

TOWN OF SIMSBURY
DEPARTMENT OF PUBLIC WORKS
INVITATION TO BID
FOR
Minimum 40,780 G.V.W. TRUCK
WITH
PLOW HITCH, HYDRAULICS AND ALL SEASON DUMP BODY SPREADER
FOR
HIGHWAY DEPARTMENT

Sealed bids will be received at the Office of the Director of Finance, PO BOX 495, 933 Hopmeadow St. (Rt. 10/202), Simsbury, CT 06070, until July 14, 2010, at 10:00 a.m., E.D.T., at which time they will be opened in public. Bids received after time set for the opening will be rejected.

Specifications and forms of proposals on which bids must be submitted may be obtained in the Office of the Public Works Department, 66 Town Forest Road, Simsbury, CT.

The right is reserved to reject any or all bids or to waive defects in same if it be deemed in the best interest of the Town of Simsbury. The Town may elect to waive all bids if other public bids, i.e. Regional, State, or Federal will provide an advantage over bids received by the Town of Simsbury.

Public Works Department
Town of Simsbury
June 22, 2010

INFORMATION FOR BIDDERS

Proposals

Proposals must be made on the blank forms furnished and be enclosed in a sealed envelope addressed to the Director of Finance, Town Hall, Simsbury, CT, endorsed "**BID, TRUCK**" with the name of the bidder and, the date and time of Bid opening on the envelope. Items will be bid as outlined on the Bid Form. Information sheets must be completed. Brochures shall be supplied with all bids indicating equipment proposed to be furnished. Bids shall not include excise or State sales and use taxes.

Where trade names and catalog numbers are used, it is for the purpose of identification and minimum standards only. All items described in this manner are to be "OR APPROVED EQUAL". There are no restrictions as to manufacturers, suppliers, distributors, dealers, etc.

Occupational Safety and Health Act and Department of Transportation Requirements

All equipment supplied and installed shall be in complete accord with the requirements as set forth by the Occupational Safety and Health Act, and the Department of Transportation.

Certified Check or Bid Bond to Accompany Proposal

Bidders will be required to furnish a bid bond, certified check or legal tender for **5%** of the amount of their bid with their proposal; said bid bond or check to be drawn to the order of the Director of Finance, Town of Simsbury.

Delivery

Delivery shall be made F.O.B. to the Town of Simsbury Highway Garage, Simsbury, Connecticut, complete and ready for use. Please state your guaranteed delivery date in space provided on proposal sheet. Delivery date shall be a factor in analyzing recommendations for purchase of various equipment.

As the Town is interested in the purchase of equipment that the dealer may have on hand at present it would be willing to waive some minor portions of the specifications if this be the case. Please indicate if immediate delivery is available on the bid, **and note all variations from the specifications** on a separate sheet attached to the Bid Proposal.

INFORMATION FOR BIDDERS

Guarantee

The Manufacturer warrants its products for a minimum of one (1) year after the date of delivery to the initial user. This warranty is limited to the repair or replacement, as the Manufacturer may elect, at one of its factories designated by it, of such parts as shall appear to the Manufacturer upon inspection to have been defective in material or workmanship; this includes any installation or transportation costs. State warranty period if over one year, on the Bid Form.

Demonstration

Bidders may be asked to demonstrate their equipment as part of the bid evaluation.

SPECIFICATIONS
NEW 40,780 G.V.W. TRUCK

TYPE OF TRUCK

The truck chassis required under these specifications shall be of the conventional two-(2) axle type, with a manufacturer's published gross vehicle weight rating of not less than 37,500 pounds.

DIMENSIONS

C.A. 96". For mounting 10' body, wheelbase 159".

ENGINE

Mid range, turbo-charged, diesel, minimum 300 horse power at 2200/2400 RPM and 800# FT. torque. Engine to be either a 6 cylinder in-line type with replaceable wet type sleeves, or a rebuildable V-8. Engine to be equipped with hour meter, hub to accommodate front mount PTO universal, heavy duty spin on type oil and fuel filters, heavy duty dry element air cleaner, engine governor set at engine manufacturer's specified RPM's, and viscous fan clutch drive, Kysor Engine Warning System, engine mounted Roosa-Master fuel water separator, International DT 466 or CUMMINS C8.3 or equal.

TRANSMISSION

Automatic, heavy-duty type, five speed electronic, Allison MD 3560/WR, with P.T.O. gear, with shift lever (not push button).

FRAME

Standard frame with a rating of 120,000 psi, 15.9 S.M., with full "C" channel frame reinforcement to end of frame, RBM per rail 1,749,000 LB-IN. Extended front frame to accept plow push frame.

FRONT AXLE

Factory rating of not less than 16000 pounds and equipped with air actuated CAM-type brakes with 16 1/2" x 6" brake drums or equivalent, with Bendex ASA5 automatic slack adjusters.

REAR AXLE

Factory rating of not less than 26,000 pounds Rockwell RS26-185, Trac-Teck-no spin, 6.83 axle ratio; Planetary Double Reduction, equipped with full air brakes, cam-type, and 16 1/2" x 7" brake drums, with Bendex ASA5 automatic slack adjuster

SPECIFICATIONS for new 40,780 G.V.W. Truck continued
FRONT SPRING

Heavy-duty type, multileaf spring capacity of not less than 9,000 pounds each spring at ground.

REAR SPRING

Heavy-duty type 30,000 pounds at pad and equipped with 4,500 pound 4 leaf auxiliary helper springs.

SERVICE BRAKES

Full air, 13.2 cubic foot compressor. Brakes to meet current D.O.T. requirements of split system, Bendex AD9 Air Dryer with heater and Exhaust Brake.

PARKING BRAKES

Hand operated, independent of service brakes. MGM or equal.

AIR BRAKE TRAILER CONNECTIONS

To include hand control valve, tractor protection valve, parking brake valve, air couplers mounted rear of truck frame -(Truck to tow 6-ton tag-along trailer).

TIRES

Good Year brand.

FRONT

Heavy-duty, tubeless first line, regular truck tread 12R x 22.5, Uni-steel G159 16 ply, radial.

REAR

Heavy-duty duals, to be tubeless, first line, all tractor type tread 12R x 22.5, Uni-steel G124, 16 ply, radial.

SPARE RIM AND TIRE

Two spare rims shall be furnished, one with front tire and one with rear tire.

SPECIFICATIONS for new 40,780G.V.W. Truck continued

STEERING

Shall be power steering, integral type full hydraulic.

ELECTRICAL

Alternator shall be minimum 160 amps.

All circuits shall be breakers in lieu of fuses.

To be wired for body and snowplow equipment.

BATTERY

Batteries shall be heavy-duty 12 volt batteries, two or more of at least 1,200 C.C.A. total.

TANK CAPACITY

Two not less than 50 gallons. I.C.C. safety type mounted left side and right side with step.

Truck to be delivered full of fuel

WHEELS AND RIMS

Cast steel spokes - 8.0" rims, L.W., spare rims must be furnished with each truck.

CAB-DELUXE

Shall be factory standard fully enclosed equipped with safety glass: High-back air ride bucket type, with lumbar support drivers seats; Passenger seat: non-suspension high back, arm rest both sides, grab handles = 2 interior, 2 exterior; Dual electric wipers with winter blades (overhead, if option), heater and defroster standard, air conditioning. Defroster vents all across windshield. Cab shall be equipped with all the standard gauges to include TAC, fuel, amp, water temp. oil pressure, air pressure, speedometer, and any other required for normal operation, cigarette lighter, dual sun visors, dual arm rest, dual grab handle, dual electric horns and dual air horns, with covers, AM/FM radio with clock, CD player and weather, with 2 dual cone speakers, dual West Coast mirrors, heated, with 102" arms, with 8.825 Delbar convex mirrors, with stainless steel heads. Cab equipped with vent windows and a fiberglass tilting hood and fenders. Hood to be equipped with service access hatches for normal daily service and a horizontal muffler with vertical exhaust pipe. Switching for parking lights must operate separate from headlights. Electric right and left windows, right and left control. Front grille to be stationary, with moldings, single C.B. radio antenna bracket and mount, radio hot posts and ground. All windows tinted. Overhead console with Velcro strap for CB mounting, five clearance lights/marker lights, roof mounted, storage drivers door, door trim panels soft padded vinyl, convex mirror mounted passenger door lower view mirror, sun visor mounted external, top of windshield. Spot type mirrors mounted on front fenders (used to mount plow lights).

SPECIFICATIONS for new 40,780 G.V.W. Truck continued

RADIATOR

900 sq. in. area and 1030 sq.in. change air cooler. Radiator hoses premium rubber.

EQUIPMENT

Seat belts; directional lights, front and rear, and equipped with heavy-duty 4-way signal stat emergency switch; two hooks front and rear; heavy-duty front bumper and heavy-duty tire flaps, mounted rear and front of rear tires, rear flap to be mounted in front of tail lights so that lights are protected, fender rods, splash guards in motor compartments.

UNDERCOAT

Complete underside of cab and fender shall be undercoated, except fiberglass hood area. Rustproof cab including roof and door interiors.

MANUAL

Driver's instruction manual, service manual and vehicle parts book must be furnished with unit upon delivery. Electrical Manuals.

WARNING DEVICE

A pulsating failsafe backup warning device as manufactured by Joseph Pollak Corp., 195 Freeport St., Boston, MA, shall be furnished and installed to meet O.S.H.A. specifications, or equal.

PAINT

Cab and chassis – To be specified when bid awarded , Body - Omaha Orange, Dupont Imron Polyurethane Enamel.

BODY GENERAL DESCRIPTION

Heavy duty body serving as a dump body and transformed to a sand/salt/material spreader by means of a hydraulically tilting floor.

Description of Body

Capacity 5.8 cubic yards water level without sideboards

7.2 cubic yards with sideboards

Inside width 87 inches

Inside length 120 inches

Outside width 96inches

Side height 27 inches

Tailgate height 39 inches

Cab shield 24 inches, 10-gauge steel, reinforced on both ends.

Front panel constructed from 3/16"HLA 50,000 PSI steel, reinforced by two full-length vertical V shaped outside breaks.

BODY SIDES

The left side panel, (drivers side) shall be constructed of 3/16 steel 150,000 psi steel, reinforced with two vertical side posts per side

The stationary right (curb) shall have a mandatory outer wall designed to restrict access to the reloading floor operating area and increase rigidity of the unit.

The stationary right hand (curb side) panel shall be constructed of 10 gauge HSLA 50,000 psi steel

The body sides shall be reinforced vertically by a front and rear 13" corner posts and (2) vertical side posts.

Top rail shall be 4" X 3" tubular steel

Rub rails must be a slanted self-cleaning dirt shading design

TAILGATE

Shall be constructed of 3/16" Harlox 450 – 190,000 psi hi strength steel.

With a 3-panel design with (2) vertical 5"x3" boxed posts and (3) 7"x3" horizontal dirt shading boxed braces.

Tailgate to be 100 % welded

SKIP WELDING NOT ACCEPTABLE

Latches shall be over center cam type design locking mechanism to assure positive locking of tailgate and adjustably to compensate for wear.

Tailgate must be double acting and equipped with spreader chains with protective wrap to prevent paint damage

When tailgate is horizontal it will be level with the floor

Latch mechanism shall be operated by a 3" double acting air cylinder with an 8" stroke and adjustable clevis yoke.

Air control valve will be located inside cab of truck, in console

BODY UNDERSTRUCTURE

Shall be a stacked type understructure consisting of 3" @ 4.1 lbs./ft. structural steel channel long-members

FLOOR

Shall be constructed of 3/16" Harlox 450, 190,000 PSI yield strength steel

The bottom and side of the reloading floor shall be fully supported by "L" shaped 3"x 2" tubular steel sections welded directly to the bottom of the floor plate to achieve an 14" average cross-member spacing, to prevent material hang-ups and corrosion.

FLOOR HINGE

Floor must be easily removable and of an open hinge design to allow disassembly without pulling out floor hinge pins, and have a 35 ton capacity.

LONGITUDINAL CONVEYOR

The conveyor is an integral part of body floor and runs longitudinally down the driver's side of the body, discharging in front of the rear wheels. **Center conveyor units as well as rear discharge units are not acceptable alternatives.**

Conveyor frame is bolted for ease of replacement and constructed of 3/16" Harlox 450, 190,000 psi yield strength steel

Conveyor cover plate is two sections constructed of 3/16" Harlox 450, 190,000 psi steel reinforced
Conveyor cover plates are integral to unit and do not need to be removed from the body

CHAIN AND DRIVING MECHANISM

Conveyor chain is extra heavy-duty model type (49,000 lbs.)

667X (42,000 lbs.) not acceptable

Self-cleaning pintle type chain

Bar flights, 3/8"x 1 1/4" welded every two links

The ends are bent upwards to allow welding on both sides of flight.

Chain tension system is completely removable for bench servicing and component replacement with a special hinge cover, which also allows easy access for lubrication.

Chain maintenance system including easy access in rear apron to allow for removal of chain and tension adjustment.

CHAIN TENSION ADJUSTER SYSTEM

The rollers, driven shaft, self-aligning bearings and slide system to be mounted in a carriage easily removable for service.

CHAIN TENSION ADJUSTMENT

Shall be performed with grease actuated cylinders system located at front of body, no exceptions.

SPEED REDUCER

Chain is driven by 25:1 ratio gearbox

Gearbox assembly is installed on discharge end and is bolted on along with the drive shaft; sprockets and flange bearings for easy removal

Front and rear sprockets are chromed-nickel alloy with a minimum of 7 teeth, with double shoulders to support the conveyor chain links

Drive shaft is 1 3/4" high resistant stress proof 100,000 psi steel

Idler shaft is 1 3/16" diameter 90,000 psi steel

Bearings are self aligning and greasable

SPINNER ASSEMBLY

Spinner shaft is 7/8" sealed type with motor on top

Hydraulic motor is 30 cubic inch and is bi-rotational.

Spinner shaft contains two embedded self-greasing ball bearings.

A replaceable flange bearing supports lower end of spinner shaft.

Spinner assembly is chassis mounted on a tubular support and totally adjustable for various patterns

Urethane spreading disc is 17" diameter; steel discs are not acceptable.

Ultra light non-adhesive polyethylene chute feeds the spreading disc. Chute is both adjustable and removable

FRONT MOUNT HYDRAULIC HOIST

Shall be 3 section telescopic cylinder.
Each section ground and polished
Capable of providing a 45-degree dump angle
Capacity of 20 tons

RELOADING FLOOR CYLINDERS

Reloading floor shall be operated by two double acting cylinders mounted underneath the reloading floor.
Connected in a series operating in phase at all time

FLOW DIVIDERS OR FLOW MOTORS NOT ACCEPTABLE

Reloading floor cylinders shall be manufactured with STELMI chrome technology and covered by a 2-year warranty against corrosion.

Chromed cylinder rod surface's can be repaired and put back in service

Nitrated cylinder rods not acceptable.

SAFETY AND ACCESSORIES

Ladder, appropriately braced, forgiving style, with self-cleaning steps and grab handle located at left front corner of body.

Shovel holder with 5/16" snapper pin

Safety leg to hold the body in raised position

Safety leg to hold the floor in raised position

Safety stickers

Mud flaps front and rear of axle with anti-sail

Center mud flap to protect rear brake chambers

H/D tow hooks front and rear

Owner's manual

Extended remote mounted grease fittings

24" aluminum toolbox mounted under the body on the curbside.

Conspicuity tape 3 inch such as 3M #980

PLOW FRAME

Tilt over hood type, frame attachment are manufactured in such a way as to: allow the hood of a chassis fitted with a tilt engine cowl and stationary grill work to tilt forward over the upper portion of such attachment

Side plates 1/2" thick, reinforced and bolted as far back on the truck frame as possible.

Top cross members and vertical risers are constructed of 4"x 3"x 1/2" angle.

Bottom member is 15"x 4-1/2"x 1/2" C- Channel, inter laced with vertical members. Dual push centers and cylinder base mounting bracket are mounted to this member.

Lift yolk is constructed of 1/2" steel sides to form a frame, 1-1/8" tube for pivot and 1/4" plate for top. Yolk pivots on a 1" diameter full width bolt with castle nut and cotter pin.

Cylinder is double acting, 4" bore x 10" stroke.

HYDRAULIC SYSTEM

The system is furnished and completely installed to power and control all hydraulic requirements satisfactorily, both independently and collectively.

Hydraulic pump will be a Galtech 7/8" 13 spline direct mount pump with a 2 inch gear.

Hydraulic pump will be bolted to a direct mount PTO. The engagement of the PTO will be electric hot shift design.

Hydraulic valve bank will be a six spool Galtech nickel plated valve bank outfitted with stainless steel double acting pneumatic cylinders (no exceptions). A test port will be supplied and set up with a high pressure aero-quip FD491002 IITMA test fitting. Working pressure will be adjusted to 2250 psi.

First section will raise and lower plow.

Second section will angle plow left to right.

Third section will be a working spool for sanding operations.

Fourth section will be the body raise and lower function.

Fifth section will control the inner panel in the body.

Sixth spool will control the hydraulic power cover tarp system and will have port relief pressures set at 1800 psi.

Feathering pneumatic controllers will be installed in a custom built console made of 304 stainless steel. This console will be of the same design the town trucks are presently equipped with. All functions will be laser etched in the console cover to clearly identify the specific function.

The plow control will be of a joystick design and will feather in all functions.

The body control, inner panel control, tarp control will also be feathering controls and will be of a toggle design.

A double acting tailgate controller will be installed in the console as well.

The sander control will be mounted in a separate console and hard piped out of the cab.

1/2" stainless steel tubing will be used where ever possible for all hydraulic functions. The stainless steel tubing that delivers oil to the plow functions will allow for full access to the oil pan area and will not interfere with the changing of any and all filters.

All tubing will be clamped in a cushion style clamp to prevent any vibration problems.

Any hydraulic hose that potentially may chafe and wear through prematurely will be sheathed in fireproof sheathing and clamped at both ends. Plastic split loom is not acceptable.

All hydraulic lines and tubing will be mounted in a manner that will not interfere with the normal maintenance of the vehicle.

One of the vehicle fuel tanks will be converted into a hydraulic tank and must be pressure tested after all the fittings have been welded in place. A locking fuel cap labeled HYD. OIL will be installed. Hydraulic gate valves will be used at all ports that are below the level of oil.

The use of a hydraulic manifold is optional but the return lines of all functions will pass through a 10 micron spin-on filter before returning to tank.

All hydraulic lines will have swivels on both ends to ease the replacement when necessary.

ELECTRICAL AND LIGHTING

Plow lights will be Truck Lite #80800 mounted on the hood mirrors with custom brackets. Betts completely sealed system with Truck Lite junction box, all terminals coated with silicone dielectric grease.

Spinner light- Truck Lite

Load area light

Body up light

ICC lighting- Betts with Lexan, heat and shatter resistant lenses

Back up alarm

LOAD COVER

Power cover brand Hydraulic Load Cover w/ Asphalt Tarp

Assy. Piped into central hydraulic system

PINTLE HITCH AND TOW PLATE

6 TON capacity swivel type pintle hook mounted on a 5/8" tow plate with 2 5/8" D-Rings

7 Pole trailer electrical socket, RV style

Electric Brake controller mounted in the cab wired to rear.

FASTENERS

All fasteners used on body, hoist, hitch and other allied equipment and related parts shall be of USA origin with proper markings, grade 5 or better meeting the Fastener Quality Act (FCA) which requires them to meet or exceed the requirements of SAE J429 Standards.

STROBE SYSTEM

WHELEN D.O.T.3-102D

Consisting of One 360-degree strobe light mounted in the center of the cab shield.

The stop, turn, tail, back up, and strobe lights are recessed in steel boxes mounted in rear corner posts of dump body.

PAINT

All body parts requiring paint shall be entirely sand blasted, primed with two coats of epoxy primer, and painted with two coats of polyurethane Omaha orange paint.

All other parts will be black

All spot painting shall be properly prepared and primed before the finish coat is applied.

The following truck is to be traded in:

2002 Sterling L8500 ID No. ZFZAAWBS92AJ76638 with 11” hydraulic angle plow

Any bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 30 days after the actual date of the opening thereof.

PROPOSAL

NAME OF BIDDER _____

AUTHORIZED SIGNATURE _____

POSITION OR TITLE _____

ADDRESS OF BIDDER _____

CITY OR TOWN _____

AMOUNT OF SURETY _____

DELIVERY DATE _____ A _____ B _____

NOTE: If more than one stock vehicle is bid, please photocopy the Information Sheet and list the information separately for each stock vehicle bid.

**PROPOSAL
FOR 40,780 G.V.W. DUMP TRUCK
FOR PUBLIC WORKS - HIGHWAY DEPARTMENT
TOWN OF SIMSBURY**

DATE:_____

Public Works Department
66 Town Forest Road
PO BOX 495
Simsbury, CT 06070

The undersigned _____

with their place of business in the Town of _____

County of _____ State of _____

_____, submits herewith in
conformity with specifications dated _____, the following proposal for furnishing the listed
equipment.

The undersigned agrees to furnish and deliver said equipment according to the specifications, complete
and ready for service, at the price bid, as indicated.

ITEM NO. 1 – 40,780 G.V.W. TRUCK WITH BODY- **BID PRICE**

TRUCK A as per specifications \$ _____

TRUCK B "Stock" truck \$ _____

TRUCK C "Stock" truck \$ _____

IMPORTANT - Service Information

PLEASE CROSS OUT THAT WHICH DOES NOT APPLY:

Emergency (repair service) (parts only) - (are) (are not) available (seven days a week) (24 hours a
day) (weekends and holidays included).

Exceptions, if any _____
