December 7, 2017

Please find the following addendum to the below mentioned BID.

Addendum No.: 3

Bid#: 622-95-17-61-2

Project Name: Bedico – Timberlane Interconnection

Bid Due Date: Tuesday, December 19, 2017

GENERAL INFORMATION:

1. Please note the last day to submit written inquiries date listed on Addendum #1 has been changed. The correct last day to submit written inquiries is Friday, December 8, 2017 by 2:00 PM.

<< End of Addendum #3 >>
December 6, 2017

Please find the following addendum to the below mentioned BID.

Addendum No.: 2

Bid#: 622-95-17-61-2

Project Name: Bedico – Timberlane Interconnection

Bid Due Date: Tuesday, December 19, 2017

GENERAL INFORMATION:

1. Please note that the Bid Opening has been pushed to Tuesday, December 19, 2017. The time and location remains the same. The last day to submit written inquiries is Thursday, December 14, 2017 at 2:00 PM.

2. Delete project classification “Highway, Street and Bridge Construction” and change classification to “Municipal and Public Works.”

3. Section 04, Louisiana Public Work Bid Form -Replace with Section 04, Louisiana Public Work Bid Form Revised (Attached)

4. Section 01025, Measurement and Payment –
   a. Item 1.11, 12” Gate Valves with Box and Pad - Add “8” Valves and Item No. “12a.”

5. Section 02510, Water Piping, Materials and Structures-
   a. Subsection 2.03 High Density Polyethylene Pressure Pipe-
      1. Add the following sentence to the end of the Paragraph A. “Pipe shall be DIPS, IPS is not allowed.”

6. Section 02510, Water Piping, Materials and Structures-
   a. Section 2.11 Fire Hydrants-
      1. Delete the following sentence “Hydrants shall be Mueller Improved, M&H, Darling, or approved equal.” and replace with “Hydrants
shall be Mueller Super Centurion 250 Model A – 423 or approved equal.”

7. Plan Sheet 4 –
   a. 12” Valves at Mary, Alice, Hester, Adrienne and Danny Ray Streets,
      1. Change from 12” to 8”.

8. Plan Sheet 5 –
   a. Add a 12” gate valve to line north of Brewster Road.

9. Plan Sheet 10 – Add Note 16 as follows: “16. Connections to HDPE line shall be
   by “Harvey” adapters and solid sleeves. Tapping sleeves are not allowed. Price
   for these connections shall be in the unit prices bid.”

ATTACHMENTS:

1. Section 04, Louisiana Public Work Bid Form Revised (Attached)
TO: St. Tammany Parish Government
21454 Koop Drive
Mandeville, LA 70471

BID FOR: Bedico – Timberlane Interconnection
Bid#622-95-17-61-2 (REVISED)
PEC Project No. 11261.05

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: Professional Engineering Consultants Corp. and dated: September 2017

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 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:

Not Applicable

Dollars ($ _______ N/A) *

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

Not Applicable

Dollars ($ _______ N/A) *

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

Not Applicable

Dollars ($ _______ N/A) *

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(B)5.

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.
TO: ST. TAMMANY PARISH GOV’T

BID FOR: BEDICO - TIMBERLANE INTERCONNECTION

21454 KOOP DRIVE
MANDEVILLE, LA 70471

BEDICO # 622-95-17-61-2 (REVISED)
PEC Project No. 11261.05

(Owner to provide name and address of owner)

(Owner to provide name of project and other identifying)

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.

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>QUANTITY</th>
<th>UNIT OF MEASURE</th>
<th>UNIT PRICE</th>
<th>UNIT PRICE EXTENSION</th>
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<tbody>
<tr>
<td>1</td>
<td>5,895</td>
<td>L.F.</td>
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<td>1</td>
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<tr>
<td>7</td>
<td>1</td>
<td>L.S.</td>
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**DESCRIPTION:**
- **12” PVC, SDR 26, CL 160, ASTM D2241 Open Cut**
- **130’ x 12” PVC or HDPE, DR11, Water Line Jacketed and Bored Road Crossing (Directional Drill Optional)**
- **12” HDPE, DR11, Water Line (Directional Drill)**
- **Fire Hydrant Assembly (With Valves)**
- **Fittings**
- **Tie New Water Line to Existing Water Line**
- **Seeding and Mulching**
Section 04

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: ST. TAMMANY PARISH GOV'T
21454 KOOP DRIVE
MANDEVILLE, LA 70471

BID FOR: BEDICO - TIMBERLANE INTERCONNECTION
BID# 622-95-17-61-2 (REVISED)
PEC Project No. 11261.05

(Owner to provide name and address of owner)

<table>
<thead>
<tr>
<th>DESCRIPTION:</th>
<th>REF. NO.</th>
<th>QUANTITY</th>
<th>UNIT OF MEASURE</th>
<th>UNIT PRICE</th>
<th>UNIT PRICE EXTENSION (Quantity times Unit Price)</th>
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<td>Clearing and Grubbing</td>
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<tr>
<td>DHH Sample Tap</td>
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<td>12&quot; Gate Valve with Box and Pad</td>
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</tbody>
</table>

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.
December 1, 2017

Please find the following addendum to the below mentioned BID.

Addendum No.: 1

Bid#: 622-95-17-61-2

Project Name: Bedico – Timberlane Interconnection

Bid Due Date: December 7, 2017

QUESTIONS & ANSWERS:

Question #1: How many project signs are required for this project?

Answer #1: One (1) sign is required for this project.

Question #2: Are there any restrictions on lane closures?

Answer #2: The work shall be done in accordance with the attached DOTD Utility Permit. (Attachment A)

Question #3: Is a traffic plan from a Louisiana engineer required or can the contractor follow the LADOTD standard traffic plans?

Answer #3: A standard plan is adequate.

ATTACHMENTS:

1. “DOTD Utility Permit”.pdf – Attachment A

<< End of Addendum #1 >>
Three (3) copies of the drawings must accompany the utility permit application.

When applicable, the following supplements are also required and shall become a part of this permit: Bridge Attachment, Pipe Data Sheet or Certification for Permit Lighting.

PERMIT NUMBER 62029071
CONTROL 852 SECTION 02

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
UTILITY PERMIT
(Required by State Law) Rev 5/13
A copy of this permit shall be available at the site where and when work is performed.

Whereas St. Tammany Parish

(Print or type name of applicant) hereinafter termed applicant, requests a permit for the use and occupancy of the right-of-way of State Highway No. 1085

in St. Tammany Parish, located as follows:
from: Intersection of LA-22 and LA-1085
Lat.: 30.4357 Long.: -90.2316
(to: 1.8 miles north of intersection if LA-22 and LA-1085
Lat.: 30.4594 Long.: -90.2239
(in Decimal Degrees, e.g. Lat -30.459, Long -91.178)

for the installation, operation and maintenance of the following described project (please summarize and use additional sheets as necessary):

Installation of a 12" water main to be installed by open cut or jack and bore under hard surfaces.

Estimated number of times this facility will be accessed each year after construction has been completed, including meter readings:

By signing this permit, applicant/permittee hereby acknowledges receiving a copy of the permit, the general conditions and standards, the Standards for the Installation of Pipelines on State Highways, and the Standards for the Installation of Supply and Communication Lines on State Highways, and agrees to comply with all provisions contained therein and all applicable laws, rules and regulations.

DOTD USE ONLY:
Permit is subject to the following conditions (use additional sheets as necessary):

RECOMMENDED FOR APPROVAL
(Check box if review required)
[ ] District Permit Specialist / Date
(Signed) 3-13-19
[ ] District Traffic Operation Engineer / Date
[ ] District Administrator (or Designee) / Date

Applicant must notify District Permit Specialist at phone number: 985-493-2367 at least 3 days prior to beginning work and after work is completed.

Final inspection and approval by:

Issue Date: 3-13-17

Installation to be completed by: 9-13-17 (Date)

Permit must be signed by the owner or lessee of the property. Contractor may NOT acquire permit

Owner
Greg Gordon
(Date) 3-2-17

Name of Person Signing Permit
Greg Gordon
Title
Director, Department of Environmental Services
Street or P.O. Box
21454 Koop Dr., Suite 1A
City or Town
Mandeville
State LA
Zip Code 70471
Telephone Number
985-982-5353
E-mail Address ggordon@dtspg.gov

DOT APPROVAL

Headquarters Right-of-Way Permit Engineer / Date

Print Name

pc: DISTRICT
pc: PERMITTEE
The following general conditions and standards shall apply:

FIRST: That, the rights and privileges granted herein shall be nonexclusive and shall not be construed to be any broader than those expressly set out in Acts of the Legislature of the State of Louisiana, regardless of the language used in this permit and that any facilities placed on the highway right-of-way shall be placed in accordance with existing laws and the standards of the Department.

SECOND: That, all facilities thereto, after having been erected, shall at all times be subject to inspection and the right is reserved to require such changes, additions, repairs, relocations and removal as may at anytime be considered necessary to permit the relocation, reconstruction, widening and maintaining of the highway and to provide proper and safe protection to life and property on or adjacent to the highway, or in the interest of safety to traffic on the highway and that the cost of making such changes, additions, repairs and relocations shall be borne by the applicant, and that all of the cost of the work to be accomplished under this permit shall be borne by the permittee who agrees to hold the Department harmless therefore.

THIRD: That, the proposed facilities or their operation or their maintenance shall not unreasonably interfere with the facilities or the operation or maintenance of the facilities of other persons, firms or corporations previously issued permits of use and occupancy, and the proposed facilities shall not be dangerous to persons or property using or occupying the highway or using facilities constructed under previously granted permits of use and occupancy; and that the Department's records of prior permits are available, it being the duty of the applicant to determine the existence and location of all facilities within the highway right of way.

FOURTH: That, installations within the highway right-of-way shall be in accordance with applicable provisions contained in the following: AASHTO Guide for Accommodating Utilities within Highway Right of Way, Code of Federal Regulations 23 (CFR 23), National Electrical Safety Code C2, 1996 Federal Telecommunications Act. Those facilities not included in the above mentioned documents shall be in accordance with accepted practice. Where standards of the Department exceed those of the above cited codes, the standards of the Department shall apply. The Department reserves the right to modify its policies as may be required if conditions warrant.

FIFTH: That, data relative to the proposed location, relocation and design of fixtures or appurtenances as may be required by the Department shall be furnished to the Department by the applicant free of cost, and that the applicant shall make any and all changes or additions necessary to make the proposed facilities thereto satisfactory to the Department.

SIXTH: That, cutting and trimming of trees, shrubs, etc., shall be in accordance with the Department's EDSM IV 2.1.6 and Vegetation Manual, as revised.

SEVENTH: That, the applicant agrees to defend, indemnify, and hold harmless the Department and its duly appointed agents and employees from and against any and all claims, suits, liabilities, losses, damages, costs or expenses, including attorneys' fees sustained by reason of the exercise of this permit, whether or not the same may have been caused by the negligence of the Department, its agents or employees, provided, however, that the provisions of this last clause (whether or not the same may have been caused by the negligence of the Department, its agents or employees) shall not apply to any personal injury or property damage caused by the sole negligence of the Department, its agents or employees, unless such sole negligence shall consist or shall have consisted entirely and only of negligence in the granting of a permit or permits.

EIGHTH: That, the applicant is the owner of the facility for which a permit is requested, and is responsible for maintenance of such: and any permit granted by the Department is granted only insofar as the Department had the power and right to grant the same.

NINTH: That, any permit granted by the Department is subject to revocation at any time.

TENTH: That, signing for warning and protection of traffic in instances where workmen, equipment or materials are in close proximity to the roadway surfacing, shall be in accordance with requirements contained in the Department's Manual on Uniform Traffic Control Devices. No vehicles, equipment and/or materials shall operate from, or be parked, stored or stock piled on any highway, median, or in an area extending from the outer edge of the shoulder of the highway on one side to the outer edge of the shoulder of the highway on the opposite side or in the median of any divided highway.

ELEVENTH: That, all provisions and standards contained herein relative to the installation of utilities shall apply to future operation, service and maintenance of utilities.

TWELFTH: That, drainage in highway side and cross ditches must be maintained at all times. The entire highway right of way affected by work under a permit must be restored to as good a condition as existed prior to beginning work to the complete satisfaction of the Department's R/W Permit Engineer.

THIRTEENTH: Any non-metallic or non-conductive underground facility must be installed with a non-corrosive metallic wire or tape placed directly over and on the center of the facility for its entire length within highway right-of-way. Wire or tape must be connected to all facilities.

FOURTEENTH: Prior to performing any excavations, the applicant is required to call Louisiana One Call. If installing any underground facilities such as cable or conduits, the applicant must be a member of Louisiana One Call. In addition, the applicant must contact DOTD at 1-800-259-4929 or DOTD-FiberLocates@la.gov at least 24 hours prior to performing any excavation on DOTD Right-of-way (either for installation or maintenance).
STANDARDS FOR THE INSTALLATION OF PIPELINES ON STATE HIGHWAYS

A. GENERAL
(1) All materials and workmanship shall conform to the requirements of the applicable industry code and to Department specifications.
(2) All safety precautions for the protection of the traveling public must be observed. Undue delay to traffic will not be tolerated.
(3) All excavations within the limits of the right-of-way shall be backfilled and tamped in six inch layers to the density of the adjacent undisturbed soil. Where sod is removed or destroyed, it shall be replaced. Where it is necessary to make excavations in the soil, the top six inches of backfill shall be sand-clay gravel or equivalent. Where existing spoil material is, at the discretion of the Department, unsuitable for backfill, select material shall be furnished in lieu thereof and the existing material disposed of by approved methods.
(4) Protruding valves and other above ground appurtenances shall not be installed at any point within the right of way of the highway except for vents, markers, etc., which may be installed at the right-of-way line, unless specifically approved herein.

B. PARALLEL TO THE HIGHWAY (All provisions of general standards to apply.)
(1) Pipelines paralleling the highway:
   (a) shall occupy the last few feet of the right-of-way back of the ditch except where upon showing of actual necessity a permit is issued for another location;
   (b) shall have a minimum earth cover of twenty-four (24) inches;
   (c) shall have a minimum clearance of twenty-four (24) inches below existing or proposed drainage structures, where possible.
(2) Utilities paralleling the highway are limited to distribution facilities.

C. CROSSING THE HIGHWAY (All provisions of general standards apply.)
(1) Uncased pipelines may be permitted, provided the conditions outlined in E.D.S.M. IV 2.1.9 are met.
(2) If the permittee elects to use casing, it must extend from right-of-way to right-of-way, and be properly vented and marked at or beyond the right-of-way line.
(3) For cased pipelines, the casing shall have at least four (4) feet of cover below the roadway and two (2) feet of cover below ditches or drainage structures. Uncased pipelines shall have at least five (5) feet and three (3) feet of cover respectively.
(4) Crossings shall be made at as nearly right angles to the highway as possible. No existing drainage structure under the highway may be used for this purpose.
(5) Construction methods used shall be in accordance with the following requirements:
   (a) Cutting the surface or tunneling under it is specifically prohibited.
   (b) Installation shall be made either by boring or jacking under and through the highway at least from ditch bottom to ditch bottom. In the absence of ditches, or along sections of highway with curb or gutter, boring or jacking shall extend beyond the outside edge of the traveled way to a point at least equal to three (3) times the vertical difference between the elevation of the roadway surfacing and the elevation of the top of the cable. Where width of right-of-way is insufficient to enable compliance with this requirement or where it is necessary to make a connection to an existing parallel facility which precludes compliance, the distance shall be to the right-of-way line or to the parallel facility. Any voids or overbreaks resulting from this shall be backfilled with grout consisting of a cement mortar or slurry of fine sand or clay, as conditions require. Excavating an open ditch to the edge of the pavement and boring and jacking the remainder of the distance is prohibited. Jacking and boring shall be done in accordance with Section 728 of the La. Standard Specifications for Roads and Bridges, latest edition.

D. REMOVAL AND ABANDONMENT OF UTILITY FACILITIES
(1) All facilities installed within state highway right-of-way shall be removed and disposed of by their owner as soon as they stop serving a useful purpose. Facilities may be abandoned under the following circumstances:
   (a) Pipelines and casings crossing highways or other hard surfaces may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer.
   (b) Pipelines and casings installed along highways, may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that they are less than 6 inches in diameter, or that they are buried with more than 8 feet of cover.
   (c) Electrical and communication facilities installed within a casing, and crossing under highways or other hard surfaces may be abandoned in place with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that the cable is removed from the casing.
   (d) Uncased cables crossing under highways or other hard surfaces may be abandoned in place provided that they are removed to a point as near to the edge of the highway as feasible.
(e) Electrical and communication cables installed along highways may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer, provided that they are less than 4 inches in diameter, or that they are buried with more than 8 feet of cover.

(f) All above ground facilities installed along state highways shall be removed and disposed of by their owner as soon as they stop serving a useful purpose.

(g) Facilities that are located so that their removal would be likely to result in damage to the highway, or to other facilities, may be abandoned in place, with the recommendation of the district utility and permit specialist and the project engineer, and with the approval of the headquarters utility and permit engineer. The procedure for abandoning these facilities will be specified on a case-by-case basis; however, in general, sections shall be removed here possible, and all remaining lines shall be filled with grout.

(2) Where it is not possible nor feasible to remove pipelines and/or casings under existing highways, such pipelines and/or casings may be abandoned in place provided removal shall be accomplished by the owner, as near to the highway on each side as possible and in all cases, beyond existing ditches to right-of-way lines, and further provided that all pipelines and/or casings abandoned under the highway shall be abandoned in accordance with D.O.T. Title 49 (i.e., pipelines are purged, capped, and filled with grout; note that when highway construction will remove the line in the near future, the DOTD’s project engineer may approve the use of water in place of grout).

(3) Pipelines and cables shall be removed from abandoned casings where possible.

(4) In all cases the highway right-of-way shall be repaired, at the permittee’s expense, to match DOTD standards. An approved backfill material shall be used to fill in any trenches or low areas, and shall be compacted to the same density as the surrounding soil. Any desirable trees or shrubs that are damaged shall be replaced, and any other damages (i.e., to subsurface drainage, traffic signs, etc.) shall be repaired.

(5) Companies who fail to comply with this by leaving their facilities within highway right-of-way after they are no longer used, or by not repairing the right-of-way after removing their facilities, shall not receive any permits until the situation is rectified.

(6) In cases where the DOTD decides that it is necessary to remove a facility and/or to repair highway right-of-way damaged by a utility or the utility’s facility, the company shall be invoiced for costs to the DOTD for removing abandoned facilities, or for repairing damaged right-of-way. Unpaid invoices shall be referred to DOTD’s accounting section for further action.

(7) Note that a recommendation for abandonment by the project engineer is required only on construction projects. The district construction engineer should be consulted by the district utility and permit specialist when an abandonment may cause a potential problem with future construction. The assistant district administrator should be consulted by the district utility and permit specialist when an abandonment may cause a potential maintenance problem.

(8) The owner of the abandoned facilities shall maintain full responsibility for any future problems caused by the facilities, and shall remove the facilities upon receiving a written request from the DOTD. The cost of removing these facilities shall be borne by the owner and the DOTD shall assume no liability for this cost.

STANDARDS FOR THE INSTALLATION OF SUPPLY AND COMMUNICATION LINES ON STATE HIGHWAYS

A. All pole lines shall occupy the last few feet of the right-of-way behind the ditch but shall be no further from the right-of-way line than one-half of the width of the cross-arms plus one foot, except where upon a showing of actual necessity a permit is issued for another location.

B. A minimum vertical clearance of twenty (20) feet shall be maintained between the traveled surface of the highway and any aerial installation. In no case shall the vertical clearance for an overhead utility line be less than the clearance required by the National Electrical Safety Code. A minimum clearance of sixteen (16) feet shall be maintained between existing ground elevation and any aerial installation when such installation is within highway right-of-way but does not cross the traveled surface of a highway.

C. Where supply and/or communication lines are placed underground, the standards for pipelines shall govern. Underground electric facilities must have at least four (4) feet of cover and must be encased when crossing a highway. These facilities must also be adequately marked by appropriate signs at specified locations.
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<th>Casing (If Used)</th>
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<td>Crossing Angle (if crossing highway)</td>
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</tr>
<tr>
<td>Minimum Depth beneath ditches or drainage structures (feet)</td>
<td>3'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>Pipe Vertical Deflection by Spangler Equation (inches)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Coating Material</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Cathodic Protection</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

*This is not design pressure. MAOP is the highest pressure a pipeline may be operated under US DOT regulations.

^Required for all pipelines (liquid and gas) except those not regulated by US DOT (i.e. water, sewage, brine, etc.).

This proposed installation is in compliance with Louisiana Department of Transportation and Development Standards.

(Signature of Owner, required)  3-2-17  pc: Permittee
Headquarters (original)  pc: District  Page 1 of 1
STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
UTILITY PERMIT SUPPLEMENT
Rev 1/17
PIPE DATA SHEET

<table>
<thead>
<tr>
<th>Data</th>
<th>Carrier Pipe</th>
<th>Casing (If Used)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents to be handled</td>
<td>WATER</td>
<td></td>
</tr>
<tr>
<td>Pipe Material</td>
<td>HPDE</td>
<td></td>
</tr>
<tr>
<td>Specification &amp; Grade of Pipe</td>
<td>PE3408</td>
<td></td>
</tr>
<tr>
<td>Outside Diameter (inches)</td>
<td>12.75&quot;</td>
<td></td>
</tr>
<tr>
<td>Dimension Ratio (DR) for Non-Metallic Pipe</td>
<td>SDR11</td>
<td></td>
</tr>
<tr>
<td>Nominal Pipe Size (NPS) (inches)</td>
<td>12&quot;</td>
<td></td>
</tr>
<tr>
<td>Wall Thickness(inches)</td>
<td>1.159&quot;</td>
<td></td>
</tr>
<tr>
<td>Specified Minimum Yield Strength (SMYS) (PSI)</td>
<td>3500 PSI</td>
<td></td>
</tr>
<tr>
<td>Average Temperature of Transmittant</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Hydrostatic Design Basis (HDB) (PSI) for Non-Metallic Carrier Pipe</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Surge Pressure Allowance (PSI) for Pipe Carrying Liquid</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>^Class Location</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Type of Joint (welded, mechanical, etc.)</td>
<td>WELDED</td>
<td></td>
</tr>
<tr>
<td>Method of Installation</td>
<td>DD</td>
<td></td>
</tr>
<tr>
<td>Location (crossing or parallel)</td>
<td>PARALLEL</td>
<td></td>
</tr>
<tr>
<td>Crossing Angle (if crossing highway)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Minimum Depth beneath roadway surface (feet)</td>
<td>N/A</td>
<td></td>
</tr>
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<td>3'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>Pipe Vertical Deflection by Spangler Equation (inches)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Coating Material</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Cathodic Protection</td>
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(Signature of Owner, required)  3-2-17  
Headquarters (original)        (Date)  
pc: Permittee  
Page 1 of 1
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</tr>
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</tr>
<tr>
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<td>N/A</td>
<td></td>
</tr>
<tr>
<td>*Maximum Allowable Operating Pressure (MAOP) (PSI)</td>
<td>60 PSI</td>
<td></td>
</tr>
<tr>
<td>Surge Pressure Allowance (PSI) for Pipe Carrying Liquid</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>^Class Location</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>Method of Installation</td>
<td>DD</td>
<td></td>
</tr>
<tr>
<td>(bore, open cut, horizontal directional drilling, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location (crossing or parallel)</td>
<td>CROSSING</td>
<td></td>
</tr>
<tr>
<td>Crossing Angle (if crossing highway)</td>
<td>90</td>
<td></td>
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<tr>
<td>Minimum Depth beneath roadway surface (feet)</td>
<td>5'-0&quot;</td>
<td></td>
</tr>
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Headquarters (original)  pc: District
WATER MAIN TO BE INSTALLED WITHIN THE LAST 5 FEET OF THE RIGHT OF WAY

ST. TAMMANY PARISH, LOUISIANA
BEDICO CREEK – TIMBERLANE INTERCONNECTION WATER MAIN
OWNER
TITLE
SCALE: 1" = 200'
DATE: DECEMBER 2016
PROJECT NO. 11261
PEC PROFESSIONAL ENGINEERING CONSULTANTS CORPORATION
P.O. BOX 7875, BATON ROUGE, LA 70892-7875

NEW WATER MAIN PVC (CLASS 180, SDR 26) INSTALLATION BY OPEN CUT HDPE (CLASS 200, DR 11) INSTALLATION BY DIRECTIONALLY DRILLING UNDER HARD SURFACES

APPARENT R/W
LA HWY 1085

APPARENT R/W
LA HWY 1085

APPARENT R/W
LA HWY 1085
WATER MAIN TO BE INSTALLED WITHIN THE LAST 5 FEET OF THE RIGHT OF WAY

ST. TAMMANY PARISH, LOUISIANA

BEDICO CREEK – TIMBERLANE INTERCONNECTION WATER MAIN

OWNER

TITLE

SCALE: 1" = 200'

DATE: DECEMBER 2016

PROJECT NO. 11261

SHEET NO. 4