



## ST. TAMMANY PARISH

MICHAEL B. COOPER  
PARISH PRESIDENT

**June 17, 2026**

Please find the following addendum to the below-mentioned BID.

**Addendum No.:** 1

**Bid#:** 26-32-2

**Project Name:** Utility Point of Repair

**Bid Due Date:** Tuesday, June 23, 2026

### GENERAL INFORMATION:

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1. **MUNICIPAL AND PUBLIC WORK CONSTRUCTION** has been added as a qualifying classification
2. Contractor's Errors and Omissions is not required and has been removed from the Insurance Requirements.

### QUESTIONS & ANSWERS:

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Question 1. Do proposal Items 2007 through 2013 on pages 6 and 7 include any valves?

**Answer 1.** No. Measurement and payment of stainless-steel tapping sleeve are covered by bid items 2007 through 2013. Payment shall constitute compensation for complete installation of tapping sleeves, including tap. Valves shall be separately paid under the respective bid items in Sections 3 and 4.

Question 2. Using proposal Item 2009 as an example, is this interpreted as a tapping sleeve for an 8-inch valve and attached to a pipe that is at least 8 inches in diameter but could be as large as 16 inches in diameter?

**Answer 2.** The sizes denoted for tapping sleeves are based on the diameter of the water main or sewer force main to be tapped and connected to. For example, if a 4" water main will connect to an existing 12" water main, payment will be made under "FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 12" X ALL SIZES".

Question 3. Proposal Item 3070 on page 19 has a quantity of 4 and a unit measure of EA. Is this correct?

**Answer 3.** Line item has been corrected to a quantity of 400 and a unit measure of Linear Feet.



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Question 4. In general, where the proposal form uses the notation of “HPDE”, should this read “HDPE”?

Answer 4. The approved by pipe material is high-density polyethylene (HDPE).

Question 5. If the contractor must tie into a water main or sewer force main and a tapping sleeve and valve is not used, how will payment be made for the tie in?

Answer 5. Tie-ins on water mains and sewer force mains not using a tapping sleeve shall be done with the appropriate ductile iron fittings, valves, and other required appurtenances. Payment for these items shall be made in accordance with applicable specifications in the sections

Question 6. Proposal Items 4062 and 4063 on page 33 use the language “Up 2” Pipe”. This language is repeated in the specifications for this item of work. Is this “Up to 2” Pipe” diameter?

Answer 6. Bid items 4062 and 4063 for long and short side water service connections are for polyethylene (PE) water service lines up to 2” in diameter.

Question 7. Will valves only be used when new main line utilities are installed? If not and a valve is installed into an existing water or sewer force main will a point repair pay item also be used to install the valve?

Answer 7. A combination of applicable items shall be used to install new valves on existing sewer or water mains. The combination of bid items shall be mutually agreed upon by the contractor and St. Tammany Parish prior to proceeding with the repair. Payment for these items shall be in accordance with the applicable specification sections.

Question 8. The specifications for proposal item 3102 “Resetting Existing Manhole Rings & Covers” is unclear. Are the rings riser rings? Are the rings flaring rings attached to the structure? Is the cost to remove or replace any pavement included with this item?

Answer 8. This item is for resetting and resealing existing manhole covers and supporting frame on existing manholes. Payment for precast concrete riser rings or bricks required to reset the manhole cover and supporting frame to the correct grade shall be made under the “ADJUSTING SEWER MANHOLE” item. Payment for removal and replacement of pavement shall be made under the applicable bid items

Question 9. Are the valves for fire hydrants paid for under the “Valve” items?

Answer 9. Yes, an isolation valve as shown on the fire hydrant detail shall be paid separately under the applicable item.



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Question 10. Will adapters and transition couplings be paid for under proposal item 2014 “Ductile Fittings & Accessories All Types All Sizes”? For example, HDPE to PVC adapters / Couplings.

Answer 10. There shall be no direct payment for Harvey adapters, transitional couplings or similar adapters required to connect HDPE pipes to other dissimilar pipe materials.

Question 11. Please add another 24 hours to the requirement of mobilizing on a task order in 72 hours. It now takes 72 hours for a LA One Call ticket to take effect, moving on a job before the LA One Call ticket is processed is not a reasonable request.

Answer 11. The contractor shall submit his utility locate request to Louisiana One Call (811) within twenty-four (24) hours of receiving a written request for service. The contractor shall be allotted seventy-two (72) hours to allow utility owners to respond to the utility locate request. The contractor shall commence repair of sewer and/or water facilities within twenty-four (24) hours of this allotment period.

### **ATTACHMENTS:**

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1. Section 12 – Technical Specifications (Revised)
2. Unit Price Form (Revised)
3. Insurance Requirements (Revised)

**End of Addendum # 1**

Section 12

Revised Per Addendum No. 1

**TECHNICAL SPECIFICATIONS**

# Technical Specifications

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# MOBILIZATION

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UPON EXECUTION OF THE CONTRACT, THE CONTRACTOR SHALL HAVE ALL NECESSARY PERSONNEL, MATERIALS, EQUIPMENT, INSURANCE, BONDS AND OTHER INCIDENTALS REQUIRED BY THIS WORK. PAYMENT FOR “**MOBILIZATION**” SHALL BE MADE QUARTERLY AT THE PER EACH PRICE STATED IN THE BID FORM. PAYMENT SHALL BE MADE WITH THE FIRST PAY APPLICATION OF THE QUARTER.

THE CONTRACTOR SHALL SUBMIT HIS UTILITY LOCATE REQUEST OT LOUISIANA ONE CALL (811) WITHIN TWENTY -FOUR (24) HOURS OF RECEIVING A WRITTEN REQUEST FOR SERVICE. THE CONTRACTOR SHALL BE ALLOTTED SEVENTY-TWO (72) HOURS TO ALLOW UTILITY OWNERS TO RESPOND TO THE UTILITY LOCATE REQUEST. THE CONTRACTOR SHALL COMMENCE REPAIR OF SEWER AND/OR WATER FACILITIES WITHIN TWENTY-FOUR (24) HOURS OF THIS ALLOTMENT PERIOD. THE CONTRACTOR SHALL MOBILIZE THE APPROPRIATE CREW, EQUIPMENT AND MATERIALS TO THE SITE(S) THEREAFTER. MOBILIZATION OF PERSONNEL, EQUIPMENT AND MATERIALS TO THE SITE(S) SHALL BE PAID PER EACH UNDER “**SUPPLEMENTAL MOBILIZATION**” LINE ITEM.

IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL BE REQUIRED TO BE ON-SITE FOR AN EMERGENCY REPAIR OF SEWER AND/OR WATER FACILITIES WITHIN TWO (2) HOURS OF RECEIVING NOTIFICATION FROM THE PARISH WITH A SUPERINTENDENT OR FOREMAN TO ASSESS THE SITUATION. THE CONTRACTOR SHALL MOBILIZE THE APPROPRIATE CREW, EQUIPMENT AND MATERIALS TO THE SITE IMMEDIATELY THEREAFTER. THE CONTRACTOR SHALL PROVIDE THE CREW, EQUIPMENT AND MATERIALS NECESSARY TO WORK CONTINUOUSLY UNTIL THE REPAIR IS COMPLETE OR UNTIL DIRECTED OTHERWISE BY THE PARISH. PAYMENT FOR MOBILIZATION DURING AN EMERGENCY SHALL BE MADE UNDER THE “**EMERGENCY MOBILIZATION**” LINE ITEM.

ADDITIONAL **SUPPLEMENTAL MOBILIZATION** CHARGE WILL BE ALLOWED *ONLY* WHEN RE-MOBILIZATION IS DUE TO ACTION OF THE PARISH.

**IT IS THE CONTRACTOR’S RESPONSIBILITY TO CHECK WORK SITES PRIOR TO MOBILIZING WORK FORCE TO ENSURE SITE IS READY FOR WORK TO BE DONE. THE APPROPRIATE MOBILIZATION PAY ITEM(S) SHALL BE INCLUDED WITH OTHER APPROPRIATE PAY ITEMS REQUIRED TO COMPLETE THE REPAIRS AS APPROVED BY THE PARISH.**

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
001	MOBILIZATION	EA
002	SUPPLEMENTAL MOBILIZATION	EA
003	EMERGENCY MOBILIZATION	EA

# SECTION 1: ROADWAY AND PAVEMENT

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## **TRAFFIC CONTROL**

The contractor shall provide all materials, traffic control devices, signage, labor and equipment required for proper traffic control in accordance with all local, State and Federal laws and regulations. Traffic control devices and signage shall conform with the most current version of the MUTCD and LADOTD standard specifications and plans. All flagmen shall be trained and certified in traffic control. Contractor shall provide copies of traffic control certifications to the Parish. There shall be no direct measurement for payment for TRAFFIC CONTROL. Establishing traffic control shall be considered incidental to the respective item(s) of work.

## **FIBER-REINFORCED PCC ROADWAYS**

This item covers the furnishing of all materials and installation of Portland Cement Concrete (PCC) roadway pavements for thickness as shown.

### **Mix for 1 C.Y. of Fiber-Reinforced Concrete - PCC Roadways**

28-day strength	4000 psi
Cement (ASTM C-150, Type I/II)	4.64 sacks (436 lbs.)
Fly Ash (ASTM C-618)	1.16 sacks (109 lbs.)
Gravel (ASTM C-33, Grade A)	1775 lbs.
Sand (ASTM C-33)	1226 lbs.
Water (potable)	30 gallons (250 lbs.)
Type A Water Reducer (ASTM C-494)	16.35 lbs.
Air entrainment	5% by volume, use per manufacturers specifications
Fiber reinforcement	1.5 lbs/ CY microfibers, as specified below

The fiber reinforcement for all concrete pavement shall be the brand "Matrix Monofilament Microfiber" as manufactured by FRC Industries or prior approved equal, applied throughout the concrete mixture. The cellulose (treated or untreated), AR glass, nylon, and polyester fibers are specifically prohibited from use. The fibrillated and self-fibrillating fibers are also specifically prohibited. The fiber reinforcement shall be applied **at the plant**. The bags must be broken before mixing. Bag size shall be one (1) pound.

Damaged and/or missing dowel bars (longitudinal/transverse) and Starlugs shall be replaced with new dowel bars. 1-1/8" x 18" painted smooth dowel bars on 12" centers shall be used unless directed otherwise by St. Tammany Parish Government (Parish). The bars shall be drilled and doweled into the existing pavement by drilling 1½" holes to a depth of 9" and filling with an approved epoxy grout before insertion of the dowel bars. Any deformed bars for longitudinal joints or welded wire fabric will be incidental to the bid unit prices under this item. All costs incurred for this task will be incidental to bid unit prices under concrete paving. The bid prices shall also include adequate curing of the concrete placed and the proper sealing of contraction and expansion joints.

The Contractor is advised that the work along roadways will necessarily be done with a split-paving method. It will be important to have at least one side of the roadway open to traffic when workers are not present.

The bid prices should include all costs for labor, equipment, and materials necessary to provide finished PCC paving including curing compound, in place, as described under this item of the bid. All required jointing materials should be included in price bid under each item. The method of jointing shall be the same as the existing joints in the area of work.

The bid prices under this item shall also include cost of providing engineering/ surveying for alignment, grade, profile, survey stakes, and topography when necessary and as required to improve the roadway alignment, curb and gutter layout, drain line installation, etc. The compensation for this shall be incidental to corresponding bid items in the maintenance contract. There is no other compensation. This includes new roads, extension of existing roads, turning lanes, parking lots, bike and walking trails, etc. All layouts shall be the responsibility of the Contractor. The Contractor shall be responsible for disposal of all construction materials.

The concrete pavement shall be for cured seven (7) days unless otherwise approved by the Parish. If the Contractor uses "high early" strength concrete (3-day curing period) at his discretion, without the approval of the Parish, payment shall be made under the regular (7-day curing) concrete paving item. The Contractor shall be responsible for proper oversight and protection of the pavement during the initial curing time until the concrete is sufficiently set to resist marring or vandalism.

Roadway pavement shall be in accordance with these specifications and/or the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 601; whichever is more stringent.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1001	8" THICK PCCP, FIBER REINFORCED (IN PLACE)	SY
1002	8" THICK PCCP, HIGH EARLY FIBER REINFORCED	SY

**EXTRUDED CURBS**

The PCC mixture for curb construction shall be a minimum of 4000 psi at 28 days concrete and also provide proper workability, curb strength, and minimum contraction cracking. The PCC curbing may be placed by extruding machine or by forming and hand placement at the Contractor's option and will be bonded to holding surface in a manner approved by the Parish, which may include dowelling and/or an approved bonding agent.

The accepted quantities of curbs will be paid at the contract unit price per linear foot per type, including all labor, equipment, and materials incidental to the work.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1003	PCC ROLL-OVER CURB W/ CURB DOWELS	LF
1004	PCC BARRIER CURB W/ CURB DOWELS	LF

**ASPHALTIC PAVEMENTS**

All work and materials for construction of asphaltic pavements shall be in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 501.

The bid prices for this item shall include all cost of labor, equipment and materials necessary to provide finished asphaltic concrete pavement in place as described in the above mentioned specification manual. All survey, initial and final layout of roadway re-construction is incidental to bid items. There is no separate compensation for this work.

The accepted quantities of asphaltic concrete will be paid for at the contract unit price per ton (2,000 pound). No other type of mix will be allowed without prior approval of the Parish. Haul and/ or loading tickets will be issued for each truckload of asphalt delivered by vendor's trucks and placed on the job.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1005	BITUMINOUS HOT MIX ASPHALT	TON

**ASPHALTIC TACK COAT**

This work consists of preparing and treating existing asphaltic or concrete surface with asphaltic material in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 504.

The tack coat shall be Ultrafuse, NTSS-1HM, or other prior approved equal trackless tack. Tack shall be handled and stored per manufacturer's recommendations. The Contractor shall provide equipment for preparation of the surface to be tacked and applying the tack per manufacturer's recommendation. The surface shall be cleaned by sweeping or other approved methods. The edges of existing pavements, which will form joints with new pavement, shall be satisfactorily cleaned before tack coat is applied. The asphalt shall be uniformly applied to a clean dry surface with no bare areas, streaks or puddles using an asphalt distributor at a rate specified by the tack manufacturer.

The tack coats shall be applied in such a manner as to cause the least inconvenience to traffic. The Contractor will be permitted to apply the tack coat one (1) calendar day prior to the mixture laydown; however, when tack coat has been damaged by traffic or contaminated by dirt, dust or mud, the surface shall be cleaned and re-tacked prior to the mixture laydown at no additional cost. The tacked surfaces exposed to traffic for more than 24 hours or damaged due to inclement weather shall be re-tacked at no additional cost. The payment for the asphaltic tack coat shall be included in asphalt pay item.

**SAW CUT PAVEMENT**

The bid prices for this item shall include all costs for labor, material, and equipment necessary to machine cut the full-depth of either PCC or Asphaltic Pavements. The payment shall be paid at the unit per inch of depth per linear foot of cut. All saw cutting shall be pre-approved by the Parish and measured in the field.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1006	SAW CUT PAVEMENT	IN/LF

**REMOVE AND RESTORE COMBINATION CONCRETE CURB & GUTTER**

The bid prices should include all costs for labor, equipment and materials necessary to remove and dispose of existing combination concrete curb & gutter and the replacement of the concrete curb and gutter in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 707. All of the excavated material and broken curb shall be hauled off from the job site and disposed by the contractor in accordance with all federal, state and local regulations.

Contractor shall exercise care so that jointing materials and pavement structures adjacent to the concrete curb and gutter to be removed shall not be damaged. Any pavement structure damaged by the Contractor as a result of negligence, either willful or accidental, will be replaced at the Contractor's expense.

The PCC Mixture for curb and gutter construction shall be a minimum of 4000-psi and also will provide proper workability, curb and gutter strength, and minimum contraction cracking. The PCC curbing may be placed by extruding machine or by forming and hand placement at Contractor's option and will be bonded to holding surface in a manner approved by the Parish, which may include dowelling and/or an approved bonding agent. Joints and jointing materials conform to the requirements of the LADOTD standard details and specifications.

The accepted quantities for curb and gutter will be paid for at the contract unit price per linear foot, including all labor, equipment and materials incidental to the work.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1007	REMOVE AND RESTORE COMBINATION CONCRETE CURB AND GUTTER	LF

**PCC REMOVAL**

These items cover work generally associated with breaking up, and removing existing PCC Pavements, including curbs. Concrete shall be removed from joint to joint. **Breaking up of PCC Pavement shall be done with a pneumatic pavement breaker. Use of brute force and pounding with excavation buckets will not be an acceptable means of breaking pavement.** Where concrete to be removed has been overlaid with asphalt, the asphaltic thickness is to be added to the concrete thickness and paid as concrete removal. Should the Parish desire, the Contractor will dump the broken concrete at a designated disposal site at no additional expense to the Parish.

The accepted quantities of concrete removed shall be paid for at the contract unit price per square yard for the nominal thickness measured at the site. The bid prices should include all costs for labor, equipment, transportation and materials necessary to remove and dispose existing PCC Pavement.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1008	PCCP ROADWAY REMOVAL 8" THICK OR LESS	SY
1009	PCCP ROADWAY REMOVAL GREATER THAN 8" THICK	SY

**ASPHALT REMOVAL**

These items cover work generally associated with breaking up, and removal of an existing Asphaltic Pavement in order to eliminate a badly deteriorated and/ or failed section of roadway. **Breaking up of asphaltic pavement shall be done with a pneumatic or hydraulic pavement breaker. Use of brute force and pounding with excavation buckets will not be an acceptable means of breaking pavement.**

The accepted quantities of asphalt removed will be paid for at the contract unit price per square yard for the nominal thickness measured at the site. The bid prices should include all costs for labor, equipment, and transportation necessary to remove and dispose existing Asphaltic Pavement for thickness shown.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1010	ASPHALT REMOVAL	SY

**GRANULAR MATERIAL BASE COURSE**

The specifications for base course shall be in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Sections 301 & 1003.09. Granular material shall conform to the following requirements:

Liquid limit (maximum)      25% (percent)

Plasticity index (maximum)    6% (percent)

The granular material will be paid for by the cubic yard truck measure. The bid price shall include all costs for material, labor, equipment, hauling, placing, spreading, compacting and grading for this item. This pay item shall be used for repairs to roadway base and for patching roadway base.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1011	FURNISH AND PLACE GRANULAR BASE COURSE	CY

**LIMESTONE BASE COURSE**

The specifications for limestone shall be in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Sections 301, 1003.01, & 1003.03.1. In addition, the material shall be calcitic or dolomitic with calcium carbonate not less than 85 percent and the silica content (impurities) not to exceed 5 percent. The limestone used on asphalt pavement shoulder shall be comparable to Mexican limestone in color and gradation.

The material shall conform to the following gradation:

<u>U.S. Sieve</u>	<u>Percent Passing</u>
1 1/2"	100
3/4"	50-100
No. 4	35-65
No.40	10-32
No.200	3-15

The aggregate shall conform to LA DOTD approved materials. The fraction of stone passing the No. 40 sieve shall be non-plastic. The limestone material will be paid for by the cubic yard truck measure. The bid price shall include all costs for material, labor, equipment, hauling, placing, spreading, compacting and grading for this item. This pay item shall be used for repairs to roadway base and for patching roadway base.

**Pay Item**

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
1012	FURNISH AND PLACE LIMESTONE BASE COURSE	CY

**REMOVAL OF CONCRETE WALKS AND DRIVES**

These items cover work generally associated with breaking up and removing existing concrete sidewalks and drives. Concrete shall be removed from joint to joint, where possible. Prior to removal of the sidewalk and/or driveway, the contractor shall notify the property owner at least 24-hours prior. The bid prices should include all costs for labor, equipment and transportation necessary to remove and dispose of existing concrete walks and drives. **Breaking up of PCC Pavement shall be done with a pneumatic pavement breaker. Use of brute force and pounding with excavation buckets will not be an acceptable means of breaking pavement.** Should the Parish desire, the Contractor will dump the broken sidewalks and drives at a designated site at no additional cost to the Parish.

Upon completion of the required work, the contractor shall restore driveway and/or sidewalk access by installing temporary surfacing aggregate. Surfacing aggregate shall be paid in accordance with "FURNISH AND PLACE LIMESTONE BASE COURSE" bid item. Final replacement of concrete drives and/or sidewalks shall be paid in accordance with the respective bid items. Final restoration of concrete drives and/or sidewalks shall be completed within seven (7) calendar days of completion of the required work.

The accepted quantities of sidewalks and drives removed will be paid for at the contract unit price per square yard measured at the site.

**Pay Item**

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
1013	REMOVAL OF CONCRETE WALKS & DRIVES	SY

**FIBER-REINFORCED PCC DRIVEWAYS & SIDEWALKS**

This item covers the furnishing of all materials and installation of PCC driveway and sidewalk pavements for thickness as shown. All sidewalk and driveway work and materials shall be

in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 706.

The bid prices shall include all costs for labor, equipment, and materials necessary to provide finished PCC paving, in place, as described under this item of the proposal. The contractor shall notify the property owner at least 24-hours prior to installing replacement concrete drives and walks. All required jointing materials should be included in price bid under each item. The method of jointing shall be the same as the existing joints in the area of work.

The bid prices under this item shall also include cost of providing engineering/ surveying for alignment, grade, profile, survey stakes, and topography when necessary and as required to improve the roadway alignment, curb and gutter layout, drain line installation, etc. The compensation for this shall be incidental to corresponding bid items. There is no other compensation. All layouts shall be the responsibility of the Contractor. The Contractor shall be responsible for disposal of all construction materials.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
1014	FIBER REINFORCED 4" THICK PCC PAVING, IN PLACE FOR SIDEWALK	SY
1015	FIBER REINFORCED 6" THICK PCC PAVING, IN PLACE FOR DRIVEWAYS (OR SIDEWALKS, IF SPECIFIED IN TASK ORDER)	SY

## **SECTION 2: GENERAL WATER AND SEWER WORK**

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The price and payment for pay items in this section shall be inclusive of all labor, materials, and equipment for the prescribed work.

### **EXPLORATORY EXCAVATION**

The exploratory excavation shall include all materials, equipment, tools, labor, backfill and incidentals necessary to locate and expose existing water or sewer pipes, fittings or valves as directed by the Department of Utilities. Excavation for the purpose of the identifying other utilities within the work area as required by the State of Louisiana "Dig Laws", also known as potholing, shall be considered incidental to respective items of work. There shall no direct payment for potholing. The Contractor shall backfill the excavation and return the surface to its previous condition in accordance with the standard trench details and specifications. This item will be measured per each Exploratory Excavation completed and accepted. The replacement of pavement, sod, and other incidentals necessary to return topside to original conditions shall be paid under applicable separate bid item.

### **Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2001	EXPLORATORY EXCAVATION	EA

### **EROSION AND SEDIMENT RUN-OFF CONTROL**

The contractor shall provide all materials, labor and equipment required for proper erosion control in accordance with all local, State and Federal laws and regulations. There shall be no direct measurement for payment for EROSION AND SEDIMENT RUN-OFF CONTROL. Establishing erosion and sediment run-off control shall be considered incidental to the respective item(s) of work.

### **SHEETING, SHORING AND BRACING**

The contractor shall provide all materials, labor and equipment required for safely maintaining and securing an open excavation in accordance with all local, State and Federal laws and regulations. There shall be no direct measurement for payment for SHEETING, SHORING AND BRACING. Securing and maintaining the excavation shall be considered incidental to the respective item(s) of work.

### **WELL POINTING**

The well pointing shall be used when directed by the Parish to facilitate proper construction techniques. The well points shall include providing, setting up, operating, and removing a properly-sized pump, header pipes, and well points. If the well points are operated 24 hours a day, the motors shall be equipped with super silencers, unless otherwise approved by the Parish. The item Well Pointing (Set-Up) shall include:

1. A minimum of four (4) well points operated for a minimum period of eight (8) hours, at a maximum depth of 20 feet and 40 feet of header pipe
2. Sufficient pumping capacity to dewater the construction site

Well point pumping, when required, shall be measured and paid per day for each day of operation. A day shall be defined as a continuous twenty-four (24) hours of period.

Additional well points may be installed to dewater the construction area, as safety dictates. The header pipe shall be measured per linear foot and shall include one (1) well point for each 3 feet of header. No additional payment will be made for increased pumping capacity, if required.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2002	WELL POINTING (INITIAL SET-UP)	EA
2003	WELL POINT PUMPING	DAY

**ST. AUGUSTINE GRASS SOD/ CENTIPEDE SOD**

This work consists of furnishing, hauling, planting, rolling, watering, and maintaining live grass sod at locations directed by the Parish. The approved sod shall be either field grown or nursery grown grass. The sod should be St. Augustine or Centipede unless otherwise directed by the Parish. Furnishing, hauling, planting, rolling, and watering shall be in accordance with the Louisiana Department of Transportation & Development (LADOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 714.

Payment for this item shall be made at the contract unit price bid per square yard.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2004	ST. AUGUSTINE GRASS SOD	SY
2005	CENTIPEDE GRASS SOD	SY

**SEED & FERTILIZE (CENTIPEDE)**

This work consists of preparing seedbeds, furnishing and sowing grass seed on the areas designated by the Parish. Preparing of seedbeds shall consist of furnishing and applying fertilizer. The grass shall be centipede or an approved quick-growing species suitable to the area and season. The seeding and associated work shall be in accordance with the appropriate section of the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 717.

Payment for seeding and fertilizing shall be made at the contract unit price bid per pound.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2006	SEED & FERTILIZE (CENTIPEDE)	LB

**INSPECTION AND TESTING OF THE SEWER AND WATER SYSTEMS**

Work performed on the sewer and/or water systems shall be subject to inspection and testing by the Department of Utilities or its designated representative. The contractor shall furnish all equipment, labor, materials, and other incidentals for field testing and inspection of the work on

the sewer and/or water system. There shall be no direct measurement for payment of INSPECTION AND TESTING OF THE SEWER AND WATER SYSTEMS.

All gravity sewer mains shall be field-tested for alignment and water-tightness. Repaired and newly constructed gravity sewer mains shall undergo smoke testing to check for water-tightness. All repaired or newly constructed gravity sewer mains shall be checked for alignment and overall roundness using CCTV and/or mandrel. The Contractor shall supply all labor, equipment, material, gages, pumps, and incidentals required for testing.

All newly constructed sewer force mains and water mains shall be field-tested prior to connection to the existing system. The Contractor shall supply all labor, equipment, material, gages, pumps, and incidentals required for testing. The test pressure shall be measured at the highest point along the test section. The testing shall be conducted after backfilling has been completed and before placement of permanent surface. The testing procedure shall be as follows:

- Fill line slowly with potable water;
- Maintain flow velocity less than 2 feet per second;
- Expel air completely from the line during filling and again before applying test pressure;
- Air shall be expelled by means of taps at points of highest elevation;
- Apply test pressure;
- Measure the quantity of water that must be pumped into the line to maintain pressure within 2 PSI of the test pressure for a period of two (2) hours;
- This quantity is defined as leakage; and
- Carefully examine any exposed pipe, fittings, and joints during the test.

The following shall be determined at the discretion of the Parish.

- 1) Minimum test pressure of 150 psig unless otherwise noted.
- 2) Test duration shall be a minimum of two (2) hours.
- 3) All visible leaks are to be repaired regardless of the amount of leakage. If any test of pipe laid discloses leakage, the Contractor shall, at his own expense, locate and repair the cause of leakage and retest the line. The method of repair must be approved by the Parish.
- 4) **Scheduling of testing:** the Contractor shall **notify the Parish at least 24 hours prior to each testing.** Pipe may be subjected to pressure testing and leakage testing at any convenient time after partial completing of backfill.

#### **FURNISH AND INSTALL/ TEST/ TAP SS SLEEVE**

The install, test and tap shall include furnishing the full circle all stainless-steel tapping sleeve, brand "Mueller H-304SS", "Romac Industries SST" or approved equal, testing according to the manufacturer's recommendation and tapping the carrier pipe in a sanitary manner recognized by AWWA, and the Louisiana Department of Health & Hospitals.

The size of the tapping sleeve denotes the diameter of the water or sewer main to be tapped for connection. Valves for sewer force mains and water mains shall be paid separately in accordance with these specifications.

The payment for this work shall be made at the contract unit price bid per each and shall include all labor and materials required to complete the installation.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2007	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – UP TO 4” X ALL SIZES	EA
2008	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 6” X ALL SIZES	EA
2009	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 8” X ALL SIZES	EA
2010	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 10” X ALL SIZES	EA
2011	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 12” X ALL SIZES	EA
2012	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 14” X ALL SIZES	EA
2013	FURNISH & INSTALL/ TEST/ TAP SS SLEEVE – 16” X ALL SIZES	EA

**DUCTILE FITTINGS AND ACCESSORIES (ALL TYPES, ALL SIZES)**

Compact, mechanical joint ductile iron fittings for water and sewer mains shall conform to AWWA C153 and other applicable standards. Full-bodied, flanged ductile iron fittings for 3” diameter and larger water and sewer mains shall conform to AWWA C110. Gaskets, seals and joints for ductile iron fittings shall conform to AWWA C111. Fusion bonded epoxy conforming to AWWA C116 shall be applied to the interior and exterior of all ductile iron fittings. When approved for use by the Department of Utilities, ductile iron fittings with a cement-mortar lining maybe be used for emergency repair of water mains and sewer force mains. The cement-mortar lining shall conform to AWWA C104/A21.4 and shall be applied to the interior and exterior of the ductile iron fitting. The interior liner of ductile iron fittings used in potable water applications shall conform to all requirements governing potable water, including but not limited to NSF, AWWA, etc. All ductile iron fittings shall be free of lead per applicable state and federal regulations and industry standards such as NSF and AWWA.

Ductile iron fittings used in potable water use shall be installed in a sanitary manner recognized by AWWA, and the Louisiana Department of Health & Hospitals. Disinfection of ductile iron fittings shall in accordance with this document in addition to state and federal regulations.

All ductile iron fittings shall be adequately restrained to prevent movement. Restrainer glands required for connection of mechanical joint, ductile iron fittings to water/sewer pipe shall be constructed of ductile iron conforming to ASTM A536. Set screws, nuts, t-bolts and other fasteners on and for the restrainer gland shall be cupped, hardened and coated with a blue Teflon coating. The body of restrainer glands shall be coated with a thermoset epoxy. Nuts and bolts required for flanged ductile iron fittings shall be 316 stainless steel.

The payment for ductile iron fittings and accessories shall be made at the contract unit price bid per pound and shall include all fastener, gasket seals marking tape, testing, etc. Prior to invoice, the Contractor shall submit the manufacturer’s literature or specification sheet on the weight for each fitting used and the NSF 61 certification.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2014	DUCTILE FITTINGS AND ACCESSORIES (ALL TYPES, ALL SIZES)	LB

### **PIPE JOINT RESTRAINTS FOR WATER AND SEWER PIPE**

PVC pipe with unrestrained, bell-and-spigot joints shall be properly restrained using a split restraining harness, such as the EBAA Iron, Inc. series 1900 PV, 2800 Megalug or prior approved equal. The EBAA Iron series 1900 PV or 2800 Megalug assembly shall be cast completely of closely controlled Ductile Iron conforming to ASTM A536, latest revision, and furnished with Silicone Bronze IFI140 grade 655 bolts. All glands shall be coated with a thermoset epoxy; nuts and bolts shall be 316 stainless steel.

All pipe, fittings and restraints shall be subjected to a rigid inspection after delivery to the site and before being placed in the work. Any piece found defective by such field inspection will be rejected and shall be immediately removed from the premises. All restrained joints shall be inspected at the job site after installation. Field touch-up and repair if needed shall be made by the Contractor under the supervision and inspection of a representative of the coating supplier. Pressure testing of sewer force mains and water mains shall be in accordance with state and federal regulations, industry standards including AWWA, and requirements of this document.

There shall be no direct payment for PIPE JOINT RESTRAINTS. Pipe joint restraints and related accessories for water or sewer pipes shall be considered incidental to the respective item(s) of work.

### **TRACER WIRE, IDENTIFICATION TAPE AND UTILITY MARKERS**

Tracer wire and related accessories shall be installed with all newly constructed sewer or water mains. Tracer wire shall be 12-gauge, copper clad steel wire encased in a HDPE sheath manufactured by Copperhead Industries. Tracer wire accessories shall be part of a system manufactured by Copperhead Industries used to identify and locate buried sewer or water mains. Tracer wire and related accessories shall be installed per the manufacturer's instructions and recommendations. The color of the tracer wire and accessories shall correlate to sewer or water. Tracer wire and related accessories shall be activated and tested; failed tracer wire shall be repaired or replaced in accordance with the manufacturer's instructions at no additional cost. There shall be no direct measurement for payment for TRACER WIRE AND ACCESSORIES. Tracer wire and related accessories for water or sewer pipe shall be considered incidental to the respective item(s) of work.

The non-metallic or non-conductive (current) water and sewer lines must be installed with a non-corrosive metallic tape placed directly over and on the center of the facility for its entire length. This applies to both parallel installations and crossings. The tape must be connected to all facilities and appurtenances. The detect tape shall have a 3 inches width and the words "buried waterline" or "buried sewer" shall be printed on it along its entire length. The detect tape shall be manufactured by the Allen Systems, Inc., or approved equal.

Utility markers shall be installed on the surface at the location of all point repairs and tie-ins for sewer or water mains. Utility markers shall be UV stabile, plastic disc with an integral soil or pavement anchor manufactured by Rhino Markers. Utility markers shall be used to identify and locate buried sewer or water mains. Utility markers shall be installed per the manufacturer's instructions and recommendations. The color of the utility markers shall correlate to sewer or water. There shall be no direct measurement for payment for UTILITY MARKERS. Utility markers shall be considered incidental to the respective item(s) of work.

**REMOVAL OF EXISTING SEWER OR WATER LINES**

All existing sewer or water lines shall be removed as directed by the Department of Utilities and disposed of in accordance with all local, State and Federal laws and regulations. There shall be no direct measurement for payment for REMOVAL OF EXISTING SEWER OR WATER LINES. Removal of water or sewer pipes shall be considered incidental to the respective item(s) of work.

**FLOWABLE FILL GROUT FOR FILLING ABANDONED PIPE**

This work includes all equipment, labor, and materials to furnish and install flowable fill inside abandoned pipe. The mix design for flowable fill shall be either the brand “Rheocell® Rheofill, Mix 2” or other prior approved equal. When specified by the Parish (generally, when line is not under a roadway), air holes shall be dug every 200 feet to avoid airlocks. Flowable fill shall be in accordance with the Louisiana Department of Transportation & Development (LDOTD) Standard Specifications for Roads and Bridges, latest edition and revisions, Section 710.

The flowable fill shall be produced and delivered at a minimum temperature of 50° F. Do not place flowable fill if ambient air temperature of 35° F or less is anticipated within the 24-hour period following placement. Water shall not be added to the mixture after batching. All pipes, manholes, catch basins, and other areas not intended to be filled shall be tightly sealed prior to placement.

The payment for flowable fill shall be made per cubic yard of flowable fill placed. All preliminary testing, furnishing mix design, pump, cleanup, and other materials, equipment or labor necessary to complete the work as described in the task order shall be included in the flowable fill item and will not be paid for separately.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
2016	FLOWABLE FILL GROUT	CY

## **SECTION 3: SANITARY SEWER SYSTEM**

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The price and payment for pay items in this section shall be inclusive of all labor, materials, and equipment to construct or repair any segment of the sanitary sewer system. The sanitary sewer system shall consist of all applicable parts of manholes, sewer mains, house connections, fittings, couplings, and any other required incidentals. The work performed under these pay items shall include all excavation, trenching, shoring, dewatering, bedding, pipe laying, backfill, tie-ins to existing sewer lines, acceptance testing of mains, and all incidental work necessary for a complete and functional sewer collection system.

There will be no direct payment for the removal and disposal of sewer pipe, fittings, valves, manholes, etc., unless otherwise specified. The contractor shall be responsible for maintaining the flow of sewage during the work. There shall be no direct payment for bypass pumping. There shall be no direct payment for dewatering, sheeting and/or shoring required to complete the work. There shall be no direct payment for cleaning of new sewer mains and service connections installed by the Contractor as part of the final inspection and acceptance.

### **GRAVITY SEWER LINE**

GRAVITY SEWER LINE shall include replacement and/or extension of gravity sewer lines at the depth, distance and grade specified by the Department of Utilities. Gravity sewer lines, including service laterals, shall be constructed of polyvinyl chloride (PVC) sewer pipe featuring an integral bell-and-spigot with rubber gasket seal. PVC gravity sewer pipe with a diameter of 6 inches to 15 inches shall conform to ASTM D3034. The integral bell-and-spigot joint on PVC gravity sewer pipe shall conform to ASTM D3212, and the rubber gasket seal shall conform to ASTM F477. PVC gravity sewer pipe shall have a minimum pipe stiffness of 115 psi (SDR26) when tested in accordance with ASTM D2412. All PVC gravity sewer pipe shall be green in color with text "SEWER".

All PVC fittings shall be standard manufactured fittings that meet the current requirements of ASTM D3034 and shall be produced by the same company that furnished the PVC sewer pipe. PVC fittings shall consist of an integral bell with a factory installed "locked in" elastomeric gasket. All joints shall meet the current requirements of ASTM D3212. The spigot end of the pipe shall be factory beveled. If the pipe has been field cut, the pipe end shall be field beveled in accordance with manufacturer's instructions.

Connectors and adaptors for joining pipes of similar materials and sizes shall be Flex-Seal Shielded Adjustable repair couplings as manufactured by Mission Rubber Company, Fernco, or an approved equal. The coupling shall have a stainless-steel shear ring (shield) to prevent pipe misalignment against shear forces from soil compaction, shifting and settling, and improper backfill with a sealing "O" ring under each sealing clamp band. The repair coupling shall meet the requirements of ASTM C 1173. The payment for the shielded adjustable coupling shall be incidental and included in the bid price.

The connectors and adaptors for joining pipes of different materials and diameters shall be donuts or similar flexible couplings as manufactured by Fernco Joint Sealer Company or prior approved equal. The donuts and couplings must comply with the requirements ASTM C 1173 and/or ASTM C 425.

The Contractor shall furnish all materials, equipment, labor, and incidentals necessary to remove and install sewer gravity pipe at the depths, distance and grade lines specified by the Department of Utilities. Pipe fittings, couplings and other incidentals required to connect new gravity sewer pipe to existing sewer pipes or structures shall be considered incidental to the GRAVITY SEWER LINE pay item. There shall be no direct payment for pipe fittings, couplings or other required pieces for connection to the existing sewer system. Payment for GRAVITY SEWER LINE shall be per linear foot of pipe installed measured horizontally through manholes along the centerline of pipeline. The replacement of pavement, sod, and other incidentals necessary to return topside to original conditions shall be paid under applicable separate bid item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3001	GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH 0'-5')	LF
3002	GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH 5'-10')	LF
3003	GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH >10')	LF
3004	GRAVITY SEWER LINE (8" PIPE) (DEPTH 0'-5')	LF
3005	GRAVITY SEWER LINE (8" PIPE) (DEPTH 5'-10')	LF
3006	GRAVITY SEWER LINE (8" PIPE) (DEPTH >10')	LF
3007	GRAVITY SEWER LINE (10" PIPE) (DEPTH 0'-5')	LF
3008	GRAVITY SEWER LINE (10" PIPE) (DEPTH 5'-10')	LF
3009	GRAVITY SEWER LINE (10" PIPE) (DEPTH >10')	LF
3010	GRAVITY SEWER LINE (12" PIPE) (DEPTH 0'-5')	LF
3011	GRAVITY SEWER LINE (12" PIPE) (DEPTH 5'-10')	LF
3012	GRAVITY SEWER LINE (12" PIPE) (DEPTH >10)	LF
3013	GRAVITY SEWER LINE (15" PIPE) (DEPTH 0'-5')	LF
3014	GRAVITY SEWER LINE (15" PIPE) (DEPTH 5'-10')	LF
3015	GRAVITY SEWER LINE (15" PIPE) (DEPTH >10')	LF

**GRAVITY SEWER POINT REPAIR**

GRAVITY SEWER POINT REPAIR shall comprise of the repair and/or replacement of specific length and location of gravity sewer main, sewer service lines, and service line connections. GRAVITY SEWER POINT REPAIR shall include all materials, equipment, labor, and incidentals necessary to expose an existing sewer line, make necessary repairs, backfill, and return the surface area to conditions that existed prior to construction. This item includes the replacement of up to 14 linear feet of pipe and any fittings needed to make the repair. Payment for additional gravity sewer pipe over initial 14 linear feet shall be paid under applicable GRAVITY SEWER LINE pay items. There shall be no direct payment for sheeting, shoring and dewatering of the excavation. The replacement of pavements, sod and other incidentals necessary to return topside to original conditions shall be paid under applicable separate pay items. All materials used shall conform to the applicable sections of these specifications.

If a point repair is performed on a mainline sewer with a sewer house connection, the Contractor will be responsible for reconnecting this service line to the mainline sewer. Reconnection of the existing service line to the mainline shall be included in the GRAVITY SEWER POINT REPAIR pay item. The depth of the service line at the point of connection for each property owner shall be sufficient to permit connection to existing private sewer lines at a minimum grade of 1/8 inch per foot. The Contractor shall verify house connections during excavation. The sewer service lines shall be connected to existing private lines at the back of the sidewalk with an approved adapter. The location of installation of service lines to accommodate future development may be directed by the Parish. Lines installed for future use shall be plugged with an approved adapter behind the cleanout that can be removed without damage to the pipe bells.

Repair coupling shall be Flex-Seal Shielded Adjustable manufactured by Mission Rubber Company, Fernco, or an approved equal. The coupling shall have a stainless-steel shear ring (shield) to prevent pipe misalignment against shear forces from soil compaction, shifting and settling, and improper backfill with a sealing "O" ring under each sealing clamp band. The repair coupling shall meet the requirements of ASTM C 1173. The payment for the shielded adjustable coupling shall be incidental and included in the bid price.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3020	GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH 0'-5')	EA
3021	GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH 5'-10')	EA
3022	GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH >10')	EA
3023	GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH 0'-5')	EA
3024	GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH 5'-10')	EA
3025	GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH >10')	EA
3026	GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH 0'-5')	EA
3027	GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH 5'-10')	EA
3028	GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH >10')	EA
3029	GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH 0'-5')	EA
3030	GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH 5'-10')	EA
3031	GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH >10)	EA
3032	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH 0'-5')	EA
3033	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH 5'-10')	EA
3034	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH >10')	EA

**SEWER FORCE MAIN**

SEWER FORCE MAIN shall include replacement and/or extension of pressurized sewer lines at the depth and distance specified by the Department of Utilities. SEWER FORCE MAIN shall consist of PVC pipe with an integral bell-and-spigot joint and rubber gasket seal. PVC sewer force main pipe shall conform to ASTM D2241 or AWWA C900. All PVC pipe manufactured to ASTM D2241 standards shall have minimum pressure class of 160 psi (SDR26). All PVC pipe manufactured to AWWA C900 standards shall have minimum pressure class of 235 psi (DR18). Integral bell-and-spigot joints shall conform to ASTM D3139, and rubber gasket seals shall conform to ASTM F477. PVC pipe laid at the

location and depths determined by the Department of Utilities. All PVC pipe used for sewer force mains shall be **green** in color with text "FORCED SEWER". Joints and/or connections shall be restrained using the appropriate fittings, adapters, and restrainers. Payment for fittings and restrainers shall be in accordance with these specifications.

The excavation, shoring, dewatering, backfill, and compaction required for the installation of the force main shall be included in the linear feet bid price. The Contractor shall excavate the sewer force main trench adequately in advance of any pipe installation as to uncover potential conflicts with the sewer force main.

Where the length of force main being installed is less than 50 feet, the Contractor shall excavate the entire length of the trench. Horizontal or vertical offsets in the force main shall be constructed in conformance to the Department of Utilities Standard Details.

The installation of force main pipe shall be strictly in accordance with the manufacturer's specifications, technical data, and instructions. Proper implements, tools and facilities shall be provided and used by the Contractor for the safe and convenient prosecution of the work. All pipe, fittings, and appurtenances shall be carefully lowered into the trench piece by piece by means of a derrick, ropes, or other suitable tools or equipment in such a manner as to prevent damage to materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped into the trenches.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line. If the pipe laying crew cannot put the pipe into the trench and in place without getting earth into it, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is to be made to the adjacent pipe. During the laying operations, no debris, tools, clothing or other material shall be placed in the pipe.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3040	SEWER FORCE MAIN, 3" (PVC, SDR 26)	LF
3041	SEWER FORCE MAIN, 4" (PVC, C900 DR18)	LF
3042	SEWER FORCE MAIN, 6" (PVC, C900 DR18)	LF
3043	SEWER FORCE MAIN, 8" (PVC, C900 DR18)	LF
3044	SEWER FORCE MAIN, 10" (PVC, C900 DR18)	LF
3045	SEWER FORCE MAIN, 12" (PVC, C900 DR18)	LF
3046	SEWER FORCE MAIN, 14" (PVC, C900 DR18)	LF
3047	SEWER FORCE MAIN, 16" (PVC, C900 DR18)	LF

**FORCE MAIN POINT REPAIR**

FORCE MAIN POINT REPAIR shall comprise of repair and/or replacement of specific length and location of sewer force main, sewer service lines, and service line connections. FORCE MAIN POINT REPAIR shall include all materials, equipment, labor, and incidentals necessary to expose an existing sewer line, make necessary repairs, backfill, and return the surface area to conditions that existed prior to construction. This item includes the replacement of up to 20 linear feet of pipe and any fittings needed to make the repair. Payment for additional pressurized sewer pipe over initial 20 linear feet shall be paid under applicable SEWER FORCE MAIN pay items. There shall be no direct

payment for sheeting, shoring and dewatering of the excavation. The replacement of pavements, sod and other incidentals necessary to return topside to original conditions shall be paid under applicable separate pay items. All materials used shall conform to the applicable sections of these specifications.

If a point repair is performed on a mainline sewer with a service connection, the Contractor shall be responsible for reconnecting this service line to the mainline sewer. The Contractor shall verify service connections during excavation.

Repair clamps shall be a full-body, rigid design capable of encasing the full circumference of the damaged force main section. Only repair clamps rated for high pressure service shall be used for force main repair. The body of the repair clamp shall consist of a stainless body conforming to ASTM A240 and A480 with rubber gasket seal conforming to ASTM D2000. Rubber gasket seal shall have a grid-pattern texture. Repair clamps shall be manufactured by Ford Meter Box Co., Hymax/Mueller, or prior approved equal. Payment for full-body, stainless steel repair clamps shall be incidental and included in the bid price.

In the event the sewer force main must be offset to complete the point repair, the appropriate ductile iron fittings and restraining glands shall be used. Payment for ductile iron fittings shall be paid separately under FURNISH & INSTALL DUCTILE FITTINGS AND ACCESSORIES pay item.

**Pay Item**

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>
3050	FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH 0'-5')	EA
3051	FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH 5'-10')	EA
3052	FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH >10')	EA
3053	FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH 0'-5')	EA
3054	FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH 5'-10')	EA
3055	FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH >10')	EA
3056	FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH 0'-5')	EA
3057	FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH 5'-10')	EA
3058	FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH >10')	EA
3059	FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH 0'-5')	EA
3060	FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH 5'-10')	EA
3061	FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH >10')	EA
3062	FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH 0'-5')	EA
3063	FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH 5'-10')	EA
3064	FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH >10')	EA
3065	FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH 0'-5')	EA
3066	FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH 5'-10')	EA
3067	FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH >10')	EA

**SEWER FORCE MAIN, DIRECTIONAL DRILL**

This item shall include all labor, equipment, materials, pipe, transitional fittings and other incidental materials necessary to install sewer force main by directional drilling as indicated in the task order. A contractor shall have experience, training and necessary certifications in directional

drilling of sewer force main or similar utility pipelines. In addition to directional drilling experience, the contractor shall be trained and certified in the assembly, fusion and installation of the piping material indicated in the task order. The pipe supplier shall certify in writing that the contractor is qualified to join, lay, and install the pipe or a representative of the pipe manufacturer shall be on site to oversee the pipe joining and installation. No direct pay will be allowed for supplier certification or onsite representative.

The sewer force main installed using directional drilling methods shall consist of pipes with restrained, water-tight joints. The following pipe materials shall be used for directional drilling of sewer force mains: (1) PVC pipe with integral bell restrained joint or (2) high-density polyethylene. Sewer force main pipe shall be laid at the location and depths determined by the Department of Utilities. Joints and/or connections shall be restrained using the appropriate fittings, adapters, and restrainers. Payment for fittings and restrainers shall be in accordance with these specifications.

PVC sewer force main pipe featuring an integral bell, restrained joint design shall conform to AWWA C900 with minimum pressure class rating of 235 psi (DR18). The pipe joint shall be restrained with single spline inserted into a factory milled groove on spigot end of the pipe. Integral bell, restrained joint PVC pipe used for sewer force mains shall be green in color with text "FORCED SEWER". Connections to legacy materials shall be made using the appropriate fittings, adapters, and restrainers.

High-density polyethylene (HDPE) pipe and fittings shall be products of one manufacturer and shall conform to the latest edition of AWWA C906, ASTM D3035 and ASTM F714. The installation shall be in accordance with ASTM, AWWA and PPI procedures. The pipe exterior shall be black in color with green striping and wording stating "FORCED SEWER". Sanitary sewer pipe interior shall be light in color for internal video inspection. Connections to legacy materials shall be made using the appropriate fittings, adapters, and restrainers.

The shipping lengths of PVC or HDPE shall be assembled into one continuous length at the job site in accordance with the manufacturer's recommendations. The resultant joint shall be as strong as the intervening lengths. Each length of pipe shall be inspected and cleaned as necessary to be free of debris immediately prior to joining. The pipe lengths to be joined shall be of the same type, grade, and class compound and supplied from the same raw material supplier. The jointing of pipe and installation of outlets shall be in accordance with the pipe manufacturer's written recommendations. The installation of polyethylene pipe in areas where flotation is probable (whether on land or a subaqueous location) shall conform to manufacturer's recommendation.

The mechanical connections of the polyethylene pipe to auxiliary equipment shall be through flanged connections, which shall consist of the following:

- Polyethylene "sub end" shall be thermally butt-fused to the ends of the pipe;
- Provide ASTM A240, Type 304 stainless steel backing flange, 125-pound, ANSI B16.1 standard, and gaskets as required by the manufacturer; and
- Stainless steel bolts and nuts of sufficient length to show a minimum of three (3) complete threads when the joint is made and tightened to the manufacturer's standard.
- Re-torque the nuts after four (4) hours.

HDPE pipe shall not be crimped in any way during construction. The deflection of pipe after installation and backfilling shall not exceed five (5) percent. The ductile iron bends and fittings constructed of polyethylene or PVC shall be manufactured by the pipe manufacturer. The SDR of fabricated polyethylene bends shall be equal to SDR of connecting pipe.

When connecting sewer force mains to manholes, the appropriate rubber boot or ring water seal between pipe and manhole shall be used. The pipe shall be handled in such a manner that it is not over stressed or damaged by dragging over or dropping onto sharp and cutting objects. Ropes, fabric, or rubber-protected slings and straps shall be used when handling pipes. Chains, cables, or hooks inserted into the pipe ends **shall not be used**. Two (2) slings spread apart shall be used for lifting each length of pipe. The slings shall be positioned at butt-fused joints. The sections of the pipes with cuts and gouges exceeding 10 percent of the pipe wall thickness or kinked sections shall be removed and the ends rejoined.

The open ends of all sections of pipe shall be plugged at night to prevent animals or foreign material from entering the pipe. Stuffing cloth or paper in the open ends of pipe will not be acceptable. The piping shall be assembled in a manner that does not obstruct adjacent roadways or public activities.

The Contractor shall erect temporary fencing around the entry and exit pipe staging areas. ***No direct payment shall be made for this temporary safety fencing.*** The pipe shall be hydrostatically tested after joining into continuous lengths prior to installation and again after installation. The testing procedure shall be the same as that described in the section entitled INSPECTION AND TESTING OF THE SEWER OR WATER SYSTEM of these specifications.

The erosion prevention procedures shall be used during removal and discharge of the water. The acquisition of water for testing will be at no direct pay; however, Department of Utilities will provide water if readily available.

During the drilling, reaming, or pullback operations, the Contractor shall make adequate provisions for handling the drilling fluids or cuttings at the entry and exit pits. To the greatest extent practical, these fluids must not be discharged into the waterway. When the Contractor's provisions for storage of the fluids or cuttings on site are exceeded, these materials shall be hauled away to a suitable legal disposal site, at no direct pay. The Contractor shall conduct his directional drilling operation in such a manner that drilling fluids are not forced through the sub-bottom into the waterway. After completion of the directional drilling work, the entry and exit pit locations shall be restored to original conditions.

After the pipe is in place, cleaning pigs shall be used to remove residual water and debris. After cleaning, the Contractor shall provide and run a sizing pig to check for anomalies in the form of buckles, dents, excessive out-of-roundness, and any other deformations. The sizing pig run shall be considered acceptable if the survey results indicate that there are no sharp anomalies (e.g., buckles, gouges, and internal obstructions) greater than two (2) percent of the nominal pipe diameter, or excessive ovality greater than five (5) percent of the nominal pipe diameter. The pipe ovality shall be measured as the percent difference between the maximum and minimum pipe diameters.

The payment for directional drilling sewer force main shall include all pipe, pipe fittings, and appurtenances required and all equipment, materials, and labor necessary to completely install the pipe as required in the task order and restore the top side to original conditions. All required cleaning and testing shall also be included in this item. Measurement will be per linear foot of pipe installed.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3070	DIRECTIONAL DRILL 4" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3071	DIRECTIONAL DRILL 6" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3072	DIRECTIONAL DRILL 8" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3073	DIRECTIONAL DRILL 10" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3074	DIRECTIONAL DRILL 12" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3075	DIRECTIONAL DRILL 14" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3076	DIRECTIONAL DRILL 16" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)	LF
3077	DIRECTIONAL DRILL 4" SEWER FORCE MAIN (HDPE DR-11)	LF
3078	DIRECTIONAL DRILL 6" SEWER FORCE MAIN (HDPE DR-11)	LF
3079	DIRECTIONAL DRILL 8" SEWER FORCE MAIN (HDPE DR-11)	LF
3080	DIRECTIONAL DRILL 10" SEWER FORCE MAIN (HDPE DR-11)	LF
3081	DIRECTIONAL DRILL 12" SEWER FORCE MAIN (HDPE DR-11)	LF
3082	DIRECTIONAL DRILL 14" SEWER FORCE MAIN (HDPE DR-11)	LF
3083	DIRECTIONAL DRILL 16" SEWER FORCE MAIN (HDPE DR-11)	LF

**FURNISH AND INSTALL SEWER VALVE**

The sewer line valves shall be resilient seat gate valves complying with the requirements of AWWA C515 "Standard for Resilient-Seated Gate Valve for Water and Sewerage Systems." valves shall be Mueller or other approved equals. The valves shall be finished with a non-rising stem, 0-ring seal, standard 2-inch square, operating nut, and shall open by turning the operating nut counter-clockwise. The valve shall be interior coated with protective epoxy coating meeting AWWA C 550. The valve ends shall be flanged and/or mechanical joint as required. The mechanical joints shall be recommended by the manufacturer for use with AWWA C-900 PVC pipe. The bolts to be of type recommended by pipe supplier of material with a minimum 45,000 psi tensile strength with semi-finished heavy nuts in accordance with ANSI/AWWA CIII/A 211.11. Valves 2 inches and smaller shall be NIBCO T-113-LF, or prior approved equal, bronze gate valves with non-rising stems.

The payment for installed water valves shall be made at the contract unit price bid per each valve and shall include all testing.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3090	FURNISH & INSTALL SEWER VALVE - 3"	EA
3091	FURNISH & INSTALL SEWER VALVE - 4"	EA
3092	FURNISH & INSTALL SEWER VALVE - 6"	EA
3093	FURNISH & INSTALL SEWER VALVE - 8"	EA
3094	FURNISH & INSTALL SEWER VALVE - 10"	EA
3095	FURNISH & INSTALL SEWER VALVE - 12"	EA
3096	FURNISH & INSTALL SEWER VALVE - 14"	EA
3097	FURNISH & INSTALL SEWER VALVE - 16"	EA

**FURNISH AND INSTALL SEWER VALVE BOX (ALL SIZES AND DEPTHS)**

The valve boxes shall be of cast or ductile iron as manufactured by East Jordan Ironworks, SIGMA, Starr Products or other approved equals. The covers shall be cast or ductile iron with a designation of "SEWER" embossed on the top side and shall be of the screw down type. The valve boxes shall be the two (2)-piece type, adjustable in length and suitable for installation in roadway surfaces. Valve boxes shall have a concentric concrete ring 2" thick by 4" wide that tapers down from the inside of the ring to the outside. The valve boxes shall be installed in accordance with the Department of Utilities Standard Notes & Details.

The payment for valve boxes shall be made at the contract unit price bid per each box and shall include all labor, and materials required to complete the installation.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3101	FURNISH & INSTALL SEWER VALVE BOX (ALL SIZES AND DEPTHS)	EA

**RESETTING EXISTING MANHOLE RINGS & COVERS**

This item includes the removal and cleaning of the existing frame and cover, the exposed concrete surface to ensure a good bonding surface, resetting and grouting the ring, and resetting the cover. The existing covers and frames shall be set at the correct grade or elevation using bricks or precast concrete rings. Payment for vertical adjustments of manhole covers and frames shall be made under the applicable bid item(s). The removal and replacement of sidewalk, driveway and/or roadway pavement for resetting existing sewer manhole covers and frames shall be paid separately under the appropriate bid items. The resetting of the existing manhole rings and covers shall be paid for at the contract unit price bid per each which shall include grouting/ sealing and any other material, labor, equipment, and incidentals necessary to complete this item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3102	RESETTING EXISTING MANHOLE RINGS & COVERS	EA

**ADJUSTING SEWER MANHOLE**

If grade adjustments of existing manholes are required, frames and covers shall be removed and structure walls reconstructed as specified for new work. Frames and covers shall be cleaned and placed in good repair (or replaced, if specified). The structures may also be adjusted by means of metal adjusting rings connected to existing ring by either welding at least 30% of circumference or by using an epoxy system designed for metal – to – metal adhesion.

After removal of existing manhole cover, a suitable temporary cover shall be placed over manhole to prevent debris from entering manhole and to provide for safety of workman and the public until new manhole cover is in place. If rubble and debris fall into a "live" manhole during adjustment operations, the debris shall be removed immediately and before the Contractor leaves the site. If existing sanitary sewer manhole is equipped with an inverter pan to prevent intrusion of storm water, pan shall be removed and reinstalled after completion of manhole adjustment.

Adjusting the sewer manhole shall be paid for at the contract unit price bid per vertical foot, which shall include all material, labor, equipment, and incidentals necessary to complete this item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3103	ADJUST SEWER MANHOLE	VF

**REPAIR MANHOLE/ LINE CONNECTION**

The contractor shall provide equipment, labor, materials and other incidentals to repair and/or replace seals, boots or other connection types for pipe penetrations into an existing sewer manhole. The work shall include wrapping, installing elastic seals, grouting and testing necessary to complete this item. REPAIR MANHOLE/ LINE CONNECTION shall be paid for at the contract unit price bid per each.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3104	REPAIR MANHOLE/ LINE CONNECTION	EA

**REHABILITATE MANHOLE BENCH/ TROUGH**

The material used for construction shall be a quick setting cementitious material, and is to be mixed and applied according to manufacturer’s recommendations and shall have the following minimum requirements:

- |  |                  |
|--|------------------|
| 1. Compressive strength (ASTM C – 190) | 6 hrs. 1400 psi  |
| 2. Shrinkage (ASTM C – 596)            | 0% at 90% R.H.   |
| 3. Bond (ASTM C – 321)                 | 28 days, 150 psi |
| 4. Density, when applied               | 105 +(-) pcf     |

The repair shall be performed on all inverts with visible damage or infiltration. After blocking flow through the manhole, and thoroughly cleaning the invert, the quick setting patch mix shall be applied to the invert in an expeditious manner. The mix shall be troweled uniformly onto the damaged invert to repair the bench/ trough to ensure smooth flow without creating any ledges that will trap solid material. The finished invert surfaces shall be smooth and free of ridges. The flow may be re-established in the manhole within 30 minutes after placement of the mix.

The rehabilitation of manhole bench/ trough shall be paid at the contract unit price per each which shall include all materials, labor, incidentals, and equipment needed to construct manholes benches and troughs as specified herein and as directed by the Parish.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3105	REHABILITATE MANHOLE BENCH/ TROUGH	EA

**CLEANING OF THE MANHOLE OR WET WELL**

Prior to the rehabilitation and/or repair of a sewer manhole or wet well, the contractor shall clean the manhole or wet well. Cleaning of the manhole or wet well shall be completed in accordance with the instructions and recommendations of the manufacturer for materials used in the rehabilitation and repair of the manhole or wet well. All materials and labor required for cleaning of the manhole or wet well shall be incidental to respective Pay Item(s). There shall be no direct payment for manhole or wet well cleaning.

**FURNISH & INSTALL NEW MANHOLE RINGS & COVERS**

The manhole frames and covers shall be East Jordan Iron Works, Dews Foundry, or approved equal. Frame and cover shall weigh not less than 320 pounds for the standard type. The casting for manhole frames, covers and all other iron castings required should be tough gray iron free from injurious defects. The annular bearing planes shall be ground or machined so they will not rock or rattle when crossed by traffic. The allowance shall be made in the patterns so that grinding or machining will not reduce the thickness required. The covers shall fit the frame accurately in any position.

Furnishing and installing new manhole rings and covers shall be paid for at the contract unit price bid per each which shall include grouting/ sealing and any other material, labor, equipment, and incidentals necessary to complete this item. If roadway removal and replacement are required, they will be paid under separate items.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3106	FURNISH & INSTALL NEW MANHOLE RINGS & COVERS	EA

**FURNISH AND INSTALL SEWER MANHOLE**

The precast manholes shall conform to the requirements of ASTM C-478 and shall be furnished with Ram-Nek or an approved equal gasket. All precast manholes shall be cast with Kor-N-Seal I Boot as manufactured by Fernco, or an approved equal, for connecting sanitary sewer pipes to manholes.

All joints in precast concrete manholes shall be wrapped tightly with a 3-foot band of filter cloth. The cloth shall lap by its width. Filter cloth shall be Mirafi 700x or an approved equal. An approved non-shrink grout shall be used for grouting service lines into manholes.

For any sewer manhole where the vertical distance from the flow line of the outgoing sewer to the invert of the incoming sewer exceeds 2 feet, drop pipe shall be built for the incoming sewers.

The manhole frames and covers shall be East Jordan Iron Works, Dews Foundry, or an approved equal. Frame and cover shall weigh not less than 320 pounds for the standard type. Frame and cover shall be included in price for manhole. The castings for manhole frames, covers and all other iron castings required shall be of tough gray iron free from injurious defects. The annular bearing planes shall be ground or machined so they will not rock or rattle when crossed by traffic. The allowance shall be made in the patterns so that the thickness required will not be reduced by grinding or machining. The covers shall fit the frame accurately in any position. No steps shall be

installed in manholes. Payment for manhole frames and covers shall be paid separately under applicable pay items.

The payment for installed manholes shall be made at the contract unit price bid per vertical foot of manhole installed. The pay item for the required size and depth of manhole shall include all excavation, shoring, backfilling, testing, labor, equipment, and materials (including, but not limited to, gaskets, boots, filter cloth wrap, drop pipe, castings, risers and cones, and non-shrink grout) to complete manhole installation as specified. All 60-inch manholes are to be installed the same as 48-inch manholes.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3107	FURNISH & INSTALL 48" CONCRETE SEWER MANHOLE	VF
3108	FURNISH & INSTALL 60" CONCRETE SEWER MANHOLE	VF

**REPAIR/ ADJUST CLEANOUT**

A repair and adjustment of the necessary sewer cleanout installation shall consist of all pipe, fittings, adapters, castings and/or cover boxes. The sewer cleanouts are to be repaired as indicated on the sewer standard detail sheet, so that the sewer cleanout plug fitting and cover are flush with the grade line. The sewer cleanout frame and cover are to be adjusted flush with the grade line.

The repair/ adjust sewer cleanout shall be paid for at the contract unit price bid per each which shall include all material, labor, equipment, and incidentals necessary to complete this item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3109	REPAIR/ ADJUST CLEANOUT	EA

**INSTALLATION OF SEWER CLEANOUT**

A sewer cleanout installation shall consist of all excavation, shoring, dewatering, backfilling, pipe, fittings, adapters, and castings and/ or cover boxes. The sewer cleanouts are to be installed as indicated on the attached sewer standard detail sheet. Sewer cleanout piping is to be installed from the depth of the service lateral to the existing grade line, so that the sewer cleanout plug fitting and cover are flush with the grade line.

The installation of the sewer cleanout shall be paid for at the contract unit price bid per each, which shall include all material, labor, equipment, and incidentals necessary to complete this item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3110	FURNISH & INSTALL SEWER CLEANOUT	EA

**INSTALLATION/REPLACEMENT OF SEWER HOUSE CONNECTIONS**

INSTALLATION/REPLACEMENT OF SEWER HOUSE CONNECTIONS shall consist of all materials, labor, equipment and other incidentals required to install or replace a house connection and service line. The work to install sewer service line and house connection shall include all materials,

equipment, labor, and incidentals necessary to expose an existing sewer mainline, make necessary sewer mainline tap/connection, install pipe and fitting for service line, backfill, and return the surface area to conditions that existed prior to construction. Unless otherwise directed by the Parish, replacement of a house connection and service line shall follow the line and grade of the existing service, which will, in most cases, ensure removal of the old services from the ground. There shall be no direct payment for sheeting, shoring and dewatering of the excavation. The replacement of pavements, sod and other incidentals necessary to return topside to original conditions shall be paid under applicable separate pay items. All materials used shall conform to the applicable sections of these specifications.

Should the Contractor encounter cleanouts on the existing services during their replacement, new cleanouts shall be installed in accordance with the Department of Utilities standard notes and details. If a sewer cleanout location is in a driveway, parking lot, etc., the Contractor will install a cast iron cleanout cover and block-out flush with the finished pavement at no additional cost. The cleanout cover will be the brand "East Jordan Iron Works Model V-8504" or an approved equal.

Sewer house connections shall be paid at the unit price per each based on its relative position to the main line. The payment for sewer house connections shall include all material, labor, equipment, and incidentals necessary to complete this item.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
3111	INSTALL SEWER HOUSE CONNECTION (SHORT SIDE, UP TO 6" SERVICE)	EA
3112	INSTALL SEWER HOUSE CONNECTION (LONG SIDE, UP TO 6" SERVICE)	EA

## SECTION 4: WATER SYSTEM

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The price and payment for pay items in this section shall be inclusive of all labor, materials, and equipment to construct or repair any segment of the water system. The water system shall consist of all applicable parts of manholes/valve boxes, water mains, water services connections, valves, fire hydrants, fittings, and any other required incidentals. The work performed under these pay items shall include all excavation, trenching, shoring, dewatering, bedding, pipe laying, backfill, tie-ins to existing water system, acceptance testing of mains and appurtenances, and all incidental work necessary for a complete and functional water system. All materials used in construction and repair to water system shall be installed, disinfected and tested in accordance with the Specifications.

All pipe, fitting and accessories manufactured of PVC, Ductile Iron, Stainless Steel and HDPE shall meet all applicable NSF 61 requirements. All chemicals used in disinfecting the water pipe and fittings shall meet all applicable NSF 60 requirements.

There will be no direct payment for the removal and disposal of water pipe, fittings, valves, manholes/valve boxes, etc., unless otherwise specified. There shall be no direct payment for testing and disinfection of new water mains, service connections and appurtenances installed by the Contractor.

### **DISINFECTION OF WATER MAIN AND APPURTENANCES**

After the water main has been completed and a satisfactory hydrostatic test has been made, the Contractor shall disinfect the water mains. The mains shall be thoroughly flushed before introduction of the chlorinating materials.

All new mains and repaired portions of, or extensions to, existing mains shall be chlorinated in accordance with AWWA C651 *Disinfecting Water Mains* requirements so that a chlorine residual of not less than 50 ppm remains in the water after 24 hours standing in the pipe.

- A. Rate of application- water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine dose applied to the water entering the newly laid pipe shall produce a residual at least 25 ppm after 24 hours standing.
- B. Prevention of reverse flow - valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supply water. Check valves may be used if desired.
- C. Retention period - treated water shall be retained in the pipe long enough to destroy all non-spore-forming bacteria. This period shall be at least 24 hours and should produce a residual not less than 25 ppm at the retention period.

If the circumstances are such that a shorter retention period must be used, the chlorine concentration shall be increased accordingly. For instance, for a contact period of one (1) hour, a 100 ppm chlorine concentration is required. Under these conditions, special care should be taken to avoid attack on pipe, valves, hydrants and other appurtenances.

- A. Chlorinating valves and hydrants - in the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is filled with the chlorinating agent.
- B. Final flushing and test - following chlorination, all treated water shall be thoroughly flushed from the newly laid pipeline at its extremities. The replacement water throughout its length shall, upon test, be proved comparable in quality to the water served the public from the existing water supply system and approved by the public health authority having jurisdiction. The Contractor shall coordinate with the Owner on the timing of the sampling giving a minimum of 24 hours advance notice. The Owner shall collect the bacteriological sample and deliver it to the Department of Health and Hospitals for analyses.
- C. Repetition of procedures - should the initial treatment fail to result in the condition specified; the original chlorination procedure shall be repeated until satisfactory results are obtained.

All pressure testing, flushing and disinfection shall be done by the Contractor at no additional compensation.

#### **WATER MAIN**

WATER MAIN shall include replacement and/or extension of water lines at the depth and distance specified by the Department of Utilities. WATER MAIN shall consist of PVC pipe with an integral bell-and-spigot joint and rubber gasket seal. PVC water main pipe shall conform to ASTM D2241 or AWWA C900. All PVC pipe manufactured to ASTM D2241 standards shall have minimum pressure class of 160 psi (SDR26). All PVC pipe manufactured to AWWA C900 standards shall have minimum pressure class of 235 psi (DR18). Integral bell-and-spigot joints shall conform to ASTM D3139, and rubber gasket seals shall conform to ASTM F477. PVC pipe laid at the location and depths determined by the Department of Utilities. All PVC pipe used for water mains shall be blue in color with text "WATER". Joints and/or connections shall be restrained using the appropriate fittings, adapters, and restrainers. Payment for fittings and restrainers shall be in accordance with these specifications.

The excavation, shoring, dewatering, backfill, and compaction required for the installation of the water main shall be included in the linear feet bid price. The Contractor shall excavate the water main trench adequately in advance of any pipe installation as to uncover potential conflicts with the water main. Should conflicts arise the Contractor shall deflect the water main above or below the conflicting utility. The Contractor shall deflect or offset the water main over sewer mains and/or sewer house connections.

The payment for this work shall be made at the contract unit price bid per linear foot and shall include all excavation, shoring, dewatering, backfilling, labor, materials, marking tape, testing, etc. required to complete the installation.

**Pay Item**

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>
4001	WATER MAIN, 3" (PVC, SDR26)	LF
4002	WATER MAIN, 4" (PVC, C900 DR18)	LF
4003	WATER MAIN, 6" (PVC, C900 DR18)	LF
4004	WATER MAIN, 8" (PVC, C900 DR18)	LF
4005	WATER MAIN, 10" (PVC, C900 DR18)	LF
4006	WATER MAIN, 12" (PVC, C900 DR18)	LF
4007	WATER MAIN, 16" (PVC, C900 DR18)	LF

**WATER POINT REPAIR**

A water point repair shall include all materials, fittings, clamps, equipment, tools, excavation, shoring, dewatering, bedding, backfill, labor, and incidentals necessary to expose existing water line (water main and service lines), make necessary repairs, backfill, and return the surface area to conditions that existed prior to construction. This item includes the replacement of up to 20 linear feet of pipe and any fittings or clamps needed to make the repair. The payment for additional replacement over 20 linear feet shall be paid under applicable separate pay items. Replacement of pavements, sod and other incidentals necessary to return topside to original conditions shall be paid under applicable separate pay items. All materials used shall conform to the applicable sections of these specifications.

If a point repair is performed on a water main with a house service connection, the Contractor will be responsible for reconnecting this service line to the water main. There shall be no separate payment for reconnection of water service line to the mainline. The Contractor shall verify house connections during excavation. The location of installation of service lines to accommodate future development may be directed by the Parish.

Repair clamps shall be a full-body, rigid design capable of encasing the full circumference of the damaged water main section. Only repair clamps rated for high pressure service shall be used for water main repair. The body of the repair clamp shall consist of a stainless body conforming to ASTM A240 and A480 with rubber gasket seal conforming to ASTM D2000. Rubber gasket seal shall have a grid-pattern texture. Repair clamps shall be manufactured by Ford Meter Box Co., Hymax/Mueller, or prior approved equal. Payment for full-body, stainless steel repair clamps shall be incidental and included in the bid price.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4011	WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH 0'-5')	EA
4012	WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH 5'-10')	EA
4013	WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH >10')	EA
4014	WATER POINT REPAIR (6" PIPE) (DEPTH 0'-5')	EA
4015	WATER POINT REPAIR (6" PIPE) (DEPTH 5'-10')	EA
4016	WATER POINT REPAIR (6" PIPE) (DEPTH >10')	EA
4017	WATER POINT REPAIR (8" PIPE) (DEPTH 0'-5')	EA
4018	WATER POINT REPAIR (8" PIPE) (DEPTH 5'-10')	EA
4019	WATER POINT REPAIR (8" PIPE) (DEPTH >10')	EA
4020	WATER POINT REPAIR (10" PIPE) (DEPTH 0'-5')	EA
4021	WATER POINT REPAIR (10" PIPE) (DEPTH 5'-10')	EA
4022	WATER POINT REPAIR (10" PIPE) (DEPTH >10')	EA
4023	WATER POINT REPAIR (12" PIPE) (DEPTH 0'-5')	EA
4024	WATER POINT REPAIR (12" PIPE) (DEPTH 5'-10')	EA
4025	WATER POINT REPAIR (12" PIPE) (DEPTH >10')	EA
4026	WATER POINT REPAIR (16" PIPE) (DEPTH 0'-5')	EA
4027	WATER POINT REPAIR (16" PIPE) (DEPTH 5'-10')	EA
4028	WATER POINT REPAIR (16" PIPE) (DEPTH >10')	EA

**WATER MAIN, DIRECTIONAL DRILL**

The water main installed using directional drilling methods shall consist of pipes with restrained, water-tight joints. The following pipe materials shall be used for directional drilling of water mains: (1) PVC pipe with integral bell restrained joint or (2) high-density polyethylene. Water main pipe shall be laid at the location and depths determined by the Department of Utilities. Joints and/or connections shall be restrained using the appropriate fittings, adapters, and restrainers. Payment for fittings and restrainers shall be in accordance with these specifications.

PVC water main pipe featuring an integral bell, restrained joint design shall conform to AWWA C900 with minimum pressure class rating of 235 psi (DR18). The pipe joint shall be restrained with single spline inserted into a factory milled groove on spigot end of the pipe. Integral bell, restrained joint PVC pipe used for water mains shall be blue in color with text "WATER". Connections to legacy materials shall be made using the appropriate fittings, adapters, and restrainers.

High-density polyethylene (HDPE) pipe and fittings shall be products of one manufacturer and shall conform to the latest edition of AWWA C906, ASTM D3035 and ASTM F714. The installation shall be in accordance with ASTM, AWWA and PPI procedures. The pipe exterior shall be black in color with blue striping and wording stating "WATER". Connections to legacy materials shall be made using the appropriate fittings, adapters, and restrainers.

The shipping lengths of PVC or HDPE shall be assembled into one continuous length at the job site in accordance with the manufacturer's recommendations. The resultant joint shall be as

strong as the intervening lengths. Each length of pipe shall be inspected and cleaned as necessary to be free of debris immediately prior to joining. The pipe lengths to be joined shall be of the same type, grade, and class compound and supplied from the same raw material supplier. The jointing of pipe and installation of outlets shall be in accordance with the pipe manufacturer's written recommendations. The installation of polyethylene pipe in areas where flotation is probable (whether on land or a subaqueous location) shall conform to manufacturer's recommendation.

The mechanical connections of the polyethylene pipe to auxiliary equipment shall be through flanged connections, which shall consist of the following:

- Polyethylene "sub end" shall be thermally butt-fused to the ends of the pipe;
- Provide ASTM A240, Type 304 stainless steel backing flange, 125-pound, ANSI B16.1 standard, and gaskets as required by the manufacturer; and
- Stainless steel bolts and nuts of sufficient length to show a minimum of three (3) complete threads when the joint is made and tightened to the manufacturer's standard.
- Re-torque the nuts after four (4) hours.

HDPE pipe shall not be crimped in any way during construction. The deflection of pipe after installation and backfilling shall not exceed five (5) percent. The fabricated bends and fittings constructed of polyethylene or PVC shall be manufactured by the pipe manufacturer. The SDR of fabricated polyethylene bends shall be equal to SDR of connecting pipe.

The pipe shall be handled in such a manner that it is not over stressed or damaged by dragging over or dropping onto sharp and cutting objects. Ropes, fabric, or rubber-protected slings and straps shall be used when handling pipes. Chains, cables, or hooks inserted into the pipe ends **shall not be used**. Two (2) slings spread apart shall be used for lifting each length of pipe. The slings shall be positioned at butt-fused joints. The sections of the pipes with cuts and gouges exceeding 10 percent of the pipe wall thickness or kinked sections shall be removed and the ends rejoined.

The open ends of all sections of pipe shall be plugged at night to prevent animals or foreign material from entering the pipe. Stuffing cloth or paper in the open ends of pipe will not be acceptable. The piping shall be assembled in a manner that does not obstruct adjacent roadways or public activities.

The Contractor shall erect temporary fencing around the entry and exit pipe staging areas. ***No direct payment shall be made for this temporary safety fencing.*** The pipe shall be hydrostatically tested after joining into continuous lengths prior to installation and again after installation. The testing procedure shall be the same as that described in the section entitled *INSPECTION AND TESTING OF THE SEWER OR WATER SYSTEM* of these specifications.

The erosion prevention procedures shall be used during removal and discharge of the water. The acquisition of water for testing will be at no direct pay; however, Department of Utilities will provide water if readily available.

During the drilling, reaming, or pullback operations, the Contractor shall make adequate provisions for handling the drilling fluids or cuttings at the entry and exit pits. To the greatest extent practical, these fluids must not be discharged into the waterway. When the Contractor's provisions for storage of the fluids or cuttings on site are exceeded, these materials shall be hauled away to a suitable legal disposal site, at no direct pay. The Contractor shall conduct his directional drilling operation in such a manner that drilling fluids are not forced through the sub-bottom into the waterway. After completion of the directional drilling work, the entry and exit pit locations shall be restored to original conditions.

After the pipe is in place, cleaning pigs shall be used to remove residual water and debris. After cleaning, the Contractor shall provide and run a sizing pig to check for anomalies in the form of buckles, dents, excessive out-of-roundness, and any other deformations. The sizing pig run shall be considered acceptable if the survey results indicate that there are no sharp anomalies (e.g., buckles, gouges, and internal obstructions) greater than two (2) percent of the nominal pipe diameter, or excessive ovality greater than five (5) percent of the nominal pipe diameter. The pipe ovality shall be measured as the percent difference between the maximum and minimum pipe diameters.

The payment for directional drilling sewer force main shall include all pipe, pipe fittings, and appurtenances required and all equipment, materials, and labor necessary to completely install the pipe as required in the task order and restore the top side to original conditions. All required cleaning and testing shall also be included in this item. Measurement will be per linear foot of pipe installed.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4031	DIRECTIONAL DRILL 4" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4032	DIRECTIONAL DRILL 6" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4033	DIRECTIONAL DRILL 8" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4034	DIRECTIONAL DRILL 10" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4035	DIRECTIONAL DRILL 12" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4036	DIRECTIONAL DRILL 16" WATER MAIN (PVC, IB-RJ C900 DR18)	LF
4037	DIRECTIONAL DRILL 1" WATER LINE (HDPE SDR9)	LF
4038	DIRECTIONAL DRILL 2" WATER LINE (HDPE SDR9)	LF
4039	DIRECTIONAL DRILL 3" WATER MAIN (HDPE DR-11)	LF
4040	DIRECTIONAL DRILL 4" WATER MAIN (HDPE DR-11)	LF
4041	DIRECTIONAL DRILL 6" WATER MAIN (HDPE DR-11)	LF
4042	DIRECTIONAL DRILL 8" WATER MAIN (HDPE DR-11)	LF
4043	DIRECTIONAL DRILL 10" WATER MAIN (HDPE DR-11)	LF
4044	DIRECTIONAL DRILL 12" WATER MAIN (HDPE DR-11)	LF
4045	DIRECTIONAL DRILL 16" WATER MAIN (HDPE DR-11)	LF

**WATER VALVE**

The water line valves shall be resilient seat gate valves complying with the requirements of AWWA C515 "Standard for Resilient-Seated Gate Valve for Water and Sewerage Systems." valves shall be Mueller or other approved equals. The valves shall be finished with a non-rising stem, O-ring seal, standard 2-inch square, operating nut, and shall open by turning the operating nut counter-clockwise. The valve shall be interior coated with protective epoxy coating meeting AWWA C550. The valve ends shall be flanged and/or mechanical joint as required. The mechanical joints shall be recommended by the manufacturer for use with AWWA C-900 or SDR26 PVC pipe. The bolts to be of type recommended by pipe supplier of material with a minimum 45,000 psi tensile strength with semi-finished heavy nuts in accordance with ANSI/AWWA CIII/A 211.11. Valves 2 inches and smaller shall be NIBCO T-113-LF, or prior approved equal, bronze gate valves with non-rising stems. All valves shall be NSF 61 certified.

The payment for installed water valves shall be made at the contract unit price bid per each valve and shall include all testing.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4051	FURNISH & INSTALL WATER VALVE - 2" AND SMALLER	EA
4052	FURNISH & INSTALL WATER VALVE - 3"	EA
4053	FURNISH & INSTALL WATER VALVE - 4"	EA
4054	FURNISH & INSTALL WATER VALVE - 6"	EA
4055	FURNISH & INSTALL WATER VALVE - 8"	EA
4056	FURNISH & INSTALL WATER VALVE - 10"	EA
4057	FURNISH & INSTALL WATER VALVE - 12"	EA
4058	FURNISH & INSTALL WATER VALVE - 16"	EA

**FURNISH AND INSTALL WATER VALVE BOX (ALL SIZES AND DEPTHS)**

The valve boxes shall be of cast or ductile iron as manufactured by Mueller, Kennedy, M & H, or other approved equals. The covers shall be cast or ductile iron with a designation of "Water" embossed on the top side and shall be of the screw down type. The valve boxes shall be the two (2)-piece type, adjustable in length and suitable for installation in roadway surfaces. Valve boxes shall be installed flush with the natural ground and not located within a ditch. Valve boxes shall have a concentric concrete ring 2" thick by 4" wide that tapers down from the inside of the ring to the outside.

The payment for valve boxes shall be made at the contract unit price bid per each box and shall include all labor, and materials required to complete the installation.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4061	FURNISH & INSTALL WATER VALVE BOX (ALL SIZES AND DEPTHS)	EA

**INSTALLATION OF WATER SERVICES**

INSTALLATION OF WATER SERVICES shall comprise of all materials, labor, equipment and other incidentals required to install or replace a water service line and connection. The work to install water service line and connection shall include all materials, equipment, labor, and incidentals necessary to expose an existing water main, make necessary water main tap/connection, install pipe and fitting for service line, backfill, setting meter box, and return the surface area to conditions that existed prior to construction. Removal of road pavement shall not be permitted to install service connections. Water service connections shall be paid at the unit price per each based on its relative position to the main line. There shall be no direct payment for the directional boring of long side service connections. There shall be no direct payment for sheeting, shoring and dewatering of the excavation. The replacement of pavements, sod and other incidentals necessary to return topside to original conditions shall be paid under applicable separate pay items. All materials used shall conform to the applicable sections of these specifications.

The water service lines shall be PE-3408 black tubing of nominal sizes from ¾-inch through 2-inch, all with CTS (copper tubing size) outside diameter and a 250 psi (SDR9) rating at 73.4° F. All water service tubing shall comply with AWWA C901, ASTM D2737, and PE4710 CC3. The installation of tubing shall be in accordance with manufacturer's recommendation. The care shall be exercised and proper procedures followed in tubing terminations, with tools approved by the manufacturer for this purpose.

The service saddles and corporation stop at the mainline shall be Mueller, Ford Meter Box, or approved equal of the appropriate type and size. The corporation stops shall be installed in the main in accordance with pipe manufacturer's recommendations. Care should be taken to not over or under tighten the service line valves and fittings at points where they enter the main. Curb stops, fittings and other service line appurtenances shall be Mueller, Ford Meter Box or approved equal. Curb stop and service line fittings shall be installed in a "double/jumbo" meter box.

When directed by the Department of Utilities, the contractor shall install a brass u-branch and appurtenances on the service line for double service connections. Brass u-branches shall be Mueller, Ford Meter Box or approved equal. Curb stop, u-branches and service line fittings shall be installed in a "double/jumbo" meter box. Brass u-branches shall be paid at the unit price per each, separately from the water service connection items.

The payment for water services shall be made at the contract unit price per each and shall include service line, service saddle, corporation stops, curb stops, service line fittings, meter box, and any other materials required for a fully functional water service line and connection.

Meter boxes shall be "double/jumbo" meter (17" X 30") manufactured by NDS or approved equal. Meter boxes shall be installed in accordance with the manufacturer's instructions and recommendations. Meter boxes shall not be installed in the ditch or slope of the ditch. Payment for meter boxes shall be made at the contract unit price per each for the proper installation of the meter box.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4062	WATER SERVICES CONNECTION, SHORT SIDE (UP TO 2")	EA
4063	WATER SERVICES CONNECTION, LONG SIDE (UP TO 2")	EA
4064	BRASS U-BRANCH (ALL SIZES)	EA
4065	FURNISH AND INSTALL JUMBO METER BOX	EA

**HIGH SECURITY FIRE HYDRANT - 5 ¼", 3-WAY**

New fire hydrants shall be a three-way Mueller Centurion No. A423 HS 250 with 5 ¼inch valve opening. The length of the lower section of each hydrant shall be appropriate for the depth of the water main. All new hydrants shall be painted chrome/safety yellow. No existing fire hydrant in the vicinity of a new hydrant shall be removed from service until the new hydrant has been installed, tested, and water system pressure is on the hydrant. The lubricate caps and threads with approved lubricant.

An isolation valve shall be installed in between the fire hydrant and main. The fire hydrant isolation valve shall conform to the WATER VALVE section of the specification. Payment shall for fire hydrant isolation valve shall be made in accordance with the applicable specification section.

The payment for installed fire hydrants shall be made at the contract unit price bid per each hydrant and shall include all labor, equipment, and materials required to complete the installation.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4071	HIGH SECURITY FIRE HYDRANT - 5 1/4", 3 - WAY	EA

**FIRE HYDRANTS - RAISING (EXTENSION)**

This item covers all labor, materials, and equipment necessary for the raising of existing fire hydrants to the "bury line" on the hydrant and as directed by the Parish. The fire hydrant extensions shall be manufactured by Mueller or an approved equal.

**Pay Item**

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Unit</u></b>
4072	RAISE/EXTEND EXISTING FIRE HYDRANT	VF

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

**(Revised Per Addendum No. 1)**

**TO:**

St. Tammany Parish Government  
 21454 Koop Drive, Suite 2F  
 Mandeville, LA. 70471  
(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

**BID FOR:**

Utility Point Of Repair  
 Bid No. 26-32-2  
(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Mobilization				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
001	4	EA		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Supplemental Mobilization				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
002	36	EA		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Emergency Mobilization				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
003	12	EA		

**Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.**

**(Revised Per Addendum No. 1)**

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # 8" THICK PCCP, FIBER REINFORCED (IN PLACE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1001	100	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # 8" THICK PCCP, HIGH EARLY FIBER REINFORCED				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1002	400	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PCC ROLL-OVER CURB W/ CURB DOWELS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1003	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PCC BARRIER CURB W/ CURB DOWELS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1004	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # BITUMINOUS HOT MIX ASPHALT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1005	250	TON		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SAW CUT PAVEMENT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1006	2500	IN/LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # REMOVE AND RESTORE COMBINATION CONCRETE CURB AND GUTTER				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1007	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PCCP ROADWAY REMOVAL 8" THICK OR LESS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1008	250	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PCCP ROADWAY REMOVAL GREATER THAN 8" THICK				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1009	250	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # ASPHALT REMOVAL				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1010	2500	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH AND PLACE GRANULAR BASE COURSE				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1011	175	CY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH AND PLACE LIMESTONE BASE COURSE				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1012	850	CY		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # REMOVAL OF CONCRETE WALKS & DRIVES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1013	100	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FIBER REINFORCED 4" THICK PCC PAVING, IN PLACE FOR SIDEWALK				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1014	50	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FIBER REINFORCED 6" THICK PCC PAVING, IN PLACE FOR DRIVEWAYS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
1015	50	SY		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # EXPLORATORY EXCAVATION				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2001	20	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # WELL POINTING (INITIAL SET-UP)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2002	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # WELL POINT PUMPING				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2003	15	DAY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # ST. AUGUSTINE GRASS SOD				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2004	100	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CENTIPEDE GRASS SOD				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2005	500	SY		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEED & FERTILIZE (CENTIPEDE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2006	40	LB		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - UP TO 4" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2007	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 6" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2008	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 8" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2009	10	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 10" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2010	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 12" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2011	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 14" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2012	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FURNISH & INSTALL/ TEST/ TAP SS SLEEVE - 16" X ALL SIZES				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2013	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # DUCTILE FITTINGS AND ACCESSORIES (ALL TYPES, ALL SIZES)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2014	5000	LB		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FLOWABLE FILL GROUT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
2015	100	CY		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3001	70	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3002	140	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (UP TO 6" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3003	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (8" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3004	70	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (8" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3005	350	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (8" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3006	56	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (10" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3007	56	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (10" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3008	140	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (10" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3009	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (12" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3010	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (12" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3011	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (12" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3012	28	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (15" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3013	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (15" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3014	28	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER LINE (15" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3015	28	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3020	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3021	10	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (UP TO 6" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3022	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3023	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3024	20	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (8" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3025	4	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3026	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3027	10	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (10" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3028	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3029	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3030	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GRAVITY SEWER POINT REPAIR (12" PIPE) (DEPTH >10)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3031	2	EA		

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<b>Description:</b>		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH 0'-5')	
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>		
3032	2	EA				
<b>Description:</b>		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH 5'-10')	
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>		
3033	2	EA				
<b>Description:</b>		<input checked="" type="checkbox"/> BASE BID	OR	<input type="checkbox"/> ALT #	GRAVITY SEWER POINT REPAIR (15" PIPE) (DEPTH >10')	
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>		
3034	2	EA				

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 3" (PVC, SDR 26)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3040	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 4" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3041	2000	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 6" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3042	2200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 8" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3043	1600	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 10" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3044	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 12" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3045	3200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 14" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3046	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEWER FORCE MAIN, 16" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3047	100	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3050	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3051	6	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (UP TO 6" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3052	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3053	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3054	6	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (8" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3055	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3056	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3057	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (10" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3058	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3059	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3060	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (12" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3061	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3062	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3063	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (14" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3064	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3065	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3066	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FORCE MAIN POINT REPAIR (16" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3067	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      DIRECTIONAL DRILL 4" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3070	400	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      DIRECTIONAL DRILL 6" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3071	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      DIRECTIONAL DRILL 8" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3072	500	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      DIRECTIONAL DRILL 10" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3073	200	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 12" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3074	100	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 14" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3075	400	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 16" SEWER FORCE MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3076	100	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 4" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3077	1600	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 6" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3078	3200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 8" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3079	2000	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 10" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3080	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 12" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3081	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 14" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3082	100	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 16" SEWER FORCE MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3083	100	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 3"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3090	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 4"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3091	10	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 6"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3092	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 8"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3093	5	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 10"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3094	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 12"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3095	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 14"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3096	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE - 16"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3097	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL SEWER VALVE BOX (ALL SIZES AND DEPTHS)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3101	35	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T RESETTING EXISTING MANHOLE RINGS & COVERS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3102	24	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T ADJUST SEWER MANHOLE				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3103	36	VF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T REPAIR MANHOLE/ LINE CONNECTION				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3104	12	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T REHABILITATE MANHOLE BENCH/ TROUGH				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3105	12	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL NEW MANHOLE RINGS & COVERS				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3106	8	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      FURNISH & INSTALL 48" CONCRETE SEWER MANHOLE				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3107	80	VF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      FURNISH & INSTALL 60" CONCRETE SEWER MANHOLE				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3108	40	VF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      REPAIR/ ADJUST CLEANOUT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3109	16	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      FURNISH & INSTALL SEWER CLEANOUT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3110	8	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      INSTALL SEWER HOUSE CONNECTION (SHORT SIDE, UP TO 6" SERVICE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3111	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T      INSTALL SEWER HOUSE CONNECTION (LONG SIDE, UP TO 6" SERVICE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
3112	12	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 3" (PVC, SDR26)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4001	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 4" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4002	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 6" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4003	500	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 8" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4004	2000	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 10" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4005	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 12" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4006	2400	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER MAIN, 16" (PVC, C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4007	200	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4011	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4012	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (UP TO 4" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4013	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (6" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4014	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (6" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4015	8	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (6" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4016	6	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (8" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4017	12	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (8" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4018	24	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (8" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4019	6	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (10" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4020	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (10" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4021	8	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (10" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4022	4	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (12" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4023	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (12" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4024	8	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (12" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4025	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (16" PIPE) (DEPTH 0'-5')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4026	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (16" PIPE) (DEPTH 5'-10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4027	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER POINT REPAIR (16" PIPE) (DEPTH >10')				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4028	2	EA		

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**(Revised Per Addendum No. 1)**

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

<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 4" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4031	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 6" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4032	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 8" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4033	500	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 10" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4034	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 12" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4035	500	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 16" WATER MAIN (PVC, IB-RJ C900 DR18)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4036	200	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 1" WATER LINE (HDPE SDR9)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4037	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 2" WATER LINE (HDPE SDR9)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4038	400	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 3" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4039	400	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 4" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4040	200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 6" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4041	320	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 8" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4042	2400	LF		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 10" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4043	2000	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 12" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4044	2200	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T DIRECTIONAL DRILL 16" WATER MAIN (HDPE DR-11)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4045	160	LF		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 2" AND SMALLER				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4051	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 3"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4052	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 4"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4053	2	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 6"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4054	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 8"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4055	12	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 10"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4056	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 12"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4057	4	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE - 16"				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4058	2	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH & INSTALL WATER VALVE BOX (ALL SIZES AND DEPTHS)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4061	36	EA		

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<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER SERVICES CONNECTION, SHORT SIDE (UP TO 2" PIPE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4062	8	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T WATER SERVICES CONNECTION, LONG SIDE (UP TO 2" PIPE)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4063	12	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T BRASS U-BRANCH (ALL SIZES)				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4064	10	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T FURNISH AND INSTALL METER BOX				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4065	20	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T HIGH SECURITY FIRE HYDRANT - 5 1/4", 3 - WAY				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4071	15	EA		
<b>Description:</b> <input checked="" type="checkbox"/> BASE BID <input type="checkbox"/> A I T RAISE EXISTING FIRE HYDRANT				
<b>REF NO.:</b>	<b>QUANTITY</b>	<b>UNIT OF MEASURE</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (Quantity times unit price)</b>
4072	24	VF		

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## INSURANCE REQUIREMENTS\*

Construction Project: Utility Point of Repair \_\_\_\_\_

Project/Quote/Bid#: 26-32-2 \_\_\_\_\_

### **\*\*\*IMPORTANT – PLEASE READ\*\*\***

**Prior to submitting your quote or bid, it is recommended that you review these insurance requirements with your insurance broker/agent.**

*These requirements modify portions of the insurance language found in the General Conditions and/or Supplementary General Conditions; however, there is no intention to remove all sections pertaining to insurance requirements and limits set forth in the General Conditions and/or Supplementary General Conditions, only to amend and specify those items particular for this Project.*

- A. The Provider shall secure and maintain at its expense such insurance that will protect it and St. Tammany Parish Government (the "Parish") from claims for bodily injury, death or property damage as well as from claims under the Workers' Compensation Acts that may arise from the performance of services under this agreement. All certificates of insurance shall be furnished to the Parish and provide thirty (30) days prior notice of cancellation to the Parish, in writing, on all of the required coverage.
- B. All policies shall provide for and certificates of insurance shall indicate the following:
1. Waiver of Subrogation: The Provider's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance.
  2. Additional Insured: St. Tammany Parish Government shall be named as Additional Insured with respect to general liability, automobile liability and excess liability coverages, as well as marine liability and pollution/environmental liability, when those coverages are required or necessary.
  3. Payment of Premiums: The insurance companies issuing the policy or policies will have no recourse against St. Tammany Parish Government for payment of any premiums or for assessments under any form of policy.
  4. Project Reference: The project(s) and location(s) shall be referenced in the Comment or Description of Operations section of the Certificate of Insurance (Project ##-###, or Bid # if applicable, Type of Work, Location).
- C. Coverage must be issued by insurance companies authorized to do business in the State of Louisiana. Companies must have an A.M. Best rating of no less than A-, Category VII. St. Tammany Parish Risk Management Department may waive this requirement only for Workers Compensation coverage at their discretion.

Provider shall secure and present proof of insurance on forms acceptable to St. Tammany Parish Government, Office of Risk Management no later than the time of submission of the Contract to the Parish. However, should any work performed under this Contract by or on behalf of Provider include exposures that are not covered by those insurance coverages, Provider is not relieved of its obligation to maintain appropriate levels and types of insurance necessary to protect itself, its agents and employees, its subcontractors, St. Tammany Parish Government (Owner), and all other interested third parties, from any and all claims for damage or injury in connection with the services performed or provided throughout the duration of this Project, as well as for any subsequent periods required under this Contract.

The insurance coverages checked (✓) below are those required for this Contract.

- 1. **Commercial General Liability\*** insurance – **Occurrence Form** - with a Combined Single Limit for bodily injury and property damage of at least \$1,000,000 per Occurrence / \$2,000,000 General Aggregate and \$2,000,000 Products-Completed Operations. Contracts over \$1,000,000 may require higher limits. The insurance shall provide for and the certificate(s) of insurance shall indicate the following coverages:
  - a) Premises - operations;
  - b) Broad form contractual liability;
  - c) Products and completed operations;
  - d) Personal/Advertising Injury;
  - e) Broad form property damage (for Projects involving work on Parish property);
  - f) Explosion, Collapse and Damage to underground property.
  - g) Additional Insured forms CG 2010 and CG 2037 in most current edition are required.
  
- 2. **Business Automobile Liability\*** insurance with a Combined Single Limit of \$1,000,000 per Occurrence for bodily injury and property damage, and shall include coverage for the following:
  - a) Any auto;
  - or**
  - b) Owned autos; **and**
  - c) Hired autos; **and**
  - d) Non-owned autos.
  
- 3. **Workers' Compensation/Employers Liability insurance\*** - Workers' Compensation coverage as required by State law. Employers' liability limits shall be a minimum of \$1,000,000 each accident, \$1,000,000 each disease, \$1,000,000 disease policy aggregate. When water activities are expected to be performed in connection with this project, coverage under the USL&H Act, Jones Act and/or Maritime Employers Liability (MEL) must be included. **Coverage for owners, officers and/or partners in any way engaged in the Project shall be included in the policy.** The names of any excluded individual must be shown in the Description of Operations/Comments section of the Certificate.
  
- 4. **Pollution Liability and Environmental Liability\*** insurance in the minimum amount of \$1,000,000 per occurrence / \$2,000,000 aggregate including full contractual liability and third party claims for bodily injury and/or property damage, for all such hazardous waste, pollutants and/or environmental exposures that may be affected by this project stemming from pollution/environmental incidents as a result of Contractor's operations.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.

5. **Contractor's Errors and Omissions\*** insurance in the sum of at least \$1,000,000 per claim / \$2,000,000 aggregate is required when work performed by Contractor or on behalf of Contractor to include coverage for, but not limited to: negligence, mistakes, faulty workmanship, improper installation, not following design specifications, etc. An occurrence basis policy is preferred.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.

6. **Marine Liability/Protection and Indemnity\*** insurance is required for any and all vessel and/or marine operations in the minimum limits of \$1,000,000 per occurrence / \$2,000,000 per project general aggregate. The coverage shall include, but is not limited to, the basic coverages found in the Commercial General Liability insurance and coverage for third party liability

**\*Excess/Umbrella Liability** insurance may be provided to meet the limit requirements for any Liability coverage. For example: if the General Liability requirement is \$3,000,000 per occurrence, but the policy is only \$1,000,000 per occurrence, then the excess policy should be at least \$2,000,000 per occurrence thereby providing a combined per occurrence limit of \$3,000,000.)

7. **Owners Protective Liability (OPL)** shall be furnished by the Contractor and shall provide coverage in the minimum amount of \$1,000,000 CSL each occurrence / \$1,000,000 aggregate. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the policy.**

8. **Builder's Risk Insurance** written as an "all-risk" policy providing coverage in an amount at or greater than one hundred percent (100%) of the completed value of the contracted project. Any contract modifications increasing the contract cost will require an increase in the limit of the Builder's Risk policy. Deductibles should not exceed \$5,000 and Contractor shall be responsible for all policy deductibles. This insurance shall cover materials at the site, stored off the site, and in transit. The Builder's Risk Insurance shall include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be named as a Loss Payee on the policy.**

9. **Installation Floater Insurance**, on an "all-risk" form, shall be furnished by Contractor and carried for the full value of the materials, machinery, equipment and labor for each location. The Contractor shall be responsible for all policy deductibles. The Installation Floater Insurance shall provide coverage for property owned by others and include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be named as a Loss Payee on the policy.**

- D. All policies of insurance shall meet the requirements of the Parish prior to the commencing of any work. The Parish has the right, but not the duty, to approve all insurance coverages prior to commencement of work. If any of the required policies are or become unsatisfactory to the Parish as to form or substance; or if a company issuing any policy is or becomes unsatisfactory to the Parish, the Provider shall promptly obtain a new policy, timely submit same to the Parish for approval, and submit a certificate thereof as provided above. The Parish agrees not to unreasonably withhold approval of any insurance carrier selected by Provider. In the event that Parish cannot agree or otherwise authorize a carrier, Provider shall have the option of selecting and submitting a new insurance carrier within 30 days of said notice by the Parish. In the event that the second submission is insufficient or is not approved, then the Parish shall have the unilateral opportunity to thereafter select a responsive and responsible insurance carrier all at the cost of Provider and thereafter deduct from Provider's fee the cost of such insurance.
- E. Upon failure of Provider to furnish, deliver and/or maintain such insurance as above provided, this contract, at the election of the Parish, may be declared suspended, discontinued or terminated. Failure of the Provider to maintain insurance shall not relieve the Provider from any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligation of the Provider concerning indemnification.
- F. Provider shall maintain a current copy of all annual insurance policies and agrees to provide a certificate of insurance to the Parish on an annual basis or as may be reasonably requested for the term of the contract or any required Extended Reporting Period. Provider further shall ensure that all insurance policies are maintained in full force and effect throughout the duration of the Project and shall provide the Parish with annual renewal certificates of insurance evidencing continued coverage, without any prompting by the Parish.
- G. It shall be the responsibility of Provider to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of Provider. Provider shall further ensure the Parish is named as an additional insured on all insurance policies provided by said contractor and/or sub-contractor throughout the duration of the project.
- H. Certificates of Insurance shall be issued as follows:

**St. Tammany Parish Government  
Attn: Risk Management  
P O Box 628  
Covington, LA 70434**

To avoid contract processing delays, be certain the project name/number is included on all correspondence including Certificates of Insurance.

**\*NOTICE: St. Tammany Parish Government reserves the rights to remove, replace, make additions to and/or modify any and all of the insurance requirements at any time.**

**Any inquiry regarding these insurance requirements should be addressed to:**

**St. Tammany Parish Government  
Office of Risk Management  
P O Box 628  
Covington, LA 70434  
Telephone: 985-898-5226  
Email: riskman@stpgov.org**