTS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
202-09-00001	9,776	IN-LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ DRAINAGE EXCAVATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
203-02-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ TEMPORARY EROSION CONTROL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
204-10-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ CLASS II BASE COURSE (STONE)(6" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
302-02-02080	967.90	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ GRANULAR SUBBASE LAYER (12" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
305-01-04000	1,010.90	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ PORTLAND CEMENT CONCRETE PAVEMENT (9" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
601-01-00300	381.80	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ FULL DEPTH PATCHING OF JOINTED CONCRETE PAVEMENT (LESS THAN 16 SQ. YDS.)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
602-05-01160	42	S.Y.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ FULL DEPTH PATCHING OF JOINTED CONCRETE PAVEMENT (9" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
602-05-02160	1,261.70	S.Y.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE (OUT FALL) (15" CMP)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-03-02000	38	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE (OUT FALL) (18" CMP)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-03-02020	108	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ STORM DRAIN PIPE (OUT FALL) (36" CMP)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-03-02060	46	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ SIDE DRAIN PIPE (48")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-05-01140	205	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ SIDE DRAIN PIPE (58"X36")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-05-01140	404	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ YARD DRAIN PIPE (6")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-07-00200	37	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE PIPE (EXTENSION) (12")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-10-01000	29	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE PIPE (EXTENSION) (15")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-10-01020	22	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE PIPE (EXTENSION) (18")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-10-01040	52	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE PIPE (EXTENSION) (24")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-10-01060	20	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE PIPE (EXTENSION) (30")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-10-01080	28	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLEANING EXISTING PIPES (12"-18")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-14-00100	1010	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLEANING EXISTING PIPES (>18")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-14-00120	1010	L.F.		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLEAN CATCH BASINS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-14-00130	28	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLEAN DRAIN MANHOLES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
701-14-00140	5	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ MANHOLE (R-CB-11)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-02-00200	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ JUNCTION BOX			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-01-00100	15	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CATCH BASIN (CB-01)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-03-00100	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CATCH BASIN (CB-02)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-03-00200	3	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CATCH BASIN (CB-04)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-03-00300	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CATCH BASIN (CB-07)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-03-00600	3	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ YARD DRAIN CATCH BASINS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-09-00100	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ DROP INLET (CHIMNEY)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-09-00200	18	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REBUILT FENCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
705-09-00100	208	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONFLICT BOX			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
702-09-00300	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE WALK (4" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
706-01-00100	2,306	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE WALK (6" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
706-01-00300	85.4	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE DRIVE (8" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
706-02-00200	536.90	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ HANDICAPPED CURB RAMPS (4" THICK)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
706-04-00100	40	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE CURB (BARRIER)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
707-01-00200	278.50	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE CURB (MOUNTABLE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
707-01-00300	168	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ TEMPORARY SIGNS AND BARRICADES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
713-01-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ TEMPORARY PAVEMENT MARKINGS (SOLID LINE) (4" WIDTH) (TYPE 1 REMOVABLE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
713-04-01020	0.15	MILE		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ TEMPORARY PRECAST CONCRETE BARRIER (CONTRACTOR FURNISHED)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
713-07-00100	4	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ TEMPORARY PRECAST CONCRETE BARRIER MOVEMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
713-10-00100	4	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ SEEDING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
717-01-00100	591	LB		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ FERTILIZER			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
718-01-00100	5	LB		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ PLANT (PAMPAS GRASS) (5 GALLON)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
719-01-06080	57	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ PLANT (OLEANDER) (10 GALLON)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
719-01-06120	38	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ MOBILIZATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
727-01-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REFLECTORIZED RAISED PAVEMENT MARKERS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
731-02-00100	10	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ PLASTIC PAVEMENT STRIPING (4" WIDTH) (THERMOPLASTIC 90 MIL)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
732-01-01000	792	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ PLASTIC PAVEMENT STRIPING (12" WIDTH) (THERMOPLASTIC 90 MIL)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
732-01-01060	38	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ TEMPORARY PAVEMENT STRIPING (BROKEN LINE) (4" WIDTH) (PREFORMED TAPE) (RETROREFLECTIVITY LEVEL 1)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
732-03-03000	0.246	MILE		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REMOVAL OF EXISTING MARKINGS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
732-05-00100	0.246	MILE		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ WATER MAIN (8" DUCTILE IRON) RELOCATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-01-02040	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ WATER MAIN (20" DUCTILE IRON) RELOCATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-01-02120	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ WATER MAIN (8" DUCTILE IRON) ADJUSTMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
741-01-02200	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ PRECAST CONCRETE PILES (16")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
804-01-00300	1	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ LOADING PERMANENT PILES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
804-12-00100	1	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ DYNAMIC MONITORING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
804-17-00100	7	EA		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLASS A (M) CONCRETE (BENTS)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
805-02-00400	80.30	CY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CLASS AA (M) CONCRETE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
805-04-00100	276.65	CY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE BOX CULVERT (10'X6')			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
805-12-22080	1,933	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ REINFORCED CONCRETE BOX CULVERT (8'X4')			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
805-12-33080	2,398	LF	9	27A

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ DEFORMED REINFORCING STEEL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
806-01-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ STRUCTURAL METAL WORK			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
807-08-00100	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE RAILING (TRANSITION BARRIER)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
810-01-00100	80	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ STEEL AND CONCRETE RAILING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
810-04-00100	132	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ CONCRETE APPROACH SLABS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
813-01-00100	236.28	SY		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ WIDENING, CLEANING, AND EXCAVATING EXISTING DITCHES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
NS-200-00020	1,391	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ HORIZONTAL DIRECTIONAL DRILLING (HDPE) (14")			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
NS-600-0010	160	LF		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ VIBRATION MONITORING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
NS-804-00001	1	LS		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# _ DRAINAGE PUMP STATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
NS-999-00001	1	LS		

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

1. Definitions:

For the purposes of the Louisiana Uniform Public Works Bid Form the following terms shall have the stated meanings.

“Alternate” A specified item of construction that is set apart by a separate sum. An alternate may or may not be incorporated into the contract sum at the discretion of the owner at the time of contract award.

“Base Bid” The amount of money stated in the bid as the sum for which the bidder offers to perform the work described in the bidding documents, prior to the adjustments for alternate bids but including any unit prices.

“Bid” A complete signed proposal to perform work or a designated portion for a stipulated sum. A bid is submitted in accordance with the bidding documents, is evaluated on price alone and is not subject to qualification.

“Bidder:” An entity or person who submits a bid for a prime contract with the owner. A bidder is not a contractor on a specific project until a contract is signed between the bidder and the owner.

“Bid Form” A form provided to the bidder on which to submit his bid.

“Bid Security” A bid bond or deposit submitted with a bid to guarantee to the owner that the bidder, if awarded the contract, will execute the contract within a specified period of time and will furnish any bonds or other requirements of the bidding documents.

“Bidding Documents:” Documents usually including advertisement, bid notice or invitation to bidders, instructions to bidders, bid form, form of contract, forms of bonds, conditions of contract, drawings, specifications addenda, special provisions, and all other written instruments prepared by or on behalf of a public entity for use by prospective bidders on a public contract.

“Owner” The public entity issuing the bid.

“Public entity” means and includes the state of Louisiana, or any agency, board, commission, department, or public corporation of the state, created by the constitution or statute or pursuant thereto, or any political subdivision of the state, including but not limited to any political subdivision as defined in Article VI Section 44 of the Constitution of Louisiana, and any public housing authority, public school board, or any public officer whether or not an officer of a public corporation or political subdivision. “Public entity” shall not include a public body or officer where the particular transaction of the public body or officer is governed by the provisions of the model procurement code.

“Public work” Means the erection, construction, alteration, improvement, or repair of any public facility or immovable property owned, used, or leased by a public entity.

“Unit Price” The amount stated in a project bid representing the price per unit of materials and/or services.

2. Unit Price Form:

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.

3. Alternates:

Provide space for, give descriptive title to and arrange for alternates in the order of priority. A maximum of (3) three alternates are allowed by State law.

4. Bid Security:

If bid security is provided in a form other than a bid bond, the bid bond form may be eliminated.

5. The undersigned Bidder proposes and agrees, if this Bid is accepted to enter into an Agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid Form and the Agreement, and in accordance with the other terms and conditions of the Contract Documents.

6. Bidder accepts all of the terms and conditions of the Bidding Documents, including without limitation those dealing with the disposition of Bid Security.

7. In submitting this Bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined copies of all the Bidding Documents, the Advertisement for Bids, the Instructions to Bidders.

- b. Bidder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions, Laws, and Regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.
 - c. Bidder has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions which are identified in the Information to Bidders and as provided in the General Conditions.
 - d. Bidder has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, and studies (in addition to or to supplement those referred to in (c) (above) which pertain to the subsurface or physical conditions at the site or which otherwise may affect the cost, progress, performance or furnishing of the Work at the Contract Price, within the Contract Time; and Bidders assumes responsibility for obtaining at no additional cost to Owner such additional examinations, investigations, explorations, tests, reports, or similar information or data as may be required by Bidder for such purposes.
 - e. Bidder has given Engineer written notice of all conflicts errors, or discrepancies that it has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
 - f. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over Owner.
8. The Bidder agrees that the Work shall be substantially completed within the prescribed number of calendar days.
9. The following documents are attached to and made a condition of this Bid:
- (a) Bid Bond or cashiers check or certified check
 - (b) Power of Attorney (For Surety Bond only)
 - (c) Corporate Resolution (if by a corporation or joint venture of corporations).
10. Communications with the Bidder concerning this Bid shall be addressed to:

Section NS-804-00001

Vibration Monitoring

This work consists of monitoring the ground or structure vibration caused by pile driving operations, sheet pile construction, heavy construction equipment operations, structure demolition, and other known sources of vibrations during construction activities.

Locations and structures to be monitored shall be in accordance with the plan details, the specifications, or as directed by the Project Engineer. It shall include all labor, materials, and equipment necessary to complete the work.

MATERIALS:

Monitoring equipment shall directly measure particle velocity (rate of ground movement) in three mutually perpendicular directions (longitudinal, transverse and vertical) and be capable of recording the vector sum of these three measurements to an accuracy of 0.01 in/sec (2.5 mm/sec). In addition, the monitoring equipment shall be capable of producing a continuous written record of all measurements taken and the location of each station shall be recorded.

CONSTRUCTION REQUIREMENTS:

The Contractor shall obtain and pay for the services of a testing lab, acceptable to the Project Engineer, to conduct seismic monitoring of vibrations during pile driving and other heavy equipment operations in areas that are not normally subjected to such operations. The lab shall employ the services of a vibration specialist engineer who in conjunction with the lab shall render complete reports and interpretations of the data obtained including the possible effects of the measured vibrations on adjacent and surrounding structures. The contractor is required to prepare a vibration monitoring plan and submit it to the Project Engineer for approval prior to beginning construction activities. Baseline vibration data will be acquired by the contractor for a period of at least 24 hours prior to beginning construction activities.

Ground movement shall be measured by means of a portable seismograph and probes shall be located at various locations as directed by the vibration specialist engineer.

Peak particle velocity levels shall be as follows or as called for in the plan:

Structure and Condition	Limiting Particle Velocity (in./sec)
Historic structures, sensitive features, sensitive instruments, and sensitive utilities	0.1
Residential structures	0.5
Industrial structures	2.0
Bridges	2.0

If at any time a reading exceeding the allowable limit is recorded, the vibration specialist engineer or the laboratory technician shall record the location and activity causing the reading, shall notify the Contractor immediately, and the affecting construction activity shall be suspended. The Contractor shall propose to the Project Engineer corrective measures for the affecting construction activity to ensure that vibration-monitoring limits will not be exceeded. Upon acceptance by the Project Engineer, the modified construction activity may resume. Repair of any damage caused by vibrations above allowable limits as specified herein, shall be the full responsibility of the Contractor.

PILE DRIVING:

During pile driving activities, if a reading exceeding the allowable limits is recorded, the contractor will be required to adjust the pile driving operation to reduce the vibration levels into the acceptable limits, prior to restarting work. All cost for adjusting the pile driving operation will be included in the price bid for the piling. The Project Engineer will review the contractor's proposed action plan to correct the pile driving activities and bring them back into conformance with the allowable limits. Action plan acceptance shall be obtained prior to resuming pile driving. In addition to daily reports, a complete report of the vibration study, including seismograph readings and locations shall be furnished to the Project Engineer after the conclusion of the driving of all piles.

In the event that the contractor is not able to alter his pile driving operations enough to bring the vibrations into conformance with the specifications, the Department may elect to redesign a portion of the structure. No compensation will be made to the contractor for delays due to the redesign and payment will be adjusted based on revised quantities.

Upon completion of construction, a final report will be furnished to the Project Engineer, including a monitoring location plan, all recorded data and a narrative of construction activities which is referenced to the recorded data.

MEASUREMENT:

Vibration monitoring will not be measured for payment

PAYMENT:

Payment for vibration monitoring will be made at the contract lump sum price which includes all materials, tools, equipment, labor, and other incidentals necessary to perform the service as described above and as indicated on the plans.

Payment will be made under:

Item No.	Pay Item	Pay Unit
NS-804-00001	Vibration Monitoring	Lump Sum

SECTION NS-999-00001

Drainage Pump Station

This section describes the proposed drainage pumping station. The existing pumping station is to be removed prior to construction of the improvements.

GENERAL:

All work described in this section shall conform to the requirements of appropriate sections of the 2006 edition of the Louisiana DOTD Standard Specifications for Roads and Bridges, except as noted in this section or shown on the drawings.

The Contractor shall provide all labor, materials, and equipment and install a complete and functioning drainage pumping station, including pumps, motors, electrical work, discharge pipes, concrete structures, excavation, fence, and other related work.

The existing pump station controls shall be installed on the new pump station. The controls shall be modified as necessary to operate the new 25 horsepower pumps. New motor starters and circuit breakers shall be provided and installed, as necessary.

Pumps and motors shall be installed in strict conformance with the equipment manufacturer's recommendations and instructions.

RELATED WORK SPECIFIED ELSEWHERE:

Section 805 – Structural Concrete

Section 705 – Chainlink Fence

NS 600-00220 – HDPE Pipes

PUMPS:

Pumping station shall have two 14" vertical axial flow propeller type pumps with electric motors. Pumps shall be cascade pump company model 14AP, or approved equal.

BOWL ASSEMBLY

The suction and discharge bowls shall be made of cast iron with a minimum tensile strength of 30,000 PSI. The suction bowl shall have a flared inlet with guide vanes to reduce inlet velocity, vortex and turbulence. The bowl shaft shall be made from type 416 stainless steel and polished at each bearing journal. The size of the shaft shall be sufficient to safely transmit the required brake horsepower to the propeller to produce the specified performance. Bronze bushings shall be provided immediately above and below the propeller. The propeller shall be made of cast bronze and secured to the shaft by a key and thrust collars. The propeller shall be statically balanced such that undue vibration or other unsatisfactory characteristics will not result when the pump is in operation.

PUMP DISCHARGE ASSEMBLY

The pump column and discharge elbow shall be of fabricated steel conforming to ASTM A36 with a minimum wall thickness ¼ inch. The column and elbow joints shall be flanged with register fits. The maximum length of any section shall be 10 feet.

The discharge elbow shall be the mitered type with discharge orientation as shown on the plans. The discharge elbow shall be plain end type suitable for use with a flexible pipe coupling. It shall incorporate 2 thrust lugs as shown on the plans.

The lineshaft shall be made from carbon steel conforming to ASTM C1045 PSQ and supported by bearings. The lineshaft bearings shall be threaded externally to act as a coupling for extra heavy steel enclosing tubes. The lineshaft bearings shall be bronze of the removable type and provided with a means of passing oil lubricant from one bearing to the next. A means shall be provided for tension loading of the enclosing tube.

The discharge bowl bushings and lineshaft bearings shall be lubricated by a drip feed oil system consisting of a one-gallon oil reservoir, 230 volt solenoid valve and a needle valve dripper. The suction bowl bushing shall be grease packed.

A headshaft with adjusting nut shall be provided for the hollow shaft motor to provide a means to adjust the propeller to its proper running clearance.

The design of the pump shall be such that it will not be damaged by reverse rotation caused by back flow on the pump.

SHOP PAINTING:

The pump/motor unit shall receive a factory applied coal tar epoxy (16 mils) paint finish.

DATA PLATES:

A stainless steel data plate shall be mounted on each pump unit. Data plates shall contain the manufacturer's name, pump size and type, serial number, speed, and other pertinent data.

TOOLS:

A set of any required special tools shall be furnished.

MOTORS:

The motors shall be Class F insulated, vertical, squirrel-cage induction, WP-1, continuous duty, premium efficiency, hollow shaft, with 1.15 service factor. The motors shall conform to latest NEMA Standards and shall be sized adequately to operate the pumps over the specified range of points on head capacity curve without exceeding nameplate rating for current and power of the horsepower ratings previously specified under pump characteristics.

Motors for the pumps shall be 25 horsepower (minimum) 230 volts, 3 phase, 60 Hertz, and shall be suitable for reduced voltage starting.

Motor shall be furnished with a 115 volt space heater.

DISCHARGE PIPING:

Welded steel discharge pipes and fittings shall meet AWWA C200 specifications, latest revisions, and shall have 0.375" minimum wall thickness. Piping shall be lined and coated with coal-tar epoxy, 16 MDFT, meeting AWWA C210, latest revision, specifications. Pipe connections at pumps shall be coordinated with pump shop drawings. All joints shall be welded, unless noted otherwise.

EXCAVATION:

Contractor shall provide steel sheeting, shoring, bracing, and barricades as necessary for the safety of the workmen and general public and for protection of adjacent structures. Excess excavated material shall be hauled off and disposed of by contractor.

ELECTRICAL WORK:

All electrical work shall be in accordance with the National Electrical Code, latest edition. Provide a system of grounding and bonding in accordance with the N.E.C. Ground all exposed non-current carrying metallic parts of electrical equipment and all raceway systems.

Conduit shall be rigid aluminum conduit with threaded couplings, sized in accordance with the N.E.C. Fittings shall be cast aluminum. Provide liquid-tight flexible metallic conduit for final connections to motors. Conductors shall be copper wire, type XHHW-2

Provide and install larger motor starters and circuit breakers as necessary to operate new 25 horsepower pump motors. Any new enclosures shall be NEMA 3R, stainless steel.

MEASUREMENT:

No measurement will be made for payment.

PAYMENT:

Payment shall be made in accordance with Louisiana DOTD specifications, except as modified herein. Payment for drainage pumping station shall include all labor, materials, equipment, installation, excavation, backfilling, fencing, electrical work, structural concrete, etcetera, for a completed and functioning facility. There shall be no additional payment for any items of work related to the pumping station, except as specifically noted in these specifications.

Payment shall be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-999-00001	Drainage Pump Station	LS

CONSTRUCTION PHOTOGRAPHS

GENERAL:

Contractor shall be responsible for obtaining, producing, and distributing construction photographs as described herein during the life of the construction contract. Contractor shall retain the services of a competent commercial photographer experienced in construction photography.

PRECONSTRUCTION REQUIREMENTS:

Before commencement of any work, photographs shall be taken at intervals of approximately fifty (50') feet on each side of the route of proposed construction of ditches, subsurface drainage, box culverts, or any other similar work. Photographs shall be obtained at all corners of each intersection or more frequently if necessary to accurately record the existing conditions. In addition, photographs shall be obtained of each building within one hundred (100) feet of any construction activity. Photographs shall be obtained no further apart than fifty (50) feet.

Two (2) sets of photographs shall be promptly submitted to St. Bernard Parish and to the Engineer prior to commencing construction.

PHOTOGRAPHS DURING CONSTRUCTION:

Contractor shall submit photographs of work completed with each request for payment. The photographs shall be of sufficient views to verify the work being claimed for payment. A minimum of twenty (20) views of the work being claimed during a period shall be submitted with each payment request.

In addition to the foregoing requirement, the contractor shall submit a minimum of five (5) photographs demonstrating environmental compliance procedures and conditions on the construction site. These photographs shall be shown separately from the construction photographs.

Two (2) sets of photographs shall be promptly submitted to St. Bernard Parish and to the Engineer with each payment request.

POSTCONSTRUCTION REQUIREMENTS:

At the completion of construction of the project, photographs shall be obtained of the same views as those in the preconstruction photographs. These photographs shall be submitted with the final (not retainage) payment request on the project.

Two (2) sets of photographs shall be promptly submitted to St. Bernard Parish and to the Engineer.

PHOTOGRAPHIC QUALITY:

All photographs shall have a minimum resolution of 1600 X 1200 X 24 bit true color. Both printed and digital copies of all photographs obtained on or off the construction site shall be submitted to St. Bernard Parish and to the Engineer.

Printed photographs shall be a minimum 4" X 6" color print. All prints shall be placed in 3-ring binders with transparent sleeve holders for easy viewing. A label shall be affixed to the front of the binder identifying the contests (preconstruction, postconstruction, or payment request number) and the date submitted.

Digital photographs shall be placed on a separate CD or DVD, cumulative of all photographs obtained to date. The digital photographs shall be in JPEG format. All photographs shall be identified by date obtained, specific item of work being photographed, location of photograph, and the view of the photograph.

MEASUREMENT:

There shall be no measurement for payment of Construction Photographs.

PAYMENT:

There shall be no direct payment for Construction Photographs. The Contractor shall include all cost of obtaining, printing, binding, transporting printed and electronic copies of Construction Photographs in appropriate bid items on the Construction Proposal.

HANDLING AND DISPOSAL OF STORMWATER AND ACCUMULATED WATER

The Contractor shall pump, or otherwise remove, any standing water or accumulated water encountered in the excavations on this project. The Contractor shall perform pumping or channeling necessary to keep the excavations free of water during the life of the project. Excavations shall also be kept free of water for the purpose of Inspection, at such times as the St. Bernard Parish or the Engineer may direct.

Suitable pumping, flumes, or diversion channels shall be built to permit the free passage of all stormwater drainage at all times without Interference. The Contractor shall also provide suitable pumping, flumes, or diversion channels so that no water originating from his work or dammed up by his work shall accumulate. No stormwater or accumulated water shall be discharged onto the premises or structures of another party.

The Contractor shall prepare a formal sequence of construction plan for installing concrete box culverts required on this project. The plan shall include the procedures to be used by the Contractor for removal of temporary sheeting, temporary dams, or other temporary facilities during rainfall or other weather events as necessary to facilitate stormwater movement in canals or partially completed drainage structures. This plan shall be submitted to St. Bernard parish prior to beginning construction of the new culverts.

Nothing in this section is to be construed as preventing the reasonable and proper use by the Contractor of any existing ditch, canal or gutter which is designed to handle such runoff. There shall be no direct payment for handling stormwater runoff or accumulated water.

PERMENANT SHEET PILE DAMS BELOW BOX CULVERTS

The Contractor shall install timber sheet pile dams below all concrete box culverts. The dams shall consist of tongue and groove timber sheet piling. The sheet piling shall be five (5) feet in length. Each vertical section of sheet pile shall be fabricated from three (3) 1" x 12" pine boards nailed together. The sheets shall be driven across the total width of the trench before the concrete box culvert is placed or before the concrete bottom is cast. The sheet piling ends shall be neatly sawed. The top edge of the sheet piling shall be flush with the surface of the box culvert bedding. If the box culverts are constructed of cast-in-place concrete, the sheet piling shall not extend more than one (1) inch into the bottom. The sheet pile dams shall be constructed at each end of box culvert runs and at maximum intervals of five hundred (500) feet on center. The cost of all work associated with this requirement shall be included in the cost of the concrete box culverts.

RECORD PLANS

This work consists of furnishing RECORD PLANS of the completed construction.

GENERAL:

Record plans shall conform to the requirements of PART II, SECTION 3: RECORD DRAWINGS of the St. Bernard Parish General Specifications and to the requirements contained in this section.

The contractor shall maintain on the jobsite a minimum of one (1) complete set of prints of all Drawings which form a part of the project including all addenda and plan changes during the project. Continuously during the performance of each portion of the required work, mark and otherwise indicate all deviations from the original design shown on the Drawings either by additional sketches or marked in red thereon. Upon completion of the job, contractor shall transfer these marking to an official set of Record Drawings. One electronic copy and one printed copy of the official set of Record Drawings shall be delivered to St. Bernard Parish. One electronic copy and one printed copy of the official set of Record Drawings shall be delivered and the engineer. The contractor shall also provide St. Bernard Parish and the engineer with a printed copy of the marked set that was maintained at the construction site.

In addition to the foregoing requirements, the contractor shall provide the following information on the Record Plans:

- 1) Storm Drainage System
 - (a) Location of all piping referenced to property lines, rights-of-way, and roadways.
 - (b) Size of pipe, slope of pipe, type of material used for each pipe.
 - (c) Location of all drainage structures.
 - (d) Invert elevation of all structures (manholes, drop inlets, catch basins, conflict boxes, etc.)
- 2) Water System
 - (a) Location of all piping referenced to property lines, rights-of-way, and roadways.
 - (b) Size of pipe, depth of pipe below finished grade, and type of material used for each pipe.
 - (c) Location, size, and type of all valves.
 - (d) Location of all fire hydrants.
 - (e) Location of all valve boxes manholes, fittings, air relief valves, and meters.
 - (f) Date of approval of water test by the Louisiana Dept. of Health and Hospitals.
- 3) Force Mains

- (a) Location of all piping referenced to property lines, rights-of-way, and roadways.
 - (b) Size of force main, depth of pipe below finished grade, and type of material.
 - (g) Location and type of valves.
 - (c) Location and size of any air relief valves. Include manufacturers name and model number.
- 4) Pump Station
- (a) Location of pump station with a site plan referenced to property lines, rights-of-way, and roadways.
 - (b) Pump manufacturer's name, type/model number, flow rating, HP
 - (c) Motors manufacturer's name, type/model number, HP
 - (d) Suction basin size, depth, invert elevation based on project benchmark datum.
 - (e) Suction basin invert elevation and discharge pipe invert elevation based on the project bench mark datum and prepared by and sealed by a Louisiana license Professional Land Surveyor.
- 5) Box Culverts
- (a) Location of box culverts referenced to property lines, rights-of-way, and roadways.
 - (b)** Size of box culvert, invert elevation at 100 ft. intervals, depth of cover below finished grade or pavement at 100 ft. intervals, and type of material used for culvert.

MEASUREMENT:

There shall be no measurement for payment of RECORD PLANS.

PAYMENT:

Release of final retainage shall be contingent to receipt of final RECORD PLANS by St. Bernard Parish and the engineer.

There shall be no direct payment for RECORD PLANS. Include cost in appropriate bid items.

MATERIALS TESTING REQUIREMENTS

GENERAL:

Sampling and testing of materials used in the construction process is required on this project. In addition, the Contractor shall submit evidence that all material planned for use on this project complies with the Louisiana Department of Transportation and Development (DOTD) requirements, the DOTD "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", 2006 edition, the DOTD "MATERIALS SAMPLING MANUAL", and other specified requirements contained in the Contract Documents and on the Drawings.

The Owner, St. Bernard Parish, shall employ and pay for a materials testing laboratory to sample, transport, test, and report results as described in this section or elsewhere in the Contract Documents or shown on the Drawings. Cost of retest shall be paid for by the Contractor. Bid Item numbers 804-17-00100 and NS-804-00001 include testing requirements. Unless covered by a separate bid item on the Bid Form, the Contractor shall be responsible for all testing required to accomplish work performed under these Bid Items and shall include all costs of same in his Bid Proposal.

Contractor shall be responsible for providing sufficient notification to the testing laboratory, making materials samples available for the testing laboratory's use, providing access to the testing laboratory to perform their work on the construction site, furnishing minor labor to assist the testing laboratory, and for otherwise cooperating with testing laboratory personnel when they are on the construction site.

The testing laboratory will conduct the sampling and testing in accordance with requirements of the Contract Documents, provisions of this Section, and through using the latest applicable ASTM, ACI, AASHTO, or DOTD standards as referenced. In the absence of a specified standard reference, use requirements of DOTD "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", 2006 edition and the DOTD sampling and testing standard requirements.

REPORT FORMAT AND CONTENTS:

Report shall contain at least the following information:

1. Project Name
2. St. Bernard Parish project identification number
3. HMGP Federal identification number
4. Date of report
5. Time of arrival at site
6. Time of departure at site

7. Type of report
8. Materials being sampled, observed or tested
9. Bid Item number related to report
10. Location of sample, observation, or test
11. Station number or other information used to locate the area being reported
12. Date of sample or observation
13. Date of test
14. Results of field measurement, observation of test
15. Name(s) of testing laboratory representative(s) at site
16. Name of individual(s) performing actual tests
17. Name of individual preparing report if not the site representative of tester
18. Include descriptive information in the report indicating what Construction Contractor equipment was in use or in the area of sampling/testing at the time of the site visit
19. Ambient weather conditions at the time of the site visit

TESTING REQUIREMENTS FOR BID ITEMS:

Item 302-02-2080: One sample of the aggregate proposed for use as base shall be obtained for each 2,500 cubic yard of material. Each sample shall be tested for compliance with the DOTD specification. The minimum field density of the completed base course shall be 95% based on the DOTD TR418 test method. A base thickness measurement shall be made at each density test location. One density and one thickness measurement shall be made for each 500 square yards of base.

Item 305-01-04000: One samples of the granular material shall be obtained for each 2,500 cubic yard of material proposed for use as subbase. Each sample shall be tested for compliance with the DOTD Specification Subsection 1003.09(a). The minimum field density of the completed subbase course shall be 95% based on the DOTD TR418 test method. A subbase thickness measurement shall be made at each density test location. One density and one thickness measurement shall be made for each 500 square yards of subbase.

Item 601-01-00300: Testing laboratory shall work jointly with the Contractor on developing a concrete mix design that will comply with the strength and endurance requirements of these specifications and DOTD requirements. The mix design shall be submitted to St. Bernard Parish and the Engineer for information prior to ordering any material for the project.

During the placement of concrete, testing laboratory shall obtain in the field 6" X 12" cylinder samples. A minimum of four (4) cylinder samples of the concrete shall be

obtained for each 100 cubic yards of concrete with a minimum requirement of one set each day concrete is placed. If concrete placement is discontinued and then resumed later in the day, a minimum of one (1) additional set of four (4) cylinders shall be obtained for the continued work. Samples shall be obtained in accordance with DOTD TR226. A copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

The sample concrete cylinders shall be tested in compression. Two (2) samples shall be tested at seven (7) days of age and two (2) samples shall be tested at twenty-eight (28) days of age. Results of the test shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Thickness measurements shall be made to confirm the thickness of the concrete. One thickness measurement shall be made for each 150 square yards of concrete placed. Results of the thickness measurements can be included in the report of concrete field samples. If a separate report is made for the thickness measurements, a copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the thickness measurements with an official copy sent in the US mail.

Pavement core samples shall be obtained after the concrete has hardened and reached 28 days of age to confirm the thickness of the concrete. One core sample shall be obtained for each 250 square yards of concrete placed. The core samples shall be obtained in accordance with DOTD TR225. If results of concrete cylinder test were found to be below the specified strength, the concrete core samples shall be tested for compressive strength. A copy of the core thickness report and, if performed, the compressive strength report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Item 602-05-01160: Testing for concrete patching shall conform to the same requirements as **Item 601-01-00300** except for the frequency of sampling and the elimination of core sample of the hardened concrete. A minimum of two sample sets of four (4) cylinders shall be obtained on each day concrete is placed. Samples shall be obtained in accordance with DOTD TR226. Thickness measurements shall be made to confirm the thickness of the concrete at each pavement panel repaired. A copy of all field reports shall be sent to St. Bernard Parish and the Engineer via email on the date of the test or measurement with an official copy sent in the US mail.

Item 602-05-02160: Testing for concrete patching shall conform to the same requirements as **Item 601-01-00300** except for the frequency of sampling and the elimination of core sample of the hardened concrete. A minimum of two sample sets

of four (4) cylinders shall be obtained on each day concrete is placed. Samples shall be obtained in accordance with DOTD TR226. Thickness measurements shall be made to confirm the thickness of the concrete at each pavement panel repaired. A copy of all field reports shall be sent to St. Bernard Parish and the Engineer via email on the date of the test or measurement with an official copy sent in the US mail.

Items 701-03-02000, 701-03-0202, 701-03-02060, 701-05-01140, 701-05-01140, 701-05-01150, 701-07-01000, 701-10-01000, 701-10-01020, 701-10-01040, 701-10-01060, 701-10-01080: Submittal of confirmation of pipe material conformance is stated elsewhere in these specifications. All bedding for pipe shall be tested for field density. One samples of the aggregate shall be obtained for each 2,500 cubic yard of material proposed for use as base. Each sample shall be tested for compliance with the DOTD specification. The minimum field density of the completed base course shall be 95% based on the DOTD TR401 test method. A thickness measurement shall be made at each density test location. One density and one thickness measurement shall be made for each 200 linear feet of trench.

All backfill for pipe located below pavement shall be tested for field density. One samples of the granular backfill shall be obtained for each 2,500 cubic yard of material proposed for use. Each sample shall be tested for compliance with the DOTD specifications. The minimum field density of the completed backfill shall be 95% based on the DOTD TR401 test method. One density measurement shall be made for each 200 linear feet of trench.

Items 702-02-00200, 702-01-00100, 702-03-00100, 702-03-00200, 702-03-00300, 702-03-00600, 702-09-00100, 702-03-00200: Submittal of confirmation of manhole material conformance is stated elsewhere in these specifications. All bedding or foundations for manholes shall be tested for field density. One sample of the stone aggregate shall be obtained for each 1,000 cubic yard of material proposed for use. Each sample shall be tested for compliance with the DOTD specifications. The minimum field density of the completed base course shall be 95% based on the DOTD TR401 test method. A thickness measurement shall be made with each density test location. One density and one thickness measurement shall be made for each structure. Results of the test and measurements shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Testing laboratory shall work jointly with the Contractor on developing a concrete mix design that will comply with the DOTD strength and endurance requirements for

drainage structures in this Bid Item. The mix design shall be submitted to St. Bernard Parish and the Engineer for information prior to ordering any material for the project.

During the placement of concrete, testing laboratory shall obtain in the field 6" X 12" cylinder samples. A minimum of four (4) cylinder samples of the concrete shall be obtained for each drainage structure. Samples shall be obtained in accordance with DOTD TR226. A copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

The sample concrete cylinders shall be tested in compression. Two (2) samples shall be tested at seven (7) days of age and two (2) samples shall be tested at twenty-eight (28) days of age. Results of the tests shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

One samples of the granular material proposed for use as backfill around drainage structures shall be obtained for each 1,000 cubic yard of material. Each sample shall be tested for compliance with the DOTD Specification Subsection 1003.09(a). Results of the tests shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Backfill around structures not located below pavement shall not be field tested for in-place density. Backfill shall be compacted and visually observed.

Backfill around structures located below pavements shall be tested for field density. Backfill shall be placed in layers having a maximum thickness of twelve (12) inches. Each layer shall be properly compacted. The top 12" layer shall be tested for field density. The minimum field density of the backfill shall be 95% based on the DOTD TR418 test method. One density measurement shall be made for each drainage structure. Results of this test shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Items 706-01-00100, 706-01-00300, 706-02-00200, 706-04-00100: One sample of the granular material proposed for use as base shall be obtained for each 1,000 cubic yard of material. Each sample shall be tested for compliance with the DOTD Specification Subsection 1003.09(a). The minimum field density of the completed subbase course shall be 95% based on the DOTD TR401 test method.

Base course thickness for concrete walks shall be made at maximum fifty (50) ft. intervals with a minimum of one (1) measurement each day work occurs. In-place density test for concrete walks shall be made at maximum 200 ft. intervals with a minimum of one test each day base is placed. Results of the tests and the thickness

measurements shall be reported to St. Bernard Parish and the Engineer via email on the date of the tests with an official copy sent in the US mail.

A base thickness measurement shall be made at each driveway or handicapped ramp location. One density and one thickness measurement shall be made for each driveway or handicapped ramp location. Results of this test and the thickness measurement shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Testing laboratory shall work jointly with the Contractor on developing a concrete mix design that will comply with the strength and endurance requirements of these specifications and DOTD requirements. The mix design shall be submitted to St. Bernard Parish and the Engineer for information prior to ordering any material for the project.

During the placement of concrete, testing laboratory shall obtain in the field 6" X 12" cylinder samples. A minimum of four (4) cylinder samples of the concrete shall be obtained for each day concrete is placed. If concrete placement is discontinued and then resumed later in the day, a second sample set of four (4) cylinders shall be obtained for the continued work. Samples shall be obtained in accordance with DOTD TR226. A copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

The sample concrete cylinders shall be tested in compression. Two (2) samples shall be tested at seven (7) days of age and two (2) samples shall be tested at twenty-eight (28) days of age. Results of the test shall be reported to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Items 707-01-00200 and 707-01-00300: One sample of the aggregate proposed for use as base shall be obtained for each 1,000 cubic yard of material. The sample shall be tested for compliance with the DOTD specifications. The minimum field density of the completed base course shall be 95% based on the DOTD TR418 test method. A base thickness measurement shall be made at each density test location. One density test and one thickness measurement shall be made for each 500 linear feet of base with a minimum of one density test and thickness measurement for each day such work is conducted. A copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

The Testing Laboratory shall work jointly with the Contractor on developing a concrete mix design that will comply with the strength and endurance requirements of

these specifications and DOTD requirements. The mix design shall be submitted to St. Bernard Parish and the Engineer for information prior to ordering any material for the project.

During the placement of concrete, the testing laboratory shall obtain in the field 6" X 12" cylinder samples. A minimum of four (4) cylinder samples of the concrete shall be obtained for each 50 cubic yards of concrete with a minimum requirement of one set of cylinders each day concrete is placed. If concrete placement is discontinued and then resumed later in the day, a minimum of one (1) additional set of four (4) cylinders shall be obtained for the continued work. Samples shall be obtained in accordance with DOTD TR226. A copy of the field report shall be sent to St. Bernard Parish and the Engineer via email on the date of the test with an official copy sent in the US mail.

Items 718-01-00100, 719-01-06080, 719-01-06120: Comply with submittal requirements contained elsewhere in the Contract Documents.

Item 741-01-02040, 741-01-02120, 741-01-02200: The following testing shall be performed:

A. HYDROSTATIC PRESSURE AND LEAKAGE TESTS

1. Hydrostatic pressure and leakage tests will be performed by the Contractor in the presence of the Owner's Testing Laboratory technician. The Testing Laboratory shall issue a report stating the results of the tests and confirming that the water distribution system meets or does not meet the requirements of this Specification. Test pressure shall be 150 psi for two hours with an allowable leakage of 11.7 gallons per day per mile per inch diameter (11.7 gpd/mile/inch diameter). The Testing Laboratory shall witness the test and shall issue a written report.
2. After the pressure and leakage tests have been satisfactorily completed, the Contractor shall remove all hydrant cps (hose nozzle and pumper nozzle caps) and grease the nozzle threads. Then the hydrant caps shall be replaced and the man hydrant valves shall be fully opened. The hydrants shall be tested for leakage in this manner with the System pressure on the mains. Each hydrant will be required to withstand this test without leakage. The testing laboratory shall witness the test and shall issue a written report.

B. DISINFECTION OF WATER MAINS

1. The interior of all pipe, fittings, and other accessories shall be kept as free as possible from dirt and foreign matter at all times.
2. The main shall be flushed, prior to chlorination, as thoroughly as possible with the water pressure and outlets available. Flushing shall be done after the outlets available. Flushing shall be done after the pressure test has been made. No hydrant is installed at the end of the main; a tap shall be provided large enough to develop a velocity in the main of at least 2.5 feet per second.
3. Before being placed in service, all new mains and repaired portions of, or extension to existing mains shall be chlorinated so that a chlorine residual of not less than 25 PPM remains in the water after twenty-four (24) hours standing in the pipe. Chlorination will be performed by the Contractor.
4. The Contractor must comply with the requirements of the local water utility provider, prior to acceptance of the water main.

Item 804-01-00300:

Item 805-02-00400, 805-04-00100:

Item 805-12-2280, 805-12-03380:

Item 806-01-00100:

Item 810-01-00100, 810-04-00100:

Item 813-01-00100:

Testing Included in the Contractor's Bid:

Sampling, testing, and reporting of material for the following items shall be included in the Contractors bid proposal in the appropriate Bid Item referenced. All requirements for sampling, transporting, testing in the field or laboratory, and reporting and disturbing results shall be included in the referenced Bid Item.

Item 804-12-00100: Comply with all requirements of the Louisiana Department of Transportation and Development "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", 2006 edition. Hydraulic jacks shall be calibrated and tested prior to use. Submit calibration certification prior to using equipment.

Item 804-17-00100:

Item NS-804-00001

Item

Item

MEASUREMENT:

There shall be no measurement for payment of Materials Testing or any of the requirements stated in this section.

PAYMENT:

There shall be no direct payment for Materials Testing or any of the requirements stated in this section. The Contractor shall include all cost of materials testing including sampling, transporting, testing in the field or laboratory, and reporting and disturbing results in appropriate bid items on the Contractor's Construction Proposal.

PRE-BID CONFERENCE MINUTES

- Date:** Tuesday, April 19, 2016, 10:00 a.m.
- Location:** St. Bernard Parish, Department of Public Works, 1125 E St. Bernard Highway, Chalmette, LA
- Project:** Palmisano Boulevard Drainage Repairs and Improvements
- Attending:** See attached sign-in sheet

1. Introductions

- Michael Hattaway – Project Engineer, GEC
- Sid Trouard – Vice President, GEC
- Laurin Hallner – Engineer, GEC
- Keith Lagrange – Director of Public Works, St. Bernard Parish
- Teri Doskey – Executive Assistant/Office Manager, St. Bernard Parish

2. Sign-in Sheet – See attached

3. Advertisement

4. Program Description

- Project funded by HMPG (Program Managers are HGA)

5. Project Scope of Work

- Estimated cost is \$7.0 million
- Box culvert from the Twenty Arpent Canal to St. Bernard Hwy.
- Improve ditch along St. Bernard Hwy.
- Remove and replace pump station at St. Bernard near Plaza Dr.
- Bridge on Palmisano at the Twenty Arpent Canal
- House near bridge will be demolished prior to the start of construction.
- Empty lots along Palmisano and Pecan may be made available during construction for access.

6. Questions During Bid

Direct questions, in writing, to Michael Hattaway at G.E.C..

Email: mhattaway@gecinc.com

Phone: (985) 624-5125

Mail: G.E.C., Inc., 1580 W. Causeway Approach, Suite 1, Mandeville, LA 70471

7. Addendum – Addendum No. 1 will be issued Wednesday or Thursday.

8. Bid Opening

Bids are scheduled to be opened at 2:00 p.m. on Tuesday, May 3, 2016 at the St. Bernard Parish Government Department of Public Works, 1125 E. St. Bernard Highway, Chalmette, LA. Bid opening may be changed to May 10, 2016 via Addendum #1.

9. Completion Time

- The Contract Completion time will be 270 Calendar Days from the date the Notice to Proceed is issued. This may be extended by the addendum.
- Liquidated Damages were \$300 per Calendar Day. This will be revised in Addendum No. 01.

10. Bid Bond

- Teri Doskey advised bidders to use their bonding agency standard for bid bonds.

11. Palmisano Boulevard Pavement

- Palmisano Blvd. has been recently paved. Contractors shall take care not to damage the roadway. The Contractor will be held responsible for damage to the street, not including normal wear and tear.

12. Questions

- Bidder's questions will be received until 5:00 p.m., April 26, 2016. Questions will be answered by Addendum.

13. Open to questions from the floor.

- Where are allowable locations to obtain plans and specifications?
Plans and specifications must be obtained from the Engineer, GEC or Central Bidding.
- Where will the staging area be located?
Staging areas will be at empty lot locations along Palmisano Blvd. and Pecan Dr. that will also be used for access to the site. Lots will be identified in the Addendum.
- Will utilities be available at these locations?
Yes. At the staging area or close to.
- What work is to be performed along St. Bernard Hwy?
Two 14" diameter pipes will be bored under St. Bernard Hwy near Plaza Drive at the location of the pump station. Ditch cleaning will be performed beginning at the pump station discharge and continuing east to Palmisano Blvd. Drain crossing is located at Palmisano Blvd.
- Is work to be performed within 50' of the railroad?
Yes. There is also a crude line in the area, info to be added. A permit will be required from Norfolk Southern. Contact information will be provided.

- Is there work near power lines?
Yes, power lines run through drainage work area along Palmisano Blvd.
- Are there any constraints working near the river?
Yes, high river conditions are included in Addendum No. 1.
- Who becomes the owner of excavated material?
The contractor. Also, a water management section will be added in Addendum No. 1. In lieu of removing dams, standby crew manned with equipment, ready to remove dams, is ok.
- Is a SWPPP required to be filed?
Yes.
- Can soil borings be obtained?
Yes, included in the plans.
- Will the geotechnical report be provided?
** Will check.*
- Are there any restrictions to work days/hours?
Work scheduled before 6 am and after 8 pm will need approval. Palmisano Blvd. can be closed to traffic, for the 20 Apparent Canal bridge construction.
- Is the area residential?
Yes; very.
- What is the engineer's opinion of construction cost?
\$7 Million.
- Is the contractor responsible for all testing?
Contractor is responsible for vibration monitoring, pile load testing, and dynamic monitoring. St. Bernard Parish will pay for all other testing. If any test fails or if the contractor is not ready after they have ordered the test, the contractor will responsible for the cost.
- Who is the owner's testing lab?
The Beta Group
- Are Davis Bacon wage rates a requirement?
No.
- Tax exempt?
Yes.
- Will there be an extension to the bid opening date?
Yes. The bid opening will be extended to May 10, 2016.
- How will be project be paid for?
The project is being funded by an HMGP grant. The contractor will be paid by St. Bernard Parish.
- What is the payment schedule/format?

The parish will accept a standard AIA form. The payment application will be sent to the engineer for review, the engineer will submit to the Parish. The process will take an estimated 60 days due to a new process for HMGP. A schedule of values should be shown for lump sum bid items.

- Are the specifications Blue Book or St. Bernard Parish standards?
All specifications are DOTD with the exception of special sections.
- What is the anticipated time between the bid date and the notice to proceed?
No more than 30 days.
- Will the contract time be extended?
Yes, Contractors can propose a contract time to be considered.
- Will there be a resident engineer for construction?
Yes. Also, public works office is adjacent to project.
- Will the bids be available for examination after bid opening?
Yes. They will also be available online, except envelope.
- How will the low bidder be notified?
GEC is responsible for notifying the low bidder.

