



**CITY OF ROCHESTER HILLS  
NOTICE OF INTENT TO ACCEPT SEALED BIDS  
FOR ONE (1) WATER TAP CREW TRUCK  
60,000lb. GCWR**

Sealed bids for ONE (1) WATER TAP CREW TRUCK 60,000LB. GCWR will be received by the City of Rochester Hills at the Purchasing Division/Fiscal Team, 1000 Rochester Hills Drive, Rochester Hills, MI 48309 until 3:00 P.M., Local Time, **THURSDAY, NOVEMBER 10, 2005**, at which time and place said bids will be publicly opened and read aloud.

The complete specifications for the **WATER TAP CREW TRUCK** bid are enclosed for your review.

The City of Rochester Hills officially distributes bid documents from the Purchasing Division or through the Michigan Intergovernmental Trade Network (MITN). Copies of bid documents obtained from any other source are not considered official copies. Only those vendors who obtain bid documents from either the Purchasing Division or the MITN System are guaranteed access to receive addendum information, if such information is issued. The first step to do business with the City is to become a registered vendor by visiting the City website at [www.rochesterhills.org](http://www.rochesterhills.org), select **City Services, Purchasing, Bid Opportunities** and **link to MITN website**. Final proposal results will be posted on the MITN website after award.

Any deviation from the specifications must be noted on the bid. Failure to complete every space on the bid form may disqualify bid.

THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

**Please submit bid on or before the date and time given above to:**

Julie Hamilton, CPPB, Purchasing Analyst  
City of Rochester Hills  
1000 Rochester Hills Drive  
Rochester Hills, Michigan 48309

All bids must be submitted in a Sealed Envelope marked "**BID – CREW TRUCK**".

City of Rochester Hills  
Dated at Rochester Hills, Michigan  
This 20th day of October, 2005

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**PROJECT DESCRIPTION**

The City of Rochester Hills, Michigan is accepting bids for **ONE (1) WATER TAP CREW TRUCK 60,000LB GCWR**. This specification covers the furnishing, delivering and demonstration of ONE, new, current model, municipal water tap crew truck, equipped with air compressor/generator, auxiliary heater, tool boxes and other accessories. Vehicle shall be delivered with all specified equipment installed new and fully functional.

The vehicle furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, and shall be of quality workmanship and material. The bidder represents that all equipment offered under this specification shall be new. Used, shopworn, demonstrator, prototype, or discontinued models are not acceptable.

The vehicle shall be completely assembled and adjusted. All equipment including standard and supplemental equipment shall be installed and the unit made ready for continuous operation. All parts not specifically mentioned which are necessary for the vehicle to be complete and ready for operation or which are normally furnished as standard equipment shall be furnished by the vendor. All parts shall conform in strength, quality and workmanship to the accepted standards of the industry.

The vehicle provided shall meet or exceed all Federal and State of Michigan safety, health, lighting and noise regulations and standards in effect and applicable to equipment furnished at the time of manufacture.

**GENERAL CONDITIONS**

The successful bidder must meet and provide all requirements as outlined in the specifications package contained herein. The bid form contains general specifications which are used as the basis for the overall bid evaluation. All bids shall be in conformance with and subject to General Specifications and other bid documents as contained herein.

Bids shall be in conformance with and subject to the instructions in the bid documents. The Bid Form must be completed entirely and submitted with the Bid.

All bid prices shall remain in effect for at least ninety (90) days from the date of the bid opening to allow for the award of the bid. All prices are to be F.O.B. delivered to the City of Rochester Hills, Department of Public Service facility at 511 East Auburn Road.

No bidder may withdraw a bid after the actual date of the opening thereof except in a case where a bidder demonstrates to the City's reasonable satisfaction that a material and substantial mistake was made in preparing the bid, in which event the bidder shall have 24 hours after the opening of the bid to deliver to the City a notice, in writing, that the bidder desires to withdraw the bid and state the reasons therefore. Once a bid is withdrawn, it may not be re-bid.

The City reserves the right to reject any and all bids; and to waive any defect or irregularity in bids. The City reserves the right to accept any separate item in the bid; and to accept the bid that in the opinion of the City is to the best advantage and interest of the public.

The City of Rochester Hills reserves the right to split or abstract any or all bid proposals and award

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multiple contracts from the same quotation based on price, availability and service when in its judgment it best serves the City of Rochester Hills.

Any deviations from the specifications must be noted in the proposal.

The City reserves the right to waive any informalities or immaterial omissions or defects not involving price, time or changes in the work. In the case of error in the extension of prices in the bid or other arithmetic error, the unit price shall govern.

No proposal will be accepted from any person, firm or corporation who is in arrears upon and obligation to the City or who otherwise may be deemed irresponsible or unreliable to the City.

**THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.**

Any significant explanation desired by a bidder, regarding the meaning or interpretation of the Bid must be requested with sufficient time allowed for a reply to reach all prospective bidders before the submission of their bids. Any information given to a prospective bidder concerning the bid will be furnished to all prospective bidders as an amendment or an addendum to the bid, if such information would be of significance to uninformed bidders. The City shall make the sole determination as to the significance to uninformed bidders. Questions regarding the bid **must be made in writing prior to Thursday, November 3, 2005, at 5:00p.m.** at which time a response will be prepared and forwarded to all vendors.

All correspondence or inquiries from interested vendors regarding this bid proposal shall be directed to the attention of:

Bruce Halliday  
Fleet Manager  
Department of Public Service Garage  
511 E. Auburn Road  
Rochester Hills, Michigan 48307  
248-841-2659

Julie Hamilton  
Purchasing Analyst  
Purchasing Division  
1000 Rochester Hills Drive  
Rochester Hills, Michigan 48309  
248-841-2537

Only those persons designated above are authorized to seek additional information from prospective vendors regarding their bid proposals. Correspondence or inquiries made directly to vendors regarding their bid proposals from all other persons are to be directed to those City employees designated above for appropriate review and response.

Municipalities are exempt from Michigan State Sales and Federal Excise taxes. Prices quoted shall not include Federal or State taxes. The City will furnish the successful bidder with tax exemption certificates upon request.

**SUBMISSION OF BIDS**

Each bidder must use the attached bid form and specifications to submit their bid. All bids must be received by mail or delivered in person to: Julie Hamilton, Purchasing Analyst, City of Rochester Hills, Purchasing Division/Fiscal Team, 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309. (No

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fax or e-mail bids will be accepted.) Bids received after the time or date prescribed herein shall not be considered for award.

**SPECIFICATIONS**

This specification describes one (1) new, current model, municipal water tap crew truck. It is the City's intent to purchase this vehicle for use by the Department of Public Service.

Unless otherwise stated by bidder, the bids will be considered as being in strict accordance with the City's applicable standard specifications, and any special specifications as outlined in the bid document. Reference to particular trade names, manufacturers, or model numbers are made for descriptive purposes to guide the bidder in interpreting the requirements of the City, and should not be construed as excluding bids on other trade names, manufacturers, or model numbers unless otherwise stated. However, the Bidder, if awarded the contract, will be required to furnish the particular item referred to in the specifications or description unless departure or substitution is clearly noted and described in the bid.

**NOTICE TO BIDDERS**

Examples shown are listed to indicate the type and class of equipment desired. Bidders are cautioned to read the specifications carefully, as there may be special requirements not commonly offered by the equipment manufacturer. Bidders are cautioned that any units delivered to the F.O.B. point which do not meet the specifications in every aspect, will not be accepted.

**AWARD OF PURCHASE ORDER**

The bid will be awarded to the responsible, responsive bidder whose bid conforming to this solicitation will be most advantageous to the City, price and other factors considered.

The City reserves the right to reject any and all bids, in part or whole, and to waive any informalities or irregularities in bids received.

**CHANGES AND ADDENDA**

Each change or addendum issued in relation to this bid will be on file in the Purchasing Division.

It shall be the bidder's responsibility to make inquiry as to the changes or addenda issued. All such changes or addenda shall become a part of the contract and all bidders shall be bound by such changes or addenda. Addendums will be posted on the MITN system.

**METHOD OF PAYMENT**

Payment shall be made from supplier's invoice submitted to cover items received and accepted during the billing period. Invoices must contain the purchase order number under which the contract is awarded.

Partial payments are not authorized on individual written purchase orders issued for this procurement. Payment will be made upon final delivery and acceptance of all supplies ordered on each purchase order issued.

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**EXTENSION OF AWARD TO THE TRI-COUNTY PUBLIC PURCHASING COOPERATIVE**

The City of Rochester Hills is a member of MITN (formally Tri-County Public Purchasing Cooperative) consisting of approximately twenty-one cities from Oakland, Macomb and Wayne Counties. If your company is awarded item(s) referenced in the Request for Proposals, the cooperative governmental entities may wish to use this contract and will issue a purchase order for the item(s) awarded in the bid proposal. Each entity is responsible for their own payments and is to be considered individually for billing and collection purposes. Each entity will provide their own purchase order and delivery location(s) and must be invoiced separately to the address indicated on their purchase order.

\_\_\_\_\_ If an award is made to the City of Rochester Hills, it is agreed that the contract will be extended to MITN (formally Tri-County Public Purchasing Cooperative) and associate entities under the same prices, terms and conditions.

An extension proposal is attached which indicates the manner in which each entity will be added.

\_\_\_\_\_ Attached      \_\_\_\_\_ Not Attached.

\_\_\_\_\_ Our company is **NOT** interested in extending the contract.

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**BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2: BIDDERS PROPOSAL** (right hand column) with an "X" to indicate the specification is being EXACTLY met, or, with a description of ANY DEVIATION from the specification.

**FAILURE TO COMPLETE EVERY SPACE ON THIS FORM MAY DISQUALIFY BID!**

SECTION 1:  
 SPECIFICATIONS:

SECTION 2:  
 BIDDERS PROPOSAL:

=====

**GENERAL SPECIFICATIONS:**

- A. This specification covers the furnishing, delivering and demonstration of ONE, new, current model, municipal water tap crew truck, equipped with air compressor/generator, auxiliary heater, tool boxes and other accessories. \_\_\_\_\_
- B. Vehicle shall be delivered with all specified equipment installed new and fully functional. \_\_\_\_\_
- C. Vehicle shall be capable of legal travel on public roads with respect to itself, its cargo and not less than two persons. \_\_\_\_\_
- D. Provide the following information on the unit being proposed:
  - 1. Year of truck. \_\_\_\_\_
  - 2. Manufacturer of truck. \_\_\_\_\_
  - 3. Model of truck. \_\_\_\_\_
  - 4. Manufacturer of body. \_\_\_\_\_
- E. Bidder shall submit with this bid the latest printed specifications and advertising literature on the truck cab and chassis and truck body, and all accessories. \_\_\_\_\_
- F. Bidder shall submit with this bid written terms and conditions of all standard **and optional extended** warranty coverage on truck chassis, engine, transmission, body, accessories and other components. \_\_\_\_\_
- G. At time of delivery, vehicle shall conform to all applicable U.S. Department of Transportation, and O.S.H.A. regulations, and all applicable Federal Motor Vehicle Safety Standards. \_\_\_\_\_
- H. Truck chassis and body shall be configured to allow for the lowest possible road surface to body floor height. \_\_\_\_\_
- I. Truck cab and body shall be bright white in color. Body shall have 3" red and white 3M conspicuity sheeting running horizontally the full length of body sides and width of the rear door as close to 60" above ground level as practical. \_\_\_\_\_
- J. Interior trim color shall be gray. \_\_\_\_\_
- K. Freight of unit, and all associated items (spare tires, manuals, etc.) shall be F.O.B.: \_\_\_\_\_

City of Rochester Hills  
 Fleet Services Garage  
 511 E. Auburn Rd.  
 Rochester Hills, MI. 48307

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- L. **Pre build meeting.** During various stages of assembly, bidder agrees to allow the City's Fleet Manager and other city personnel to consult with bidder's shop supervisor or equivalent regarding exact placement of various components such as rear step bumper, heating system, lighting, warning lights, switch panel, etc. \_\_\_\_\_
- M. The city will provide photographs on request of specific components and systems on similar trucks currently in service to assist the successful vendor in the proper fabrication, placement and installation of said items. \_\_\_\_\_

**CAB AND CHASSIS:**

- A. Cab-chassis shall be a Sterling, or approved equal. \_\_\_\_\_
- B. 33,000# minimum gross vehicle weight rating (GVWR). 60,000# minimum gross combined vehicle weight rating (GCVWR). \_\_\_\_\_
- C. Frame. \_\_\_\_\_
  - 1. Single channel 9/32" x 3-7/16" x 10-1/16". \_\_\_\_\_
  - 2. 12.33 Section Modulus. \_\_\_\_\_
  - 3. 120,000 PSI. \_\_\_\_\_
  - 4. 1,479,000 RBM. \_\_\_\_\_
  - 5. Cross members, suspension and body supports shall be connected with huck fasteners. \_\_\_\_\_
- D. All vehicle components such as springs, brakes, axles, tires, etc. shall meet or exceed requirements of GVWR & GCVWR. \_\_\_\_\_
- E. Meritor RS-21-160 - 23,000# rear axle with air ride rear suspension. \_\_\_\_\_
  - 1. Synthetic axle lubricant. \_\_\_\_\_
  - 2. Dual air leveling valves (one each side). \_\_\_\_\_
  - 3. Provisions to isolate and exhaust air from rear suspension to provide for a lower body floor height shall be included. \_\_\_\_\_
  - 4. Brake system air tanks shall remain charged while suspension pressure is exhausted. Controls shall be operable from drivers position. \_\_\_\_\_
- F. Shock absorbers, heavy duty telescopic, front & rear. \_\_\_\_\_
- G. Rear axle ratio will be configured to permit a maximum vehicle speed of 65mph to optimize low speed performance. \_\_\_\_\_
- H. Diesel Engine. \_\_\_\_\_
  - 1. Caterpillar C7 with electronic engine control and self diagnosis, or approved alternate. \_\_\_\_\_
  - 2. 300 horsepower. \_\_\_\_\_
  - 3. Peak torque 860 lb-ft. \_\_\_\_\_
  - 4. 37% torque rise. \_\_\_\_\_
  - 5. Heavy duty cooling system with minimum 950 square inch radiator. \_\_\_\_\_
  - 6. All engine coolant hoses shall be silicone. \_\_\_\_\_
  - 7. Air operated automatic cooling fan clutch with dash-mounted override switch and "on" indicator light to turn fan on at driver's discretion. \_\_\_\_\_
  - 8. -30°F. minimum extended life antifreeze. \_\_\_\_\_
  - 9. Oil pan shall be rustproof (state why rustproof). \_\_\_\_\_
  - 10. Electronic high engine idle switch. \_\_\_\_\_
  - 11. Engine warning system with audible and visual indicators including:
    - a. Low oil pressure. \_\_\_\_\_

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- b. High coolant temperature. \_\_\_\_\_
- I. Transmission and driveline. \_\_\_\_\_
  - 1. Allison 3500 series six speed transmission. \_\_\_\_\_
  - 2. Allison Trans-Synd synthetic transmission oil. \_\_\_\_\_
  - 3. Half round universal joints. \_\_\_\_\_
  - 4. 12 volt "smart" back up alarm, Ecco model SA 901, or approved equal. \_\_\_\_\_
- J. Air Brakes. \_\_\_\_\_
  - 1. Bendix AD-IP heated air dryer or approved equal. \_\_\_\_\_
  - 2. Rockwell Q Plus S-Cam brake shoes. \_\_\_\_\_
  - 3. Outboard mounted brake drums. \_\_\_\_\_
  - 4. Automatic slack adjusters front and rear. \_\_\_\_\_
  - 5. Rear brake chambers shall be Haldex Anchorlok Life-seal. \_\_\_\_\_
  - 6. Pull cord style drain valves on all air tanks, with pull cords accessible from side of vehicle. \_\_\_\_\_
  - 7. Fully equipped ABS trailer air brake control system with DOT lighting and brake electrical connector plug mounted near pintle hitch. Plug location shall not interfere with any part of trailer during tight turns. \_\_\_\_\_
  - 8. Air lines for trailer brakes from brake controls to pintle hitch draw bar area, equipped with glad hand fittings & fitting seal covers. Glad hand fittings shall not interfere with trailer or trailer connections when coupled. \_\_\_\_\_
- K. Wheels and Tires. \_\_\_\_\_
  - 1. Wheels shall be hub piloted disc. \_\_\_\_\_
  - 2. All tires shall be tubeless, radial ply. \_\_\_\_\_
  - 3. Drive tires shall be, 285/70R19.5 16-ply Michelin XDE2+ lug tread or approved equal. \_\_\_\_\_
  - 4. Steer tires shall be, 285/70R19.5 16-ply Michelin XZE2+ lug tread or approved equal. \_\_\_\_\_
- L. Steering \_\_\_\_\_
  - 1. Shall be integral, hydraulic power assist. \_\_\_\_\_
  - 2. Steering column shall be tilt type. \_\_\_\_\_
  - 3. All linkage components shall have grease fittings. \_\_\_\_\_
- M. Exhaust System. \_\_\_\_\_
  - 1. Exhaust shall run along left side of frame. \_\_\_\_\_
  - 2. Single horizontal stainless steel muffler. Muffler shall not be mounted to cab. \_\_\_\_\_
  - 3. Exhaust shall terminate to **street side** of vehicle in front of rear wheels without a turn down. \_\_\_\_\_
- N. Fuel system. \_\_\_\_\_
  - 1. Fuel tank mounted under left side of cab, minimum capacity of 50 gallons. \_\_\_\_\_
  - 2. Fuel system shall be equipped with a CAT or Racor heated fuel/water separator. \_\_\_\_\_
  - 3. Electric fuel gauge, instrument panel mounted. \_\_\_\_\_
- O. Electrical System. \_\_\_\_\_
  - 1. 12 volt negative ground system. \_\_\_\_\_
  - 2. Minimum 160 amp alternator. \_\_\_\_\_
  - 3. Automatic circuit breakers shall protect electrical circuits in lieu of fuses. \_\_\_\_\_
  - 4. Manufacturer's maximum optional battery capacity (state CCA, reserve \_\_\_\_\_



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- capacity, and number of batteries). \_\_\_\_\_
- 5. Aluminum battery box(es) mounted under right side of cab. \_\_\_\_\_
- 6. All electrical connections shall meet N.E.M.A. specifications. \_\_\_\_\_
- P. Other Related Cab Equipment. \_\_\_\_\_
  - 1. Sheet molding compound (SMC) cab doors. \_\_\_\_\_
  - 2. Left and right west coast style stainless steel **heated** rear view mirrors each measuring not less than 7" X 14". \_\_\_\_\_
  - 3. Left and right side stainless steel convex mirrors measuring not less than 7" in diameter and located below west coast mirrors. \_\_\_\_\_
  - 4. Intermittent electric windshield wipers. \_\_\_\_\_
  - 5. Driver seat, hi-back cloth air suspension. \_\_\_\_\_
  - 6. Passenger seat, hi-back cloth. \_\_\_\_\_
  - 7. Full width mud flaps behind front and rear tires. **No advertising on any mud flap!** \_\_\_\_\_
  - 8. 110 volt 1200 watt engine core plug type coolant heater with a weatherproof receptacle mounted in front bumper. \_\_\_\_\_
  - 9. High output heater/defroster. \_\_\_\_\_
  - 10. Factory installed in-dash air conditioning. \_\_\_\_\_
  - 11. Factory installed am/fm/weather band stereo radio. \_\_\_\_\_
  - 12. All cab glass tinted. \_\_\_\_\_
  - 13. All hardware such as steps, grab handles, etc. necessary to allow D.O.T. approved method of entry and exit of both doors. \_\_\_\_\_
  - 14. Three full sets of vehicle keys. \_\_\_\_\_
  - 15. Instrument panel mounted tachometer. \_\_\_\_\_
  - 16. Dash mounted 12 volt hour meter. \_\_\_\_\_
  - 17. Dash mounted 12 volt power supply. \_\_\_\_\_

**BODY:**

- A. The body shall be designed for use on a single axle chassis. \_\_\_\_\_
- B. The body must be a proven standard production model. \_\_\_\_\_
- C. Body shall be constructed of 5/8" fiberglass Reinforced Plywood (FRP) with gel coat exterior finish and 1/8" smooth aluminum skirts . \_\_\_\_\_
- D. Body shall contain maximum thermal insulation. \_\_\_\_\_
- E. Design shall allow for the lowest possible road surface to floor height without sacrificing strength. \_\_\_\_\_
- F. Body dimensions:
  - 1. Overall body length shall be 14'. \_\_\_\_\_
  - 2. Outside width shall be 96". \_\_\_\_\_
  - 3. Inside height shall be 84" minimum. \_\_\_\_\_
- G. Floor shall be 1-1/8" laminated apitong wood and incorporate 12 gauge aluminum wheel wells to allow for lower ground to floor height. \_\_\_\_\_
- H. Body under structure shall have 3" channel long sills with 3" I-beam cross members on 12" centers. \_\_\_\_\_

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- I. Rear door shall be a Todco weathertite insulated roll-up or approved equal with a minimum opening 85" wide, 77" high. \_\_\_\_\_
- J. Door latching-locking hardware shall allow operation from the inside as well as outside. \_\_\_\_\_
- K. A 32" wide swing door with aluminum step well shall be mounted curbside 29" from the front of the body. Door shall swing towards front of vehicle. \_\_\_\_\_
- L. Roof shall be constructed of one piece translucent fiberglass with roof bows on 24" Centers. The ceiling shall be fully insulated with 1¼" fiberglass except for a 24" wide strip running from the bulkhead to the rear door. The ceiling liner shall be ¼" FRP with a white gel coat finish. \_\_\_\_\_
- M. An attic shall extend 48" forward of the front bulkhead, the height of the attic shall be as high as practical as related to the cab height. The translucent center strip of the roof shall NOT extend into the attic. \_\_\_\_\_
- N. Rear step bumper/draw bar shall be a two-step design constructed of 3" structural steel channel with **stainless steel** diamond plank step surfaces. The lower primary step shall be 12" deep with outer ends tapered 45 degrees and center tapered notch-out for trailer pintle hitch. Upper secondary step shall be 9" deep with outer ends tapered 45 degrees. Drawbar/hitch shall be of sufficient strength to tow a trailer with backhoe (approx. 25,000#). Drawing of step will be provided upon request. \_\_\_\_\_
- O. Pintle hitch.
  - 1. A Buyers BP100A (or approved equal) pintle hitch shall be provided, mounted on center of rear step bumper/drawbar. \_\_\_\_\_
  - 2. 2 "D-rings" for trailer safety chains shall be mounted in a location that will not interfere with air or electrical lines or the swing of the trailer tongue. \_\_\_\_\_
  - 3. Pintle hitch shall be mounted to truck 22" above ground level, measured at lower inside surface of pintle hitch. \_\_\_\_\_
- P. The curbside of the body shall be equipped with two exterior aluminum compartments with weatherproof rubber sealed lockable doors, keyed alike, recessed into lower portion the body:
  - 1. Forward compartment 28" high x 28" deep x 36" long, mounted forward of the rear wheels, housing one Hannay model N718-25-26-15.5G spring re-wind reel equipped with 100' of 3/8" ID air line connected to compressor, and one Hannay model NSCR-716-23-24G spring re-wind reel equipped with 100' of 12-3 extension cord that shall supply 120VAC current from the PTO generator. The top of the compartment shall extend above the floor of the body the same height as the wheel well boxes. The top panel shall be removable to allow for installation and service of hose reels. \_\_\_\_\_
  - 2. One compartment 28" high x 28" deep x 20" long, shall be mounted aft of the rear wheels. \_\_\_\_\_
- Q. The street side of the body shall be equipped with two exterior aluminum compartments with weatherproof rubber sealed lockable doors, keyed the same as the curbside compartments, recessed into the lower portion of the body:
  - 1. Forward compartment 18" high x 24" deep x 38" long, equipped with full length slide-out tray supported by Grant Hardware roller bearing slides rated at 200# each shall be mounted under the body floor at the front of the

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body, housing the auxiliary heater.

2. Rear compartment shall be insulated, 28" high x 24" deep x 36" long, with a minimum 24" high door opening, and shall be equipped with a 24" length slide-out tray supported by Grant Hardware roller bearing slides rated at 200# each, and shall be mounted directly behind the auxiliary heater compartment. This compartment shall house a diaphragm pump.
3. All under body boxes shall be equipped with swing up doors, and latch to retain the door open 180 degrees from the closed position. The boxes shall be equipped with stainless steel two point lockable latches.

**BODY ELECTRICAL:**

**A. EXTERIOR LIGHTING:**

1. All stop/turn/tail, marker and warning lights (except for front corner amber strobes) shall be LED (light emitting diode) type.
2. Two amber front corner strobes (one each side) with a minimum rating of 30 joules per double flash per head shall be mounted in headlight/turn signal assembly (power pack shall be mounted in a location unaffected by the weather or road salt spray).
3. Four amber oblong LED strobe light heads (two right side, two left side) in rubber grommets, one at front of body, one at rear of body mounted 60" above ground level.
4. Four amber LED oval strobe light heads mounted in rubber grommets (two each side of rear roll-up door), one mounted near top of body, one mounted near taillights as close to 60" above ground level as practical.
5. All amber warning lights shall be controlled by one single switch panel mounted switch.
6. A Whelen model TA858LED Traffic Advisor directional arrow shall be mounted above rear roll-up door, control head mounted in cab.

**B. INTERIOR LIGHTING:**

Four 12 volt DC dome lights shall be controlled by 2 switches: 1 located inside the curb side door, and one inside the rear roll up door.

**NOTE: City's Fleet Manager will determine EXACT location of all non-factory lighting and controls during production.**

- C. One large 12 volt manual crank open-closed power roof vent shall be centered in the roof near the rear of the body. Fan direction shall be reversible. Power feed shall be controlled by a switch mounted inside the body, with master power switch on panel in truck cab.
- D. A door open warning buzzer shall sound in cab when rear door is not fully closed and transmission is in forward or reverse gear(s) .
- E. A high frequency pulse type battery anti-sulfation maintenance device such as PulseTech or Canadus Power Systems Can-Pulse, shall maintain chassis battery bank. Device shall be powered by the battery bank.

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- F. A switch panel with dual intensity backlit rocker switches shall be provided to house all accessory switches and indicator lights. Switch label shall be backlit low intensity with switch off, high intensity with switch on.
  - 1. Each switch shall have its function identified, and have a separate magnetic circuit breaker.
  - 2. Switches shall include:
    - a. Flashing warning lights.
    - b. Power roof vent feed.
    - c. Auxiliary heater power feed.
    - d. Master circuit breaker and ignition relay shall be provided.
    - e. Switch panel shall be manufactured by Wired Rite Systems Inc. or approved alternate (state manufacturer).
- G. A 120 volt powered 12 volt onboard battery charger that senses chassis battery charge state and automatically turns on and off as batteries require charge shall be provided. Charger shall maintain batteries in a fully charged state when the truck is parked. Charger output amperage shall not be less than the body heater requires to operate on high setting. 120 volt power for charger shall be supplied from the "Shore power" plug connector and include a dedicated circuit breaker. Location of shore power connection point shall be determined at time of production.
- H. **NO SCOTCH LOCK TYPE WIRE CONNECTORS OR TAPE SPLICES SHALL BE USED ANYWHERE ON THE VEHICLE OR ANY OF ITS ACCESSORIES!!**

**UNDERDECK AIR COMPRESSOR/GENERATOR:**

- A. Vanair model UDEC185/6.2 Genair (or approved equal) side mount hot-shift PTO combination air compressor/generator with dash mounted instrument panel and controls.
- B. Compressor section:
  - 1. Output rating 185 cfm.
  - 2. Dash mounted light indicating PTO is engaged.
  - 3. Fluid cooling package mounted in front center of body attic.
  - 4. Air/oil separator shall be mounted between truck frame rails. Filter shall be mounted to permit change without disassembly of **any** components.
  - 5. Air hose outlets mounted at right front and rear corners of body with Chicago style fittings.
- C. AC generator section:
  - 1. Dual voltage 120/240 volts.
  - 2. Brushless.
  - 3. Engine speed control shall maintain 2 percent frequency.
  - 4. 45amp main breaker - 30 amp GFCI breaker.

**AUXILIARY HEATER:**

- A. Truck shall be supplied with a Webasto Scholastic series 45,000BTU diesel fired engine coolant heater, plumbed to the engine cooling system.
- B. Heater shall be mounted in the forward street side under floor exterior compartment on a pull-out tray with ball bearing slides rated at 200# each side.

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- C. Heat exchanger with two-speed fan shall be mounted inside body (location of heat exchanger will be determined during assembly). \_\_\_\_\_
- D. Blower assembly shall be protected with a metallic cage to prevent persons or equipment from contacting fan. \_\_\_\_\_
- E. An adjustable thermostat shall regulate body compartment temperature. Location of thermostat shall be determined during assembly. \_\_\_\_\_
- F. Heater and heat exchanger shall be powered by truck battery bank. \_\_\_\_\_

**ADDITIONAL EQUIPMENT:**

- A. Spare tires and rims.
  - 1. Spare tire and rim, assembled and identical to front tire and rim on truck. \_\_\_\_\_
  - 2. Spare tire and rim, assembled and identical to rear tire and rim on truck. \_\_\_\_\_
- B. Two tow hooks (one each side) near front bumper. \_\_\_\_\_
- C. Manuals (CD or internet based preferred).
  - 1. Cab and chassis owners/operator manual. \_\_\_\_\_
  - 2. Cab and chassis factory shop service manual(s). \_\_\_\_\_
  - 3. Cab and chassis factory wiring diagram. \_\_\_\_\_
  - 4. Cab and chassis line (build) sheet. \_\_\_\_\_
  - 5. Engine shop diagnosis/repair manual(s). \_\_\_\_\_
  - 6. Accessory switch/indicator light panel wiring diagram. \_\_\_\_\_
  - 7. Transmission shop diagnosis/repair manual(s). \_\_\_\_\_
  - 8. Body parts/service manual(s). \_\_\_\_\_
  - 9. Air compressor/generator operators/parts/service manual(s). \_\_\_\_\_
  - 10. Auxiliary heater operator/parts/service manual(s). \_\_\_\_\_
- D. One complete set of spare filters including engine oil, air, coolant, transmission, air compressor, and any other filters used on vehicle. \_\_\_\_\_
- E. Cat Electronic Technician.  
Successful bidder shall include one complete Cat ET hardware and software package including the following:
  - 1. Dell Rough service laptop computer, minimum specifications: PC Pentium IV 2.4 GHz processor, 512MB RAM, 1GB available hard disk drive, 40X speed CD-Rom or 8X speed DVD drive, 3.5" 1.44 MB floppy disk drive, 14.1" XGA Screen (800x600 compatible), Microsoft Windows™ NT 4.0 (Service Pack 6), 2000 ME, XP or Windows 98, RS232 port with 16550AF UART or compatible, built in pointing device or mouse, Microsoft® Internet Explorer 5.5 or greater. Shall also include case, 110 volt adapter with battery charger, all necessary cables, plugs, adapters, manuals, start up materials, and information. \_\_\_\_\_
  - 2. Cat ET software package, (single use customer version) capable of use with all Cat products (on and off road). Shall also include required license(s). \_\_\_\_\_
  - 3. Minimum of 2 hours of on site hands on CAT ET training for 4 technicians. \_\_\_\_\_

**SPECIAL REQUIREMENTS:**

- A. All filters and accessory drive belts shall not be painted with part numbers visible. \_\_\_\_\_
- B. **NO ADVERTISING MUD FLAPS OR DECALS PERMITTED ANYWHERE ON THE VEHICLE!!!!!!** \_\_\_\_\_

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**WARRANTY:**

- A. Vehicle and all components shall have as a minimum, one year warranty on parts and labor. \_\_\_\_\_
- B. Engine shall have an 8 year, 150,000 mile combination internal engine and electronic controls parts and labor factory warranty. \_\_\_\_\_
- C. Transmission shall have an 8 year, 150,000 mile Allison full coverage factory warranty. \_\_\_\_\_
- D. Body shall have a 5 year structural warranty. \_\_\_\_\_
- E. All extended warranty coverage for engine, transmission, axle, and other cab/chassis components shall include all towing charges. \_\_\_\_\_
- F. Include all warranty coverage outlines (including towing) with bid proposal. \_\_\_\_\_
- G. Indicate the closest factory authorized warranty facility to the City of Rochester Hills for:
  - 1. Engine. \_\_\_\_\_
  - 2. Transmission. \_\_\_\_\_
  - 3. Chassis/cab. \_\_\_\_\_
  - 4. Body and accessories. \_\_\_\_\_
  - 5. Compressor/generator. \_\_\_\_\_
  - 6. Body heater \_\_\_\_\_

**BODY /EQUIPMENT INSTALLER:**

Company Name \_\_\_\_\_  
 Contact person \_\_\_\_\_  
 E-mail address \_\_\_\_\_  
 Telephone number \_\_\_\_\_

**COST, TERMS AND DATES:**

- A. Costs.
  - 1. Total cost for truck as specified. \$ \_\_\_\_\_
  - 2. Alternative lease price to City of Rochester Hills as proposed. \$ \_\_\_\_\_
  - 3. Lease of above specified vehicle shall be for a period of 48 months. \_\_\_\_\_
  - 4. Down payment required. \$ \_\_\_\_\_
  - 5. Residual value at the end of 48 months. (price to City if purchase is desired at termination of lease). \$ \_\_\_\_\_
  - 6. Conditions that will negatively impact residual value of vehicle at end of lease. \_\_\_\_\_
  - 7. Monthly payment. \$ \_\_\_\_\_
  - 8. Interest rate for loan (in terms of Annual Percentage Rate {APR}). \_\_\_\_\_
- B. State payment terms of proposal, including prompt payment discount or late payment penalty (if any). \_\_\_\_\_
- C. State approximate delivery date. \_\_\_\_\_
- D. All bids shall remain in effect for at least ninety (90) days from date of bid opening, and all bid prices are firm and binding. \_\_\_\_\_

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**BIDDER INFORMATION:**

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

REPRESENTATIVE'S NAME \_\_\_\_\_

TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_ FAX NUMBER \_\_\_\_\_

E-MAIL ADDRESS \_\_\_\_\_