

BID FORM

MISSOURI DEPARTMENT OF TRANSPORTATION
PROCUREMENT
P.O. BOX 220
WILLOW SPRINGS, MO 65793

REQUEST NO.	D90702241RO
DATE	May 4, 2007
PAGE NO.	1
NO. OF PAGES	9

SEALED BIDS, SUBJECT TO THE ATTACHED CONDITIONS WILL BE RECEIVED AT THIS OFFICE UNTIL

1:00 P.M. CST Monday, May 14th, 2007

AND THEN PUBLICLY OPENED AND READ FOR FURNISHING THE FOLLOWING SUPPLIES OR SERVICES.

QUOTATIONS TO BE BASED F.O.B. MISSOURI DEPARTMENT OF TRANSPORTATION
 Submit net bid as cash discount stipulations will not be considered
 Delivery to the following locations:
 Edgar Springs, Willow Springs, and Houston or
MoDOT will pick up based upon price.

DEFINITE DELIVERY DATE MUST BE SHOWN. SIGN AND RETURN BEFORE TIME SET FOR OPENING. **ALL BIDS MUST BE EXTENDED AND TOTALED.**

BUYER: Marsha Lovan, CPPB

BUYER TELEPHONE: 417-469-6255

ITEM NO.	SUPPLIES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	PLANT PICK UP PRICE	DELIVERY PRICE
1	Polyethylene pipe liner (PPL) for a 15" pipe in 20' length sections	160	LF			
2	Polyethylene pipe liner (PPL) for a 15' pipe in 10' length sections	560	LF			
3	Polyethylene pipe liner (PPL) for an 18" pipe in 10' length sections	790	LF			
4	Polyethylene pipe liner (PPL) for an 18" pipe in 20' length sections	200	LF			
5	Polyethylene pipe liner (PPL) for a 24" pipe in 10' length sections	80	LF			
<p>Please Note: Sealed Bids only will be accepted. Delivery (if applicable) and invoicing must be completed by June 1, 2007.</p>						

(SEE ATTACHED FOR CONDITIONS AND INSTRUCTIONS)

In compliance with the above invitation for bids, and subject to all conditions thereof, the undersigned bidder agrees to furnish and deliver any or all the items on which prices were quoted within _____ days after receipt of formal purchase order.

Date: _____
Telephone No.: _____
Fax No.: _____
Federal I.D. No. _____

Firm Name: _____
Address: _____
By (Signature): _____
Type/Print Name _____
Title: _____

Submit net bid, as cash discount stipulations will not be considered.

NOTE: For bid to be considered, the attachment entitled "**PREFERENCE IN PURCHASING PRODUCTS**" must be on file in this office and must be in the current calendar year.

NOTE: The attachment entitled "**MISSOURI DOMESTIC PRODUCT PROCUREMENT ACT**" certifications of compliance must be completed and submitted with your bid.

NOTE: CERTIFICATE OF GOOD STANDING

The Bidder must be in compliance with the laws regarding conducting business in the State of Missouri. Within ten (10) business days of notification, the Bidder will need to provide a copy of his/her Missouri Secretary of State's "Certificate of Good Standing" prior to the issuance of any contract or initial purchase order by the Missouri Department of Transportation (MoDOT). MoDOT reserves the right, at its sole discretion, to extend the date this documentation must be provided. The Bidder's inability to provide this documentation will result in his/her bid being rejected.

NOTE: HB600 COMPLIANCE

The Bidder must be in compliance with the laws regarding conducting business in the State of Missouri. The Bidder should ensure they are in good standing with the Missouri Department of Revenue. Prior to award MoDOT staff will check with the Missouri Department of Revenue to ensure compliance with the provisions of RsMO 34.040.6. If necessary, a "Certificate of No Tax Due" may be requested of the successful Bidder. If such a certificate is requested, the Bidder's inability to provide this documentation will result in his/her bid being rejected.

If checked (X), the following items are a provision of this quotation:

- The attachment entitled "**PREFERENCE IN PURCHASING PRODUCTS**" must be completed and returned with this request for quotation.
- Award of this request for quotation will be made on an "All Or Nothing" basis using the "lowest and best" principle of award.
- Award of this request for quotation will be made on an "Item By Item" basis using the "lowest and best" principle of award.
- All materials/equipment/services quoted upon are F.O.B. Destination (as outlined above). Freight costs must be included in the unit price quoted and not listed as a separate line item.
- All materials/equipment/services quoted upon must comply with the attached MoDOT Specification **#MGS-92-11M** and any other provisions outlined in this request for quotation.
- Not less than the prevailing wage included must be paid to all workers performing work under the contract Section 290.250. The contractor will forfeit a penalty to the contracting public body ten dollars a day or portion thereof if a worker is paid less than the prevailing rate for any work done under the contract by the contractor or by any subcontractor under them Section 290.250.
- If this quotation is accepted, the quoting firm will be required to secure a performance bond in the amount of 100% of the contract sum within two weeks of quote acceptance and prior to a Notice to Proceed by the Owner. The bond shall be issued by Surety, acceptable to the Owner. Costs of such bonds will be the responsibility of the quoting firm.

- The Contractor shall purchase and maintain such insurance as will protect him from claims under workmen's compensation acts and other employee benefit acts, from claims for damages because of bodily injury, including death, and from claims for damages to property which may arise out of or result from the Contractor's operations under this Contract, whether such operations be by himself or by and Subcontractor or anyone directly or indirectly employed by any of them. This insurance shall be written for not less than any limits of liability specified as part of this contract, or required by law, whichever is the greater, and shall include contractual liability insurance as applicable to the Contractor's obligations under this contract. Unless otherwise specified, insurance limits shall be as follows:

1. Workmen's Compensation: Full coverage, including "Occupational Disease Act" requirements.
2. Public Liability (includes property damage and personal injury):
 - a. Not less than \$300,000 each individual per accident or occurrence.
 - b. Not less than \$2,000,000 each accident or occurrence.
3. Special Hazard Insurance: As required.
4. Builder's Risk: Not less than the full Contract amount.

- The contractor will pay all sales and use taxes, which constitute a legal obligation arising out of this work. The contract price shall include any necessary permits and licenses required by law incidental to the work. Local ordinances requiring building permits are not applicable to state agencies. The contractor will comply with local laws involving safety in the prosecution of the work.

VENDOR NAME:

STANDARD SOLICITATION PROVISIONS

- a. The Missouri Department of Transportation (MoDOT) reserves the right to reject any or all bids/quotes/proposals, and to accept or reject any items thereon, and to waive technicalities. In case of error in the extension of prices in the bid/quote/proposal, unit prices will govern.
- b. All bids/quotes/proposals must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature must be fulfilled.
- c. By virtue of statutory authority, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown, within the State of Missouri.
- d. Time of delivery is a part of the consideration and, if not otherwise stated in the solicitation documents, must be stated in definite terms by the Bidder/Offeror and must be adhered to. If time varies on different items, the Bidder/Offeror shall so state.
- e. If providing bids/quotes/proposals for commodities, the Bidder/Offeror will state brand or make on each item. If bidding or proposing other than the make, model or brand specified, the manufacturer's name, model number or catalog number must be given.
- f. **For bids/proposals of \$25,000** or more, no bids/proposals by telephone, telegram or telefax will be accepted. If provided, these bids/proposals should be returned in the MoDOT solicitation return envelope.
- g. If a solicitation return envelope is provided by MoDOT, the bid/quote/proposal should be returned in the envelope provided with the Bid/RFQ/RFP Request Number plainly indicated thereon.
- h. The date specified for the returning of bids/quotes/proposals is a firm deadline and all bids/quotes/proposals must be received at the designated office by that time. The Department does not recognize the U.S. Mail, Railway Express Agency, Air Express, or any other organization, as its agent for purposes of accepting proposals. All proposals arriving at the designated office after the deadline specified will be rejected.

GENERAL TERMS AND CONDITIONS

General Performance

- a. This work is to be performed under the general supervision and direction of the Missouri Department of Transportation (MoDOT) and, if awarded any portion of the work, the Contractor agrees to furnish at his own expense all labor and equipment required to complete the work, it being expressly understood that this

solicitation is for completed work based upon the price(s) specified and is not a solicitation for rental of equipment or employment of labor by MoDOT, and MoDOT is to have no direction or control over the employees used by the Contractor in performance of the work.

Deliveries

- a. Unless otherwise specified on the solicitation documents or purchase order, suppliers shall give at least 24 hours advance notice of each delivery. Delivery will only be received between the hours of 8:00 a.m. to 3:00 p.m., Monday through Friday. Material arriving after 3:00 p.m. will not be unloaded until the following workday. No material will be received on Saturday, Sunday or state holidays.
- b. If the prices bid herein include the delivery cost of the material, the Contractor agrees to pay all transportation charges on the material as FOB - Destination. Freight costs must be included in the unit price bid and not listed as a separate line item.
- c. Any demurrage is to be paid by the Contractor direct to the railroad or carrier.

Nondiscrimination

- a. The Contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. All solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of the Contractor's obligations under this contract and the Regulations, will be relative to nondiscrimination on the grounds of race, color, or national origin.
 - 1) Sanctions for Noncompliance: In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MoDOT shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
 - ii. cancellation, termination or suspension of the contract, in whole or in part.

Contract/Purchase Order

- a. By submitting a bid/quote/proposal, the Bidder/Offeror agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.
- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's proposal and/or submitted pricing, and (3) the MHTC's acceptance of the proposal and/or bid by purchase order or post –award contract.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized purchase order and/or notice to proceed.
- d. The contract expresses the complete agreement of the parties and performance shall be governed solely by the specifications and requirements contained therein. Any change, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the Contractor and the duly authorized representative of the MHTC, by a modified purchase order prior to the effective date of such modification. The Contractor expressly and explicitly understands and agrees that no other method and/or no other document, including correspondence, acts, and oral communications by or from any person, shall be used or construed as an amendment or modification.

Subcontracting

- a. It is specifically understood that no portion of the material or any interest in the contract, shall be subcontracted, transferred, assigned or otherwise disposed of, except with the written consent of MoDOT. Request for permission to subcontract or otherwise dispose of any part of the work shall be in writing to MoDOT and accompanied by documentation showing that the organization which will perform the work is particularly experienced and equipped for such work.
- b. Consent to subcontract or otherwise dispose of any portion of the work shall not be construed to relieve the Contractor of any responsibility for the production and delivery of the contracted work and the completion of the work within the specified time.
- c. All payments for work performed by a subcontractor shall be made to the Contractor to whom the contract was awarded and the purchase order issued.

Invoicing and Payment

- a. MoDOT is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax. However, the Contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Federal Excise Tax Exemption Certificate will be furnished to the successful Bidder/Offeror upon request.
- b. Each invoice should be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment.
- c. Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. The Missouri Highways and Transportation Commission (MHTC) shall not make any advance deposits.
- d. The MHTC assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Any authorized quantity is subject to the MHTC's rejection and shall be returned at the Contractor's expense.

- e. The MHTC reserves the right to purchase goods and services using the state-purchasing card.

Applicable Laws and Regulations

- a. The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MoDOT a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.
 - 1) Prior to the issuance of a purchase order and/or notice to proceed, all **out-of-state** Contractors **providing services** within the state of Missouri must submit to MoDOT a copy of their current Transient Employer Certificate from the Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.

- c. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.

Preferences

- a. In the evaluation of bids/quotes/proposals, preferences shall be applied in accordance with Chapter 34 RSMo. Contractors should apply the same preferences in selecting subcontractors.
- b. By virtue of statutory authority, RSMo. 34.076 and 34.350 to 34.359, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown within the State of Missouri. Such preference shall be given when quality is equal or better and delivered price is the same or less.
 - 1) If attached, the document entitled **“PREFERENCE IN PURCHASING PRODUCTS”** should be completed and returned with the solicitation documents.
 - 2) If attached, the document entitled **“MISSOURI DOMESTIC PRODUCTS PROCUREMENT ACT”** should be completed and returned with the solicitation documents. **Applies if bid is Twenty-Five Thousand Dollars (\$25,000.00) or more.**
- c. In the event of a tie of low bids, the MHTC reserves the right to establish the method to be used in determining the award

Remedies and Rights

- a. No provision in the contract shall be construed, expressly or implied, as a waiver by the MHTC of any existing or future right and/or remedy available by law in the event of any claim by the MHTC of the Contractor's default or breach of contract.
- b. The Contractor agrees and understands that the contract shall constitute an assignment by the Contractor to the MHTC of all rights, title and interest in and to all causes of action that the Contractor may have under the antitrust laws of the United States or State of Missouri for which causes of action have accrued or will accrue as the result of or in relation to the particular equipment, supplies, and/or services purchased or produced by the Contractor in the fulfillment of the contract with the MHTC.
- c. In the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request MoDOT to enter into such litigation to protect the interests of the MHTC, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

Cancellation of Contract

- a. The MHTC may cancel the contract at any time for a material breach of contractual obligations or for convenience by providing the Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.
- b. If the MHTC cancels the contract for breach, the MHTC reserves the right to obtain the equipment, supplies, and/or services to be provided pursuant to the contract from other sources and upon such terms and in such manner as the MHTC deems appropriate and charge the Contractor for any additional costs incurred thereby.

Bankruptcy or Insolvency

- a. Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntary or involuntary, or upon the appointment of a receiver, trustee, or assigned the benefit or creditors, the Contractor must notify MoDOT immediately. Upon learning of any such actions, the MHTC reserves the right, at its sole discretion, to either cancel the contract or affirm the contract and hold the Contractor responsible for damages.

Inventions, Patents, and Copyrights

- a. The Contractor shall defend, protect, and hold harmless the MHTC, its officers, agents, and employees against all suits of law or in equity resulting from patent and copyright infringement concerning the Contractor's performance or products produced under the terms of the contract.

Inspection and Acceptance

- a. No equipment, supplies, and/or services received by MoDOT pursuant to a contract shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said equipment, supplies, and/or services.
- b. All equipment, supplies, and/or services which do not comply with the specifications and/or requirements or which are otherwise unacceptable or defective may be rejected. In addition, all equipment, supplies, and/or services which are discovered to be defective or which do not conform to any warranty of the Contractor upon inspection (or at any later time if the defects contained were not reasonably ascertainable upon the initial inspection) may be rejected.
- c. The MHTC reserves the right to return any such rejected shipment at the Contractor's expense for full credit or replacement and to specify a reasonable date by which replacements must be received.
- d. The MHTC's right to reject any unacceptable equipment, supplies, and/or services shall not exclude any other legal, equitable or contractual remedies the MHTC may have.

Warranty

- a. The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by MoDOT, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.
- b. Such warranty shall survive delivery and shall not be deemed waived either by reason of the MHTC's acceptance of or payment for said equipment, supplies, and/or services.

Status of Independent Contractor

- a. The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.

Indemnification

- a. The Contractor shall be responsible for injury or damages as a result of any services and/or goods rendered under the terms and conditions of this Agreement.
- b. In addition to the liability imposed upon the Contractor on the account of personal injury, bodily injury, including death, or property damage, suffered as a result of the Contractor's performance under this Agreement, the Contractor assumes the obligation to save harmless the Commission, including its agents, employees and assigns, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission, including legal fees.
- c. The Contractor also agrees to hold harmless the Commission, including its agents, employees and assigns, from any wrongful or negligent act or omission committed by any subcontractor or other person employed by or under the supervision of the Contractor for any purpose under this Agreement, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission.

CULVERT PIPE LINER MGS-92-11M

1.0 Description. These specifications cover the purchase of polyethylene pipe liners (PPL) for lining existing culvert pipes for maintenance purposes.

2.0 Materials.

2.1 Liner Pipe. Pipe shall be PE or PVC and shall comply with the requirements for the Type listed.

2.1.1 Type I. Type I PPL shall comply with the requirements of ASTM F 714 (Max. DR 32.5).

2.1.2 Type II. Type II PPL shall be manufactured from material meeting ASTM D 3350 Cell Classification 345464C and shall comply with the dimensional requirements of Table 1 of this specification or Table 2 if approved by the engineer.

2.1.3 Type III. Type III PPL shall comply with the requirements of ASTM F894 open profile, Class RSC 100 or RSC 160.

2.1.4 Type IV. Type IV PVC pipe shall meet the specifications of ASTM F-949, except that the PVC Pipe & Fittings shall be made of PVC compound having a minimum call classification of 12454B in accordance with ASTM D 1784. The joining method for PVC pipe shall be by elastomeric material meeting the requirements of ASTM F-949. (Note: Clearance requirements limits the minimum size of Type IV to a 12" diameter and ASTM F-949-95a currently limits the maximum size to a 36" diameter.)

2.2 The dimensions of PPL shall meet the requirements of Table 3 of this specification. The length shall not be less than that specified in the order.

2.3 The PPL shall be capable of being joined into a continuous length by an approved interlocking method formed into the ends of the liner. Unless otherwise specified, the joints shall be soil-tight with no gaskets required.

2.4 Unless otherwise specified in the bid request, each PPL shall have a male and a female end.

2.5 Each length of pipe furnished shall be permanently marked by the manufacturer with the manufacturer's name, and applicable ASTM designation. The marking shall be such that it will not be obliterated during handling, shipment or placement.

3.0 Ordering Information. The inside diameter of the existing pipe to be lined and the

lengths of PPL are to be shown in the order. If necessary, specific types may be ordered.

4.0 Certification. The supplier shall furnish a manufacturer's certification at destination stating that the PPL was manufactured and tested in accordance with the listed specifications and was found to meet the requirements of these specifications. The supplier shall further submit a statement stating that any PPL found to not comply with these specifications will be replaced with satisfactory material at the earliest date possible.

5.0 Acceptance. Inspection of PPL may be made at the point of manufacturer, intermediate storage points, or destination at the discretion of the department.

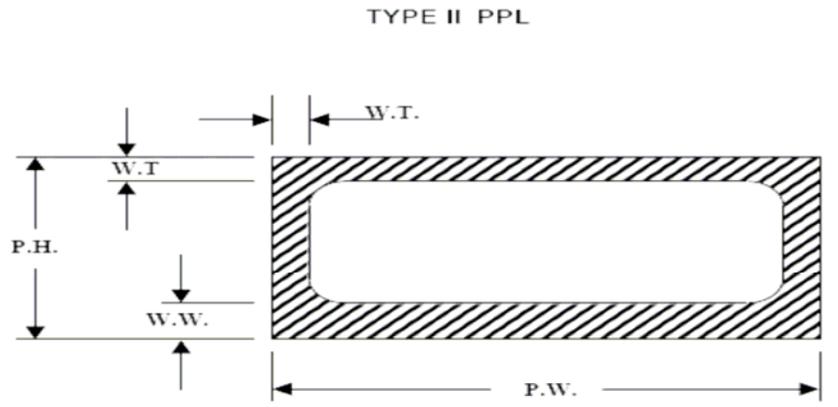


Table 1
Standard Pipe Dimensions

Nominal I.D. PPPL Size (inches) ^{A B}	Average O.D. (inches) ^A	Average Profile Height (P.H.) (inches) ^A	Average Profile Width (P.W.) (inches) ^A	Minimum Waterway Wall (W.W.) (inches)	Minimum Wall Thickness (W.T.) (inches)
10.000	11.200	0.600	0.740	0.070	0.060
12.000	13.470	0.740	0.920	0.080	0.070
13.500	15.360	0.930	1.160	0.090	0.080
15.000	16.850	0.930	1.160	0.090	0.080
18.000	20.240	1.120	1.400	0.110	0.100
21.000	23.650	1.330	1.660	0.130	0.110
24.000	27.060	1.530	1.910	0.140	0.120
27.000	30.340	1.720	2.150	0.160	0.140
30.000	33.820	1.910	2.390	0.180	0.150
36.000	40.650	2.330	2.910	0.210	0.180
40.000	45.200	2.600	3.250	0.230	0.200
42.000	47.470	2.740	3.420	0.240	0.210

^A These dimensions shall be determined by taking at least three (3) measurements and averaging the results.

^B A tolerance of ± 1 percent will be permitted on the nominal I.D. measurements

Table 2
 Low Profile Pipe Dimensions

Nominal I.D. PPPL Size (inches) ^{A B}	Average O.D. (inches) ^A	Average Profile Height (P.H.) (inches) ^A	Average Profile Width (P.W.) (inches) ^A	Minimum Waterway Wall (W.W.) (inches)	Minimum Wall Thickness (W.T.) (inches)
12L	13.20	0.600	0.740	0.080	0.070
15L	16.47	0.736	0.920	0.090	0.080
18L	19.85	0.925	1.160	0.100	0.090
21L	23.24	1.122	1.400	0.120	0.110
24L	26.83	1.327	1.660	0.140	0.120
27L	30.06	1.528	1.910	0.150	0.130
30L	33.43	1.717	2.150	0.170	0.150
36L	39.82	1.810	2.390	0.190	0.160
40L	44.65	2.323	2.910	0.230	0.200
42L	47.20	2.598	3.250	0.240	0.210

^A These dimensions shall be determined by taking at least three (3) measurements and averaging the results.

^B A tolerance of ± 1 percent will be permitted on the nominal I.D. measurements.

Table 3
 Pipe Liner Dimensions

Existing Pipe Size (ID) (inches)	Clearance *		Liner ID Minimum (inches)
	Minimum (inches)	Maximum (inches)	
12.000	0.500	2.000	9.000
15.000	0.500	3.000	11.000
18.000	0.500	3.000	13.000
21.000	0.500	3.000	15.000
24.000	0.500	4.000	17.000
27.000	1.000	4.000	20.000
30.000	1.000	4.000	22.000
33.000	1.000	4.000	24.000
36.000	1.000	4.000	26.000
42.000	1.000	6.000	30.000
46.000	2.000	6.000	33.000
48.000	2.000	6.000	35.000
54.000	2.000	8.000	39.000
60.000	2.000	9.000	43.000
72.000	2.000	10.000	52.000

* Clearance is the difference between the inside diameter (ID) of the existing pipe and the outside diameter (OD) of the liner.