

City of Portsmouth
Portsmouth, New Hampshire
Public Works Department

INVITATION TO BID

Sealed bid proposals, **plainly marked** "Public Works Highway Department Trucks" Bid #50-09 **on the outside of the envelope**, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 2:00 p.m., April 16, 2009 at which time all bids will be publicly opened and read aloud.

Scope: The Highway Department is seeking to purchase 4 trucks. Each truck will be considered on a separate basis. This bid does not require any bidder to submit an "all-or-none" bid.

This bid is available at <http://www.cityofportsmouth.com/finance/purchasing.htm> or by contacting the Finance/Purchasing Department at the following number: (603) 610-7227. Questions may be directed to the Finance/Purchasing Department. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website under the project heading.

Continue below for the complete bid document.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

INSTRUCTION TO BIDDERS

I. Preparation of Bid Proposal

- A. The Bidder shall submit its proposal upon the form furnished by the City (attached). Prices shall be given in both in words and figures.
- B. Corrections made to amounts or information requested on the bid form should be made by crossing out the error and entering the new price or information above or below it. The correction must be initialed. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
- C. The bidder's proposal must be signed by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner, If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address if each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
- D. All words, figures, corrections shall be in ink or typed. All signatures shall be in ink.
- E. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website at <http://www.cityofportsmouth.com/finance/purchasing.htm> under the project heading. Addenda and updates will NOT be sent directly to firms. Contractors submitting a proposal should check the web site daily for addenda and updates after the release date. Firms should print out, sign and return addenda with the proposal. Failure to do so may result in disqualification.

II. Delivery of Bid Proposals

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are not acceptable.

III. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

IV. Public Opening of Bid Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

V. Irregular Proposals and Disqualification of Bidders

Bid proposals that are irregular may be rejected. Irregular bid proposals include the following:

- A. Failure to use the bid form provided or alteration of the form.
- B. Unauthorized additions, conditional or alternated bids, incomplete bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- C. The addition of any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

Bidders may be disqualified and the bid proposal rejected for the following reasons:

- A. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- B. Evidence of collusion among bidders;
- C. Failure to submit all required information requested in bid specifications;
- D. Bidder is not qualified or able to provide the services or product(s) described in the bid specifications; or
- E. Disqualification is in the best interest of the City of Portsmouth.

AWARD

I. Consideration of Proposals and Award

Each truck will be considered on a separate item bases. This bid does not require any bidder to submit an “all-or-none” bid.

After the proposals are opened and read, bid results will be available to the public. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern.

Within 30 calendar days after the opening of proposals, if an award is made, it will be made to the lowest, responsible, qualified bidders whose proposal complies with all the requirements prescribed. The successful bidders will be notified by mail at the address indicated on the proposal.

The award shall not be considered official until such time that a Purchase Order, fully executed contract or an award letter has been issued by the Finance Director. No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume

otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

II. Reservation of Rights

The City reserves the right to cancel the award at any time before final notification of the successful bidder without any liability against the City. The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

BID SPECIFICATIONS

Highway Truck 15

City of Portsmouth, New Hampshire

Public Works Department

**Specifications for a 2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis,
Flat Bed Body with 1600lbs Lift Gate and six foot tool boxes and Front Plow**

MINIMUM SPECIFICATIONS

12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Flat Bed Body with 1600lbs Lift Gate and Six Foot Tool Boxes and Front Plow

SCOPE:

It is the intent of this specification to describe a 12,000 lb. GVWR 4 Wheel Drive cab and chassis, with the following minimum specifications considered necessary to perform the function indicated. The unit shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. A copy of the specifications for the unit being proposed shall be included with the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. The vehicle described herein will be utilized as a flat bed and snowplow. All components furnished under this specification shall be capable of the stress of municipal snow plowing, and general highway maintenance.

12,000 lb. GVWR 4 Wheel Drive CAB and CHASSIS

CHASSIS:

The frame type shall be "Semi-Perimeter Ladder Type" with a section modulus of 6.76 cubic inches and a RBM of 243,360 lb. in. Front tow hooks, two (2) each frame mounted. 135.5 inch wheel base and 61 inch cab to axle. To include the heavy duty chassis equipment package.

FRONT AXLE:

Independent front axle with a 4800 lb. capacity. Heavy duty front springs to be an independent torsion bar with a capacity of 4800 lbs.; shock absorber diameter to be 35 mm; stabilizer bar diameter to be 1.18 inches. Hydraulic front disc brakes with a rotor diameter thickness of 12.50 x 1.50 inches; front swept area of 239.0 square inches.

REAR AXLE:

Full floating rear axle with a 9200lb. suspension protection system using progressive rate springs with sufficient capacity to provide roll stability and increasing the load carrying ability. The suspension system to be mounted to the frame above the rear axle and will not increase the overall height of vehicle. Hydraulic rear drum brakes with a drum diameter width of 13.00 x 3.50 inches; rear swept area of 286.0 square inches. Parking brake type to be cable to rear wheels.

BRAKES:

1. Brake system to be Hydraulic Power with ABS system on all 4 wheels.
2. Parking brake shall be a cable to the rear wheels type.
3. Audible indicator on brake wear.

STEERING:

1. Type to be speed sensitive, power (EVO) with an on center ratio of 16.40:1 and a lock ratio of 16.30:1.
2. Turning diameter curb to curb to be 53.00 feet with a wall to wall of 56.70 feet.
3. Energy absorbing steering column

ELECTRICAL SYSTEM:

Electrical system to be 12 volt, standard equipment includes the following:

1. Turn signal flasher,
2. Turn signal switch, self canceling with integral switch,
3. Headlight dimmer switch integral turn signal switch,
4. Parking light integral with front turn signal and light,
5. Stop, turn, tail and backup lights dual, rear, reflector,
6. Starter switch electric key operated, with buzzer warning tone,
7. Turn signals, front flush mounted with reflectors and turn signals,
8. Windshield wipers with switch for intermittent operation,
9. Cigar lighter,
10. Electric horn, 1 each,
11. Alternator to be maximum capacity of 100 amps at 1200 watts.
12. Battery system to be, maintenance free, 12-volt, to be SEO single 770 Cold Cranking Amps @ 0 deg F.
13. Radio to be AM/FM standard equipment,
14. Electronic controlled indicators shall include low oil pressure and high temperature with light in audible alarm,
15. Roof marker lamps,
16. Headlights to be long life halogen,
17. Light set up for daytime running,
18. Dome light with LH & RH door switch,
19. Weather proof wiring for liftgate with 135 amp circuit breaker installed

ENGINE:

VORTEC 6100 V8

1. VORTEC 6.0L variable valve timing V8 SFI
2. 312 hp @4400 rpm
3. 373lb-ft 4400RPM
4. Meets Federal Emission Requirements

ENGINE EQUIPMENT:

1. Anti-freeze to be permanent, to minus 40 degrees Fahrenheit;
2. Radiator to be 1.34 inches thick, 586.21 square inch frontal area with a total system capacity of 17.110 quarts, 11 fan blades, 19.50 inch fan blade diameter with a 1.63 deg fan blade pitch.
3. high capacity air filter
4. 125 amp alternator
5. external engine oil cooler, A high capacity air to oil and internal oil cooler to drivers side of radiator tank
6. A main fuel tank with a capacity of 22 gallons with a separate fuel filter

TRANSMISSION:

1. Transmission ,6 speed automatic, Heavy-duty,, electronic controlled with overdrive and tow/haul mode
2. Drive train to be 4 wheel drive
3. Transfer case to be Borg Warner model number 4470, with a gear ratio of high @ 1.000, low @ 2.690, power take off SAE 6 bolt with right hand access.
4. Brake / Transmission shift interlock
5. Water & Air to Oil transmission cooler

CAB / CHASSIS:

1. Heavy duty 4 wheel drive regular cab 137" wheelbase and 60 CA WT
2. Front bumper to be chrome
3. Flare wheel openings
4. Grille to be molded and painted argent
5. Paint color to be WEATHLAND YELLOW CAB, BLACK BODY, or manufacturers nearest color to be approved by owner;
6. Cab to be conventional, steel, and to include the following:
7. Passenger assist handles,
8. Floor covering to be black rubber;
9. Interior sheet metal to be painted, color based on the exterior color;
10. Headliner color keyed vinyl;
11. Steering wheel to be simulated leather;
12. Sunshades both sides, vinyl
13. Front head restraints;
14. Windows all glass;
15. Interior color to be charcoal;
16. Mirrors to be stainless steel senior west coast type;
17. Convex mirrors, 2 each, to be stainless-steel, 8 in. diameter, mounted below primary mirrors;
18. Gauge cluster to be English with English electronic speedometer with trip odometer, engine oil pressure gauge, electronic water temperature gauge, voltmeter, hourmeter;
19. Split type seat 40 20 40, vinyl with fixed back to include 3-point seat belt, lap and shoulder belt type for driver and passenger and one lap belt for center passenger;
20. Heater to be blend air type, with defroster, and AC. heater hoses to be premium rubber; front side window defoggers
21. Cab interior trim to be deluxe, to include the following,
22. Storage pocket, door molded plastic, charcoal color, mounted on door;
23. Instrument to handle trim to be molded plastic, charcoal in color;
24. Theft deterrent security passlock;
25. Dual hood latch;
26. Side door beams;
27. Front wheel size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
28. Rear dual wheels size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
29. Spare wheel (1 each) size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
30. Skid plate package
31. Front tires, 2 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2335 lbs., .706 rev/mile;

- Rear tires, 4 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2150 lbs., 706 rev/mile;
32. Spare tire, 1 each, LT225/75R-17E On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
 33. Hour Meter
 34. Fire extinguisher and triangle flare kit;
 35. Full mud flaps shall be installed at all four (4) tires.

FLAT BED BODY, PLOW GEAR, and WARNING SYSTEMS

It is the intent of this specification to describe a flatbed with liftgate and bulkhead, a complete plow with the following minimum specifications. The units shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. This vehicle shall be in accordance with all federal and state standards, in effect at the time of manufacturer.

FLAT BED BODY:

1. A 9'4"L x 96"W heavy duty flat bed with treaded floor with 42" x96" tapered weld on knee braced bulkhead and provisions to mount hydraulic lift gate
2. Front and rear mud flaps on rear wheels.
3. 72" topsider style tool boxes black in color
4. The body, liftgate and tool boxes shall be painted BLACK.
5. All lighting must conform to FCC.
6. The body and liftgate shall be warranted against all defects for a period of one-year or longer, if the manufacturers standard warranty is for a longer time frame.

LIFTGATE:

1. Hydraulic lift gate 89"x 36" platform see though design 1600 lbs capacity wired to truck with controls mounted right side rear of truck
2. shall have a bar grate platform 89" x36" x 6"
3. 135 amp circuit breaker weather proof wiring to truck and controls of liftgate
4. pressure compensated flow control valve for smooth platform operation
5. shall be installed in a way to allow pintle hook with 2" ball to be mounted at rear of truck frame and trailer wiring

FRONT PLOW:

1. This equipment to be heavy-duty and of the latest design.
2. Plow is to be a power angle trip edge ,Frink model FTP108 front mounted;
3. Nine (9) foot in length, three eighths (3/8) inch poly mold board, one (1) section trip edge design;
4. AASHO twelve (12) inch punched five eighths (5/8) inch C1090 cutting edge;
5. One pair of mold board shoes, lift chain, marker guides and bolt on rubber deflector.
6. Installed and connected via quick disconnects to hydraulic system.

PLOW FRAMES:

1. Custom type hitch with structural A-Frame design, , custom designed for specific chassis.
2. One pair of plow lights wired to truck with weather proof connectors

HYDRAULIC SYSTEM:

1. Engine mounted gear type clutch pump, mounted via a pre-engineered kit.
2. The system shall have 8.5 GPM flow rate with 1800-psi sectional valve to function snowplow.
3. Single lever control for the snowplow.
4. Frame mounted hydraulic tank with filter and sight gauge.
5. The bidder shall confirm the location of these controls, before mounting inside the cab, with the City of Portsmouth.

PINTLE HOOK / BALL HOOK:

1. A two (2) inch multi-hitch, ten (10) ton minimum capacity to be mount on a one half (1/2) inch plate and V-Braced to the truck frame with "D" rings
2. Four (4) prong trailer plug SAE wired;

WARNING SYSTEMS:

1. The truck shall be installed with a backup alarm.
2. A complete set of halogen plow lights and turn signals, mounted on the plow frame controlled from the cab shall be installed.
3. Emergency lighting shall be as follows.
4. A Whelen Engineering DOT 3 SYSTEM 102-D three light strobe system is indicative of the type and quality desired but not restricted thereto.
5. Rear facing two strobe lights, two oval taillights to be installed in rear corner of the body. The two oval backup lights to be in the rear body
6. A strobe light is to be mounted on the top of cab in the center.
7. The cab-mounted strobe shall operate in conjunction with the rear units.
8. All wiring to be sealed wiring harnesses.
9. All controls and power pack shall be mounted inside the cab.
10. Controls shall be a five switch rocker panel to function lights and the clutch pump.
11. Include complete specifications on the make, model and type of light system offered.

TWO-WAY RADIO:

A two-way radio, antenna, wiring and noise filter shall be installed with this truck. The bidder shall obtain frequency and rapidcall programming information from the City of Portsmouth, Public Works Department once the bid has been awarded. . The radio shall be, with no exceptions, a Motorola CDM1250 Mobile, 3DB VHS antenna

MANUALS:

At least one (1) parts manual, one (1) operational manual, and one (1) COMPLETE SET of SHOP MANUALS for both the truck and all the components (I.E.: engine, transmission, rear ends, plows, hydraulic systems, lights, and radios) are required, also wiring manual - (can be in CD-ROM.)

TRAINING:

A minimum of four (4) hours of operational and four (4) hours of mechanical factory training are required on the complete unit.

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

TRADE IN:

1999 Chevrolet 1-Ton flatbed—VIN# 1GBJK34R5XF014710

BID SPECIFICATIONS

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For

Highway Truck 20

City of Portsmouth, New Hampshire

Public Works Department

Specifications for a 2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis
with Utility Body and Front Plow

MINIMUM SPECIFICATIONS

12,000 lb. GVWR 4 Wheel Drive Cab and Chassis with Utility Body and Front Plow

SCOPE:

It is the intent of this specification to describe a 12,000 lb. GVWR 4 Wheel Drive cab and chassis, with the following minimum specifications considered necessary to perform the function indicated. The unit shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. A copy of the specifications for the unit being proposed shall be included with the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. The vehicle described herein will be utilized as a utility and snowplow. All components furnished under this specification shall be capable of the stress of municipal snow plowing, and general highway maintenance.

12,000 lb. GVWR 4 Wheel Drive CAB and CHASSIS

CHASSIS:

The frame type shall be "Semi-Perimeter Ladder Type" with a section modulus of 6.76 cubic inches and a RBM of 243,360 lb. in. Front tow hooks, two (2) each frame mounted. 135.5 inch wheel base and 61 inch cab to axle. To include the heavy duty chassis equipment package.

FRONT AXLE:

Independent front axle with a 4800 lb. capacity. Heavy duty front springs to be an independent torsion bar with a capacity of 4800 lbs.; shock absorber diameter to be 35 mm; stabilizer bar diameter to be 1.18 inches. Hydraulic front disc brakes with a rotor diameter thickness of 12.50 x 1.50 inches; front swept area of 239.0 square inches.

REAR AXLE:

Full floating rear axle with a 9200lb. suspension protection system using progressive rate springs with sufficient capacity to provide roll stability and increasing the load carrying ability. The suspension system to be mounted to the frame above the rear axle and will not increase the overall height of vehicle. Hydraulic rear drum brakes with a drum diameter width of 13.00 x 3.50 inches; rear swept area of 286.0 square inches. Parking brake type to be cable to rear wheels.

BRAKES:

1. Brake system to be Hydraulic Power with ABS system on all 4 wheels.
2. Parking brake shall be a cable to the rear wheels type.
3. Audible indicator on brake wear.

STEERING:

1. Type to be speed sensitive, power (EVO) with an on center ratio of 16.40:1 and a lock ratio of 16.30:1.
2. Turning diameter curb to curb to be 53.00 feet with a wall to wall of 56.70 feet.
3. Energy absorbing steering column

ELECTRICAL SYSTEM:

Electrical system to be 12 volt, standard equipment includes the following:

1. Turn signal flasher,
2. Turn signal switch, self canceling with integral switch,
3. Headlight dimmer switch integral turn signal switch,
4. Parking light integral with front turn signal and light,
5. Stop, turn, tail and backup lights dual, rear, reflector,
6. Starter switch electric key operated, with buzzer warning tone,
7. Turn signals, front flush mounted with reflectors and turn signals,
8. Windshield wipers with switch for intermittent operation,
9. Cigar lighter,
10. Electric horn, 1 each,
11. Alternator to be maximum capacity of 100 amps at 1200 watts.
12. Battery system to be, maintenance free, 12-volt, to be SEO single 770 Cold Cranking Amps @ 0 deg F.
13. Radio to be AM/FM standard equipment,
14. Electronic controlled indicators shall include low oil pressure and high temperature with light and audible alarm,
15. Roof marker lamps,
16. Headlights to be long life halogen,
17. Light set up for daytime running,
18. Dome light with LH & RH door switch,
19. Weather proof wiring for liftgate with 1 - 35 amp circuit breaker installed

ENGINE:

VORTEC 6100 V8:

1. VORTEC 6.0L variable valve timing V8 SFI
2. 312 hp @4400 rpm
3. 373lb-ft 4400RPM
4. Meets Federal Emission Requirements

ENGINE EQUIPMENT:

1. Anti-freeze to be permanent, to minus 40 degrees Fahrenheit;
2. Radiator to be 1.34 inches thick, 586.21 square inch frontal area with a total system capacity of 17.110 quarts, 11 fan blades, 19.50 inch fan blade diameter with a 1.63 deg fan blade pitch.
3. high capacity air filter
4. 125 amp alternator
5. external engine oil cooler, A high capacity air to oil and internal oil cooler to drivers side of radiator tank
6. A main fuel tank with a capacity of 22 gallons with a separate fuel filter

TRANSMISSION:

1. Transmission ,6 speed automatic, Heavy-duty, electronic controlled with overdrive and tow/haul mode

2. Drive train to be 4 wheel drive
3. Transfer case to be Borg Warner model number 4470, with a gear ratio of high @ 1.000, low @ 2.690, power take off SAE 6 bolt with right hand access.
4. Brake / Transmission shift interlock
5. Water & Air to Oil transmission cooler

CAB / CHASSIS:

1. Heavy duty 4 wheel drive regular cab 137" wheelbase and 60 CA WT
2. Front bumper to be chrome
3. Flare wheel openings
4. Grille to be molded and painted argent
5. Paint color to be WEATHLAND YELLOW CAB and BODY, or manufacturers nearest color to be approved by owner;
6. Cab to be conventional, steel, and to include the following:
7. Passenger assist handles,
8. Floor covering to be black rubber;
9. Interior sheet metal to be painted, color based on the exterior color;
10. Headliner color keyed vinyl;
11. Steering wheel to be simulated leather;
12. Sunshades both sides, vinyl
13. Front head restraints;
14. Windows all glass;
15. Interior color to be charcoal;
16. Mirrors to be stainless steel senior west coast type;
17. Convex mirrors, 2 each, to be stainless-steel, 8 in. diameter, mounted below primary mirrors;
18. Gauge cluster to be English with English electronic speedometer with trip odometer, engine oil pressure gauge, electronic water temperature gauge, voltmeter, hourmeter;
19. Split type seat 40 20 40, vinyl with fixed back to include 3-point seat belt, lap and shoulder belt type for driver and passenger and one lap belt for center passenger;
20. Heater to be blend air type, with defroster, and AC. heater hoses to be premium rubber; front side window defoggers
21. Cab interior trim to be deluxe, to include the following,
22. Storage pocket, door molded plastic, charcoal color, mounted on door;
23. Instrument to handle trim to be molded plastic, charcoal in color;
24. Theft deterrent security pass lock;
25. Dual hood latch;
26. Side door beams;
27. Front wheel size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
28. Rear dual wheels size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
29. Spare wheel (1 each) size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
30. Skid plate package
31. Front tires, 2 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
Rear tires, 4 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2150 lbs., 706 rev/mile;

32. Spare tire, 1 each, LT225/75R-17E On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
33. Hour Meter
34. Fire extinguisher and triangle flare kit;
35. Full mud flaps shall be installed at all four (4) tires.

UTILITY BODY, PLOW GEAR, and WARNING SYSTEMS

It is the intent of this specification to describe a UTILITY BODY and complete plow with the following minimum specifications. The units shall be new, unused, of current production, design and source an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. This vehicle shall be in accordance with all federal and state standards, in effect at the time of manufacture.

UTILITY BODY:

1. The body shall be heavy duty utility body Knapheide Plus 50 series Service Body model 6108-50 DJ
2. The body to be painted to match cab Wheatland Yellow
3. body length 108” , body height 40” , body width 89” , floor width 49” , compartment depth 20”
4. Transverse drawer compartment will have 3 drawer unit with hemmed dividers rated at 250 lbs with ball bearing drawer guides, drawers are designed to be easily removed
5. Doors, 20 gauge two-sided A40 galvaneal steel double panel doors with hat section reinforcements
6. Hinges, Corrosion resistant all stainless steel continuous hinges to provide full length support for doors and pry-proof security with built-in weather shield. Hinge to be spot welded to the door frame supported with 5 year warranty
7. Rotary Latches, zinc plated corrosion resistant rotary latches riveted to door with non-corrosive aluminum rivets incorporating stainless steel mandrels. Rotary to be slam-latchable. Latching cam to be elongated to allow the latch to move vertically relative to the lockstrike to prevent torsional damage.
8. Door Strikers, adjustable security-ring striker affixed to door frame with screws
9. Door Seals, automotive “bulb type” neoprene door seals to be installed by manufacturer of the body on all door frames.
10. Shelving, 18 gauge two-sided G-40 regular spangle galvanized rated to support up to 250 lbs. of load.
11. Exterior Prime paint, body is to be completely immersed in electrodeposition gray epoxy prime paint featuring a zinc phosphate precoat and seal for additional corrosion protection. Prime paint is to be oven cured to provide a hard durable finish. Exterior color shall be Wheatland yellow to match cab.
12. Interior Paint, interior paint to be mid gloss, mar resistant, light gray finish.
13. Undercoating, body to be completely undercoated by the manufactor of the body using minimum of 5mils of water base acrylic.
14. 12" slam tailgate, installed and painted to match body and cab
15. mounting kit, Knapheide's Quick Mount brackets, designed to comply with FMVSS-301 requirements
16. Bumper Galva-grip bumper part number- option 26052084

17. The body shall be painted yellow to match truck.
18. All lighting must conform to FCC.
19. The body shall be warranted against all defects for a period of five-year or longer, if the manufacturer's standard warranty is for a longer time frame.

FRONT PLOW:

1. This equipment to be heavy-duty and of the latest design.
2. Plow is to be a power angle trip edge Frink model FTP108, front mounted;
3. Nine (9) foot in length, three eighths (3/8) inch poly mold board, one (1) section trip edge design;
4. AASHO twelve (12) inch punched five eighths (5/8) inch C1090 cutting edge;
5. One pair of mold board shoes, lift chain, marker guides and bolt on rubber deflector;
6. Installed and connected via quick disconnects to hydraulic system;

PLOW FRAMES:

1. Custom type hitch with structural A-Frame design, custom designed for specific chassis
2. One pair of plow lights wired to truck with weather proof connectors.

HYDRAULIC SYSTEM:

1. Engine mounted gear type clutch pump, mounted via a pre-engineered kit.
2. The system shall have 8.5 GPM flow rate with 1800-psi sectional valve to function snowplow.
3. Single lever control for the snowplow.
4. Frame or body compartment mounted hydraulic tank with filter and sight gauge.
5. The bidder shall confirm the location of these controls, before mounting inside the cab, with the City of Portsmouth.

PINTLE HOOK / BALL HOOK

1. A pintle hook with 2" ball installed on rear bumper
2. 4 wire trailer plug to be wired to chassis with weather proof connector

WARNING SYSTEMS:

1. The truck shall be installed with a backup alarm.
2. A complete set of halogen plow lights and turn signals, mounted on the plow frame controlled from the cab shall be installed.
3. Emergency lighting shall be as follows.
4. A Whelen Engineering DOT 3 SYSTEM 102-D three light strobe system is indicative of the type and quality desired but not restricted thereto.
5. Rear facing two strobe lights, two oval taillights to be installed in rear corner of the body. The two oval backup lights to be in the rear apron.
6. A strobe light is to be mounted on the top of cab in the center.
7. The cab-mounted strobe shall operate in conjunction with the rear units.
8. All wiring to be sealed wiring harnesses.
9. All controls and power pack shall be mounted inside the cab.
10. Controls shall be a five switch rocker panel to function lights and the clutch pump.
11. Include complete specifications on the make, model and type of light system offered.

TWO-WAY RADIO:

A two-way radio, antenna, wiring and noise filter shall be installed with this truck. The bidder shall obtain frequency and rapidcall programming information from the City of Portsmouth, Public Works Department once the bid has been awarded. . The radio shall be, with no exceptions, , a Motorola CDM1250 Mobile, 3DB **VHS antenna**

RUSTPROOFING:

The cab, chassis and utility body shall have factory rustproofing or approved equal, with documentation by an authorized dealership.

MANUALS:

At least one (1) parts manual, one (1) operational manual, and one (1) COMPLETE SET of SHOP MANUALS for both the truck and all the components (I.E.: engine, transmission, rear ends, plows, hydraulic systems, lights, and radios) are required, also wiring manual - (can be in CD-ROM.)

TRAINING:

A minimum of four (4) hours of operational and four (4) hours of mechanical factory training are required on the complete unit.

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain. Extended 5 year warranty on the body.

TRADE IN:

Chevrolet K35 1-Ton utility bodied Truck—Vin # 1GBJK34R0XF014615

BID SPECIFICATIONS

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For

Highway Truck 22

City of Portsmouth, New Hampshire

Public Works Department

**Specifications for a 2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis,
Dump body and Front Plow**

MINIMUM SPECIFICATIONS

12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Dump body and Front Plow

SCOPE:

It is the intent of this specification to describe a 12,000 lb. GVWR 4 Wheel Drive cab and chassis, with the following minimum specifications considered necessary to perform the function indicated. The unit shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. A copy of the specifications for the unit being proposed shall be included with the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. The vehicle described herein will be utilized as a dump truck and snowplow. All components furnished under this specification shall be capable of the stress of municipal snow plowing, and general highway maintenance.

12,000 lb. GVWR 4 Wheel Drive CAB and CHASSIS

CHASSIS:

The frame type shall be "Semi-Perimeter Ladder Type" with a section modulus of 6.76 cubic inches and a RBM of 243,360 lb. in. Front tow hooks, two (2) each frame mounted. 135.5 inch wheel base and 61 inch cab to axle. To include the heavy duty chassis equipment package.

FRONT AXLE:

Independent front axle with a 4800 lb. capacity. Heavy duty front springs to be an independent torsion bar with a capacity of 4800 lbs.; shock absorber diameter to be 35 mm; stabilizer bar diameter to be 1.18 inches. Hydraulic front disc brakes with a rotor diameter thickness of 12.50 x 1.50 inches; front swept area of 239.0 square inches.

REAR AXLE:

Full floating rear axle with a 9200lb. suspension protection system using progressive rate springs with sufficient capacity to provide roll stability and increasing the load carrying ability. The suspension system to be mounted to the frame above the rear axle and will not increase the overall height of vehicle. Hydraulic rear drum brakes with a drum diameter width of 13.00 x 3.50 inches; rear swept area of 286.0 square inches. Parking brake type to be cable to rear wheels.

BRAKES:

1. Brake system to be Hydraulic Power with ABS system on all 4 wheels.
2. Parking brake shall be a cable to the rear wheels type.
3. Audible indicator on brake wear.

STEERING:

1. Type to be speed sensitive, power (EVO) with an on center ratio of 16.40:1 and a lock ratio of 16.30:1.
2. Turning diameter curb to curb to be 53.00 feet with a wall to wall of 56.70 feet.
3. Energy absorbing steering column

ELECTRICAL SYSTEM:

Electrical system to be 12 volt, standard equipment includes the following:

1. Turn signal flasher,
2. Turn signal switch, self canceling with integral switch,
3. Headlight dimmer switch integral turn signal switch,
4. Parking light integral with front turn signal and light,
5. Stop, turn, tail and backup lights dual, rear, reflector,
6. Starter switch electric key operated, with buzzer warning tone,
7. Turn signals, front flush mounted with reflectors and turn signals,
8. Windshield wipers with switch for intermittent operation,
9. Cigar lighter,
10. Electric horn, 1 each,
11. Alternator to be maximum capacity of 100 amps at 1200 watts.
12. Battery system to be, maintenance free, 12-volt, to be SEO single 770 Cold Cranking Amps @ 0 deg F.
13. Radio to be AM/FM standard equipment,
14. Electronic controlled indicators shall include low oil pressure and high temperature with light and audible alarm,
15. Roof marker lamps,
16. Headlights to be long life halogen,
17. Light set up for daytime running,
18. Dome light with LH & RH door switch,

ENGINE:

VORTEC 6100 V8:

1. VORTEC 6.0L variable valve timing V8 SFI
2. 312 hp @4400 rpm
3. 373lb-ft 4400RPM
4. Meets Federal Emission Requirements

ENGINE EQUIPMENT:

1. Anti-freeze to be permanent, to minus 40 degrees Fahrenheit;
2. Radiator to be 1.34 inches thick, 586.21 square inch frontal area with a total system capacity of 17.110 quarts, 11 fan blades, 19.50 inch fan blade diameter with a 1.63 deg fan blade pitch.
3. high capacity air filter
4. 125 amp alternator
5. external engine oil cooler, A high capacity air to oil and internal oil cooler to drivers side of radiator tank
6. A main fuel tank with a capacity of 22 gallons with a separate fuel filter

TRANSMISSION:

1. Transmission ,6 speed automatic, Heavy-duty,, electronic controlled with overdrive and tow/haul mode
2. Drive train to be 4 wheeldrive
3. Transfer case to be Borg Warner model number 4470, with a gear ratio of high @ 1.000, low @ 2.690, power take off SAE 6 bolt with right hand access.

4. Brake / Transmission shift interlock
5. Water & Air to Oil transmission cooler

CAB / CHASSIS:

1. Heavy duty 4 wheel drive regular cab 137" wheelbase and 60 CA WT
2. Front bumper to be chrome
3. Flare wheel openings
4. Grille to be molded and painted argent
5. Paint color to be WEATHLAND YELLOW CAB, BLACK BODY, or manufacturers nearest V color to be approved by owner;
6. Cab to be conventional, steel, and to include the following:
7. Passenger assist handles,
8. Floor covering to be black rubber;
9. Interior sheet metal to be painted, color based on the exterior color;
10. Headliner color keyed vinyl;
11. Steering wheel to be simulated leather;
12. Sunshades both sides, vinyl
13. Front head restraints;
14. Windows all glass;
15. Interior color to be charcoal;
16. Mirrors to be stainless steel senior west coast type;
17. Convex mirrors, 2 each, to be stainless-steel, 8 in. diameter, mounted below primary mirrors;
18. Gauge cluster to be English with English electronic speedometer with trip odometer, engine oil pressure gauge, electronic water temperature gauge, voltmeter, hour meter
19. Split type seat 40 20 40, vinyl with fixed back to include 3-point seat belt, lap and shoulder belt type for driver and passenger and one lap belt for center passenger;
20. Heater to be blend air type, with defroster, and AC. heater hoses to be premium rubber; front side window defoggers
21. Cab interior trim to be deluxe, to include the following,
22. Storage pocket, door molded plastic, charcoal and color, mounted on door;
23. Instrument to handle trim to be molded plastic, charcoal in color;
24. Theft deterrent security passlock;
25. Dual hood latch;
26. Side door beams;
27. Front wheel size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
28. Rear dual wheels size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
29. Spare wheel (1 each) size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
30. Skid plate package
31. Front tires, 2 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2335 lbs., .706 rev/mile;
32. Rear tires, 4 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2150 lbs., 706 rev/mile;
33. Spare tire, 1 each, LT225/75R-17E On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
34. Hour Meter
35. Fire extinguisher and triangle flare kit;
36. Full mud flaps shall be installed at all four (4) tires.

DUMP BODY, PLOW GEAR, and WARNING SYSTEMS:

It is the intent of this specification to describe a two (2) to three- (3) yard dump body, a complete plow with the following minimum specifications. The units shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. This vehicle shall be in accordance with all federal and state standards, in effect at the time manufacturer.

DUMP BODY:

1. The body shall be heavy duty dump body, Warren model U-250 eight (8) feet with a two (2) to three (3) cubic yard capacity with twenty-four (24) inch ten gauge cab shield and screen window.
2. Ten (10) gauge construction throughout with full seam welding, three (3) inch structural channel cross members on sixteen (16) inch centers, six (6) inch structural channel long members, one piece floor with full height steel sideboards.
3. Rear corner posts with integral oval cut outs for an in body light system.
4. The body ends are to be higher than the sides, with pockets front and rear to allow for the installation of sideboards.
5. The operating device shall be mechanical and positive locking, with a handle at the left front corner.
6. Front and rear mud flaps on rear wheels.
7. The dump body shall include a single cylinder direct lift subframe type with seven-ton capacity and connected to a central hydraulic system.
8. Hydraulic systems shall be matched with the plow hydraulic system package.
9. A body up indicator light shall be mounted in the cab.
10. The body shall be painted BLACK.
11. All lighting must conform to FCC.
12. The body and hoist shall be warranted against all defects for a period of one-year or longer, if the manufacturers standard warranty is for a longer time frame.

FRONT PLOW:

1. This equipment to be heavy-duty and of the latest design.
2. Plow is to be a power angle trip edge Frink model FTP108, front mounted;
3. Nine (9) foot in length, three eighths (3/8) inch poly mold board, one (1) section trip edge design;
4. AASHO twelve (12) inch punched five eighths (5/8) inch C1090 cutting edge;
5. One pair of mold board shoes, lift chain, marker guides and bolt on rubber deflector;
6. Installed and connected via quick disconnects to hydraulic system;

PLOW FRAMES:

1. Custom type hitch with structural A-Frame design, custom designed for specific chassis.
2. One pair of plow lights wired to truck with weather proof connectors

HYDRAULIC SYSTEM:

1. Engine mounted gear type clutch pump, mounted via a pre-engineered kit.
2. The system shall have 8.5 GPM flow rate with 1800-psi sectional valve to function snowplow, dump body.

3. Single lever control for the snowplow.
4. Frame mounted hydraulic tank with filter and sight gauge.
5. The bidder shall confirm the location of these controls, before mounting inside the cab, with the City of Portsmouth.

PINTLE HOOK / BALL HOOK

1. A two (2) inch multi-hitch, ten (10) ton minimum capacity to be mount on a one half (1/2) inch plate and V-Braced to the truck frame with "D" rings.
2. Four (4) prong trailer plug SAE wired;

WARNING SYSTEMS:

1. The truck shall be installed with a backup alarm.
2. A complete set of halogen plow lights and turn signals, mounted on the plow frame controlled from the cab shall be installed.
3. Emergency lighting shall be as follows.
4. A Whelen Engineering DOT 3 SYSTEM 102-D three light strobe system is indicative of the type and quality desired but not restricted thereto.
5. Rear facing two strobe lights, two oval taillights to be installed in rear post of the body. The two oval backup lights to be in the rear apron.
6. A strobe light is to be mounted on the top of cab in the center with no interference with the dump body cab protector.
7. The cab-mounted strobe shall operate in conjunction with the rear units.
8. All wiring to be sealed wiring harnesses.
9. All controls and power pack shall be mounted inside the cab.
10. Controls shall be a five switch rocker panel to function lights and the clutch pump.
11. Include complete specifications on the make, model and type of light system offered.

TWO-WAY RADIO:

A two-way radio, antenna, wiring and noise filter shall be installed with this truck. The bidder shall obtain frequency and rapidcall programming information from the City of Portsmouth, Public Works Department once the bid has been awarded. . The radio shall be, with no exceptions, , a Motorola CDM1250 Mobile, 3DB VHS antenna

MANUALS:

At least one (1) parts manual, one (1) operational manual, and one (1) COMPLETE SET of SHOP MANUALS for both the truck and all the components (I.E.: engine, transmission, rear ends, plows, hydraulic systems, lights, and radios) are required, also wiring manual - (can be in CD-ROM.)

TRAINING:

A minimum of four (4) hours of operational and four (4) hours of mechanical factory training are required on the complete unit.

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

TRADE IN:

1999 Chevrolet 3500 1-Ton Dump Truck—Vin# 1GBJK34R6XF030091

BID SPECIFICATIONS

For

Highway Truck 105

City of Portsmouth, New Hampshire

Public Works Department

**Specifications for a 2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis,
Dump body and Front Plow**

MINIMUM SPECIFICATIONS

12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, dump body and Front Plow

SCOPE:

It is the intent of this specification to describe a 12,000 lb. GVWR 4 Wheel Drive cab and chassis, with the following minimum specifications considered necessary to perform the function indicated. The unit shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. A copy of the specifications for the unit being proposed shall be included with the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. The vehicle described herein will be utilized as a dump truck and snowplow. All components furnished under this specification shall be capable of the stress of municipal snow plowing, and general highway maintenance.

12,000 lb. GVWR 4 Wheel Drive CAB and CHASSIS

CHASSIS:

The frame type shall be "Semi-Perimeter Ladder Type" with a section modulus of 6.76 cubic inches and a RBM of 243,360 lb. in. Front tow hooks, two (2) each frame mounted. 135.5 inch wheel base and 61 inch cab to axle. To include the heavy duty chassis equipment package.

FRONT AXLE:

Independent front axle with a 4800 lb. capacity. Heavy duty front springs to be an independent torsion bar with a capacity of 4800 lbs.; shock absorber diameter to be 35 mm; stabilizer bar diameter to be 1.18 inches. Hydraulic front disc brakes with a rotor diameter thickness of 12.50 x 1.50 inches; front swept area of 239.0 square inches.

REAR AXLE:

Full floating rear axle with a 9200lb. suspension protection system using progressive rate springs with sufficient capacity to provide roll stability and increasing the load carrying ability. The suspension system to be mounted to the frame above the rear axle and will not increase the overall height of vehicle. Hydraulic rear drum brakes with a drum diameter width of 13.00 x 3.50 inches; rear swept area of 286.0 square inches. Parking brake type to be cable to rear wheels.

BRAKES:

1. Brake system to be Hydraulic Power with ABS system on all 4 wheels.
2. Parking brake shall a cable to the rear wheels type.
3. Audible indicator on brake wear.

STEERING:

1. Type to be speed sensitive, power (EVO) with an on center ratio of 16.40:1 and a lock ratio of 16.30:1.
2. Turning diameter curb to curb to be 53.00 feet with a wall to wall of 56.70 feet.
3. Energy absorbing steering column

ELECTRICAL SYSTEM:

Electrical system to be 12 volt, standard equipment includes the following:

1. Turn signal flasher,
2. Turn signal switch, self canceling with integral switch,
3. Headlight dimmer switch integral turn signal switch,
4. Parking light integral with front turn signal and light,
5. Stop, turn, tail and backup lights dual, rear, reflector,
6. Starter switch electric key operated, with buzzer warning tone,
7. Turn signals, front flush mounted with reflectors and turn signals,
8. Windshield wipers with switch for intermittent operation,
9. Cigar lighter,
10. Electric horn, 1 each,
11. Alternator to be maximum capacity of 100 amps at 1200 watts.
12. Battery system to be, maintenance free, 12-volt, to be SEO single 770 Cold Cranking Amps @ 0 deg F.
13. Radio to be AM/FM standard equipment,
14. Electronic controlled indicators shall include low oil pressure and high temperature with light in audible alarm,
15. Roof marker lamps,
16. Headlights to be long life halogen,
17. Light set up for daytime running,
18. Dome light with LH & RH door switch,

ENGINE:

VORTEC 6100 V8

1. VORTEC 6.0L variable valve timing V8 SFI
2. 312 hp @4400 rpm
3. 373lb-ft 4400RPM
4. Meets Federal Emission Requirements

ENGINE EQUIPMENT:

1. Anti-freeze to be permanent, to minus 40 degrees Fahrenheit;
2. Radiator to be 1.34 inches thick, 586.21 square inch frontal area with a total system capacity of 17.110 quarts, 11 fan blades, 19.50 inch fan blade diameter with a 1.63 deg fan blade pitch.
3. high capacity air filter
4. 125 amp alternator
5. external engine oil cooler, A high capacity air to oil and internal oil cooler to drivers side of radiator tank
6. A main fuel tank with a capacity of 22 gallons with a separate fuel filter

TRANSMISSION:

1. Transmission ,6 speed automatic, Heavy-duty,, electronic controlled with overdrive and tow/haul mode
2. Drive train to be 4 wheel drive

3. Transfer case to be Borg Warner model number 4470, with a gear ratio of high @ 1.000, low @ 2.690, power take off SAE 6 bolt with right hand access.
4. Brake / Transmission shift interlock
5. Water & Air to Oil transmission cooler

CAB / CHASSIS:

1. Heavy duty 4 wheel drive regular cab 137" wheelbase and 60 CA WT
2. Front bumper to be chrome
3. Flare wheel openings
4. Grille to be molded and painted argent
5. Paint color to be WEATHLAND YELLOW CAB, BLACK BODY, or manufacturers nearest color to be approved by owner;
6. Cab to be conventional, steel, and to include the following:
7. Passenger assist handles,
8. Floor covering to be black rubber;
9. Interior sheet metal to be painted, color based on the exterior color;
10. Headliner color keyed vinyl;
11. Steering wheel to be simulated leather;
12. Sunshades both sides, vinyl
13. Front head restraints;
14. Windows all glass;
15. Interior color to be charcoal;
16. Mirrors to be stainless steel senior west coast type;
17. Convex mirrors, 2 each, to be stainless-steel, 8 in. diameter, mounted below primary mirrors;
18. Gauge cluster to be English with English electronic speedometer with trip odometer, engine oil pressure gauge, electronic water temperature gauge, voltmeter, hour meter
19. Split type seat 40 20 40, vinyl with fixed back to include 3-point seat belt, lap and shoulder belt type for driver and passenger and one lap belt for center passenger;
20. Heater to be blend air type, with defroster, and AC. heater hoses to be premium rubber; front side window defoggers
21. Cab interior trim to be deluxe, to include the following,
22. Storage pocket, door molded plastic, charcoal color, mounted on door;
23. Instrument to handle trim to be molded plastic, charcoal in color;
24. Theft deterrent security passlock;
25. Dual hood latch;
26. Side door beams;
27. Front wheel size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
28. Rear dual wheels size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
29. Spare wheel (1 each) size 17.0 x 6.5 inch, offset 5.000 inches, 8 bolt holes, painted steel;
30. Skid plate package
31. Front tires, 2 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2335 lbs., .706 rev/mile;
32. Rear tires, 4 each, LT225/75R-17/E On-Off Road blackwall, capacity of each of 2150 lbs., 706 rev/mile;

33. Spare tire, 1 each, LT225/75R-17E On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
34. Hour Meter
35. Fire extinguisher and triangle flare kit;
36. Full mud flaps shall be installed at all four (4) tires.

DUMP BODY, PLOW GEAR, and WARNING SYSTEMS:

It is the intent of this specification to describe a two (2) to three- (3) yard dump body, a complete plow with the following minimum specifications. The units shall be new, unused, of current production, design and source an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. This vehicle shall be in accordance with all federal and state standards, in effect at the time manufacturer.

DUMP BODY:

1. The body shall be heavy duty dump body, Warren model U-250 eight (8) feet with a two (2) to three (3) cubic yard capacity with twenty-four (24) inch ten gauge cab shield and screen window.
2. Ten (10) gauge construction throughout with full seam welding, three (3) inch structural channel cross members on sixteen (16) inch centers, six (6) inch structural channel long members, one piece floor with full height steel sideboards.
3. Rear corner posts with integral oval cut outs for an in body light system.
4. The body ends are to be higher than the sides, with pockets front and rear to allow for the installation of sideboards.
5. The operating device shall be mechanical and positive locking, with a handle at the left front corner.
6. Front and rear mud flaps on rear wheels.
7. The dump body shall include a single cylinder direct lift subframe type with seven-ton capacity and connected to a central hydraulic system.
8. Hydraulic systems shall be matched with the plow hydraulic system package.
9. A body up indicator light shall be mounted in the cab.
10. The body shall be painted BLACK.
11. All lighting must conform to FCC.
12. The body and hoist shall be warranted against all defects for a period of one-year or longer, if the manufacturers standard warranty is for a longer time frame.

FRONT PLOW:

1. This equipment to be heavy-duty and of the latest design.
2. Plow is to be a power angle trip edge Frink model FTP108, front mounted;
3. Nine (9) foot in length, three eighths (3/8) inch poly mold board, one (1) section trip edge design;
4. AASHO twelve (12) inch punched five eighths (5/8) inch C1090 cutting edge;
5. One pair of mold board shoes, lift chain, marker guides and bolt on rubber deflector;
6. Installed and connected via quick disconnects to hydraulic system;

I. PLOW FRAMES:

1. Custom type hitch with structural A-Frame custom designed for specific chassis
2. One pair of plow lights wired to truck with weather proof connectors.

HYDRAULIC SYSTEM:

1. Engine mounted gear type clutch pump, mounted via a pre-engineered kit.
2. The system shall have 8.5 GPM flow rate with 1800-psi sectional valve to function snow plow, dump body.
3. Single lever control for the snowplow.
4. Frame mounted hydraulic tank with filter and sight gauge.
5. The bidder shall confirm the location of these controls, before mounting inside the cab, with the City of Portsmouth.

PINTLE HOOK / BALL HOOK:

1. A two (2) inch multi-hitch, ten (10) ton minimum capacity to be mount on a one half (1/2) inch plate and V-Braced to the truck frame with "D" rings.
2. Four (4) prong trailer plug SAE wired;

WARNING SYSTEMS:

1. The truck shall be installed with a backup alarm.
2. A complete set of halogen plow lights and turn signals, mounted on the plow frame controlled from the cab shall be installed.
3. Emergency lighting shall be as follows.
4. A Whelen Engineering DOT 3 SYSTEM 102-D three light strobe system is indicative of the type and quality desired but not restricted thereto.
5. Rear facing two strobe lights, two oval taillights to be installed in rear post of the body. The two oval backup lights to be in the rear apron.
6. A strobe light is to be mounted on the top of cab in the center with no interference with the dump body cab protector.
7. The cab-mounted strobe shall operate in conjunction with the rear units.
8. All wiring to be sealed wiring harnesses.
9. All controls and power pack shall be mounted inside the cab.
10. Controls shall be a five switch rocker panel to function lights and the clutch pump.
11. Include complete specifications on the make, model and type of light system offered.

TWO-WAY RADIO:

A two-way radio, antenna, wiring and noise filter shall be installed with this truck. The bidder shall obtain frequency and rapidcall programming information from the City of Portsmouth, Public Works Department once the bid has been awarded. . The radio shall be, with no exceptions, a Motorola CDM1250 Mobile, 3DB antenna

MANUALS:

At least one (1) parts manual, one (1) operational manual, and one (1) COMPLETE SET of SHOP MANUALS for both the truck and all the components (I.E.: engine, transmission, rear ends, plows, hydraulic systems, lights, and radios) are required, also wiring manual - (can be in CD-ROM.)

TRAINING:

A minimum of four (4) hours of operational and four (4) hours of mechanical factory training are required on the complete unit.

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

TRADE IN:

NONE

BID PROPOSAL FORM
Page 1 of 5

Highway Truck 15

2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Flat Bed Body with 1600lbs Lift Gate and six foot tool boxes and Front Plow

\$ _____
Price in Figures

\$ _____
Price in Words

Trade in Allowance: **1999 Chevrolet 1-Ton flatbed—VIN# 1GBJK34R5XF014710**

\$ _____
Price In Figures

\$ _____
Price in Words

Base Bid:

Highway Truck 15

Minus Trade in Allowance:

\$ _____
Price in Figures

\$ _____
Price in Words

Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

Total Bid Proposal = Base Bid plus Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

DELIVERY:

Bidder must state approximate date from receipt of order delivery will be made: _____ (no later than 90 days after award).

BID PROPOSAL FORM
Page 2 of 5

Highway Truck 20

2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis with Utility Body and Front Plow

\$ _____
Price in Figures

\$ _____
Price in Words

Trade in Allowance: Chevrolet K35 1-Ton utility bodied Truck—Vin #
1GBJK34R0XF014615

\$ _____
Price In Figures

\$ _____
Price in Words

Base Bid:

Highway Truck 20

Minus Trade in Allowance:

\$ _____
Price in Figures

\$ _____
Price in Words

Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

Total Bid Proposal = Base Bid plus Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

DELIVERY:

Bidder must state approximate date from receipt of order delivery will be made: _____ (no later than 90 days after award).

BID PROPOSAL FORM
Page 3 of 5

Highway Truck 22

2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Dump body and Front Plow

\$ _____
Price in Figures

\$ _____
Price in Words

Trade in Allowance: 1999 Chevrolet 3500 1-Ton Dump Truck—Vin# 1GBJK34R6XF030091

\$ _____
Price In Figures

\$ _____
Price in Words

Base Bid:

Highway Truck 22

Minus Trade in Allowance:

\$ _____
Price in Figures

\$ _____
Price in Words

Extended Warranty on Drivetrain

\$ _____
Price in Figures

\$ _____
Price in Words

Extended Warranty on Body

\$ _____
Price in Figures

\$ _____
Price in Words

Total Bid Proposal = Base Bid plus Extended Warranties:

\$ _____
Price in Figures

\$ _____
Price in Words

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain and an extended 5 year warranty on body.

DELIVERY:

Bidder must state approximate date from receipt of order delivery will be made: _____ (no later than 90 days after award).

BID PROPOSAL FORM
Page 4 of 5

Highway Truck 105

2009 model 12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Dump body and Front Plow

\$ _____
Price in Figures

\$ _____
Price in Words

NO TRADE IN ALLOWANCE

Base Bid:
Highway Truck 105

\$ _____
Price in Figures

\$ _____
Price in Words

Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

Total Bid Proposal = Base Bid plus Extended Warranty:

\$ _____
Price in Figures

\$ _____
Price in Words

WARRANTY:

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

DELIVERY:

Bidder must state approximate date from receipt of order delivery will be made: _____ (no later than 90 days after award).

BID PROPOSAL FORM
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The undersigned agrees that he/she on behalf of Bidder has read the bid proposal documents, the instruction to bidders specifications and agrees to the terms and conditions set forth herein. Bidder understands that bid prices shall include delivery FOB to the address identified in the bid documents.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity. Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in this Bid.

Submitted by Authorized Agent:

(Print Name & Title)

Signature: _____

Date: _____

Company: _____

Address: _____

City/State/Zip: _____

Telephone: _____

Fax: _____