

**ARKANSAS STATE HIGHWAY COMMISSION  
AHTD - EQUIPMENT AND PROCUREMENT DIVISION  
BID INVITATION**

Bid Number: Contract No. H-18-200J

<b>BID OPENING LOCATION:</b> AHTD Equipment & Procurement Division 11302 West Baseline Road Little Rock, AR 72209	<b>MAIL TO:</b> AHTD Equipment and Procurement Division P.O. Box 2261 Little Rock, AR 72203	<b>DELIVER TO:</b> AHTD Equipment & Procurement Division 11302 West Baseline Road Little Rock, AR 72209
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Bid Opening Date: May 23, 2017 Time: 11:00 a.m.

Sealed bids for furnishing the commodities and/or services described below, subject to the Standard Bid Conditions of this bid invitation will be received at the above-noted mail and delivery locations until the above-noted bid opening date and time, and then publicly opened at the above-noted bid opening location. **Bids must be submitted on this form, with attachments when appropriate, or bids will be rejected. Late bids and unsigned bids will not be considered.**

In compliance with this Bid Invitation and subject to all the Conditions thereof, the undersigned offers and agrees to furnish any and all items upon which prices are quoted, at the price set opposite each item.

Company Name: \_\_\_\_\_

Name (Type or Print): \_\_\_\_\_

Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Federal Tax ID or Social Security No.: \_\_\_\_\_

**Signature:** \_\_\_\_\_

Signature must be legible, original (not photocopied) and in ink.  
Unsigned bids will be rejected.

Item No.	Description
	<p>Supply Contract for furnishing to the Arkansas State Highway and Transportation Department (hereafter called "AHTD") <b>Corrugated Pipe Culvert</b> at pricing set forth on the attached Bid Form for the period beginning July 1, 2017 thru December 31, 2017.</p> <p><u>FOB – Statewide</u></p> <p>The Bid Invitation, Bid Form and Bid Information are parts of the contract and by this reference are incorporated herein as fully and effectively as if set forth in detail herein.</p> <p>It shall be understood that by submission of bid that bidder agrees to the conditions herein specified and, if bid is found acceptable by AHTD either in whole or in part, shall consider this bid a contract agreement bound under these conditions. The parties hereto agree that this contract in all things shall be governed by the Laws of the State of Arkansas.</p> <p><b>All bidders should complete and return the Eligible Bidder Certification (Attachment A) and Disclosure Form (see Page 2 of Standard Bid Conditions – Item 18) issued with this bid. A current copy of the DFA Illegal Immigrant Contractor Disclosure Certification (see Page 2 of Standard Bid Conditions – Item 17) should also be submitted with bid.</b></p> <p><b>Bid Bond</b> in the amount of \$500.00 required of all bidders at time of bid opening or bid will be rejected. <b><u>Personal and company checks are not acceptable as Bid Bonds.</u></b> See Condition 4 on page 1 of Standard Bid Conditions.</p> <p><b>Performance Bond</b> in an amount to be determined by AHTD, not to exceed \$5,000.00, will be required of successful bidder prior to providing goods/services. <b><u>Personal and company checks are not acceptable as Performance Bonds.</u></b> See Condition 4 on page 1 of Standard Bid Conditions.</p> <p><b>ALL OR NONE BIDS WILL NOT BE CONSIDERED.</b></p> <p><b>TWO SIGNED COPIES OF BID INVITATION AND BID FORM MUST BE SUBMITTED. PLEASE PROVIDE <u>THREE</u> ADDITIONAL COPIES TO EXPEDITE DISTRIBUTION OF INFORMATION TO PARTICIPATING BIDDERS.</b></p> <p>Bids and Specifications are available on-line by going to the AHTD Web Site – <a href="http://www.arkansashighways.com">www.arkansashighways.com</a> and clicking on "Commodities and Services Bids/Contracts Information". Tabulations will also be available at this site after award of bid/contract. If you have any questions, call this office at 501-569-2667.</p> <p>28-02</p>

## AHTD - STANDARD BID CONDITIONS

1. **GENERAL:** Any special terms and conditions included in the invitation for bid override these standard terms and conditions. The standard terms and conditions and any special terms and conditions become part of any contract entered into if any or all parts of the bid are accepted by the Arkansas State Highway Commission (AHTD).
2. **ACCEPTANCE AND REJECTION:** AHTD reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.
3. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
4. **BID BONDS AND PERFORMANCE BONDS:** If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds**. Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds**. In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). These bonds shall not only serve to guarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
5. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.
6. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
7. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
8. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
9. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
10. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.

11. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
12. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
13. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
14. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
15. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).
16. **NOTICE OF NONDISCRIMINATION:** The Arkansas State Highway Commission, through the AHTD, complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, the AHTD does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the AHTD's programs and activities, as well as the AHTD's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the AHTD nondiscrimination policies may be directed to Joanna P. McFadden Section Head – EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501)569-2298, (Voice/TTY 711), or the following email address: [joanna.mcfadden@ahtd.ar.gov](mailto:joanna.mcfadden@ahtd.ar.gov). Free language assistance for Limited English Proficient individuals is available upon request. This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.
17. **PROHIBITION OF EMPLOYMENT OF ILLEGAL IMMIGRANTS:** Pursuant to Arkansas Code Annotated 19-11-105, all bidders must certify prior to award of a contract that they **do not** employ or contract with any illegal immigrant(s) in its contract with the state. Bidders shall certify online at <https://www.ark.org/dfa/immigrant/index.php>.
18. **DISCLOSURE:** Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that order, **shall** be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy **shall** be subject to all legal remedies available to the agency.

## CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM

Failure to complete all of the following information may result in a delay in obtaining a contract, lease, purchase agreement, or grant award with any Arkansas State Agency.

SUBCONTRACTOR: \_\_\_\_\_ SUBCONTRACTOR NAME: \_\_\_\_\_  
 Yes  No

IS THIS FOR:

TAXPAYER ID NAME: \_\_\_\_\_  Goods?  Services?  Both?

YOUR LAST NAME: \_\_\_\_\_ FIRST NAME: \_\_\_\_\_ M.I.: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_ COUNTY: \_\_\_\_\_

**AS A CONDITION OF OBTAINING, EXTENDING, AMENDING, OR RENEWING A CONTRACT, LEASE, PURCHASE AGREEMENT, OR GRANT AWARD WITH ANY ARKANSAS STATE AGENCY, THE FOLLOWING INFORMATION MUST BE DISCLOSED:**

**FOR INDIVIDUALS\***

Indicate below if: you, your spouse or the brother, sister, parent, or child of you or your spouse is a current or former: member of the General Assembly, Constitutional Officer, State Board or Commission Member, or State Employee:

Position Held	Mark ( ✓ )		Name of Position of Job Held <small>(senator, representative, name of board/ commission, data entry, etc.)</small>	For How Long?		What is the person(s) name and how are they related to you? <small>(i.e., Jane Q. Public, spouse, John Q. Public, Jr., child, etc.)</small>	
	Current	Former		From MM/YY	To MM/YY	Person's Name(s)	Relation
General Assembly							
Constitutional Officer							
State Board or Commission Member							
State Employee							

None of the above applies

**FOR AN ENTITY (BUSINESS)\***

Indicate below If any of the following persons, current or former, hold any position of control or hold any ownership interest of 10% or greater in the entity: member of the General Assembly, Constitutional Officer, State Board or Commission Member, State Employee, or the spouse, brother, sister, parent, or child of a member of the General Assembly, Constitutional Officer, State Board or Commission Member, or State Employee. Position of control means the power to direct the purchasing policies or influence the management of the entity.

Position Held	Mark ( ✓ )		Name of Position of Job Held <small>(senator, representative, name of board/ commission, data entry, etc.)</small>	For How Long?		What is the person(s) name and what is his/her % of ownership interest and/or what is his/her position of control?		
	Current	Former		From MM/YY	To MM/YY	Person's Name(s)	Ownership Interest (%)	Position of Control
General Assembly								
Constitutional Officer								
State Board or Commission Member								
State Employee								

None of the above applies

## Contract and Grant Disclosure and Certification Form

***Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the agency.***

**As an additional condition of obtaining, extending, amending, or renewing a contract with a state agency I agree as follows:**

1. Prior to entering into any agreement with any subcontractor, prior or subsequent to the contract date, I will require the subcontractor to complete a **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM**. Subcontractor shall mean any person or entity with whom I enter an agreement whereby I assign or otherwise delegate to the person or entity, for consideration, all, or any part, of the performance required of me under the terms of my contract with the state agency.

2. I will include the following language as a part of any agreement with a subcontractor:

Failure to make any disclosure required by Governor's Executive Order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of the terms of this subcontract. The party who fails to make the required disclosure or who violates any rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

3. No later than ten (10) days after entering into any agreement with a subcontractor, whether prior or subsequent to the contract date, I will mail a copy of the **CONTRACT AND GRANT DISCLOSURE AND CERTIFICATION FORM** completed by the subcontractor and a statement containing the dollar amount of the subcontract to the state agency.

Signature _____	Title _____	Date _____
Vendor Contact Person _____	Title _____	Phone No. _____

Agency Use Only				
Agency Number _____	Agency Name _____	Agency Contact Person _____	Contact Phone No. _____	Contract or Grant No. _____

**ARKANSAS STATE HIGHWAY COMMISSION  
AHTD - SUPPLY CONTRACT FOR  
CORRUGATED PIPE CULVERT**

**BID FORM**

CONTRACT NO. H-18-200J

BIDDER \_\_\_\_\_

All material furnished under this contract must comply with Section 606.02, AHTD Standard Specifications of 2014 and Standard Drawing PCM-1 (Rev. 2-27-14). (Specifications are accessible on our web site at [www.arkansashighways.com](http://www.arkansashighways.com)).

The size and thickness for corrugated steel shown are for 2-2/3 x 1/2 inch corrugations. Substitution will be allowed in accordance with Standard Drawing PCM-1.

Prices quoted shall be FOB any point in Arkansas accessible by rail, motor transport or improved roads, without regard to quantities included in any shipment.

Prices are subject to discount of \_\_\_\_\_% for payment of invoices within \_\_\_\_\_ days.

**CORRUGATED STEEL ROUND PIPE CULVERT**

	<u>Zinc Coated (Galvanized)</u>		<u>Asphalt Coated</u>	
	<u>Item #</u>	<u>Price per Linear Foot</u>	<u>Item #</u>	<u>Price per Linear Foot</u>
18" Diameter - 16 GA.	1.	_____	7.	_____
24" Diameter - 16 GA.	2.	_____	8.	_____
30" Diameter - 16 GA.	3.	_____	9.	_____
36" Diameter - 14 GA.	4.	_____	10.	_____
42" Diameter - 14 GA.	5.	_____	11.	_____
48" Diameter - 14 GA.	6.	_____	12.	_____

	<u>Polymer Precoated Metallic Coated</u>	
	<u>Item #</u>	<u>Price per Linear Foot</u>
18" Diameter - 16 GA.	13.	_____
24" Diameter - 16 GA.	14.	_____
30" Diameter - 16 GA.	15.	_____
36" Diameter - 14 GA.	16.	_____
42" Diameter - 14 GA.	17.	_____
48" Diameter - 14 GA.	18.	_____
60" Diameter - 14 GA.	19.	_____

**ARKANSAS STATE HIGHWAY COMMISSION  
AHTD - SUPPLY CONTRACT FOR  
CORRUGATED PIPE CULVERT**

**BID FORM**

CONTRACT NO. H-18-200J

BIDDER \_\_\_\_\_

**CORRUGATED STEEL ARCH PIPE CULVERT**

	<u>Zinc Coated (Galvanized)</u>		<u>Asphalt Coated</u>	
		Price per		Price per
	<u>Item #</u>	<u>Linear Foot</u>	<u>Item #</u>	<u>Linear Foot</u>
21" x 15" (18") - 16 GA.	20.	_____	26.	_____
28" x 20" (24") - 16 GA.	21.	_____	27.	_____
35" x 24" (30") - 14 GA.	22.	_____	28.	_____
42" x 29" (36") - 14 GA.	23.	_____	29.	_____
49" x 33" (42") - 14 GA.	24.	_____	30.	_____
57" x 38" (48") - 12 GA.	25.	_____	31.	_____

**Polymer Precoated Metallic Coated**

		Price per
	<u>Item #</u>	<u>Linear Foot</u>
21" x 15" (18") - 16 GA.	32.	_____
28" x 20" (24") - 16 GA.	33.	_____
35" x 24" (30") - 14 GA.	34.	_____
42" x 29" (36") - 14 GA.	35.	_____
49" x 33" (42") - 14 GA.	36.	_____
57" x 38" (48") - 12 GA.	37.	_____
66" x 51" (60") - 14 GA.	38.	_____

**ALUMINUM COATED ROUND CORRUGATED STEEL PIPE CULVERT**

		Price per
	<u>Item #</u>	<u>Linear Foot</u>
18" Diameter - 16 GA.	39.	_____
24" Diameter - 16 GA.	40.	_____
30" Diameter - 16 GA.	41.	_____
36" Diameter - 14 GA.	42.	_____
42" Diameter - 14 GA.	43.	_____
48" Diameter - 14 GA.	44.	_____

**ARKANSAS STATE HIGHWAY COMMISSION  
AHTD - SUPPLY CONTRACT FOR  
CORRUGATED PIPE CULVERT**

**BID FORM**

CONTRACT NO. H-18-200J

BIDDER \_\_\_\_\_

**ALUMINUM COATED ARCH CORRUGATED STEEL PIPE CULVERT**

	<u>Item #</u>	<u>Price per Linear Foot</u>
21" x 15" (18") Diameter - 16 GA.	45.	_____
28" x 20" (24") Diameter - 16 GA.	46.	_____
35" x 24" (30") Diameter - 14 GA.	47.	_____
42" x 29" (36") Diameter - 14 GA.	48.	_____
49" x 33" (42") Diameter - 14 GA.	49.	_____
57" x 38" (48") Diameter - 12 GA.	50.	_____

Coupling Bands for the above shall be furnished as required and will be paid as follows:

- 18" - 36" Price of 1.0 Linear Feet of pipe of the specified diameter.
- 42" - 48" Price of 1.5 Linear Feet of pipe of the specified diameter.

**PLASTIC PIPE CULVERT**

	<b>Polyethylene</b>	
		<u>Price per Linear Foot</u>
	<u>Item #</u>	
18" Diameter	51.	_____
24" Diameter	52.	_____
30" Diameter	53.	_____
36" Diameter	54.	_____
42" Diameter	55.	_____
48" Diameter	56.	_____
60" Diameter	57.	_____

Coupling Bands for the above shall be furnished as required and will be paid as follows:

- 18" - 24" NO CHARGE
- 30" - 36" Price of 1.0 Linear Feet of pipe of the specified diameter.
- 42" - 60" Price of 1.5 Linear Feet of pipe of the specified diameter.



**ARKANSAS STATE HIGHWAY COMMISSION  
AHTD - SUPPLY CONTRACT FOR  
CORRUGATED PIPE CULVERT**

**BID FORM**

CONTRACT NO. H-18-200J

BIDDER \_\_\_\_\_

**PLASTIC PIPE CULVERT**

**Polypropylene**

	<u>Item #</u>	<u>Price per Linear Foot</u>
18" Diameter	58.	_____
24" Diameter	59.	_____
30" Diameter	60.	_____
36" Diameter	61.	_____
42" Diameter	62.	_____
48" Diameter	63.	_____
60" Diameter	64.	_____

Coupling Bands for the above shall be furnished as required and will be paid as follows:

18" - 24" NO CHARGE

30" - 36" Price of 1.0 Linear Feet of pipe of the specified diameter.

42" - 60" Price of 1.5 Linear Feet of pipe of the specified diameter.

**ARKANSAS STATE HIGHWAY COMMISSION**  
**AHTD - SUPPLY CONTRACT FOR**  
**CORRUGATED PIPE CULVERT**  
**BID INFORMATION**

CONTRACT NO. H-18-200J

1. The Arkansas State Highway and Transportation Department, hereinafter referred to as "AHTD," will enter into a term contract with the successful bidder(s) to furnish Corrugated Pipe Culvert for the period set forth in the Bid Invitation.
2. A bid may be withdrawn, modified, or corrected by the bidder after it has been submitted provided written request to do so is filed with the Equipment and Procurement Division prior to the time set for opening bids. Telegrams, faxes or letters received before time set for opening bids will be accepted and attached to the unopened bid, and the bid will be considered withdrawn, modified, or otherwise changed accordingly. No proposal may be withdrawn, modified, corrected, or otherwise changed after the time set for opening bids.
3. Under terms of this contract, AHTD is not obligated to purchase any specific quantity or to make purchases at any specific time during the contract period.
4. Where awards are made to corporations organized in states other than Arkansas, bidders shall at their own expense furnish a certified copy of certificate of authority and license to do business in Arkansas, which will remain on file with AHTD. No contract will be executed in favor of such corporation until certificate shall have been furnished.
5. If a contract supplier is unable to load and start shipment of materials within seventy-two (72) hours after receipt of an individual order, he shall immediately notify the ordering District and AHTD - Equipment and Procurement Division in Little Rock. In such event, AHTD shall have the right to cancel the order and purchase the material on the open market. Any increase in cost occasioned by purchasing the material from other than the contract supplier may be billed to the contract supplier or deducted from payments due. This provision is not intended to allow any supplier 72 hours to make shipments of material ordered where immediate shipment is designated and required to avoid loss to the State.
6. Invoices for material furnished should be submitted in quintuplicate to the headquarters of the District ordering the material. Invoices submitted to the Little Rock Central Office will cause delay in payments.
7. AHTD reserves the right to cancel this contract, or any part thereof, upon giving the vendor fifteen days notice of its intent to terminate. The contract shall automatically terminate as of the date given in said notice. Otherwise, prices bid shall remain in effect for the contract term.
8. Cooperative Purchasing: Procedures are being developed to permit other tax-supported entities\* in Arkansas (cities, counties, state agencies, school districts, etc.) to purchase from this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing minimum order quantities, etc.) as agreed by both parties, but could not be raised above the contract bid price under any circumstances. Vendors would not be required to sell to any such entity under this Contract, and those entities would not be obligated to purchase from the Contract.

Should these procedures be approved during the term of this contract, each entity wishing to purchase from the Contract would make contact directly with the appropriate vendor(s). AHTD would remain “out of the loop” for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. AHTD would be held harmless of any and all liability arising from such transactions.

\*Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

**CORRUGATED STEEL PIPE (ROUND)**

PIPE DIAMETER (INCHES)	MINIMUM COVER TO TOP OF PIPE TO TOP OF GROUND (MINIMUM)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)	METAL THICKNESS (INCHES)			
			0.064	0.079	0.093	0.108
2	1	8	0.064	0.079	0.093	0.108
4	1	16	0.064	0.079	0.093	0.108
6	1	24	0.064	0.079	0.093	0.108
8	1	32	0.064	0.079	0.093	0.108
10	1	40	0.064	0.079	0.093	0.108
12	1	48	0.064	0.079	0.093	0.108
14	1	56	0.064	0.079	0.093	0.108
16	1	64	0.064	0.079	0.093	0.108
18	1	72	0.064	0.079	0.093	0.108
20	1	80	0.064	0.079	0.093	0.108
22	1	88	0.064	0.079	0.093	0.108
24	1	96	0.064	0.079	0.093	0.108
26	1	104	0.064	0.079	0.093	0.108
28	1	112	0.064	0.079	0.093	0.108
30	1	120	0.064	0.079	0.093	0.108
32	1	128	0.064	0.079	0.093	0.108
34	1	136	0.064	0.079	0.093	0.108
36	1	144	0.064	0.079	0.093	0.108
38	1	152	0.064	0.079	0.093	0.108
40	1	160	0.064	0.079	0.093	0.108
42	1	168	0.064	0.079	0.093	0.108
44	1	176	0.064	0.079	0.093	0.108
46	1	184	0.064	0.079	0.093	0.108
48	1	192	0.064	0.079	0.093	0.108
50	1	200	0.064	0.079	0.093	0.108
52	1	208	0.064	0.079	0.093	0.108
54	1	216	0.064	0.079	0.093	0.108
56	1	224	0.064	0.079	0.093	0.108
58	1	232	0.064	0.079	0.093	0.108
60	1	240	0.064	0.079	0.093	0.108
62	1	248	0.064	0.079	0.093	0.108
64	1	256	0.064	0.079	0.093	0.108
66	1	264	0.064	0.079	0.093	0.108
68	1	272	0.064	0.079	0.093	0.108
70	1	280	0.064	0.079	0.093	0.108
72	1	288	0.064	0.079	0.093	0.108

**CORRUGATED ALUMINUM PIPE (ROUND)**

PIPE DIAMETER (INCHES)	MINIMUM COVER TO TOP OF PIPE TO TOP OF GROUND (MINIMUM)	MAX. FILL HEIGHT "H" ABOVE TOP OF PIPE (FEET)	METAL THICKNESS (INCHES)			
			0.060	0.075	0.090	0.105
2	1	8	0.060	0.075	0.090	0.105
4	1	16	0.060	0.075	0.090	0.105
6	1	24	0.060	0.075	0.090	0.105
8	1	32	0.060	0.075	0.090	0.105
10	1	40	0.060	0.075	0.090	0.105
12	1	48	0.060	0.075	0.090	0.105
14	1	56	0.060	0.075	0.090	0.105
16	1	64	0.060	0.075	0.090	0.105
18	1	72	0.060	0.075	0.090	0.105
20	1	80	0.060	0.075	0.090	0.105
22	1	88	0.060	0.075	0.090	0.105
24	1	96	0.060	0.075	0.090	0.105
26	1	104	0.060	0.075	0.090	0.105
28	1	112	0.060	0.075	0.090	0.105
30	1	120	0.060	0.075	0.090	0.105
32	1	128	0.060	0.075	0.090	0.105
34	1	136	0.060	0.075	0.090	0.105
36	1	144	0.060	0.075	0.090	0.105
38	1	152	0.060	0.075	0.090	0.105
40	1	160	0.060	0.075	0.090	0.105
42	1	168	0.060	0.075	0.090	0.105
44	1	176	0.060	0.075	0.090	0.105
46	1	184	0.060	0.075	0.090	0.105
48	1	192	0.060	0.075	0.090	0.105
50	1	200	0.060	0.075	0.090	0.105
52	1	208	0.060	0.075	0.090	0.105
54	1	216	0.060	0.075	0.090	0.105
56	1	224	0.060	0.075	0.090	0.105
58	1	232	0.060	0.075	0.090	0.105
60	1	240	0.060	0.075	0.090	0.105
62	1	248	0.060	0.075	0.090	0.105
64	1	256	0.060	0.075	0.090	0.105
66	1	264	0.060	0.075	0.090	0.105
68	1	272	0.060	0.075	0.090	0.105
70	1	280	0.060	0.075	0.090	0.105
72	1	288	0.060	0.075	0.090	0.105

**CORRUGATED METAL PIPE ARCHES**

EQUIV. DIA. (INCHES)	PIPE DIAMETER (INCHES)	MINIMUM COVER (INCHES)	MAX. THICKNESS (INCHES)	STEEL		ALUMINUM	
				MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)	MIN. HEIGHT OF FILL, "H" (FT.)	MAX. HEIGHT OF FILL, "H" (FT.)
6	36x6	3	0.064	2	8	0.060	2
8	24x8	3	0.064	2	8	0.060	2
10	24x10	3	0.064	2.5	8	0.060	2.5
12	24x12	3	0.064	3	8	0.060	3
14	24x14	3	0.064	3	8	0.060	3
16	24x16	3	0.064	3	8	0.060	3
18	24x18	3	0.064	3	8	0.060	3
20	24x20	3	0.064	3	8	0.060	3
22	24x22	3	0.064	3	8	0.060	3
24	24x24	3	0.064	3	8	0.060	3
26	24x26	3	0.064	3	8	0.060	3
28	24x28	3	0.064	3	8	0.060	3
30	24x30	3	0.064	3	8	0.060	3
32	24x32	3	0.064	3	8	0.060	3
34	24x34	3	0.064	3	8	0.060	3
36	24x36	3	0.064	3	8	0.060	3
38	24x38	3	0.064	3	8	0.060	3
40	24x40	3	0.064	3	8	0.060	3
42	24x42	3	0.064	3	8	0.060	3
44	24x44	3	0.064	3	8	0.060	3
46	24x46	3	0.064	3	8	0.060	3
48	24x48	3	0.064	3	8	0.060	3
50	24x50	3	0.064	3	8	0.060	3
52	24x52	3	0.064	3	8	0.060	3
54	24x54	3	0.064	3	8	0.060	3
56	24x56	3	0.064	3	8	0.060	3
58	24x58	3	0.064	3	8	0.060	3
60	24x60	3	0.064	3	8	0.060	3
62	24x62	3	0.064	3	8	0.060	3
64	24x64	3	0.064	3	8	0.060	3
66	24x66	3	0.064	3	8	0.060	3
68	24x68	3	0.064	3	8	0.060	3
70	24x70	3	0.064	3	8	0.060	3
72	24x72	3	0.064	3	8	0.060	3

**CONSTRUCTION SEQUENCE**

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE, DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. COMPLETE STRUCTURAL BEDDING SEPARATION BY WORKING FROM SIDE TO SIDE OF THE PIPE. THE SIDE TO SIDE SEPARATION SHOULD BE DIFFERENTIAL WITHIN 1/8" TO 1/4" INCHES OR TO THE SIZE OF THE PIPE.

NOTE: STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF METAL PIPE.

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 1	ADDED BASE COURSE CLASS 4, 5, 6, OR 7
TYPE 2	SELECTED MATERIALS (CLASS 5M-3, 6M-2, OR 6M-1) OR TYPE 1 INSTALLATION MATERIAL

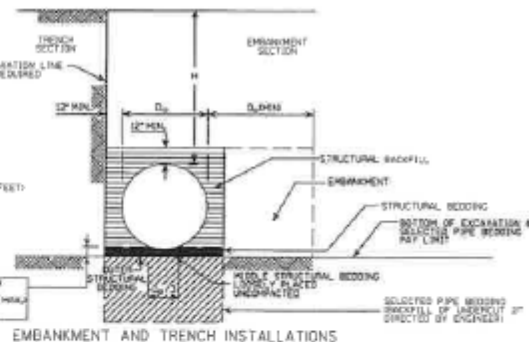
5M-3 WILL NOT BE ALLOWED.

**EQUIVALENT METAL THICKNESSES AND GAUGES**

METAL THICKNESS IN INCHES			GAUGE NUMBER
STEEL	ZINC COATED	ALUMINUM	
0.064	0.079	0.060	4
0.079	0.094	0.075	4
0.093	0.108	0.090	5
0.108	0.132	0.105	6

**- LEGEND -**

- <sub>o</sub> = OUTSIDE DIAMETER OF PIPE
- MAX. = MAXIMUM
- MIN. = MINIMUM
- ===== = STRUCTURAL BACKFILL MATERIAL
- ===== = UNDISTURBED SOIL
- EQ. DIA. = EQUIVALENT DIAMETER
- H = FILL COVER HEIGHT OVER PIPE (FEET)



1. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. INSTALLATION TYPE 1 OR 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE (ROUND).
3. INSTALLATION TYPE 1 SHALL BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 20" X 1/2" CORRUGATION.
4. INSTALLATION TYPE 2 MAY BE USED FOR CORRUGATED STEEL OR ALUMINUM PIPE ARCHES WITH 3" X 1/2" OR 5" X 1/2" CORRUGATION.

**GENERAL NOTES**

1. METAL PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS, DATES OTHER THAN NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. METAL PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRPD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2000 WITH 2002 REVISIONS).
3. METAL PIPE CULVERT MATERIALS AND INSTALLATIONS SHALL CONFORM TO SECTION 606 AND JOB SPECIAL PROVISION "METAL PIPE".
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MINIMUM BENEATH TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PERMISSIBLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN SPACES OF PIPE. REFER TO STD. SPEC. FES-2 FOR MINIMUM CLEARANCE WHEN FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN POROUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. WHEN DIRECTED BY THE ENGINEER, UNSATURABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATION (WHICH FULFILLS THE AREA DEFINED AS "STRUCTURAL BEDDING") SHOULD BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE EXCAVATED AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT INDICATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING".
9. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE ABOVE THE AREA DEFINED AS "STRUCTURAL BEDDING", BOTTOM MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BEDDING".

1. FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PENDENT AND/OR BASE.

2. WHERE THE STANDARD 2 1/2" X 1/2" CORRUGATION AND GAUGE IS SPECIFIED FOR A GIVEN DIAMETER, A PIPE OF THE SAME DIAMETER WITH A 3" X 1/2" OR 5" X 1/2" CORRUGATION MAY BE SUBSTITUTED, PROVIDED IT IS GAUGED FOR A FILL HEIGHT CONDITION EQUAL TO OR GREATER THAN THE MAXIMUM FILL HEIGHT CONDITION FOR THE SPECIFIED GAUGE AND CORRUGATION.

DATE	REVISION	DATE FILED

ARKANSAS STATE HIGHWAY COMMISSION

**METAL PIPE CULVERT  
FILL HEIGHTS & BEDDING**

STANDARD DRAWING PCM-1