



City of Westbrook

DEPARTMENT OF PUBLIC SERVICES

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CITY OF WESTBROOK, MAINE

PUBLIC SERVICES DEPARTMENT

Sealed bids will be received in the Office of the City Clerk, 2 York Street, Westbrook, Maine 04092 until **July 25, 2013 AT 10 AM ATTN: Lynda Adams**, when they will be publicly opened and read for one:

SINGLE AXLE DUMP/SANDER & PLOW TRUCK

Additional copies of the bid package may be obtained at the City Clerk's office, (207) 854-9105.

Jerre Bryant
City Administrator

BID FORM

SINGLE AXLE DUMP/SANDER & PLOW TRUCK

We the undersign agree to furnish **The City of Westbrook** with the equipment described in the preceding specifications, which are incorporated as part of this proposal at the following price and delivery date. This form maybe copied to allow for multiple vehicle proposals. **If possible** the City of Westbrook would like three options for the body, snow and ice control portion of this bid spec package with the vendors named below. The complete package to be billed as one and delivered by the bidding dealer.

MANUFACTURER: _____ MODEL: _____ YEAR: _____

ENGINE SIZE: _____ COLOR: _____

DELIVERY DATE: _____

Bid price will be with **TRADE IN** of a 2004 International 7600 dump/plow truck with 50,000 miles S/N 1HTEXAHT34J028341

Option 1 SS Body Vendor _____ PRICE: _____

Option 2 SS Body Vendor _____ PRICE: _____

Option 3 SS Body Vendor _____ PRICE: _____

WARRANTY: _____

DEALERSHIP: _____

ADDRESS: _____

CITY / TOWN: _____ STATE: _____

TELEPHONE: _____ FAX: _____

AUTHORIZED SIGNATURE: _____

TITLE: _____

**CITY OF WESTBROOK, MAINE
INSTRUCTIONS AND GENERAL CONDITIONS TO BIDDERS**

1. SUBMISSIONS OF BIDS:

Bids shall be submitted on the BID FORM provided in this package and must be marked clearly on the outside:

SINGLE AXLE DUMP/SANDER & PLOW TRUCK

The envelope shall be addressed to: City of Westbrook, ATTN: Lynda Adams, 2 York Street, Westbrook, Maine 04092.

Any questions concerning the bid should be addressed to **Paul Burrows @ (207) 591-8136** during the hours of 7:00 A.M. - 3:00 P.M.

The City of Westbrook reserves the right to reject any and all bids in whole or in part when deemed to be in the best interest of the City. The City may waive any minor discrepancy in the bid specification and will inspect the vehicle at the bidder's establishment prior to purchase.

2. WARRANTIES, BROCHURE, MANUALS:

All warranties and a descriptive brochure describing the equipment shall be enclosed in the bid. The bidder shall state the warranty period on the bid form. All appropriate parts and service manuals shall be delivered with the selected equipment.

3. DISCOUNTS:

The City of Westbrook, pays its accounts in full within a thirty (30) day period following satisfactory completion of the contract and receipt of bills for all items covered by the City's purchase order. In submitting bids under these specifications, bidders should take into account all discounts allowed in accordance with the above payment policy.

4. EXEMPTION FROM TAXES:

The City is exempt from payment of federal excise taxes on articles not for resale, federal transportation tax on all shipments, and Maine State sales tax and use tax.

5. TRANSPORTATION CHARGES:

All transportation and delivery charges including expenses for freight, transfer, mail, etc, shall be prepaid and be at the expense of the BIDDER unless otherwise specified in the bid. The bid price shall include all installation charges.

6. EXCEPTIONS or ADDITIONAL FEATURES:

Any exceptions to these bid requirements and specifications shall be clearly indicated by the bidder on a separate sheet of paper. In the absence of clearly noted exceptions, bidders will be obligated to comply with all the provisions contained herein. Any equivalent features and any additional features to those described in the specifications shall be so noted in the bid.

7. DAMAGE REPAIR:

The BIDDER shall be held responsible for repairing, at their sole cost and expense, any and all damages to City or private property resulting from the work to be performed.

8. SAFETY REGULATIONS:

The BIDDER will at times, comply with the safety regulations set forth by the Occupational Safety and Health Administration.

9. DEFAULT:

In case of default by the bidder, the City of Westbrook reserves the right to procure the contract services from other sources and charge any excess cost occasioned by thereby to the BIDDER.

10. ADDENDUM:

Should a **BIDDER** find discrepancies in or omissions from the specifications or other contract documents, or should a BIDDER be in doubt as to their meaning, the BIDDER shall at once contact or notify Paul Burrows at (207) 591-8136.

11. BID OPENING:

All bids will be opened publicly and BIDDERS or their representatives may be present at the bid opening. The bids will be available for public inspection after opening but the City will not prepare abstracts for distribution.

12. TERM OF BID:

The bid shall meet all the listed specifications. No BIDDER may withdraw a bid for a period of sixty (60) days after the actual date of opening.

13. AWARD OF CONTRACT:

Award will be made to the lowest responsible BIDDER, taking into consideration the quality of the product or services; conformance with the specifications and intended purpose; delivery time; ultimate cost to the City and with the overall recommendation from the Director of Public Services. Sale is subject to City Council authorization by two affirmative votes or readings at two meetings of the council.

SINGLE AXLE DUMP/SANDER & PLOW TRUCK

All items appearing in the bidder's regular published specifications are assumed to be included in the bidder's proposal. The following specifications shall be the minimum requirements and the equipment proposed shall comply with Maine and Federal laws. All specifications, dimensions and ratings must conform to or exceed S.A.E. specifications where applicable.

INTENT:

The intent of the City of Westbrook is to purchase a single axle dump/sander with plow and wing. The City of Westbrook will entertain all bids submitted by Vendors that would include a vehicle in current inventory that meet the specifications requested upon final review by the Director of Public Services.

INSTRUCTION TO BIDDERS:

The truck to be furnished under this bid shall be a single axle dump/plow truck that meets the following specifications. It shall be the manufacturer's latest model and design. These specifications shall be regarded as MINIMUM. Bidders must furnish all descriptive literature, manufacturer's compliance certificates and all other necessary data on the equipment proposed as required in the specification. Bidders with exceptions to the specifications shall explain in detail on the "Exceptions to Bid Specification" page provided at the end of this document.

**A SINGLE AXLE DUMP TRUCK
WITH ICE AND SNOW CONTROL CAPACITY INSTALLED**

GROSS VEHICLE WEIGHT:

37,780 GVWR

DIMENSION:

Wheelbase: 177", CA: 102", Axle to Frame: 81"

FRAME:

Frame rails heat-treated alloy steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312".
Frame reinforcement: Outer "C" channel, heat treated alloy steel (120,000 PSI Yield);
10.813" x 3.892" x 0.312".
Front frame extension integral; 20" in front of grill, with "C" channel reinforcement.

ENGINE:

Diesel - EPA 10, 285 HP, 860 lb-ft Torque, {MaxxFace DT}, Electro-hydraulic fuel system.

Federal emissions for 2010 MaxxFace engines.

Emission compliance 5 Minute tamper proof engine shutdown system, complies with California clean air regulations, does not certify engine for low-NOx extended idling.

Engine block heater {Phillips} 120V/1250 Watt; with "Y" cord from socket in standard location, provision in oil pan for a dealer installed 120 volt/150 watt oil pan heater, and extended life coated oil pan. Block heater socket receptacle type; mounted below drivers door.

Engine to include the following items:

Air cleaner restriction gauge, air cleaner mounted.

Air cleaner, single element, with integral snow separation module.

Electronic cruise control, controls integral to steering wheel, to include engine speed control for PTO; electronic, stationary pre-set with two speed settings.

Engine controls remote mounted provision for; Includes wiring for the body builder installation of PTO controls.

PTO effect, engine front less PTO unit, includes adapter on engine for front mounted PTO.

Wet type cylinder sleeves.

Engine shutdown, electric key operated.

Engine oil drain plug, magnetic.

Spin on type oil filter.

Fan drive {Horton Drivemaster} Direct drive type, two speed with residual torque device for disengaged fan speed. Fan to be nylon.

Radiator aluminum cross flow, series system; 1228 sq. in. area and 648 sq. in. charge air cooler and 342 sq. in. low temperature radiator.

Anti-freeze; Red Shell Rotella extended life coolant – 40 degrees F.

Deaeration system with surge tank.

Radiator hoses premium rubber with Gates shrink band type thermoplastic coolant hose clamps.

Fuel / water separator with thermostatic temperature controlled electric heater, and filter restriction/charge indicator, includes standard equipment water-in-fuel sensor; engine mounted.

Engine brake

Cold starting equipment; Intake manifold electric grid heater with engine ECM control.

TRANSMISSION:

Automatic – {Allison 3000 RDS_P} 4th generation controls; close ratio, 6-speed; with double overdrive; on/off highway; includes oil level sensor, with PTO provision less retarder, with 80,000-lb GVW max or equivalent.

Transmission shift control {Allison} push button type; for Allison 3000 & 4000 series transmission.

Transmission oil synthetic; 29 thru 42 pints.

Allison spare input/output for rugged duty series (RDS); general purpose trucks, construction.

Shift control parameters Allison S-1 performance programming in primary and Allison fixed programming in secondary.

Transmission ECM shall be located in the cab.

Oil cooler, auto transmission {Modine} water to oil, for Allison Transmissions.

Oil filter mounted on transmission.

Remote speed sensor located at rear of transmission.

Transmission oil pan with magnet in oil pan.

AXLE – FRONT:

I-Beam Type {Meritor MFS-20-133A} Wide track, I-beam type, 20,000-lb capacity;

Suspension, front spring multileaf, shackle type; 20,000-lb capacity with shock absorbers or equivalent.

Spring pins rubber bushings, maintenance-free.

Front auxiliary spring, air bag, right side only, driver controlled.

Wheel seals, oil lubricated {Emgard 50W} synthetic, includes wheel bearings.

AXLE – REAR:

{Meritor RS-26-185} single reduction, standard track, 26,000-lb capacity, includes driver-controlled main locking differential and "R" wheel ends.

Gear ratio to be 7.17 or equivalent.

Magnetic drain plug.

Rear spring suspension, single vari-rate; 31,000-lb capacity includes 4500-lb capacity multileaf auxiliary.

Rear axle lube {Emgard 75W-90} synthetic oil; 40 thru 49.99 pints.

Wheel seals, oil lubricated including wheel bearings.

TIRES:

Fronts - 315/80R22.5 Unisteel G287 MSA (Goodyear), load range L, 20 ply.

Rears - 11RX22.5 Unisteel G182 RSD (Goodyear), load range G, 14 ply.

BRAKES:

Dual air brake system for straight trucks.

Air pressure gauge located in instrument cluster, Air 1 and Air 2.

Trailer connections four-wheel, with hand control valve and tractor protection valve, for straight truck.

Air brake ABS {Bendix antilock brake system} full vehicle wheel control system (4-channel).

Drain valve {Berg} manual; with pull chain for air tanks.

Air dryer {Bendix AD-9} with heater; located inside left rail, back of cab.

Front brakes, S-cam; 16.5" x 6.0"; includes Haldex 24 sq. in. long stroke brake chambers.

Dust shields; front and rear.

Automatic slack adjusters {Haldex} front and rear.

Rear brakes, S-cam; 16.5" x 7.0"; includes {Haldex GC3030LHDHO} 30/30 long stroke brake chambers and heavy-duty spring actuated parking brake.

Air compressor {Bendix Tu-Flo 550} 13.2 CFM.

Air tanks (2) mounted outside right rail, under cab, on step mounting brackets.

STEERING:

Full power with integral hydraulic

Tilt steering column.

Steering wheel 2-spoke, 18" diam. Black.

Steering gear (2) {Sheppard M-100/M-80} dual power.

EXHAUST:

Exhaust system single, horizontal, after treatment device frame mounted outside right rail under cab; includes vertical tailpipe and guard.

Exhaust height, 10' based on empty chassis with standard components.

Muffler/Tailpipe guard non-bright for single exhaust.

Tailpipe (1) turn back type.

ELECTRICAL:

Electrical system 12-volt, standard equipment.

Circuit breakers manual-reset (main panel) SAE type III with trip indicators, replaces all fuses except for 5-amp fuses.

Turn signal switch self-canceling, headlight dimmer (with flash-to-pass feature).

Alternator {Leece-Neville BLP2361H} Brushless type, 12 volt, 185-amp. Capacity, pad mounted with remote voltage sensor.

Battery system {International} maintenance-free or equivalent (2) 12-volt 1850CCA total.

Battery box steel with aluminum lid; 3 battery capacity, mounted right side, under cab below frame mounted exhaust, provides clean CA.

Jump start stud to be located on the positive terminal of the outermost battery.

Electric horn, (2).

Air horn, black, single trumpet, air solenoid operated, mounted behind bumper on right rail.

Daytime running lights.

Cigar lighter.

Power source, cigar type receptacle without plug and cord.

Data link connector in cab for vehicle programming and diagnostics.

Windshield wipers, single motor, electric, cowl mounted and to include a cowl tray cover.

Windshield wiper switch 2-speed integral with turn signal switch with wash and intermittent feature.

Windshield wiper SPD control, force wipers to the slowest intermittent speed when park brake is set and wipers are left on for a predetermined time.

Wiring, chassis color-coded and continuously numbered.

Auxiliary harness, 3.0' for auxiliary front headlights and turn signals for front plow applications.

Body builder wiring, back of cab at frame, includes sealed connectors for tail/amber, turn/marker, backup/accessory, power/ground and sealed connector for stop/turn.

Trailer connection socket 7-way; mounted at rear of frame, wired for turn signals combined with stop, compatible with trailers that use combined stop, tail, turn lamps.

Auxiliary switch accessory control for wiring in roof, with maximum of 20 amp load with switches in instrument panel.

Switch body circuits, MID for bodybuilder, with 6 switches in instrument panel, one power module with 6 channel, 20 amp. max. per channel and 80-amp max output, switches control the power through multiplex wiring, mounted battery box back of cab.

Starting motor {Delco Remy 39MT} 12-volt, gear reduction with thermal over-crank protection.

Starter switch, electric key operated.

Test exterior lights, pre-trip inspection will cycle all exterior lamps except back up lights.

Headlights on with wipers; headlights will automatically turn on if windshield wipers are turned on.

FRONT END (CAB):

Hood – fiberglass construction with three piece construction and tilt forward capacity with full width access to accomplish routine service with plow hardware in place.

Hood hatch (1) for servicing.

Under hood insulation for sound abatement.

Chrome grille - stationary.

Bug screen, front end mounted behind grille.

Cab area to be of steel construction.

Radio AM/FM stereo with CD player, weatherband, clock, includes multiple coaxial speakers (4).

2-Way radio wiring effects; wiring with 20amp fuse protection, includes ignition wire with 5 amp fuse, wire ends heat shrink and 10' coil located in center overhead console.

Power windows (2) with express down feature and power door locks.

Gauge cluster to include the following: speedometer with odometer display, miles, trip miles, engine hours, trip hours, fault code readout.

Warning system: low fuel, low oil pressure, high engine coolant temp. and low battery voltage, (visual and audible).

Gauge cluster gauges: (6) engine oil pressure (electronic), water temperature (electronic), fuel (electronic), tachometer (electronic), voltmeter, washer fluid level.

Oil temperature gauge for Allison transmission.

Air cleaner restriction gauge {filter minder} with black bezel mounted in instrument panel.

Instrument Panel cluster display for on board diagnostics display of fault codes in gauge cluster.

Steps; two (2) per door.

Glass; all windows tinted.

Sunshade exterior, aerodynamic, painted roof color; includes integral clearance/marker lights.

Seat, driver {National 2000} air suspension, high back with integral headrest, cloth, isolated, with 2 position front cushion adjustment, -3 to +14 degree back angle adjust; single air lumbar support, and arm rest on right side.

Seat, passenger {Gra-mag} non-suspension, high back with integral headrest, cloth, with fixed back and under seat storage.

Seat belt 3-point, lap and shoulder belt type.

Mirrors (2) {Lang Mekra} styled; rectangular, 7.09" x 15.75", brackets breakaway type, with 102" wide spacing, with integral convex both sides, with all heated heads (including convex mirrors), thermostatically controlled, with clearance lights LED, powered both sides, flat glass only, bright heads and brackets.

Convex look down mirror {Lang Mekra} right side; 6" x 10 1/4" , with bright finish.

Convex mirrors {Lang Mekra} hood mounted, heated, one on each side, rectangular, bright finish.

Air condition {International blend-air} or equivalent with integral heater and defroster, system shall include fresh air filter.

Cab interior trim - premium level, includes:

Cab sound insulation, dash and engine cover insulators, overhead console; molded plastic with dual storage pockets, retainer nets, CB radio pocket with hold-down, compass/temp display, auxiliary visor, reading lights; smoke gray with black in color; headliner to be soft padded cloth; dome light, cab, rectangular, door activated, timed theater dimming, center mounted, integral to console; courtesy lights (2) mounted under instrument panel; sunvisors, (3) padded vinyl, auxiliary visors, driver and passenger sides (2) moveable (front-to- side), primary visors, driver's side with mirror, toll ticket strap, plus (1) auxiliary visor (front only) drivers side; storage pockets (2) door mounted, molded plastic (carpet texture), drawbridge gray, full-length, driver and passenger doors; cab interior trim panels, molded plastic, full-height; all interior sheet metal is covered; door trim panels (2), with cloth insert on bolster; driver and passenger doors; "A" pillars to be covered.

Armrests (2) molded plastic, smoke gray; one each door.

Coat hook to be located on the rear wall of the cab above the rear window.

Cup holders, two cup holders located in the lower center instrument panel.

Floor covering, black rubber.

Coat hook, located on rear wall, centered above rear window.
Grab handle, cab interior (1) "A" pillar mounted passenger side.
Grab handle, cab interior (2) "B" pillar mounted, one each side.
Grab handle, cab exterior (1) Chrome towel bar type anti-slip rubber inserts; for cab entry mounted left side only.
Cab rear suspension; air bag type.
Fuel tank to be 70 minimum US gallons mount left side under cab with quick connect outlet.
Front bumper, steel, swept back.

WHEELS:

Wheels; front disc, 22.5" painted steel, 10-stud (285.75MM BC) hub piloted, flanged nut, metric mount, 9.00 DC rim with steel hubs. All wheels are to be painted white.
Wheels; rear disc, 22.5" painted steel, 10-stud (285.75MM BC) hub piloted, flanged nut, metric mount, 8.25 DC rim with steel hubs. All wheels are to be painted white.

PAINT:

Omaha Orange, base coat/clear coat.

A complete set of manuals, for both operators and Technicians, shall be provided both for all equipment and vehicle. Service, electrical and parts manuals to be on CD. Engine and chassis software for technician use to diagnoses engine and chassis codes and reprogramming shall be included.

Chassis will include a 5lb. fire extinguisher and safety flares (triangles).

DUMP BODY:

10' 3/16 stainless steel side dump body using #304 stainless steel, tailgate and chain cover, open side on passenger side, honeycomb reinforcement under floor with no horizontal edges to accumulate salt and sand, a cut out in the rear apron for access to chain and sprockets, a central lube system with remote grease fittings for easy and safe maintenance, a cutout and split flange at gearbox for ease of maintenance, an air tailgate switch to be installed in Westbrook control box, grease cylinders to adjust and maintain chain tension, steel plate to cover the auger for summer to reduce chain wear.

Body to include the following option:

Fold down ladder, shovel holder, 1/2 cab shield, and steel sideboards with inverted "V" on top of sideboard.

PAINT:

No paint

HOIST:

Double acting front telescopic hoist.

PAGE 7 SPECIFICATIONS:

TARP/LOAD COVER:

Donovan bullet electric load cover with aluminum arms and mesh cover. Switch for cover will be installed in "Westbrook control box"

PLOW EQUIPMENT:

Front hitch {model H345-FW} shall be tiltable and fully detachable and include a front remote lever to control the hydraulic cylinder for ease of plow attachment.

Cheek plates to be 5/8" thick and attached on the outside of the frame rails for greater support.

Front power-reversing plow {model TCP-11-T-42-E2}, to be an 11' with an overall height of 42". Plow to include the following:

Curb shoes, a self-leveling system connected to the plow on points wide enough to maintain a level position when lifted into the air. The front trip on the plow shall use individual compression springs that can be adjusted for resistance to accommodate usage and conditions. The trip springs shall be able to be changed independently.

Front post to include 26" double acting cylinder with a minimum 4" float in the front slide.

Wing {model TCW-10H-38-N-R}, to be an 11' with a 10' cutting edge with a 32" nose height and a 38 1/2" discharge height, the wing moldboard shall be 3/16" steel. The front trip shall be of a design that the wing shall be able to come back and directly up to a minimum of 4" upon sufficient contact. The trip shall be 30 degree trip with rubber timbren adjustable so that the force necessary to release trip can be set to appropriate usage and conditions. The spring should not have to be changed for a minimum of 5 years.

Rear post shall be angled upon installation so that the push arms are perpendicular to both the wing and rear post to maximize pushing strength and minimize bending and twisting of knuckles on attachment points at the rear post. Rear post shall include a 36" hydraulic cylinder for shelving.

Air operated controls (tower control system)(in lieu of cables) to dictate operations as follow...

"PUSH" - plow units go down... "PULL" - plow units come up...

POWER DRIVE:

The conveyor chain shall be driven through the worm drive gearbox by a low speed, high torque orbital type hydraulic motor. The spinner disc shall be driven by an independent low speed, high torque orbital type hydraulic motor.

SPINNER ASSEMBLY:

The material shall be guided from the conveyor to the distribution disc by means of an adjustable material deflector.

SNOW & ICE CONTROL:

Computerizes sander controls Dickey-John control point or equivalent computerized sander controls. The spreader control system shall be ground speed oriented to maintain a predetermined application rate regardless of vehicle speed. The sander control system shall regulate liquid as well as granular substances with equally flexible programming options for dispersion of materials. This bid will include regularly scheduled training for operators and programmers.

PUMP:

Rexroth A10 load sensing hydraulic piston pump. It shall be constant running with 200 psi of pressure until usage. The pump shall be capable of pumping 36 gallons of hydraulic fluid to enable continuous operation of sanding and liquid functions while operating plow, wing and body. There shall be a low oil sensor in the hydraulic tank with an automatic shutdown valve in case of hose failure. There shall be a switch in the cab to activate the pump for a few seconds to enable the plow and wing to be lifted for travel a maximum of fifteen miles for hose replacement.

HYDRAULICS:

Hydraulic flow control assembly will divert between 10% to 60% of hydraulic oil to motor allowing for pinpoint ratio adjustment. System output will give a liquid to granular ratio from 3% to 20% by weight. In this flow control shall also be incorporated a solenoid bypass valve. The hydraulic tank may be frame mounted or pedestal behind the cab depending on the configuration of the plow truck. It will be a minimum of 40-gallon capacity and have a sight gauge and a filter. All underbody lines to the rear of vehicle and forward to the headgear shall be stainless steel piping.

SPRAY BAR:

The nozzles used to apply liquid directly on granular shall incorporate a primary and secondary arrangement. The primary nozzle works once product starts to pump out the material. The secondary nozzles will not put the material out until system exceeds 10 PSI. Spray bar is designed to withstand corrosive materials and harsh environment.

CALCIUM TANK:

A 150 gallon calcium tank with flowmeter shall be mounted to the cab protector. This shall be a poly tank, electrically controlled and plumbed with a valve for filling at ground level.

BLAST FEATURES:

A "push on – push off" off type. Blast amount is programmable from 0-100 percent of hydraulic capacity. A separate and clearly defined audible warning beeper shall sound when blast button is in the "on" position.

DATA LOGGING:

Type of information system must record shall be time, distance, spread amount, average truck speed, blast amount and distance for each application rate in each of the four different materials.

PAGE 9 SPECIFICATIONS:

CABLE ASSEMBLIES:

All electrical cables supplied must come complete with attached watertight "quick" disconnect, heavy-duty industrial and anti-scuff sheathing.

LIGHTING:

Whelen DOT-LED system Model DOT3701 will be installed on the truck. The rear lighting package will include the following: 700 series square D style rear lightheads, Super-LED warning, LED Brake/Tail/Turn and LED back-up lights. These lights are to be mounted in Whelen stainless steel boxes which will be welded into the rear posts of the dump body. The front of the truck will have (2) Micro Freedoms which shall be mounted onto each of the upper mirror arms. Switching for the warning lights will be done via the International factory switches in the following manner:

Switch 1 - Front half of the Micro Freedoms; Switch 2 - Rear half of the Micro Freedoms; Switch 3 - Rear body mounted 700 Series lightheads.

MISCELLANEOUS:

Pintle hitch plate to be installed on vehicle and is to include a 25 -Ton pintle hitch and "D" rings. The plate shall include trailer plug and be wired in accordance with SAE standards. The plate shall also include trailer air plumbed to the rear with gland hands installed. This shall also include a set of tail/turn and back up light fixtures. These will be cut into the hitch plate.

Exact specifications to be provided during pre build conference with successful bidder.

BACK UP CAMERA: A Pro-Vision Model TV-205A, VLI series Infra Red LED night vision camera system. Monitor will be a 5" LCD, 3 channel color system. The camera shall have a protective guard installed over the camera to help prevent it from being damaged. Camera will activate anytime the truck is in reverse or manually. There shall also be a back up alarm installed at the rear of the vehicle.

ADDITIONAL ITEMS:

Onspot automatic tire chains shall be installed on vehicle. A protected, lighted switch is to be installed in the "Westbrook Control Box".

Two way radio; Motorola PM400, 45 watt, VHF with mounting bracket, input power harness, and heavy-duty microphone; antenna cable and unity gain antenna shall be supplied with the truck at time of delivery. Installation and programming to be performed by Public Services personnel.

Additional box to be mounted beside ice and material control box for additional equipment control switches, referred to as; "Westbrook Control Box"

EXCEPTIONS TO BID SPECIFICATIONS

Feature

Explanation
