



BID INVITATION

STANDARD CONDITIONS

M-04-181H

1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (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.
2. **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.
3. **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. 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). 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.
4. **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.
5. **"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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **SAMPLES AND LITERATURE:** Samples or technical literature must be provided within 14 days of AHTD request unless AHTD extends time. Failure to provide samples or literature within this period may cause bid to be rejected. When required, samples of items must be furnished free of charge, prior to or after the opening of bids, and, if not destroyed, will be returned upon request at the bidder's expense. Each individual sample must be labeled with bidder's name and item number. Request for return of samples must be made within 10 days following submission of sample. Samples from successful bidders will be retained for comparison with items actually furnished.
11. **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.
12. **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.
13. **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.
14. **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).

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**SPECIFICATION 04-64-4108**

**FOR**

**CROSSMEMBERLESS DUMP BODY AND HOIST**

**WITH CENTRAL HYDRAULICS**

**5 CUBIC YARDS CAPACITY**

1. **General:** Furnish and install crossmemberless design dump bodies and central hydraulics on AHTD Trucks. Trucks are to be picked up by Successful Bidder at AHTD Equipment and Procurement Division, 11302 Baseline Rd., Little Rock, Arkansas. After installation is complete trucks are to be delivered by successful bidder to AHTD Equipment and Procurement Division, 11302 Baseline Rd., Little Rock, Arkansas.

If distance from Little Rock, Arkansas to bidder's installation facility exceeds a nominal radius of 200 miles, the vehicles must be transported rather than driven to and from the installation facility. The successful bidder will be responsible for the cost of transporting trucks to bidder's installation facility and back to AHTD Equipment and Procurement Division after installation is complete. Successful Bidder shall furnish proof of insurance that would cover the loss of trucks while in his possession.

2. **Dump Body:** Body to be 96" wide outside and no less than 120" long inside (for installation on single axle truck with 84" CA measurement). Shall be all steel, no less than 5 cubic yards struck measure with not less than 6 cubic yard ends. Sides shall be constructed of no less than 10 USS gauge steel with a minimum tensile strength of 50,000 psi. Floor shall consist of no more than one (1) piece and be constructed of T-1 or AR 400 steel with a minimum thickness of  $\frac{3}{16}$ ". Floor to side shall have a minimum radius of 2" or a 45° slope. Front of body shall have no less than two (2) vertical or horizontal braces. Rear brace is to extend to the bottom of longitudinal members of body and be welded to rear apron. Sides shall have sloping rub rails and a top rail constructed of no less than 3" square tubing with a minimum wall thickness of .1875" ( $\frac{3}{16}$ "). Front and rear corners of body shall be provided with slots or gussets and shall have side extensions of "C" channel or formed steel to extend sides to height of ends. Extensions shall be bolted at each end. Each side of body shall have a walk rail of approximately  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " flat steel. Top of walk rail shall be approximately 12" from bottom of body.
3. **Tailgate:** Shall be double acting type with offset upper hinges to assure closing of gate. Upper hinge shall have greasable pins with a minimum diameter of  $1\frac{1}{4}$ " mounted in hardened bushings. Lower pivot of tailgate shall be held in place by tailgate control hooks. The latching mechanism for the tailgate control hooks shall be air operated. Tailgate shall be equipped with chains and hooks (or key hole eyes) for lowering to any position, or for spread control. When tailgate is down in horizontal position the tailgate shall be level with dump body floor with a space of not more than  $\frac{1}{2}$ " between body and bottom of gate.
4. **Body Prop:** Shall have a minimum of one (1) body prop to protect personnel working under body while raised. If only one body prop is used, it shall be mounted on left side of truck. Body prop/s shall be so designed that when placed in position it/they will remain in proper position to engage the body without being held in place or guided by the operator or an assistant.
5. **Cab Protector and Shovel Rack:** Cab protector shall be constructed from not less than 10 USS gauge steel and be incorporated as part of front slots or gussets for side extensions. Shall extend no less than 24" over cab and no less than 2" above cab. Shall be full width of bed and have gussets welded on each side for support. Front lip shall be formed from piece of sheet steel that makes protector and extend approximately 2" above top of protector. Sides are to extend above top of protector approximately 2". Shovel rack shall consist of two steel "L's" welded to the cab protector at front of bed of correct size and spacing to hold a square or round point shovel and a handle ring approximately 3" in diameter welded at bottom front of bed.
6. **Understructure:** Body furnished shall be crossmemberless design. Longitudinal members to be no less than 5" channel, 9 pounds per foot steel with a minimum tensile strength of 50,000 psi, or structural shape and size of equal strength. Rear of body is to have full depth and width apron no less than 8" deep from floor of body constructed of not less than 8 USS gauge steel with a minimum tensile strength of 50,000 psi. All structural members shall have adequate bracing. Longitudinals shall be welded at rear to apron.
7. **Subframe:** Steel hoist subframe to act as sills between chassis and body longitudinals to be no less than 8 USS gauge steel with a minimum tensile strength of 50,000 psi. Subframe shall be adequately reinforced.
8. **Body Hinge:** Shall be heavy duty steel welded to longitudinals, or attached with Grade 8 bolts. Lower hinge to be incorporated in hoist subframe. Hinge shaft shall have a minimum diameter of  $1\frac{1}{8}$ " and be retained in such a way that the shaft does not rotate during operation of the body. Hinge assembly shall be greasable.

9. Hydraulic Hoist: Shall be underbody type (twin arm or combination twin arm and scissor) with double acting cylinder. Shall be Class 40 or better with a minimum capacity of 13.5 tons, as rated by NTEA. Hoist shall be capable of raising the body to an angle of no less than 50 degrees with a 12" overhang and shall control the position of the body throughout the entire dumping cycle. The hoist shall stop automatically when the body reaches the maximum dumping angle and retain its position until released.
  10. Hydraulic Pump: Shall be a variable displacement piston pump with a pressure-flow closed center load sensing hydraulic system and have a minimum displacement of 2.70 cubic inches per revolution. Shall have two (2) compensators with external screw adjustment mounted on pump. Hydraulic pump shall have sufficient capacity to operate a dump hoist, snow plow and material spreader/hydraulic tool circuit. Pump shall be direct mounted to PTO with not less than a 7/8" 13 tooth splined input shaft.
  11. Hydraulic Valves: Shall be electric solenoid operated pressure compensated, internal load sensing logic, closed center with manual override. All solenoids will operate on 12 volts DC and be interchangeable. Shall have dust & water tight electrical connections. Valve stack shall consist of five (5) sections to operate the following functions:
    - A. Hoist: Valve to operate a double-acting cylinder to raise, hold and lower dump body. Pressure to lower dump body shall be limited to 800 psi maximum
    - B. Plow Raise/Lower: Valve to operate a single acting cylinder to raise, hold and lower snow plow. Valve shall incorporate flow limiter/restrictor to allow maximum flow of not more than 10 gpm.
    - C. Plow Angle: Valve to operate two (2) single acting cylinders to control right and left angle of plow. Valve shall incorporate flow limiter/restrictor to allow maximum flow of not more than 10 gpm. Shall have work ports open to tank with pressure blocked in center or neutral position.
    - D. Spinner: Proportional directional control valve to control flow to spinner motor from 0 to a maximum flow of not less than 7 gpm. Shall have work ports open to tank with pressure blocked in center or neutral position.
    - E. Conveyer/Tool Circuit: Proportional directional control valve to control flow to conveyer motor/tool circuit from 0 to a maximum flow of not less than 14 gpm. Shall have work ports open to tank with pressure blocked in center or neutral position. Pressure and tank lines shall be branched to allow operation of conveyer motor from rear of truck and tool circuit from left side of truck immediately behind cab below left corner of dump body.

Valves and electrical connections shall be mounted in a metal box with removable cover for protection from dust and weather. Box shall be mounted on side of frame so that hoses, fittings, etc. are not located below truck frame rails.
  12. Control Panel: Shall be mounted in cab of truck in a location convenient to the operator. Shall have pilot lights and spring loaded DPDC rocker switches labeled for the following functions: dump body raise and lower, snow plow up and down, snow plow right and left. Shall have colored pilot light and SPSC rocker switch labeled for the following function: red - PTO on/off. Shall have control panel with power on/off switch for spinner and conveyer/tool circuit functions. Panel shall include calibrated control knobs for adjustment of spinner and conveyer/tool circuit with additional switch to deliver more material at intersections, crossroads, etc. (blast button). Holes cut in cab floor or firewall shall be properly sealed and/or insulated.
  13. Air Operated Tailgate Latch Control: Shall be located in cab of truck in a location convenient to operator. Control shall be clearly labeled as to function.
  14. Hydraulic Reservoir: Shall have a minimum capacity of 30 gallons with internal baffles, removable wire mesh suction screen, filler opening screen, magnetic drain plug and air tight fill cap. Suction outlet to be approximately 2" from bottom and return inlet below oil level.
  15. Hydraulic Filter: Hydraulic system shall have a minimum 45 gpm filter with not less than a 10 micron spin on element in the return line to reservoir. Filter shall have an internal bypass and condition indicator gauge.
  16. Power Take-Off: Shall be a two (2) gear type with flange bracket for direct mounting to hydraulic pump and be equipped with 12 volt electric air shifter. Bearings shall be a high grade needle or roller bearings.
    - A. PTO shall remain engaged until it is dis-engaged by the operator. Control unit with automatic "kick-out" is not acceptable due to the necessity for spot dumping and material spreader applications.
    - B. Power take-off shall operate at not less than 85% or more than 125% of engine speed.
    - C. Power take-off provided shall be for mounting on right side of Fuller FSO-8406A six speed manual transmission in 33,000 lbs. GVWR Chevrolet C7C042 single axle trucks with regular cab and 84" CA. If right side mounting is not possible, left side mounting will be acceptable.
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17. Additional Equipment: All hydraulic lines (including those to plumb system to front, rear and side of truck), quick couplers (male and female) with caps and plugs required for each function of control valve, all necessary bolts, washers, nuts for mounting on trucks with 84" CA measurement shall be furnished. All hydraulic hoses to front and rear of truck shall be mounted in frame rails and quick couplers with caps and plugs shall be labeled as to function. Shall have mud flaps no less than 24" wide and ¼" thick, without advertising, mounted behind rear wheels.
18. Frame Cut-Off: If the installation process requires the rear frame rails to be cut off to allow the body to reach proper dump angle, only the amount required to allow proper operation should be removed. It is necessary that enough frame material be available behind the spring brackets to allow installation of a pintle hitch or other towing equipment if such items are deemed necessary by the receiving District.
19. Lights and Reflectors: Side marker and clearance lights shall be bolt on, armored type. Reflectors shall be bolt on type. (Recessed, rubber mounted, snap-in lights with reflector type lens and plug-in connectors may be used in lieu of armored lights and bolt on reflectors.) Lights, including center mounted three light cluster, and reflectors shall comply with Federal Motor Vehicle Safety Standard FMVSS108. Stop, tail and turn signal lights that are furnished with truck shall be left in place unless relocation is required to mount body. An additional recessed and rubber mounted LED stop, tail and turn signal light with approximate dimensions of 2" wide x 6" high shall be mounted in each rear corner post. Lights to be located from slightly below to slightly above center point of corner posts.
20. Tarping System: A dump body covering system (Aero Industries Model 400, or approved equal) shall be furnished and completely installed on top of the dump body cab protector. (Installation on back side of cab protector or inside dump body is not acceptable.) System shall consist of a roll-up bar with ground-level operated crank assembly, a wind deflector, spring loaded arms and a tarp. Length shall be adequate to properly cover the dump body. The crank assembly must utilize a ratchet and pawl as a positive locking device, as well as a friction brake to control the arm speed while covering the load. The locking device must automatically re-engage if the operator's hand is removed from the crank handle. The crank assembly shall use no less than #40 roller chain to drive the roll-up bar. All chains, sprockets, etc. shall be covered by a protective guard. The tarp furnished with the system shall be constructed of a light weight material suitable for covering asphalt. All parts and accessories necessary for proper operation of the dump body tarping system shall be furnished.
21. Serial Number: Each unit shall be provided with a manufacturer's serial number, unique to each unit, permanently attached by plate or engraving. This shall be placed in a discreet location. No additional dealer's or manufacturer's advertisement shall be placed on the body without prior approval of AHTD.
22. Color: Body shall be primed and painted Sherwin Williams F1B-4009 Gloss Black Enamel, or equal. The inside bottom of the body does not have to be finish painted, however a minimum of one (1) coat of primer is required.
23. Warranty: Units purchased under this specification shall be warranted against defects in material and workmanship for a minimum period of twelve (12) months (365 days) from date unit is placed in operation by AHTD.
  - A. Warranty shall include all parts, labor and transportation costs to the location of equipment.
  - B. If equipment cannot be repaired on location, warranty shall include cost of transport to the facility where the repair work will be done.
  - C. It will be the responsibility of the successful bidder to insure that repairs are completed in a timely manner.
  - D. Recent prior failure to provide warranty-work, parts, replacement parts or service, in a timely manner, for equipment from the same manufacturer or dealer shall be grounds for the rejection of any submitted bid, or for the denial of any otherwise qualified low bidder, whether such failure is attributable to the manufacturer or the dealer of the equipment. For the purposes of this paragraph "timely manner" means a period of time not exceeding thirty (30) calendar days to provide requested warranty-work, parts, replacement parts, or service. For the purposes of this paragraph "manufacturer" means the original manufacturer of the equipment and its successor or successors, regardless of number, and whether acquired by sale, merger, or otherwise. For the purposes of this paragraph "replacement part" means a part redesigned by a manufacturer to correct a design or engineering defect and which replacement part is capable of providing dependable performance in normal operation conditions for its normal service life without failure. Such bid or bids may be rejected by the Department until such failure or failures have been remedied to the satisfaction of the Department and until such manufacturer or dealer is providing such warranty-work, parts, replacement parts, and service in a timely manner.
24. Manuals: Successful bidder shall furnish one (1) copy each of Parts Book, Hydraulic Schematic and Service Instructions with each body delivered. In addition, one (1) copy each of Parts Book, Hydraulic Schematic and Service Instructions shall be furnished to Equipment and Procurement Division, P.O. Box 2261, Little Rock, Arkansas 72203 (11302 W. Baseline Road, Little Rock, AR 72209 if shipping UPS, FedEx, etc.).

The successful bidder may provide Parts Manuals on computer media (CD ROM, Floppy Disks, etc.) in lieu of printed manuals.

25. Current Model: Units furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, built for the U.S. market, and shall be of quality workmanship and material. Machines manufactured for foreign markets will not be accepted. All equipment offered under this specification shall be new. Used, reconditioned, shopworn, demonstrator, prototype or discontinued models are not acceptable. Manufacturers of the units supplied must have been in the business of producing operational units for at least two years and must have recently sold similar units to domestic governmental agencies. The model furnished must have been in production for a minimum of one year, or be the latest version of a previous model. Bidder/s may be required to submit documentation substantiating the aforementioned requirements. A list of user references may also be required.
  26. Units shall be assembled, adjusted and made ready for continuous operation at time of delivery.
  27. The AHTD reserves the right to inspect bodies during manufacture or prior to their installation for compliance with specifications and to inspect hydraulics installation during work in progress. Location of hoists on truck chassis shall be approved by AHTD prior to installation. All workmanship shall be first class (no welding on truck frame to install dump body hoist). Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer.
  28. Due to the nature of work performed by AHTD, any body-hoist combination furnished under this specification may be subject to use under adverse conditions such as dumping on road shoulders at a slight angle and spot dumping of loads. The design and strength characteristics of the entire dump unit shall be such that the unit structural members and the hoisting system shall suffer no deformation, damage or structural failure resulting from raising a full payload under these conditions.
  29. Demonstration: The Arkansas State Highway & Transportation Department reserves the right to require a demonstration, under actual working conditions, of equipment bid under this specification before award is made. The demonstration would be performed (free of any charge) by the bidder or an authorized representative at a mutually acceptable location. If requested, the bidder should be prepared to demonstrate the equipment within thirty (30) days after notification. Failure of the bidder to perform a satisfactory demonstration within the specified time may be grounds for rejection of the bid.
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