

**CITY OF BATON ROUGE
PARISH OF EAST BATON ROUGE
DEPARTMENT OF ENVIRONMENTAL SERVICES**

October 12, 2016

ADDENDUM NO. 4

TO: ALL BIDDERS

SUBJECT: **JOOR ROAD / GREENWELL SPRINGS ROAD SEWER AREA UPGRADES
CITY-PARISH PROJECT NO. 11-FM-MS-0023**

ORIGINAL BID DATE: Tuesday, October 4, 2016 at 2:00 p.m.

CURRENT BID DATE: Thursday, October 20, 2016 at 2:00 p.m.

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract document:

PART 1 – UNIFORM CONSTRUCTION BID FORMS:

1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Forms, the Bidder shall indicate the receipt of this addendum in the space provided. For online Bid Express bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
2. Replace Unit Price Form with the attached Revised Unit Price Form (dated 10/12/16). The original Unit Price Form was 13 sheets and the Revised Unit Price Form is 13 sheets. This revised Unit Price Form **MUST** be used by all Bidders for this project. The UCBF on Bid Express has been updated to reflect the changes on the attached UCBF. **Failure to submit on the revised Unit Price Form shall be cause for the bid to be rejected.**

PART 2 – CONTRACT DOCUMENTS AND SPECIAL PROVISIONS:

1. Replace Unit Price Form with the attached Revised Unit Price Form (dated 10/12/16). The original Unit Price Form was 13 sheets and the Revised Unit Price Form is 13 sheets. This revised Unit Price Form **MUST** be used by all Bidders for this project. The UCBF on Bid Express has been updated to reflect the changes on the attached UCBF. **Failure to submit on the revised Unit Price Form shall be cause for the bid to be rejected.**

PART VIII SANITARY SEWER WORK

SECTION 804 SEWER FORCE MAINS

804-9 MEASUREMENT:

- d. **Abandon Force Main:** Delete this subsection of the Special Provisions (SP 102 of 283) in its entirety and replace with the following:

Abandonment of force main will be measured on a lump sum basis or by the cubic yard of flowable fill required to complete all work indicated on the Contract Documents and as provided in the bid form. Abandonment shall include any

equipment, cleaning, and flowable fill throughout the full length of pipe, and disposal in accordance with the plans and specifications.

804-11 PAY ITEMS: Add the following pay item to this subsection of the Special Provisions (SP 105 of 283):

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
8041001	Abandon Force Main (w/ flowable fill in-place)	Cubic Yard

SECTION 817 JACKED AND BORED PIPE / CASING: Delete this Section of the Special Provisions (SP 142 of 283) in its entirety and replace with the following:

SECTION 817 JACKED AND BORED PIPE / CASING

817-1 DESCRIPTION: The Work covered by this Section includes furnishing all labor, materials and equipment required to jack and bore pipe and/or casings to properly complete construction as described herein as directed by the Engineer and/or as shown on the Contract Documents.

817-1.1 Insurance: If a railroad crossing is required, the Contractor shall obtain the appropriate insurance and permits as required by the owner of the railroad at no additional cost to the Owner.

817-1.2 General:

- a. If available, interpretation of soil investigation reports and data, investigating the site and determination of the site soil conditions prior to bidding is the sole responsibility of the Contractor. Any subsurface investigation by the Bidder or Contractor must be approved by the appropriate authority having jurisdiction over the site.
- b. Pipe and casing installation shall be performed in a way that will not interfere with, interrupt or endanger roadway surface and activity thereon, and minimize subsidence of the surface, structures, and utilities above and in the vicinity of the bore. The Contractor shall be responsible for all settlement resulting from boring operations and shall repair and restore damaged property to its original or better condition at no additional cost to the Owner.
- c. The face of the excavation shall be protected from the collapse of the soil into the pipe or casing.
- d. Design of the jacking/receiving pit and required bearing loads to resist jacking forces are the responsibility of the Contractor. The excavation method selected shall be compatible with expected ground conditions. The lengths of the bore shown on the Contract Documents are the minimum lengths required. The length of the bore may be extended for the convenience of the Contractor, at no additional cost to the Owner. Due to restrictive right-of-way and construction easements, bore lengths less than the nominal 20 foot length may be necessary.
- e. Contractor shall dewater during installation in accordance with Section 801.

817-2 MATERIALS: Contractor shall comply with all manufacturers' recommendations for the

approved products.

817-2.1 Sewer Pipe: Acceptable materials used for direct boring of sanitary sewers without a casing are as follows:

- a. Ductile Iron pipe and joints to be in accordance with Section 1016-1. 2 for gravity sewer applications and Section 1016-2.3 for force main applications.
- b. Fiberglass Reinforced Polymer (FRP) pipe and joints to be in accordance with Section 1016-1.6 for gravity sewer applications.
- c. Polyethylene (HDPE) butt-welded and fused joints to be in accordance with Section 1016-1.1.2 and 1016-2.2 for gravity sewer applications and force main applications respectively.

817-2.2 Casing:

- a. Unless otherwise required by the agency having jurisdiction, the casing shall be new welded steel pipe meeting ASTM A53, Grade B, and have a minimum yield strength of 35,000 psi. The exterior of the casing pipe shall be coated with coal tar epoxy or bituminous asphalt. Minimum wall thickness shall be as shown in the following table:

Table of Minimum Wall Thickness for Steel Casing Pipe for Cooper E80 Loading		
Carrier Pipe Nominal Diameter	Min. Casing Pipe Diameter (O.D.)	Min. Thickness
6	12	0.250 inch
8	16	0.281 inch
10	20	0.344 inch
12	24	0.375 inch
14	28	0.438 inch
16	30	0.469 inch
18 - 20	36	0.531 inch
21 - 24	42	0.625 inch
30	48	0.688 inch
36	54	0.781 inch
42	60	0.844 inch
48	66	0.938 inch

- b. The wall thickness shown above shall be increased to the nearest standard size.
- c. The Contractor shall increase casing pipe wall thickness if required due to jacking force load and/or length.
- d. Where carrier pipe nominal diameter is greater than 48 inches, then minimum casing pipe diameter (O.D.) shall be great enough to provide a minimum 3 inch radial clearance between the casing pipe and the "bell" O.D. of the carrier pipe. Thickness design shall be calculated by a professional engineer licensed in the state of Louisiana and submitted to the Owner for approval.
- e. Steel casing pipe sizes shown on the Drawings and listed in the table above are minimum sizes. Larger casing pipe may be provided to facilitate the installation, at no additional cost to the Owner. The thickness of steel casing pipe shall be of

sufficient thickness and axial strength to withstand the forces to be encountered during the jacking process. Steel casing pipe shall be of the minimum length as shown on the Drawings.

817-2.3 Carrier Pipe (Within Casing): The carrier pipe shall be the same material as the sanitary sewer pipeline, unless otherwise directed by Engineer. All pressure carrier pipes shall be restrained jointed in the casing.

817-2.4 Grout Holes: For casing pipes larger than 36 inches in diameter, Contractor may choose to furnish casing pipe with 2-inch diameter threaded grout holes or nipples at centerline and crown for pressure grouting. Spacing of grout holes shall not exceed 5 feet.

817-2.5 Grout for Filling Voids Outside of Casing Larger than 36 Inches in Diameter: Neat cement grout with a minimum compressive strength of 500 psi.

817-2.6 Welding of Casing Pipe:

- a. Connect each section of the casing with a full penetration butt weld around the entire circumference of the joint, to achieve a water tight joint. Welding requirements shall be in accordance with ANSI/AWWA C206, and develop the full strength of the casing wall. Welding procedures shall be required for, at a minimum, longitudinal and girth or special welds for pipe cylinders, casing joint welds, reinforcing plates, and grout coupling connections.
- b. Welding shall be done by skilled welders, welding operators, and tackers who have had adequate experience in the type of materials to be used. Welders shall be qualified under the provisions of ANSI/AWS D1.1 by an independent local, approved testing agency not more than 6 months prior to commencing work on the casing or pipeline. Machines and electrodes similar to those used in the Work shall be used in qualification tests. The Contractor shall be responsible for all material and bear the expense of qualifying welders.

817-2.7 Casing Spacers: Casing spacers shall be sized sufficiently to provide a minimum clearance of two (2) inches between outside of carrier pipe bells or couplings and inside of casing. The spacers shall consist of the following components:

- a. Spacer Band Material: Minimum 14-gauge steel band of either Type T-304 stainless steel or Carbon steel coated with fusion bonded epoxy or PVC coating.
- b. Spacer Liner Material: Ribbed liner of PVC or EPDM rubber designed to overlap the edges of the spacer band and prevent slippage. Liner shall have a minimum thickness of 0.090 inches and a hardness of 85-90 durometer "A".
- c. Spacer Width: As recommended by spacer manufacturer for the specific application. Minimum width shall be 8 inches. Manufacturer's approval in writing shall be required for installations exceeding 300 feet in length, carrier pipes in excess of 48 inches in diameter or multiple carrier pipes in casing.
- d. Spacer Risers and Runners must be:
 1. Risers must be minimum 10-gauge steel risers of same material and requirements as spacer band. Risers shall be MIG welded to spacer

band and prior to coating. Risers must be suitable for supporting the weight of carrier pipe.

2. Runners shall be manufactured of an abrasion resistant material having a low coefficient of friction (0.1 to 0.6) and designed to support the carrier pipe without damage or excessive wear. Runner material shall be of glass reinforced polyester or nylon and have a minimum compressive strength of 18,000 psi (ASTM D 695).

- e. All hardware and fasteners shall be stainless steel.
- f. Hardwood skids shall NOT be used in place of manufactured casing spacers.
- g. Fill material is not required in the annular space.

817-2.8 Casing End Seals: End seals shall be made of synthetic rubber, conical shape, pull-on or wrap-around style with Type 304 stainless steel bands. For carrier pipe greater than 24 inches in nominal diameter the annular space between the carrier pipe and the casing pipe at the ends shall be bricked in conjunction with the end seals.

817-3 SUBMITTALS:

- a. Documentation that pipe and/or casing pipe material including the standard to which it is manufactured, outside diameter, wall thickness, joint configuration, and certificate of compliance certifying that the pipe and/or casing pipe meets these specifications.
- b. Details of casing spacers, including manufacturer's recommended spacing.
- c. Details of end seals for casing.
- d. Dewatering Plan, if required.

817-4 EQUIPMENT: Contractor shall utilize equipment and methods designed to install pipe and/or casing as shown in the Contract Documents. Operation of equipment shall be performed by qualified personnel, experienced in this type of work. Selected equipment shall be capable of accurate alignment and grade control, and shall protect against subsidence or other disturbance of ground, existing utilities, existing road surface, railroad facilities and existing structures.

817-5 PREPARATION: Confirm location of all known existing utilities prior to start of jacking/receiving pit excavation and pipe installation. The Contractor shall provide the detailed layout required to keep the bore on grade. Notify the Engineer no less than 7 working days before beginning shaft excavation. Before beginning construction of jacking/receiving pit, adequately protect existing structures, utilities, trees, shrubs, and other existing facilities. Place fencing, gates, lights, and signs, as necessary around shafts and staging areas to provide for public safety. When preparing to install casing pipe, verify casing pipe minimum wall thickness is adequate for anticipated jacking loads.

817-6 INSTALLATION:

817-6.1 Jacking/Receiving Pit: Methods of construction for jacking/receiving pits shall be such as to ensure the safety of the Work, Contractor's employees, the public, existing utilities, and adjacent property and improvements, whether public or private and shall comply with specifications in Section 801. Provide complete groundwater control for excavations at all times.

Perform jacking/receiving pit excavations using appropriate excavation or large hole drilling methods, as required. Inspect shaft/pit excavations daily to check safety of excavation and structural integrity of support system. Open excavations shall conform to all federal, state, and local requirements. Once initiated jacking operations shall continue without interruption, to prevent pipe from becoming firmly set in the embankment.

817-6.2 Lubrication of Exterior of Pipe and/or Casing: Bentonite slurry may be used to lubricate exterior of pipe and/or casing during installation. Use of water to facilitate removal of spoil is permitted; however, water jetting is not allowed.

817-6.3 Boring: The boring shall be accomplished by means of auguring to the size, line and grade shown on the Contract Documents or as directed by Engineer. The diameter of the bore shall be minimal to complete the jack and boring operations. Re-drill pilot hole when bore does not meet specifications.

817-6.4 Jacked and/or Bored Pipe and/or Casing: Bore hole diameter shall not exceed outside diameter of casing by more than one (1) inch. When unstable soil conditions are found to exist, conduct boring operations in a manner that will not be detrimental to facility being crossed.

For casing: Weld sections of casing pipe together to provide watertight joints by operators qualified in accordance with the American Welding Society Standard Procedures. These welds shall be continuous, complete joint penetration butt joint welds as required for rigid and watertight connections.

Extreme care shall be exercised by the Contractor to maintain line and grade during jacking operations, and the Contractor may be required to modify the manner in which he is conducting his jacking operation to correct any deviation when deemed necessary. Maximum vertical and horizontal line tolerance is 0.12-foot per 100 linear feet of jacked casing. A means of steering the pipe or casing must be provided to ensure allowable tolerance can be achieved. The Contractor must measure and record progress at all times to confirm that these tolerances are achieved.

If required grade tolerance has not been achieved, the Engineer may allow Contractor, if feasible, to correct carrier pipe grade using casing spacers of varying height per manufacturer's recommendations. If realignment is not within tolerance and deemed unacceptable by the Engineer, another casing pipe meeting the required grade shall be installed. The abandoned casing shall be filled with flowable fill and the ends plugged with 12-inch thick masonry plugs. If the removal of casing pipe is permitted, Contractor shall make proper provisions to prevent caving in of the earth surrounding the casing. If it is necessary to abandon a bored hole, remedial measures shall be taken by the Contractor, subject to review by the Engineer of facility being crossed. Realignment or replacement Work shall in no way result in extra cost to the Owner.

817-6.5 Monitoring of Surface Movement: Perform a preconstruction survey of road surface or railroad tracks. Contractor shall record horizontal coordinates and elevations. Mark location of where measurements were taken. Monitor movement of road surface or railroad tracks on a daily basis and provide results to the Engineer. Stop operations if movement exceeds ¼ inch and immediately notify the Engineer.

817-6.6 Grouting Jacked and/or Bored Casings: Overcutting in excess of one (1) inch shall be remedied by pressure grouting the entire length of the installation. Should appreciable loss of ground occur during jacking or boring operations, Contractor shall backpack all voids promptly. Fill all remaining voids upon completion of operations: such filling or backpacking

shall be with grout unless otherwise approved.

817-6.7 Installation of Carrier Pipe within Casing: Entire length of casing shall be installed complete and inspected and approved by Engineer before any carrier pipe is placed therein. Repair defects in casing pipe or leakage at joints. Install a minimum of three casing spacers to each length of carrier pipe in such a manner that electrical continuity will not occur between casing pipe and carrier pipe. Spacers shall be placed on each side of each joint and at 8-foot maximum spacing between joints. Check each joint makeup and pipe segment prior to pushing carrier pipe segments into casing. When the carrier pipe is a ductile iron or PVC pressure pipe install restrained joint pipe or mechanical joint with restrainers within limits of casing and jacking/receiving pit excavations on both ends, unless otherwise directed by the Engineer. Casing end seals shall be provided at the end of the casing pipe after installation of the carrier pipe.

817-6.8 Casing Pipe and Carrier Pipe Annular Space: The annular space shall be left empty, unless otherwise directed by the Engineer.

817-6.9 Removal of Jacking/Receiving Pit Support System: Remove support elements, except those required by Engineer to remain in place, from excavation. In addition, remove support elements as needed to install the pipeline. Removal of support system shall be performed in a manner that will not disturb or harm adjacent construction or facilities. Fill voids created by removal of support system with clean sand, flowable fill, or a similar fill material approved by Engineer.

817-6.10 Backfilling of Jacking/Receiving Pit: Seal jacking/receiving pit opening and backfill at shafts when no longer required. Bedding, backfill, and compaction shall be installed as specified in Section 801 for Trench Backfill. Visual inspection by the Engineer is required for approval of bedding before backfill is completed.

817-6.11 Installation of Casing by Open Cut: In specific cases, as specified in the Contract Documents or as approved by the Engineer, it may be acceptable to install a casing by open cut trenching methods. Installation of the casing shall be in accordance with Section 802. Carrier pipe installation shall be in accordance with Section 817-6.7.

817-7 MEASUREMENT:

- a. **Jacked and/or Bored Casing:** Measurement for the installation of jacked and bored casing shall be made horizontally, on a linear foot basis, for various sizes listed in the Bid Form.
- b. **Jacked and/or Bored Pipe:** Measurement for the installation of jacked and bored pipe shall be made horizontally, on a linear foot basis, for various sizes listed in the Bid Form.
- c. **Trenched Casing:** Measurement for the installation of casing by open cut trenching methods shall be made horizontally, on a linear foot basis, for various sizes listed in the Bid Form.

817-10 PAYMENT:

- a. **Jacked and/or Bored Casing:** Payment for this item shall be full compensation for all labor, materials, submittals, equipment, casing, carrier pipe, restrained joints, spacers, end seals, excavation of the jacking/receiving pits (complete in place), bedding, backfill and compaction, traffic control, disposal of excess

materials, surface restoration (including sawcutting, pavement removal, temporary surfacing, and final pavement replacement), and surveying information required in this specification. When required as specified in Section 801, special bedding and backfill material such as #57 Stone Backfill, #610 Stone Backfill, CLSM Backfill, Sand-Aggregate for Secondary Backfill, and Select Material for Backfill required for backfilling the jacking/receiving pits, it shall be considered incidental to the cost of this pay item.

- b. **Jacked and/or Bored Pipe:** Payment for this Item shall be full compensation for all labor, materials, submittals, equipment, pipe, restrained joints, excavation of the jacking/receiving pits (complete in place), bedding, backfill and compaction, traffic control, disposal of excess materials, surface restoration (including sawcutting, pavement removal, temporary surfacing, and final pavement replacement), and surveying information required in this specification. When required as specified in Section 801, special bedding and backfill material such as #57 Stone Backfill, #610 Stone Backfill, CLSM Backfill, Sand-Aggregate for Secondary Backfill, and Select Material for Backfill required for backfilling the jacking/receiving pits, it shall be considered incidental to the cost of this pay item.
- c. **Trenched Casing:** Payment for this item shall be full compensation for all labor, materials, submittals, equipment, casing, carrier pipe, restrained joints, spacers, end seals, excavation, bedding, backfill and compaction, traffic control, disposal of excess materials, and surveying information required in this specification.

817-11 PAY ITEMS:

Pipe or Casing Diameter Schedule

A = 4" Pipe	N = 27" Pipe
B = 6" Pipe	O = 30" Pipe
C = 8" Pipe	P = 32" Pipe
D = 10" Pipe	Q = 36" Pipe
E = 12" Pipe	R = 42" Pipe
F = 14" Pipe	S = 48" Pipe
G = 15" Pipe	T = 54" Pipe
H = 16" Pipe	U = 60" Pipe
I = 18" Pipe	V = 64" Pipe
J = 20" Pipe	W = 66" Pipe
K = 21" Pipe	X = 72" Pipe
L = 24" Pipe	Y = 76" Pipe
M = 26" Pipe	Z = 80" Pipe

<u>Item No.</u>	<u>Description</u>	<u>Units</u>
817001_	__" Jacked and Bored Casing including Carrier Pipe	Linear Foot
817002_	__" Jacked and Bored Carrier Pipe	Linear Foot
817003_	__" Trenched Casing including Carrier Pipe	Linear Foot

DRAWINGS:

1. Delete EBR Parish Standard Plan 801-01 and 804-01 and replace with attached revised Standard Plan 801-01 and 804-01.

COMMENTS & QUESTIONS:

1. The casing diameter for the 244' bore with 10" sewer on Sheet C-31 is 20", while the other two shorter sewer bores (Sheets C-25 & C-26) are both 24". Will you allow 24" on the longer bore for some possible grade and/or alignment adjustments, as well as a more common casing pipe size/availability?

See revised Section 817 included in this addendum. The steel casing pipe sizes shown on the drawings are minimum sizes. In reference to this specific question larger than 20" casing pipe may be provided to facilitate the installation at no additional cost to the Owner and will be paid under item 817001J 20" Jacked and Bored Casing with Carrier Pipe.

2. Related to the bores, would you consider allowing more tolerance than 2" maximum horizontal & vertical, especially for the force main bores? After contacting several boring contractors about this project, they tell us that that level of accuracy is extremely difficult and expensive; perhaps only attainable by microtunneling.

See revised Section 817 included in this addendum.

3. We also ask that you reconsider allowing directional drilling of uncased polyethylene for the 42" casing/24" FM creek crossing on Sheet C-5. The 30' deep bore pits will be extremely difficult and expensive, especially at that location. Conversations with directional drillers indicate that the line could be drilled within roughly the same geometry; in fact it could be installed somewhat deeper than shown. In addition to reducing the pits, drilling could allow more than the current 5' clearance to the bottom of the creek channel, which we have been told would have considerable risk of collapsing the creek into the boring operation if any water were present in the canal. We could attempt to make the bore when the water level is low, but the bore will take some time and any rain that would raise the creek level during the bore could cause serious problems.

Bid as shown.

4. We rode the job site again today & would like to ask if you would consider eliminating the bore at Sta 31+28 on Sheet C-26. We do not see why that bore is needed; the small ditch it is crossing could easily be open cut. The sewer line is over 10' below the bottom of the ditch; if casing is required to protect the line in case of future excavation, the casing could be installed by open cut. In our opinion boring at this location would generate considerable expense to the City that is not justified by any benefit that we see.

Bid as shown.

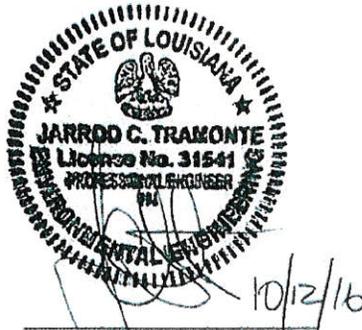
5. Regarding the steel casing called out on this job: What is the wall thickness required for each size of pipe? Does it need to be new or used material? Does it need to be bare or coated material?

See revised Section 817 included in this addendum.

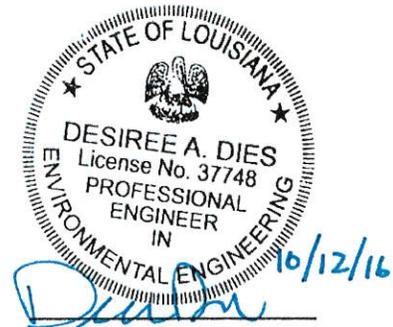
RECOMMENDED:



Durk Krone, P.E.



Jarrod Tramonte, P.E.



Desiree Dies, P.E.

APPROVED:

A handwritten signature in blue ink, appearing to read "Adam M. Smith", written over a horizontal line.

Adam M. Smith, P.E.

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Cold Planing Asphalt Pavement				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
1122100	21185	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Polymerized Asphalt Concrete Pavement				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
1151200	2424	TON	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Restore Asphalt Concrete Pavement and Base				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
1151300	6438	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Four (4) Inch Wide Thermoplastic Reflective Striping				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
1195104	5890	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Clearing and Grubbing				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2010100	1	LUMP	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Removal of Structures and Obstructions				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020100	1	LUMP	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Removal of Concrete Pavement				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020300	122	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Removal of Asphalt Surfacing and Base				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020500	6438	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Removal of Concrete Walks and Drives				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020600	800	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Removal of Concrete Curb and Gutter				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020800	104	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Saw Cutting Concrete or Asphalt				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
2020900	14640	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 8" Portland Cement Concrete Pavement				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
5020108	122	SY	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Temporary Pavement Surfacing				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
5031000	6560	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 12" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
7010212	50	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 15" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
7010215	30	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 18" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
7010218	30	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 24" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
7010224	30	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 30" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
7010230	10	LF	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> 36" Reinforced Concrete Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
7010236	20	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> #610 Limestone Backfill				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8013100	10216	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Select Material For Backfill				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8013200	100	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Imported Clay Fill				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8013300	400	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Sand-Aggregate for Secondary Backfill				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8013500	1500	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 6.1-8')(10" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
802001D	295	LF	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Gravity Sewer Pipe (Depth 8.1-10')(10" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802002D	410	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 10.1-12')(10" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802003D	1306	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 12.1-16')(10" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802004D	1828	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 12.1-16')(12" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802004E	82	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 16.1-20')(12" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802005E	413	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Gravity Sewer Pipe (Depth 20.1-24')(12" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
802006D	81	LF	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Connections to Existing Manholes				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8023000	2	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Abandon Sewer Pipe (w/flowable fill in-place)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8028001	3	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 48" Sanitary Sewer Manholes (6.1' - 8.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8031481	2	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 48" Sanitary Sewer Manholes (8.1' - 10.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8031482	2	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 48" Sanitary Sewer Manholes (10.1' - 12.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8031483	8	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 48" Sanitary Sewer Manholes (12.1' - 16.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8031484	13	EACH	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> 48" Sanitary Sewer Manholes (16.1' - 20.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
8031485	3	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 48" Sanitary Sewer Manholes (20.1' - 24.0')				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
8031486	3	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Sanitary Sewer Drop Line (10")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
803200D	12	VF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Unrestrained Joint Sewer Force Main (8")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804000C	4741	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Unrestrained Joint Sewer Force Main (24")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804000L	8866	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Restrained Joint Sewer Force Main (8")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804040C	687	LF	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Restrained Joint Sewer Force Main (24")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
804040L	958	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Abandon Force Main (w/flowable fill in-place)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8041001	850	CY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Fittings				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8045001	16	TONS	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Plug Valve (4")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
804800A	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Plug Valve (8")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
804800C	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Air Release/Vacuum Valve (2" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
8049002	12	EACH	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Air Release/Vacuum Valve (3" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
8049003	12	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Air Release/Vacuum Valve (6" Diameter)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
8049006	2	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Force Main Tie-In (4")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804920A	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Force Main Tie-In (6")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804920B	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Force Main Tie-In (8")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804920C	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Force Main Tie-In (24")				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
804920L	2	EACH	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> 16" Jacked and Bored Casing with Carrier Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
817001H	295	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 20" Jacked and Bored Casing with Carrier Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
817001J	244	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 24" Jacked and Bored Casing with Carrier Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
817001L	64	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 42" Jacked and Bored Casing with Carrier Pipe				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
817001R	366	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Miscellaneous Work and Cleanup				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
8211101	1	LUMP	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Remove Existing Fence and Replace with New Fence				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9020101	100	LF	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Seed				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9030800	82	LB	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Fertilizer				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9030900	1760	LB	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Water				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9031000	95	MGAL	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Slab Sod				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9031500	2907	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Storm Water Pollution Prevention Plan				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9031600	1	LUMP	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Temporary Signs and Barricades				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9050100	1	LUMP	\$ _____ . _____	\$ _____ . _____

UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

<i>Description:</i> Traffic Control Officer				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9059000	1	LUMP	\$ 20000.00	\$ 20000.00
<i>Description:</i> Concrete Curb and Gutter (18" Width)				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9070218	104	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 4" Concrete Walk				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9070304	750	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 6" Concrete Drive				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9070406	50	SY	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Driveway Crossing For Sanitary Sewer Construction				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9079000	417	LF	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Mobilization				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity X Unit Price)</i>
9090100	1	LUMP	\$ _____ . _____	\$ _____ . _____

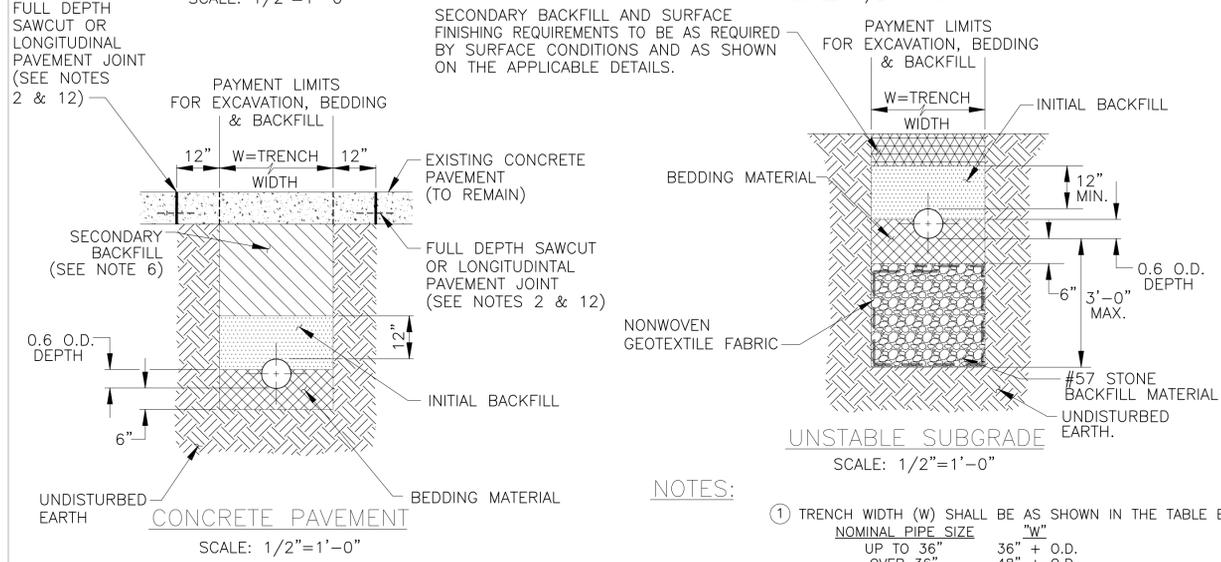
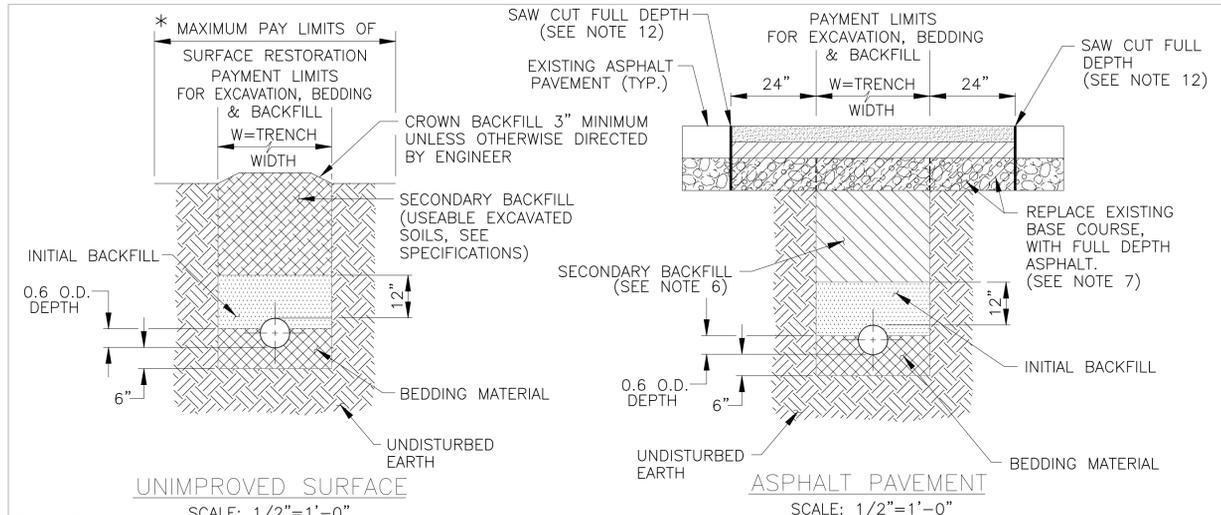
UNIT PRICE FORM

To: CITY OF BATON ROUGE
 PARISH OF EAST BATON ROUGE
 DEPARTMENT OF PUBLIC WORKS

BID FOR: JOOR ROAD/GREENWELL SPRINGS ROAD SEWER AREA
 UPGRADES

Project Number: 11-FM-MS-0023

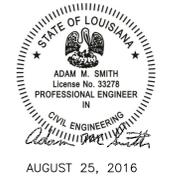
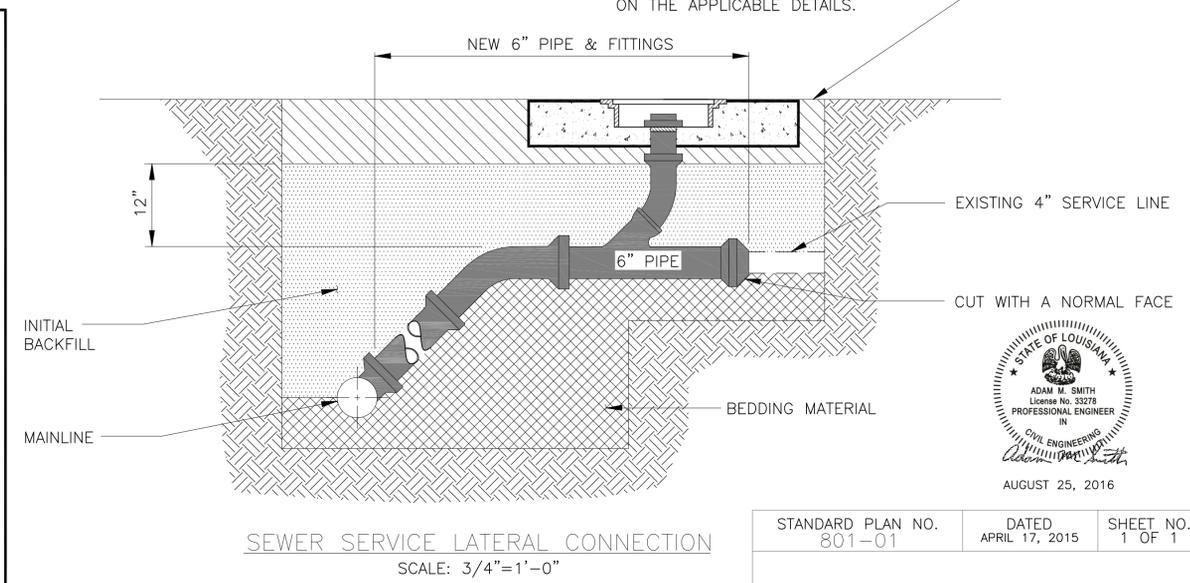
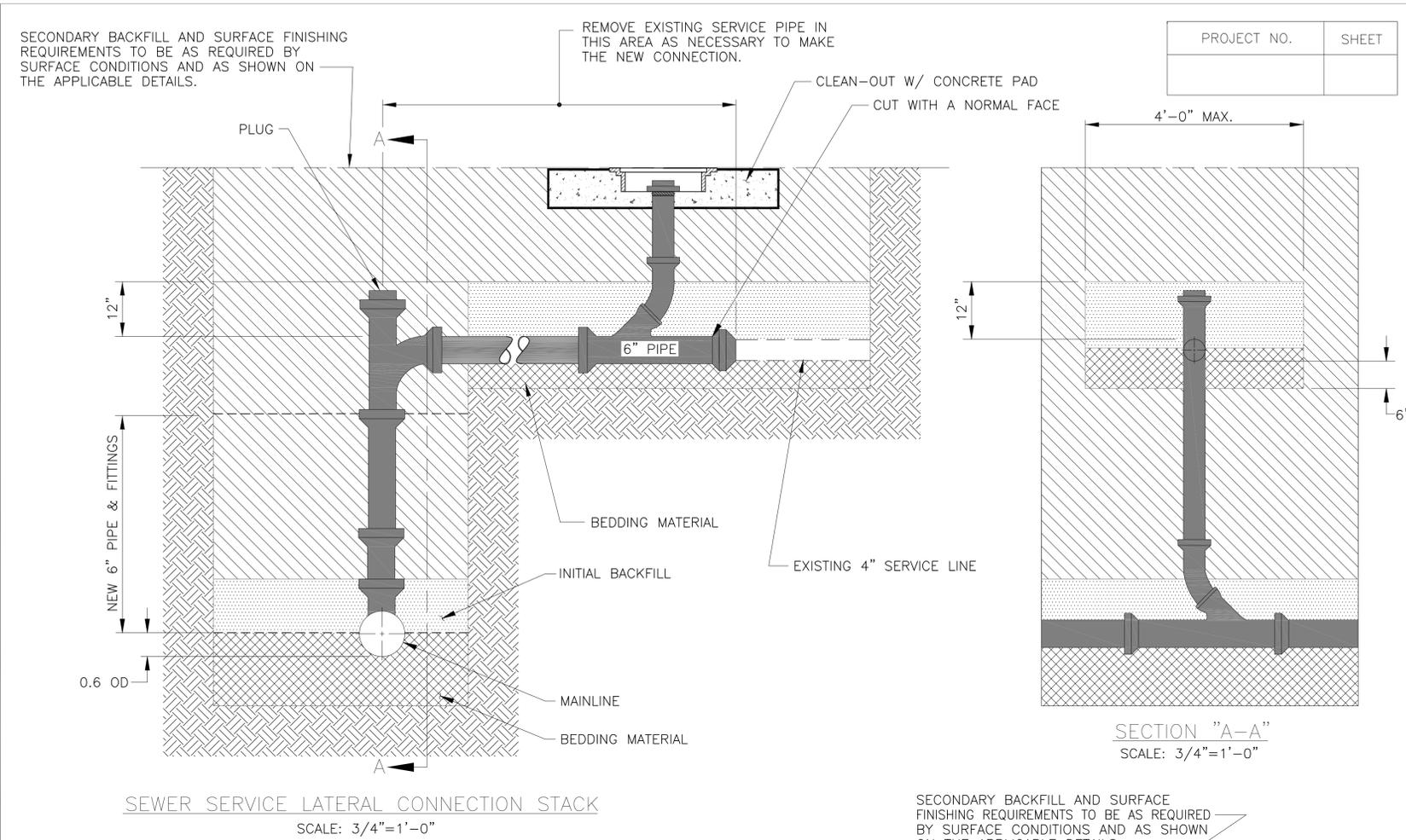
<i>Description:</i> Utility Relocation Allowance				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9900001	1	LUMP	\$ 100000.00	\$ 100000.00
<i>Description:</i> Installation of 4" Force Main and Tie-in				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9900002	1	LUMP	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> 12" Gravity Tie-in to Existing Wetwell				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9900003	1	LUMP	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Vibration Monitoring				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9900004	1	EACH	\$ _____ . _____	\$ _____ . _____
<i>Description:</i> Truncated Dome				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
9900005	6	EACH	\$ _____ . _____	\$ _____ . _____



NOTES:

- TRENCH WIDTH (W) SHALL BE AS SHOWN IN THE TABLE BELOW. PIPE SHALL BE CENTERED IN TRENCH.

NOMINAL PIPE SIZE	"W"
UP TO 36"	36" + O.D.
OVER 36"	48" + O.D.
- CONTRACTOR TO REMOVE AND REPLACE CONCRETE PAVEMENT SLABS AS SHOWN. IF CONCRETE PAVEMENT JOINT (OR EDGE OF ROAD/BACK OF CURB) IS WITHIN 2', REMOVE PAVEMENT TO JOINT LINE. PAVEMENT TO CONFORM TO STANDARD CPS 502-01 (STANDARD PAVEMENT DETAILS). REUSE EXISTING DOWELS IF NOT DAMAGED DURING PAVEMENT REMOVAL. REPLACE ALL DAMAGED DOWEL WITH 1/2" x 2'-0" DEFORMED BARS ON 2'-0" CENTERS WITH EPOXY.
- WATER SHALL NOT BE PERMITTED IN TRENCH DURING CONSTRUCTION. DEWATER AS NECESSARY.
- USE OF THE UNSTABLE SUBGRADE PIPE BEDDING DETAIL IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- GEOTEXTILE FABRIC SHALL BE OVERLAPPED 8" MINIMUM.
- IF LIMITS OF THE PIPE TRENCH FALL UNDER EXISTING ASPHALTIC OR PCC ROADWAYS AND/OR EXISTING PARKING LOTS, THE SECONDARY BACKFILL SHALL BE #610 STONE OR AS SPECIFIED IN SECTION 801 OF THE SPECIFICATIONS.
 IF LIMITS OF THE PIPE TRENCH FALL OUTSIDE OF, BUT WITHIN 10 FT. OF THE EDGE OF AN EXISTING ROADWAY, OR UNDER THE LIMITS OF A FUTURE ROADWAY TO BE CONSTRUCTED SUBSEQUENT TO SANITARY SEWER INSTALLATION; THE SECONDARY BACKFILL SHALL BE THE SAND-AGGREGATE MIXTURE. REFER TO SECTION 801 OF THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
 IN AREAS OUTSIDE THOSE DESCRIBED ABOVE, SECONDARY BACKFILL MATERIAL SHALL CONSIST OF USABLE EXCAVATED SOILS.
- ASPHALTIC CONCRETE PAVEMENT SHALL BE REPLACED WITH FULL DEPTH ASPHALT CONSISTING OF A MINIMUM 7" THICKNESS OF MIX TYPE B BASE COURSE AND 2" THICKNESS OF WEARING COURSE FOR CITY/PARISH STREETS IN ACCORDANCE WITH THE SPECIFICATIONS. MINIMUM 4" MIX TYPE B (PG64-22) FOR PARKING LOTS AND DRIVEWAYS.
- ASPHALT OR CONCRETE PAVEMENT OR UNIMPROVED GRANULAR SURFACE REMOVED IN EXCESS OF LIMITS SHOWN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- BEDDING AND BACKFILL NEEDED IN EXCESS OF LIMITS SHOWN SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- MAXIMUM PAYMENT LENGTHS FOR REMOVAL AND RESTORATION OF SURFACES SHALL BE THE SAME AS FOR THE EXCAVATION, BEDDING AND BACKFILL.
- *PAY LIMITS OF SURFACE RESTORATION ON UNIMPROVED SURFACES SHALL BE LIMITED TO THE WIDTH OF THE SEWER SERVITUDE OR AS SPECIFIED ON THE DRAWINGS AND MUST BE APPROVED BY THE ENGINEER.
- FINAL EDGES ALONG PAVEMENT REMOVAL LIMITS SHALL BE STRAIGHT, CLEAN, SOLID, VERTICAL FACES FREE FROM LOOSE MATERIAL PRIOR TO PAVEMENT RESTORATION. SAWCUTTING AT LIMITS SHOWN SHALL BE PAID ONLY ONCE PER TRENCH PATCH. ANY ADDITIONAL SAWCUTS FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- IMPROVED GRANULAR SURFACE LIMITS SIMILAR TO CONCRETE PAVEMENT LIMITS.



AUGUST 25, 2016

STANDARD PLAN NO. 801-01	DATED APRIL 17, 2015	SHEET NO. 1 OF 1
-----------------------------	-------------------------	---------------------

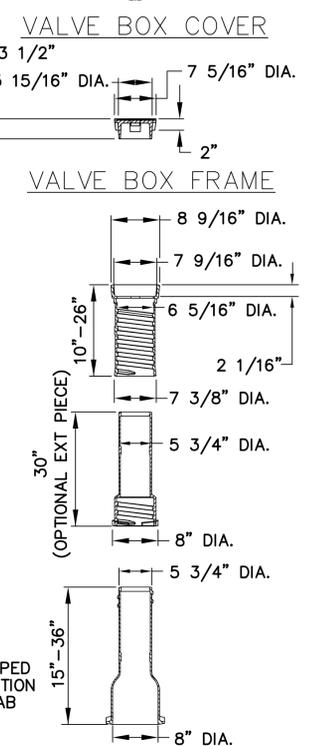
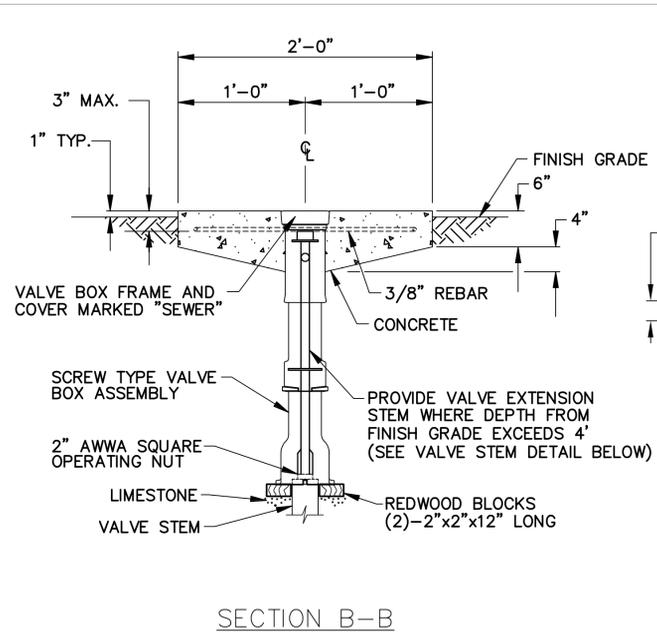
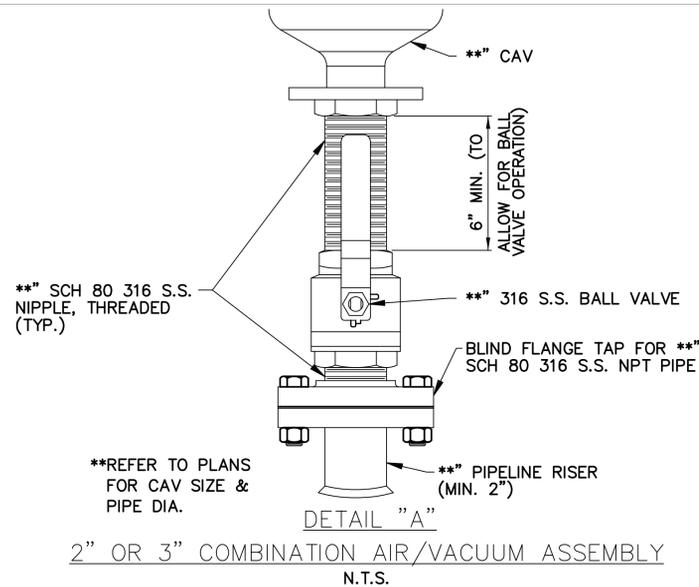
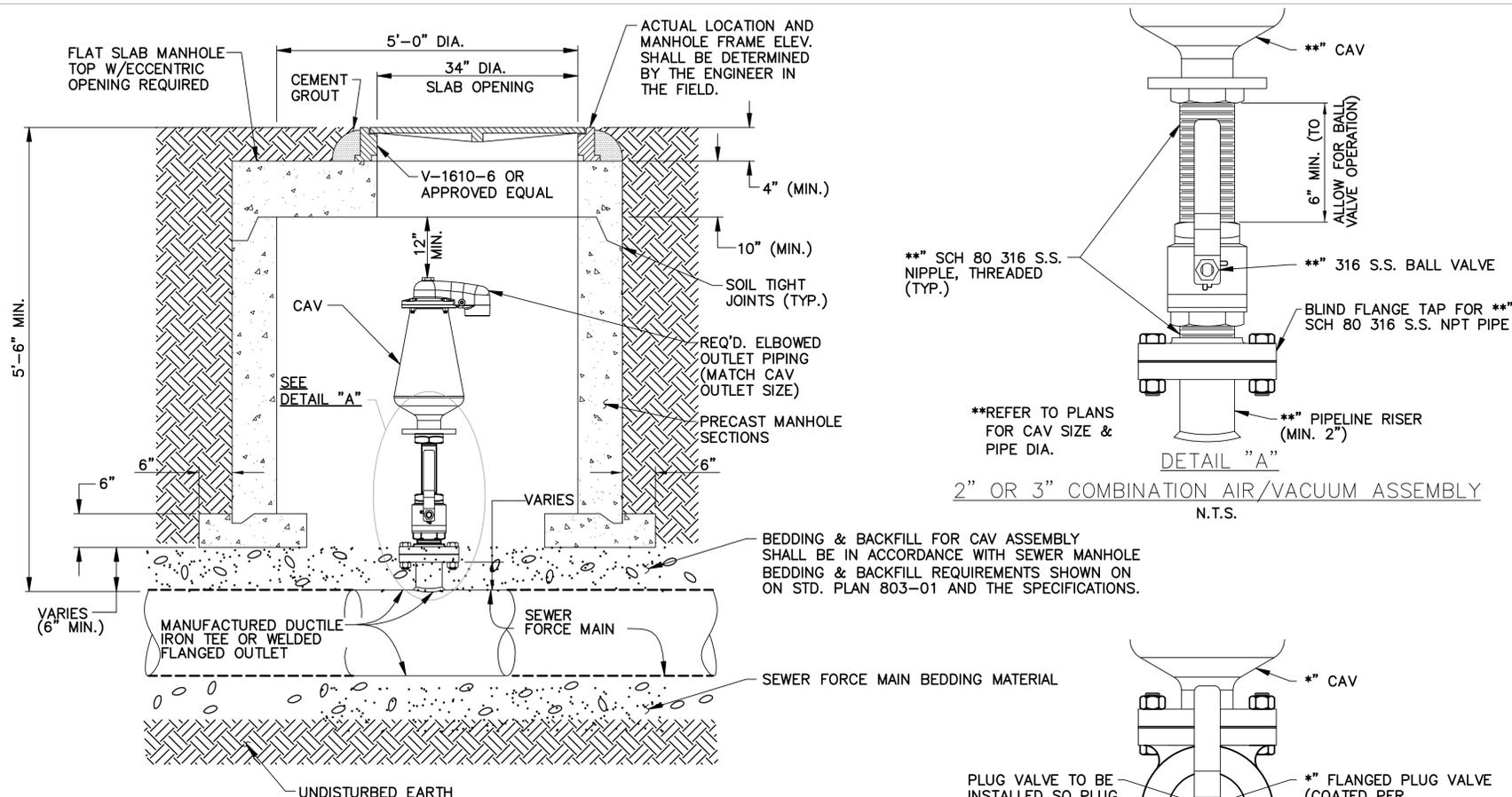
BEDDING AND BACKFILL DETAILS FOR SANITARY SEWER PIPE, FORCE MAINS AND SERVICE LINES

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB	APPROVED A. SMITH

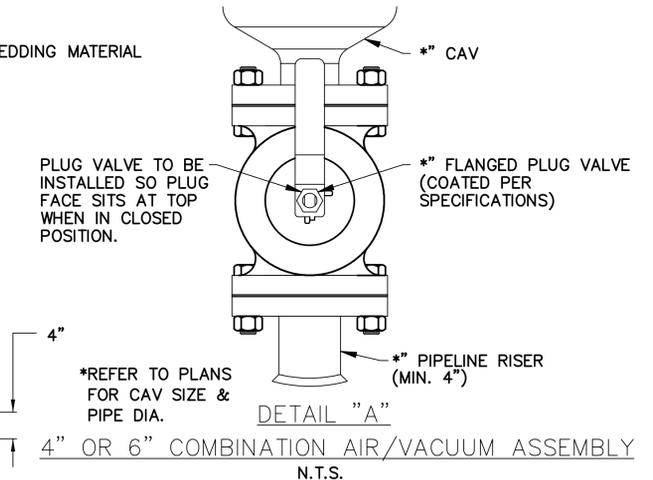
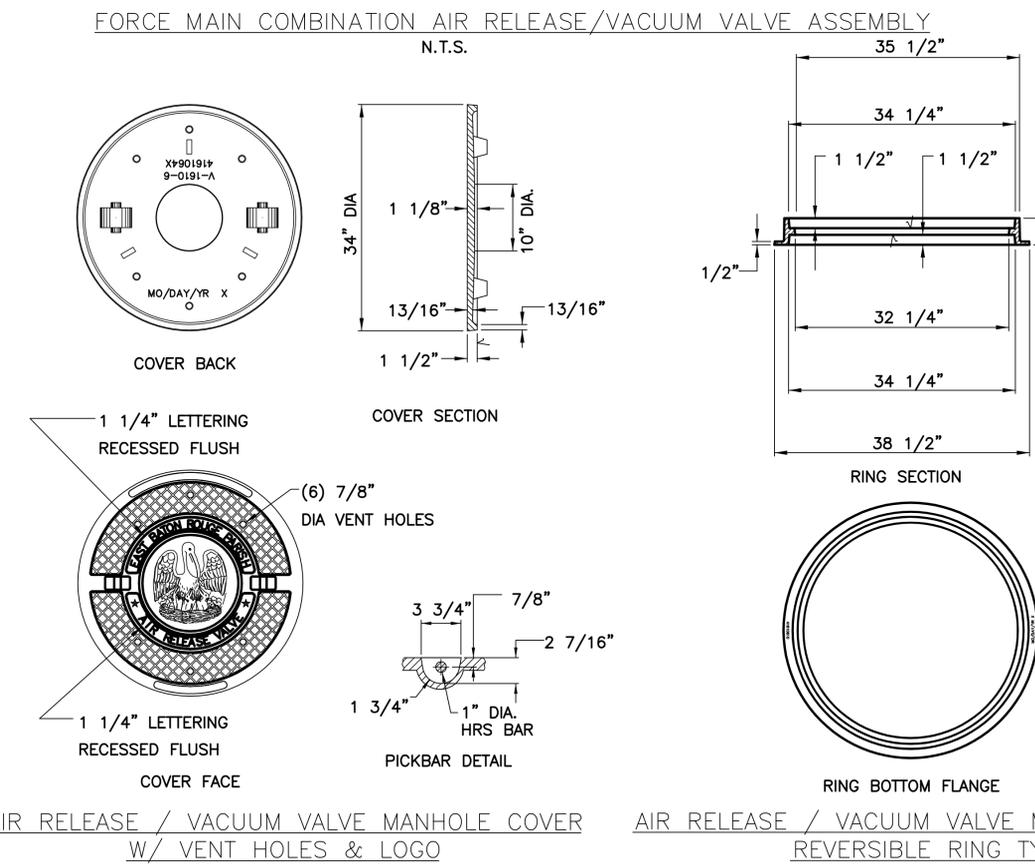
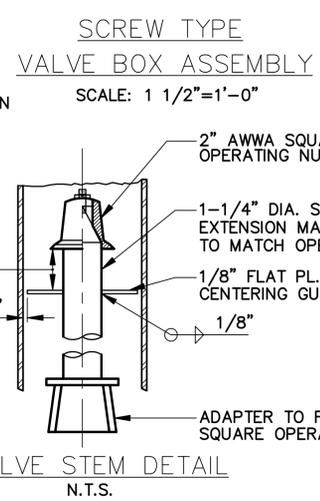
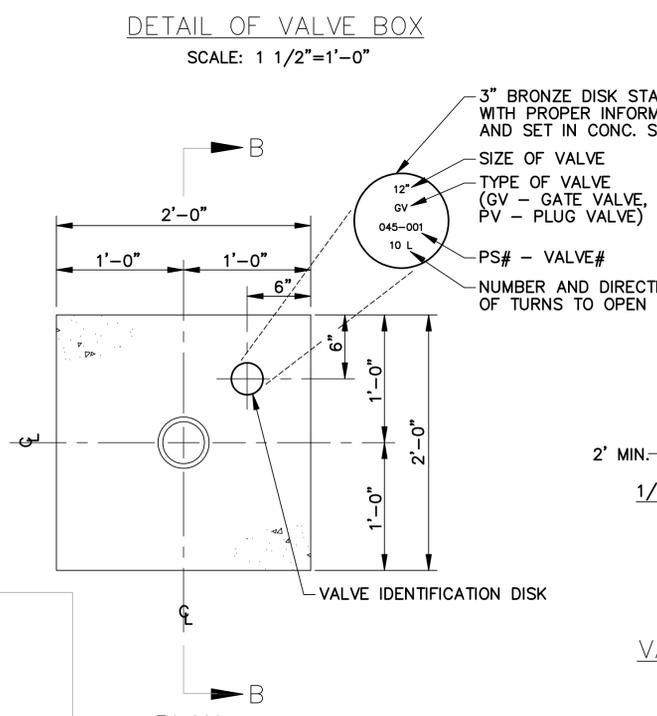
5/16	REVISED TITLE OF UNSTABLE SUBGRADE DETAIL	A.M.S.
4/15	DELETED GEOTEXTILE FABRIC EXCEPT FOR USE WITH #57 STONE AND REVISED GENERAL NOTES.	A.M.S.
4/13	REVISED STACK DETAILS AND REVISED GENERAL NOTES.	A.S.
10/12	ADDED GEOTEXTILE FABRIC ON SEC. BACKFILL	A.S.
DATE	DESCRIPTION	BY
	REVISIONS	

TYPICAL TRENCH EXCAVATION & FINAL PAVEMENT REPLACEMENT DETAILS

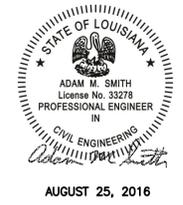
PROJECT NO.	SHEET



NOTES:
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.



NOTE:
ALL CAST IRON FRAME AND COVERS SHALL BE TRAFFIC BEARING FRAME AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGNATION : M306-05 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS. THEY SHALL HAVE AN ENVIRONMENTALLY SAFE, WATER-BASE ASPHALTIC COATING WHICH IS NONTOXIC, NONFLAMMABLE, COLORLESS, AND DRIES TO A HARD BLACK FINISH.



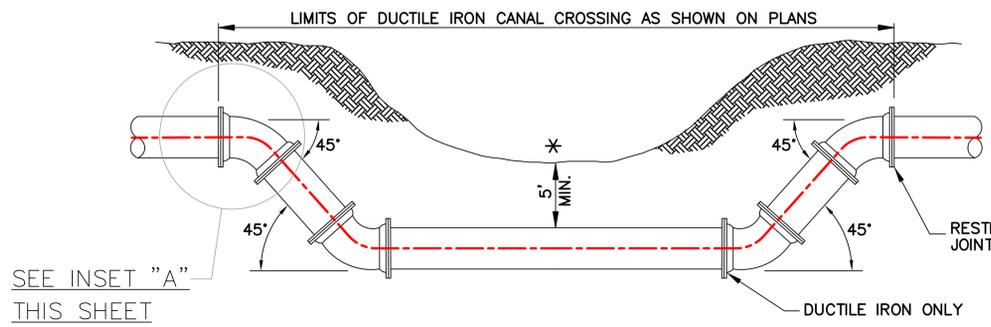
STANDARD PLAN NO. 804-01	DATED AUGUST 1, 2011	SHEET NO. 1 OF 3
-----------------------------	-------------------------	---------------------

FORCE MAIN DETAILS

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

DATE	DESCRIPTION	BY

PROJECT NO.	SHEET

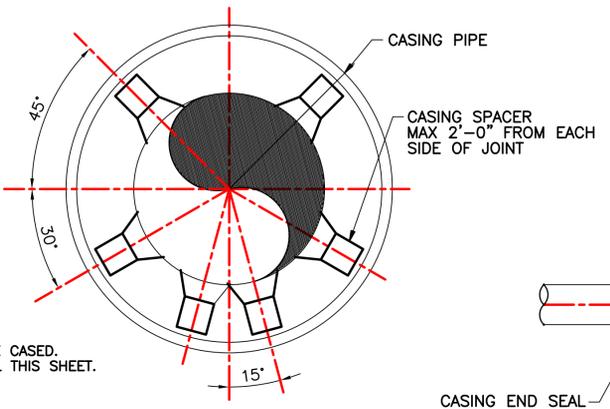


SEE INSET "A"
THIS SHEET

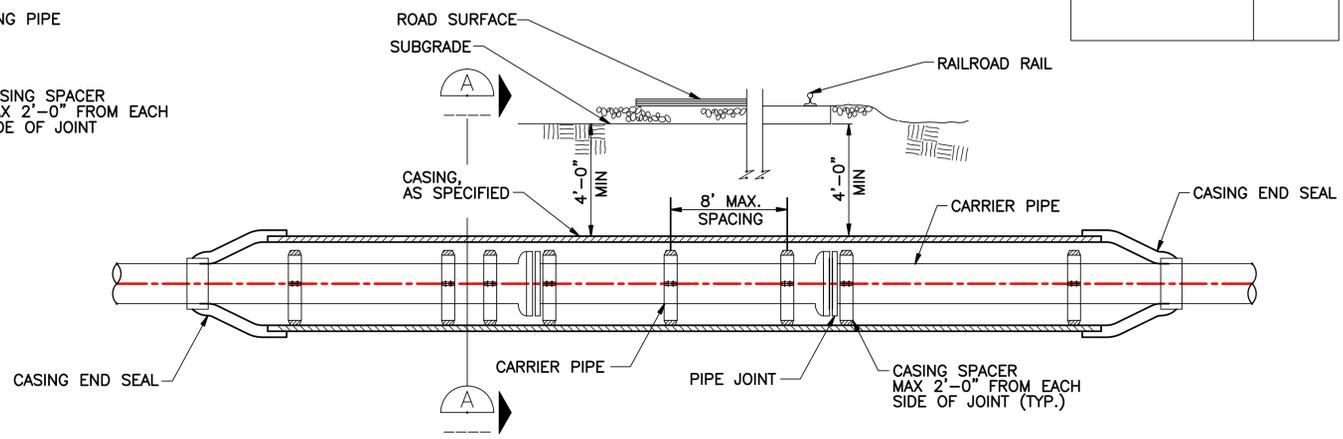
TYPICAL CANAL &/OR UTILITY CROSSING

N.T.S.

* IF COVER IS LESS THAN 5', THE PIPE SHOULD BE CASIED. REFER TO THE JACKED AND BORED CASING DETAIL THIS SHEET.



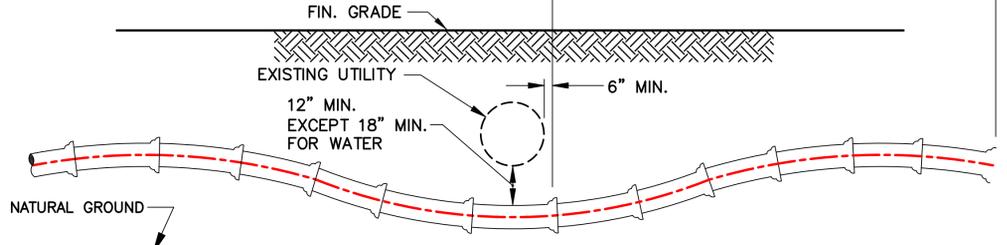
SECTION A-A
N.T.S.



JACKED AND BORED CASING DETAIL

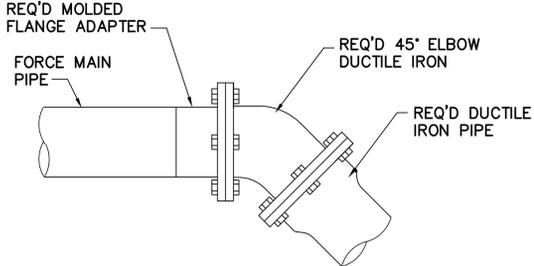
N.T.S.

CONSTRUCT UNIFORM PIPE DEFLECTION - NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED MAXIMUM DEFLECTION PER PIPE JOINT. DISTANCE AS REQUIRED



DEFLECTION TYPE UTILITY CROSSING

N.T.S.

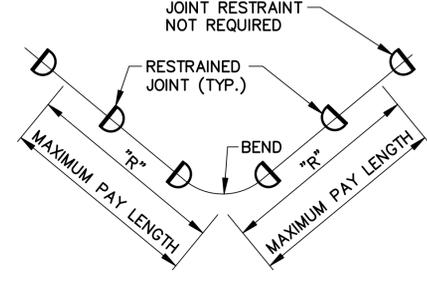


INSET "A"

DUCTILE IRON PIPE TO POLYETHYLENE PIPE CONNECTION

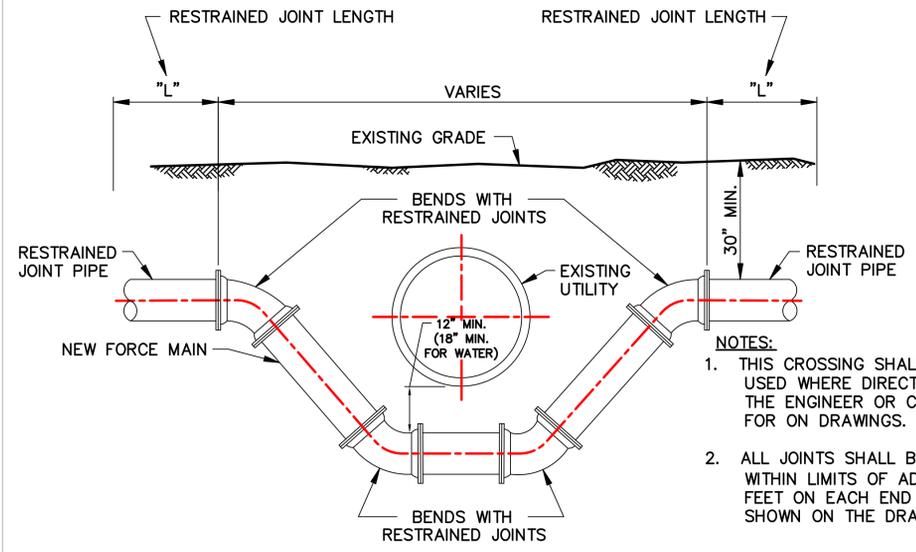
RESTRAINED JOINT NOTES:

1. RESTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS.
2. THE LENGTH OF RESTRAINED PIPE "R" ON EACH SIDE OF THE BEND SHALL BE AS SHOWN ON THE DRAWINGS.



FORCE MAIN BENDS

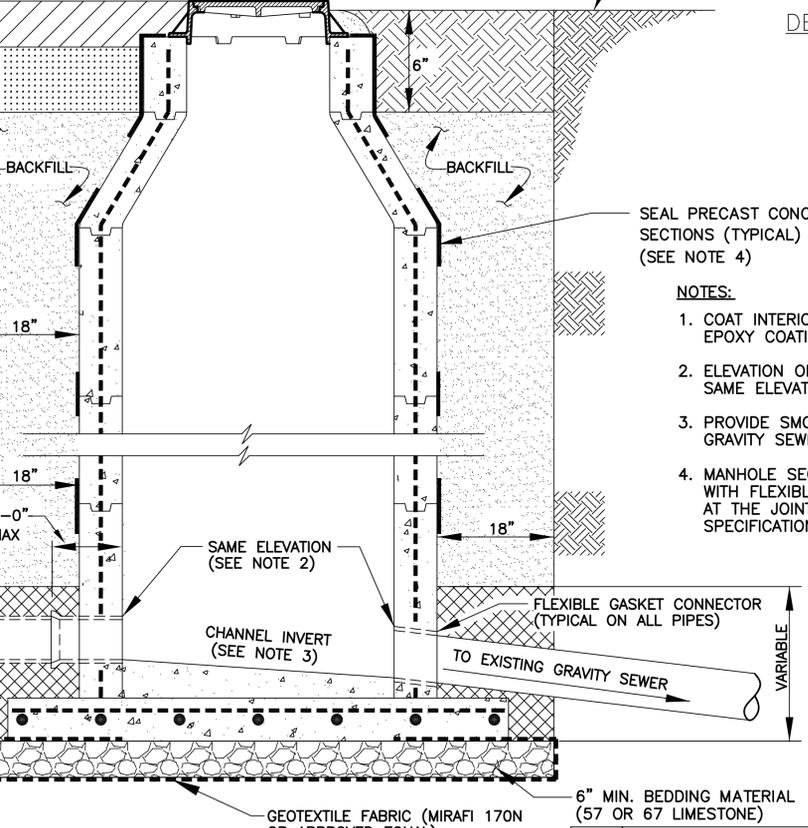
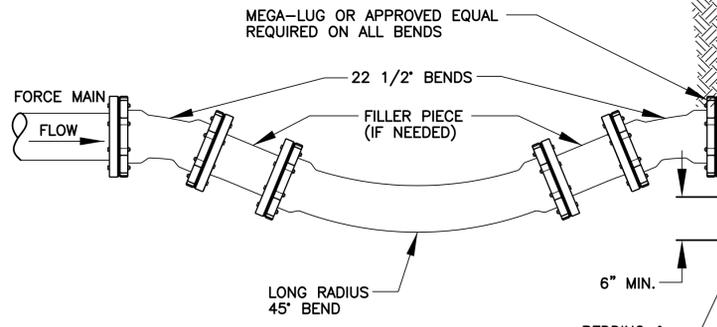
N.T.S.



TYPICAL FORCE MAIN ADJUSTMENT

N.T.S.

- NOTES:
1. THIS CROSSING SHALL BE USED WHERE DIRECTED BY THE ENGINEER OR CALLED FOR ON DRAWINGS.
 2. ALL JOINTS SHALL BE RESTRAINED WITHIN LIMITS OF ADJUSTMENT, PLUS "L" FEET ON EACH END OF ADJUSTMENT, AS SHOWN ON THE DRAWINGS.



FORCE MAIN TO MANHOLE CONNECTION

N.T.S.

NOTES:

1. COAT INTERIOR OF MANHOLE WITH APPROVED EPOXY COATING PER SPECIFICATION SECTION 822.
2. ELEVATION OF FORCE MAIN CROWN SHALL BE AT SAME ELEVATION AS THE GRAVITY SEWER CROWN.
3. PROVIDE SMOOTH CHANNEL FROM FORCE MAIN TO GRAVITY SEWER.
4. MANHOLE SECTIONS SHALL BE JOINED TOGETHER WITH FLEXIBLE GASKETS AND EXTERNALLY SEALED AT THE JOINTS IN ACCORDANCE WITH THE SPECIFICATIONS.



AUGUST 25, 2016

STANDARD PLAN NO. 804-01	DATED AUGUST 2016	SHEET NO. 2 OF 3
-----------------------------	----------------------	---------------------

FORCE MAIN DETAILS

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

5/16	ADDED GEOTEXTILE TO BEDDING & REVISED NOTE 4	A.M.S.
DATE	DESCRIPTION	BY
	REVISIONS	