

## NOTICE TO BIDDERS

### **Purchase of Dump Trucks Worcester County, Maryland**

The Worcester County Commissioners are currently accepting bids for the purchase of two (2) new current production model Dump Trucks with a 10-foot dump body and attachments and accessories for the Roads Division of Public Works. Bid specification packages and bid forms are available from the Office of the County Commissioners, Room 1103 - Worcester County Government Center, One West Market Street, Snow Hill, Maryland 21863, obtained online under the "Bids" drop-down menu in the lower right hand side of the home page at [www.co.worcester.md.us](http://www.co.worcester.md.us), or by calling the Commissioners' Office at 410-632-1194 to request a package by mail. **Sealed bids will be accepted until 1:00 PM, Monday, August 7, 2017** in the Office of the County Commissioners at the above address, at which time they will be opened and publicly read aloud. Envelopes shall be marked "**Bid for Dump Trucks**" in the lower left-hand corner. After opening, bids will be forwarded to the Department of Public Works for tabulation, review and recommendation to the County Commissioners for their consideration at a future meeting. In awarding the bid, the Commissioners reserve the right to reject any and all bids, waive formalities, informalities and technicalities therein, and to take whatever bid they determine to be in the best interest of the County considering lowest or best bid, quality of goods and work, time of delivery or completion, responsibility of bidders being considered, previous experience of bidders with County contracts, or any other factors they deem appropriate. All inquiries shall be directed to Frank Adkins, Roads Superintendent, at 410-632-2244, Monday through Thursday, between 6:00 am and 4:30 pm.

# **BID SPECIFICATIONS**

## **1. Bids**

- A. Bids should be submitted in sealed envelopes clearly marked in lower left-hand corner "**Dump Truck Bid**".

## **2. Late Bids**

- A. Bids should be mailed or hand-carried to be received in the Office of the County Commissioners by or before **1:00 p.m. on August 7, 2017**. Bids received after the appointed time will not be considered.

## **3. Taxes**

- A. The County is exempt from all Federal and States taxes. Therefore, bidders' price should reflect the same.

## **4. Scope of Work**

- A. To supply two (2) dump trucks with 10 ft. dump body and attachments/accessories.
- B. Vendor is responsible for delivery of awarded vehicle to the Department of Public Works - Roads Division at 5764 Worcester Highway, Snow Hill, Maryland 21863. All paperwork will accompany vehicles, as the County will be responsible for acquiring their tags and titles.

## **5. Payment**

- A. Submit payment to the Department of Public Works – Roads Division for review and processing upon delivery of said new vehicle purchase.

## **6. Award of Contract**

- A. Bids will be opened by the Chief Administrative Officer or Assistant Chief Administrative Officer in the Office of the County Commissioners and read aloud at **1:00 p.m. on August 7, 2017**.

- B. The Department of Public Works shall prepare a tabulation of said bids and a recommendation to the County Commissioners at the next regular meeting of the Commissioners. In awarding the bids, the Commissioners reserve the right to reject any and all bids, waive formalities, informalities and technicalities herein, and to take whatever bid they determine to be in the best interest of the County considering lowest or best bid, quality of goods and work time of delivery or completion, responsibility of bidders being considered, previous experience of bidders with County contracts, or any other factors they deem appropriate.

## **7. Vehicle Specifications**

The following specifications represent two (2) cabs and chassis, **current production model**, or equivalent for Worcester County Public Works- Roads Division. Trucks are to be equipped with 10 ft. heavy duty contractor body, tool box, electric controls/central hydraulics, pintle hitch, snow plow, tarp, and attachments.

### **Base Chassis:**

179.0" wheelbase;  
104.0" cab to axle;  
104.0" usable cab to axle;  
65.0" axle to frame.

### **Frame:**

120,000 PSI yield heat treated alloy steel frame rails;  
120,000 PSI yield frame reinforcement;  
Steel front swept back bumper;  
Frame mounted tow hooks (2) front and (2) rear;  
Chassis coating – corrosion resistant primer coating for reinforced frame rails in addition to standard procedures.

### **Front Axle and Suspension:**

I-Beam type with 14,000 lb. capacity;  
Multi-leaf front spring, shackle type with 14,000 lb. capacity;  
Shock absorbers;  
Spring pins rubber bushings, maintenance free.

### **Rear Axle and Suspension:**

23,000 lb. capacity with 200 wheel ends;  
Magnetic rear axle drain plug;  
23,500 lb. capacity vari-rate multi-leaf springs;  
4,500 lb. capacity auxiliary multi-leaf springs;  
Gear ratio: 5.38.

### **Air Brake System:**

ABS brakes;  
Dual system for straight truck applications;  
Dust shields front and rear;  
Air Compressor supply line, naturally aspirated;  
Color and size coded brakes lines;  
Automatic brake slack adjustors (front and rear);

Air tank drain valves with pull chains for air tank;  
16.5" x 5.0" S-Cam front brakes, includes 20 sq. in. long stroke brake chamber;  
16.5" x 7.0" S-Cam rear brakes, includes 30/30 sq. in. long stroke brake chamber;  
Air dryer with heater located inside left rail, back of cab;  
Bendix Tu-Flo 550 air compressor – 13.2 CFM capacity.

\*Brake system air tanks should be mounted under battery box, or within frame rails to allow as much ground clearance as possible. Should either of these locations interfere with body builder please contact Worcester County to discuss alternatives before proceeding with chassis build.

### **Exhaust System:**

Switchback single, horizontal, aftertreatment device frame mounted outside right rail under cab, includes vertical tail pipe and guard;  
Muffler / tail pipe guard non-bright finish;  
Tail pipe (1) turnback type, non-bright, for single exhaust.

### **Electrical System:**

12 volt standard equipment;  
(2) Maintenance free 12 volt 1300 CCA batteries;  
Self-canceling turn signal switch;  
Day time running lights included with headlights (2);  
Headlight dimmer switch integral with turn signal lever;  
Headlights (2) sealed beam, round, with chrome plated bezels;  
Jump start stud located on positive terminal of outermost battery;  
One electric horn;  
Back-up alarm, electric;  
Turn signals, front LED includes LED side marker lights, mounted on fenders;  
12 Volt - 200 Amp alternator;  
AM/FM radio;  
Two speed with wash and intermittent windshield wipers;  
Low oil pressure/high coolant temperature (light and alarm);  
Manual reset circuit breakers;  
Trailer auxiliary feed circuit for electric trailer brake accommodation/air trailer ABS, with 30 amp fuse and relay, controlled by ignition switch;  
2-Way radio wiring effects – wiring with 20 amp fuse protection, includes ignition wire with 5 amp fuse, wire ends heat shrink and routed to center of header console in cab;  
Auxiliary harness 3.0' for auxiliary front head lights and turn signals for front plow applications;  
Electric trailer brakes/lights accommodation package to rear of frame, for combined trailer stop, tail, turn, marker light circuits – includes electric trailer brake accommodation package with cab connections including electric brake control, wiring, and trailer socket installed;  
Switch, toggle, for work light, lighted – on instrument panel and wiring effects for customer furnished back of cab light;  
Body builder wiring back of standard cab at left frame or under extended or crew cab at left frame – includes sealed connectors for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn.

### **Front End:**

Fiberglass tilt hood and fenders;  
Mud flaps;  
Stationary grill, chrome;  
Insulation under hood for sound abatement;  
Insulation, splash panels for sound abatement.

**Paint:**

White;  
Clear coat.

**Engine:**

Inline six cylinder wet sleeve diesel engine;  
Minimum: 315 HP @2000 RPM;  
Minimum: 950 lb. ft. torque @1200 RPM;  
Electric engine shutdown;  
Spin on type oil filter;  
Engine mounted water filter;  
Engine mounted fuel filter(s);  
Block heater;  
Electronic road speed governor;  
Hand control throttle;  
Federal emission standards;  
Horton drivemaster polar extreme fan drive;  
Air cleaner dual element.

**Transmission:**

6 speed Allison 3500 RDS P;  
PTO transmission mounted constant drive;  
Transmission oil synthetic – 29 thru 42 pints;  
Automatic neutral Allison WT transmission shifts to neutral when parking brake is engaged and remains in neutral when park brake is disengaged.

**Radiator:**

Aluminum radiator cross flow with transmission air cooler;  
Deaeration system with surge tank;  
Premium rubber radiator hoses.

**Fuel Tank:**

70 gallon capacity with step, mounted left side under cab;  
DEF tank – 7 gallon.

**Cab:**

Black rubber floor covering;  
Conventional cab;  
Arm rest (2);  
Clearance marker lights LED, flush mounted;  
Tinted windows;  
Mirrors (2) rectangular 7.55" x 14.1" convex both sides, breakaway type with brackets and arms;  
Gauge cluster (engine oil pressure, water temperature, fuel, tachometer, voltmeter), English  
Bench seat or driver seat with two man passenger, vinyl with seatbelts;  
Air conditioner with integral heater and defroster;  
Single trumpet mounted air horn;  
Cab interior trim, deluxe;  
Grab handles (interior and exterior);  
Steps – two steps per door.

### **Tires and Wheels:**

22.5 x 8.25 hub piloted, painted steel disc wheels, front and rear – 2 hand hole, 10 stud;  
11R22.5 (2) Goodyear load range H, 16 ply tires, front;  
11R22.5 (4) Goodyear load range G, 14 ply tires, rear;  
Front oil lubricated wheel bearings;  
Wheels to be painted white.

### **Body and Hydraulics:**

10' 300U with 30" sides;  
36" cab protector;  
3/16" high tensile steel floor;  
8 gauge body (sides and ends);  
Air tailgate with dirt shedding inverted "V" on top of tailgate;  
Hide-A-Step with grab handle – passenger side;  
Adapt glad hands to pintle plate;  
Oval LED mounted on their side between frame rails on pintle plate – (2) red (1) clear;  
Dual ovals in rear corner post for (1) LED amber strobe, (1) LED red stop, tail, turn;  
Hot shift PTO;  
Bolt on rear spreader apron;  
PH20 pintle hitch mounted 30" from ground;  
Snow plow lights;  
Electric brake control with 7-pin spade plug;  
(2) LED amber MDSHA mini light bars mounted on cab protector (self-level brackets);  
Sealed wiring harness;  
Reinstall rear tow hooks;  
820SFDA-10 P22 hoist;  
14"x 36"x 84" behind cab aluminum tool box – AERO or equal;  
Reinforced front bumper wrap;  
Snow plow push frame (GN200) adding gussets;  
Good Roads Model 120M 10' x 36" snow plow or equivalent;  
Power angle locking;  
Curb bumpers;  
Mold board end markers;  
Delete adjustable caster shoes;  
Rubber snow shield;  
All controls must be labeled and illuminated;  
Lines extended to rear of chassis for future spreader use (with connections);  
Hydra Tarp System with mesh tarp and wind deflector;  
Rocker switch central hydraulics;  
Rear rubber flaps;  
Steel front mud guards;  
Paint with powder coat PCTZ89107 White – to match cab. Over zinc oxide primer;  
Back up alarm;  
Rust proof and undercoat body;  
Grip strut between standards;  
Steel valve body box and valves installed outside of frame rail;  
Steel oil reservoir and sight gauge installed outside of frame rail.

\*Total overall height of vehicle including lights not to exceed 134".

**Tool Box:**

Shall be mounted behind cab;  
Aero or equal and shall be approximately 14" in height and approximately 84" wide;  
Height shall be from bottom of cab to bottom of rear window;  
Shall be constructed of .1875 thick 5454H32 aluminum;  
Tool box opening shall be at least 12" wide;  
Box shall have 3/4 plywood on floor;  
Box shall have 3/4 plywood shelf halfway up the box;  
Box shall have full height door on each side opening toward front of vehicle;  
Interior dome light with toggle switch;  
Box doors shall have automotive type seal.

*It is the purpose of these specifications to describe a bumper to frame type snow plow hitch designed for medium to large weight truck. Parts not specifically mentioned - which are necessary to provide a complete and operational unit shall be included in the bid and shall conform in strength and quality of material and workmanship to what is provided to the trade in general.*

**Two Way Power Angling Snow Plow (Good roads 120M 10 x 36 or equal):**

Mouldboard shall be formed using 10 gauge Hot Rolled Steel;  
Minimum of 8 vertical 1/2" x 3" ribs with 2 ribs at center hinge point;  
2 rows of 1/2" x 3" horizontal ribs running length of mouldboard;  
Moldboard shall be 10 ft. wide and 36" high;  
Top of mouldboard shall be channel formed;  
Bottom of mouldboard shall have back up angle of not less than 3 1/2" x 3 1/2" x 1/2" angle gusseted;  
Sheet shall extend downward below the holes for the cutting edge;  
Mouldboard shall be equipped with a built-in snow shield of 10 gauge steel;  
Cutting edge shall be 3/4" x 6" full length with carbide insert;  
Cutting edge shall have 11/16 square holes punched and be replaceable;  
Two way power angle plow to be equipped with hydraulic cylinders, for angle operation;  
The semi-circle angle shall be rolled down 3 1/2" x 3 1/2" x 1/2" angle with a front tube of 4"x 4" x 3/8" square tube running a minimum length of 116" along the rear of the mouldboard;  
Semi-circle shall be attached to the mouldboard at five points with the outside points measuring a minimum of 116";  
Fully automatic trip device mounted on the semi-circle with heavy duty trunnion support sockets with grease fittings;  
Trip device shall consist of 2 fully enclosed trip springs with a minimum of 5/8" diameter contained in a 6" OD 10 gauge tubular housing;  
Recoil springs shall also be provided on the spring rod to cushion return action;  
Push frame members shall be 4" x 13.8 lb. ship channels and connected by means of an equalizer bar at the end with front bumper wrap reinforcement over OEM bumper or equal to include front tow hooks. Chassis dealer to supply all required wiring codes to be used by body outfitter;  
Drive bar ears shall be a minimum of 1 1/2" thick, 21" apart with holes drilled to accommodate 1 1/4" drive pins;  
Drive pins shall be 1 1/4" with painted ends and fabricated of heat-treated, hardened steel;  
Pin locking mechanism shall be provided to hold snow plow in a set position;  
Length of push frame from moldboard attaching point to the truck hitch attaching point shall be 36" and shall allow sufficient bumper clearance at 42 degrees left and right;  
Mouldboard to have curb bumpers;  
Mouldboard end markers shall extend 28" and be of high visibility;

Mouldboard shoes #62100352 Goodroads are required or equal;  
Driving lights shall be impact resistant polycarbonate housing, rectangular in design with a quartz Halogen beam, part of fender mount;  
Lights shall have integrated turn signal and parking lamp;  
Lights to be mounted on fenders of truck;  
Unit is to be painted Tangerine;  
Hydraulic lift cylinder shall be 4" bore x 10" stroke with chrome plated rod and minimum 2000 PSI working pressure;  
Unit to be equipped with snow shield assembly.

*The **Hydraulic System** described herein is to supply power to operate the dump body hoist cylinder, snow plow, lifting cylinder, power angling, spreader spinner and auger functions. The system shall permit completely independent, yet simultaneous operation of the dump body hoist and spreader. The hydraulic system shall return fluid back to the reservoir when all circuits are "OFF".*

### **Hydraulic System:**

Hydraulic/Hot Shift PTO with direct mount flange and P22 commercial pump;  
Pump inlet suction shall not exceed five (5) inches mercury vacuum at start-up and positive pressure on inlet not to exceed 5 PSI during normal operation;  
Main system bank control valve shall have 6 bank electric solenoid controlled valves;  
Spreader On and Off valve "A" will direct flow of oil to dual flow control valve, must be inside cab;  
Circuit to incorporate pressure compensated flow divider;  
Regulated flow to mid inlet, excess flow to spreader unit;  
Oil split to provide 6 gallons to body and plow lift;  
Body lift circuit, Valve "B" will direct system flow to a double acting hoist cylinder. The adjustable priority flow regulator is to be pressure compensated type with by-pass port;  
Valve is to be set so that a portion of system flow will be directed to body hoist cylinder so that its speed of elevation is such that it will not affect operation of spreader;  
Relief valve back to tank is to be incorporated in the line to the rod end of the cylinder and is to be preset to cylinder manufacturer's specifications;  
Plow lift circuit Valve C will direct flow to a double acting 4" x 10" lift cylinder;  
Plow reverse circuit Valve D will direct flow to the plow reversing cylinders;  
Valve will have a motor spool to allow plow lock to engage when return to neutral position;  
Control valve shall be mounted outside the frame rails directly behind the cab in an aluminum box. Valve shall be controlled by cab mounted electric switches within easy reach of driver. All controls are to be labeled and illuminated;  
Oil reservoir is to be at least 30 gallon capacity - all steel construction, and mounted to chassis frame with flanges which are welded to tank and bolted to frame;  
Return filter to be 50 G.P.M. minimum and contain an electric pressure sensor and bypass circuit to activate a dash warning light when element is clogged;  
Filter shall have a 10 micron rating;  
Suction line is to have an in-tank suction strainer and shall have a 125 micron rating - a 30 P.S.I. bypass and a 2" minimum port;  
Reservoir to be equipped with a filler breather with mesh basket and chain;  
Reservoir must contain a 5" level temperature indicator;  
Reservoir to be equipped with 3/4" magnetic drain plug located at the lowest point;  
One hydraulic test point must be installed permanently in the pump discharge line at a convenient point. All connections between the test points and tester shall be of quick disconnect type. All flow, pressure and temperature of simultaneous or individual functions of the entire hydraulic system must be measured from 1 point;



Suction line shall enter the front side of the tank a few inches off the tank bottom;  
Suction line shall be a minimum of 2" I.D. and be connected through a 2" full flow ball valve directly mounted to tank;  
Suction line shall be equipped with replaceable strainer;  
Return line shall enter tank above oil level, extend to near the bottom of tank and be equipped with a replaceable automotive type 10 micron filter;  
Return line filter shall have a condition indicator gauge;  
Liquid level switch shall be provided in tank which will activate a red warning light in cab when tank level drops to 1/2 capacity;  
Dash mounted light to be clearly labeled;  
Reservoir tank to have sight gauge;  
Hydraulic system must totally shut down all pump flow to system when hose failure occurs;  
System shall be piped with high pressure hose long enough and pliable enough to ensure easy removal and installation;  
Hoses to be equipped with JIC swivels on each end;  
Lines equipped with quick couplers and dust caps shall extend to vehicle rear for spreader operation and to the front bumper for plow lift cylinder and plow reversing cylinder.  
Couplers on these lines shall be reversed, male-female to prevent incorrect hook-up and mounted in collector manifolds;  
Couplers shall be furnished as complete sets. In cases where the lines are not connected to equipment, the mating part of each coupler shall be furnished as on-vehicle equipment;  
Lines shall be clearly and permanently labeled at collector manifolds;  
Fittings shall be permanently attached on hoses with swivel joints located at ends of each hose assembly.

**Tarp System:**

New 22 hydraulic operated tarp system with heavy duty arms;  
Include mesh tarp, cab control operated and wind deflector.

**Warranty:**

Extended warranty - 60 months or 150,000 miles from delivery date to include engine, engine electronics, injectors, front axle, rear axle, propshaft, and transfer case;  
Extended warranty – 60 months – Allison Transmission;  
Exhaust after treatment extended warranty – 60 months or 100,000 miles.

**Miscellaneous:**

One spare disc wheel 22.5 x 8.25;  
Service Manual (Chassis);  
Operator's Manual (Chassis);  
Lineset Tickets (Chassis);  
Parts Books (Body & Hoist);  
Operator's Manual (Hydraulic System);  
Parts Manuals (Hydraulic System);  
Repair Manual (Hydraulic System);  
Parts Manual (Snow Plow);  
Successful body vender to complete and deliver back to successful chassis vender;  
**\*Title fee to be included in bids\*.**

**If there is any specification differences please make sure to note them when submitting your bid.**

## **BID FORM**

### **Worcester County Department of Public Works – Roads Division “FY18 - Purchase of Two Dump Trucks”**

I/We have reviewed the specifications and provisions for furnishing/delivering two (2) dump trucks with 10 ft. dump body and attachments/accessories and understand said requirements as stated herein. I/We hereby propose to furnish and deliver the following:

**Two (2) dump trucks with 10 ft. dump body and attachments/accessories (current production model):**

Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_

Total Cost Per Unit: \$ \_\_\_\_\_

Total Bid Price including delivery: \$ \_\_\_\_\_

*If there is any specification differences please make sure to note them when submitting your bid.*

Delivery To: Department of Public Works – Roads Division  
5764 Worcester Highway, Snow Hill, MD 21863

Described unit will be delivered by: \_\_\_\_\_

**BID MUST BE SIGNED AND SPECIFICATIONS MUST BE ATTACHED TO BE  
CONSIDERED.**

Date: \_\_\_\_\_

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

Typed Name: \_\_\_\_\_

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

Firm: \_\_\_\_\_

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

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