

<div>CONTRACT AWARD</div>		<div>STATE OF ALASKA</div> <div>HQ, STATE EQUIPMENT FLEET (Contracting Authority)</div> <div>2200 E. 42nd Avenue</div> <div>Anchorage, Alaska 99508</div>		<div>CONTRACT AWARD NUMBER</div> <div>CA1955-15</div>	
ORDERING DEPARTMENT: HEADQUARTERS, STATE EQUIPMENT FLEET 2200 E. 42ND AVENUE ANCHORAGE, ALASKA 99508 (907) 269-0793 PHONE / (907) 269-0801 FAX			DATE OF CONTRACT: DECEMBER 17, 2014 DATE INITIAL CONTRACT BEGINS: DECEMBER 17, 2014 DATE INITIAL CONTRACT ENDS: DECEMBER 16, 2015 NUMBER & PERIOD OF RENEWALS: FOUR (1) ONE YEAR RENEWALS RENEWALS EXPIRE (MO/YR): DECEMBER 16, 2019 ISSUED IN ACCORDANCE WITH BID # SEF- 1955 DATED: OCTOBER 10, 2014 ESTIMATED VALUE OF INITIAL TERM: \$4,000,000.00		
CONTRACTOR: TRAILERCRAFT INC. ADDRESS: 1301 E. 64TH AVENUE ANCHORAGE, AK 99518 CONTACT NAME: GIL RANCHEL PHONE NUMBER: (907) 280-8995 E-MAIL: GILR@TRAILERCRAFT.COM					
SEND INVOICES IN DUPLICATE TO: STATE EQUIPMENT FLEET, 2200 E. 42ND AVENUE, ANCHORAGE AK 99508					
THIS ORDER CONSTITUTES A BINDING COMMITMENT BETWEEN THE STATE AND THE CONTRACTOR LISTED HEREON. UNAUTHORIZED MODIFICATION WITHOUT THE EXPRESSED PRIOR APPROVAL OF THE CONTRACTING AUTHORITY WILL RESULT IN A FINANCIAL OBLIGATION ON THE CONTRACTOR AND/OR UNAUTHORIZED STATE PERSONNEL MAKING THE CHANGE.					
<div>DESCRIPTION</div> <div> CONTRACT FOR 6X4 CHASSIS CABS (WITH (4) FOUR ONE YEAR RENEWAL OPTIONS) </div> <div> CONTRACTING OFFICER KRISTI FUTREL PHONE: (907) 269-0793 FAX: (907) 269-0801 </div> <div> <u>TABLE OF CONTENTS</u> </div> <div> I. SPECIAL TERMS & CONDITIONS II. STANDARD TERMS & CONDITIONS III. SPECIFICATIONS IV. PRICE SCHEDULE </div>					
CONTRACTING AUTHORITY NAME & TITLE KRISTI FUTREL, CONTRACTING OFFICER III			SIGNATURE		
CONTRACTOR AUTHORITY NAME GIL RANCHEL			SIGNATURE On File		
<div> <div>IMPORTANT</div> <div> 1. Contract award number and ordering department name must appear on all invoices and documents relating to this order. 2. The State is registered for tax free transactions under Chapter 32, IRS Code Registration No. 92-601185. Items are for the exclusive use of the State and not for resale. </div> </div>					

SECTION I
SPECIAL TERMS AND CONDITIONS

- 1.0 CONTRACT:** Contract for the purchase of: 6X4 Chassis Cabs that meet the criteria listed and are compatible with the state's current up-fitter.
- 2.0 ESTIMATED QUANTITIES:** Up to 100 Chassis in year ONE. Renewals will be up to 50 units per renewal.
- 3.0 METHOD OF AWARD:**
- 3.1 All respondents to this ITB will be awarded a contract provided they meet the specifications, terms, and conditions of this ITB and provided they are determined responsive and responsible bidders.
- 3.1.1 Bidders can choose to submit bids for any or all lots under this contract.
- 3.1.2 Individual contracts will be issued for each Lot bid.
- 3.1.3 Once the contracts are established the following selection process will be used when issuing purchase orders:
- 3.1.3.1 Award of purchase order to a vendor will be based on the lowest total price of what the ordering agency selects as the base model including the various options that are ordered.
- 4.0 CONTRACT PERIOD:** The length of this contract will be One (1) calendar year from date of award; with the option to renew for Four (4) additional; One (1) calendar year terms. Renewals must be initiated solely by the state. However, the contractor must provide their mutual agreement in order for the contract to be renewed for any additional terms.
- 5.0 LOCATION OF USE:** Statewide
- 6.0 WARRANTY LOCATION:** WARRANTY LOCATION: Warranty services will be provided in the Anchorage and Fairbanks area with no travel charges imposed for the entire warranty period. Vendor must have an authorized warranty location in either Anchorage or Fairbanks. Service at the vendor's location is preferred, but can be performed at either the vendor's facility or the State Equipment Fleet Facility. Vendors are expected to provide warranty services within the times described in 18.0. Preference may be given to bidder at time of purchase order based on warranty locations. All other locations, travel will be charged per 18.3.
- 7.0 FIRM PRICE GUARANTEE:**
- 7.1 For the purpose of award, bid prices made in accordance with this ITB must be good and firm for a period of **60 days** from the date of bid opening. After contract award, contract/bid price will govern through term of contract as established.
- 7.2 No retroactive price increases will be accepted.
- 8.0 PRICE ADJUSTMENTS:**
- 8.1 Price adjustments, increases or decreases for each contract period/ or new model year change may be requested by providing the procurement officer satisfactory evidence that all of the following conditions exist:
- 8.1.1 The request must be made in writing and submitted to the procurement officer 30 days prior to the State and the contractor exercising the renewal option.
- 8.1.1.1 Contract price adjustment request will be allowed only once annually prior to the start of each renewal contract period.
- Or
- 8.1.1.2 Contract price adjustment request will be allowed in the case of a manufacturers new model year if a documented increase is passed onto the contractor.
- 8.1.2 The increase is a result of the increased cost at the manufacturer's level and not costs under the contractor's control, and that;
- 8.1.2.1 The increase will not produce a higher profit margin for the contractor than that on the original contract, and that;
- 8.1.2.2 The increase affects only the item(s) that are clearly identified by the contractor.

- 8.1.2.3 Satisfactory forms of the evidence of the above facts may include a certified invoice from the manufacturer, a letter from the manufacturer indicating a price change, or an affidavit from an independent professional price-tracking firm that is recognized by the industry as reputable and knowledgeable. The contractor must be able to show the difference between the prior year's price and the current difference in the price being requested.

8.2 Price Decreases:

- 8.2.1 During the period of the contract all price decreases experienced by the contractor must be passed on to the state. A contractor's failure to strictly and faithfully adhere to this clause, within the time required, will be considered breach of contract.

8.3 Manufacturer's Rebate (Incentives):

- 8.3.1 In any circumstance during or prior to completion of the contract, whereupon the State of Alaska becomes eligible to receive a rebate for any vehicle or equipment purchased under this contract, it shall be the BIDDER'S responsibility to inform the procurement officer in writing and to advise the procedures for obtaining such rebates .

9.0 COOPERATIVE PURCHASING: In addition to the State of Alaska requirements, the Municipality of Anchorage and other Alaska political subdivisions may cooperatively purchase from the resulting contract. At no time may the contractor change the terms and conditions, alter the price to another entity, which differs from the contractual price, nor charge undisclosed administrative fees to allow cooperative purchasing.

10.0 EQUIPMENT OFFERED:

- 10.1 Equipment offered in response to this ITB must be new equipment. New equipment means equipment that is currently in production by the manufacturer and is still the latest model, edition or version generally offered. The equipment must be warranted as new by the manufacturer and may not have been used for any purpose, other than display (not demonstration), prior to its sale to the state. The state will not accept remanufactured, used, or reconditioned equipment. It is the contractor's responsibility to ensure that each piece of equipment delivered to the state complies with this requirement. A contractor's failure to comply with this requirement will cause the state to seek remedies under Section II Item 47.0 **CONTRACTOR DEFAULT**
- 10.2 **SUITABLE MATERIALS, ETC.:** Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, and of the latest edition, version, model or crop and of recent manufacturer.
- 10.3 **Accessories:** When accessories are supplied, they must be certified to be compatible with the rest of the equipment. Certification will be written evidence satisfactory to the state that the accessories are compatible. The bidder's failure to supply this evidence within the time required by the state will cause the state to consider the bid non-responsive and reject the bid.

11.0 BRAND NAMES IN SPECIFICATIONS: Unless otherwise specified in the ITB, product brand names or model numbers specified in this ITB are examples of the type and qualities of product required, and are not statements of preference. If the specifications describing an item conflict with a brand name or model number which is describing the item, the specifications govern. Reference to brand name or number does not preclude an offer of a comparable or better product, if full specifications and descriptive literature are provided for the product. Failure to provide such specifications and descriptive literature may be cause for rejection of the offer.

- 11.1 **Brand Specific:** Certain items may be designated brand specific. When an item is so designated no substitutions for the brand and model specified will be allowed.

12.0 DISCONTINUED ITEMS: In the event an item is discontinued by the manufacturer during the life of the contract, another item may be substituted, provided that the procurement officer makes a written determination that it is equal to or better than the discontinued item and provided that it is sold at the same price or less than the discontinued item.

13.0 ITEM UPGRADES: The state reserves the right to accept upgrades to models on the basic contract when the upgrades improve the way the equipment operates or improve the accuracy of the equipment. Such upgraded items must be at the same price as the items in the basic contract.

14.0 WARRANTY:

- 14.1 **12 Month Standard Warranty Package:** Unless otherwise stipulated by this ITB, the successful bidder will provide a one-year (12-month) warranty.
- 14.1.1 Full (100%) Parts and Labor Warranty Coverage of all components for 12 months (year one), from the date the unit is placed in service at the assigned location.
 - 14.1.2 Full (100%) Warranty Coverage includes all cost of labor, parts, freight, lubricants, miscellaneous cost, etc., to place the unit in like-new condition.
 - 14.1.3 Should the manufacturer's standard warranty exceed the minimum State warranty requirements, the manufacturer's warranty will run in conjunction with and enhance the State's warranty, then continue for the remainder of its term.
 - 14.1.4 For clarification, warranty does not apply to normal wear and tear or maintenance items, accident damages, misuse of equipment or failure to operate or maintain equipment as prescribed by vendor/manufacturer.
 - 14.1.5 Warranty on Attachments: Same as Standard Warranty Package.
 - 14.1.6 In-Service Date: Warranty on vehicles not placed in service immediately upon receipt because of time lag to construct body components and/or installation of special equipment, or due to seasonal usage or other delay, shall be warranted from the date the vehicle is placed in service. The receiving agency shall notify the vendor/manufacture in writing of the actual "in service" date. Notification of the requirement for delayed warranty will be provided on delivery orders whenever possible.
- 14.2 **Warranty Claims:**
- 14.2.1 Warranty will be provided at the unit's assigned (in-service) location. Because of the remote location of some equipment it is not always practical to deliver equipment to authorized warranty repair facilities. In these cases, the vendor may perform warranty work at the state's location or, the State of Alaska, at its discretion, reserves the right to perform the warranty work and be reimbursed by the vendor. If travel is required by State personnel to perform the work, actual costs will be used for reimbursement.
 - 14.2.2 The State of Alaska has established a warranty procedure whereby the vendor is to be notified via letter, email, or fax, that warranty work needs to be performed. If time is of the essence, a telephone call confirmed by one of the above written procedures may be utilized.
 - 14.2.3 The vendor must notify the state within 24 hours of verbal or written notification that it will begin to perform the warranty work at the equipment location.
 - 14.2.4 The State may, at its discretion, proceed to make warranty repairs with its own work force in the case of emergency situation or to preclude excessive downtime (greater than 24 hours). The State will require a PO to perform the warranty work.
 - 14.2.5 Failure to notify the State that the vendor intends to begin to perform warranty is considered a contractual breach.
 - 14.2.6 The vendor will be invoiced for required warranty work performed by the state. Warranty work performed by the state will be charged at the current SEF shop labor rate at the time of the repair. Actual repair time will be used.
- 14.3 **Warranty Performed by Vendor:**
- 14.3.1 The State will reimburse travel costs not reimbursed by the manufacturer for travel **more than 50 miles** from the bidder's closest warranty service center within the State of Alaska to the location of the equipment under warranty. Vendors travel costs will be billed to the State Equipment Fleet as follows:
 - 14.3.1.1 Mileage Charge: Mileage claimed by vendor will only be reimbursed for travel by ground vehicle within Alaska at the rate allowable by the IRS. Google maps or similar program will be used in calculating driven mileage from vendor's location to the equipment's assigned service location.

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- 14.3.1.2 Meals are paid at actual and charges must be accompanied by receipts and are not to exceed the State authorized **\$60.00 per day**.
- 14.3.1.3 Transportation, such as airfare, shall be reimbursed at actual and all charges are to be accompanied by a receipt/copy of the coach ticket.
- 14.3.1.4 Lodging shall be reimbursed at actual and shall **not exceed \$150.00** per night unless no other lodging is available. Requests for reimbursement must be accompanied by a receipt. When public lodging is not available, the state will make available the lodging that is utilized by state employees in travel status and no reimbursement will be paid.
- 14.3.1.5 If more than one trip is required to perform warranty work, contractor **MUST** get pre-approval from the procurement officer **PRIOR** to travel in order for the request to be considered.
- 14.3.2 Travel will only be reimbursed for time in Alaska.
- 14.3.3 After hours, weekend and holiday travel must be approved by the procurement officer to be considered for reimbursement. The State will not pay for time due to weather delays.
- 14.3.4 The state will not pay for travel for items delivered with defects or deficiencies.
- 14.4 **Authorized Warranty Locations (Contractor/Bidder):**
 - 14.4.1 Contractor (bidder) must be an Authorized Warranty Dealer with location or locations (as specified in Section I Item 6.0) that has all required licenses, facilities and factory certified and trained personnel necessary to perform the warranty servicing and repair work on the item or equipment being bid.
 - 14.4.2 The ultimate responsibility for any and all warranty lies with the contractor (bidder).
 - 14.4.3 The State reserves the right to inspect the certification credentials of technicians, warranty facility and diagnostic equipment prior to issuing the Notice of Intent to Award a contract.
- 14.5 **Service Technicians Qualifications:**
 - 14.5.1 Bidders must provide evidence that the person or persons performing the service work is a manufacturer's authorized service technician; or, the bidder may provide evidence that they have contracted with a manufacturer's authorized service technician to perform the service work.
 - 14.5.2 Acceptable evidence of the service technician's competence may take the form of a letter or certificate, signed by an authorized officer of the manufacturer, that the service technician has been trained and authorized by the manufacturer to provide manufacturer's authorized warranty service.
 - 14.5.3 The bidder's failure to provide the evidence mentioned above, within the time required by the state, may cause the state to consider the bid non-responsive and reject the bid.
- 15.0 **COMPLETION OF WARRANTY SERVICE:** The service will not be complete and the equipment will not be considered serviced, repaired, or acceptable until it performs in compliance with the manufacturer's published performance specifications.
- 16.0 **SERVICE CHARGES:** Regardless whether the contractor repairs equipment on-site or off-site, the state will not be liable for any charges associated with the repair of broken equipment, including, but not limited to, unhooking, disassembly, packaging, crating, repair, transportation, replacement, reassembly, or rewiring. This applies to State owned equipment as well as contractor equipment.
- 17.0 **WORKMANSHIP & MATERIALS:** All design, fabrication, or warranty work must be performed in a thorough and workmanlike manner and in accordance with current industry practices. The contractor will be held responsible for the quality of the finished item. The state will reject any item that does not meet the specifications of the ITB. Rejected items will be returned to the contractor at the contractor's risk and expense.
- 18.0 **REPAIR ORDERS AND DOCUMENTATION:**

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- 18.1 Any work performed by the contractor or approved subcontractor, whether warranty or any other work on a piece of equipment purchased under this ITB, will require a copy of the repair order, any invoices showing parts and commodities including oils and types used.

19.0 FACTORY/MANUFACTURERS RECALLS and SERVICE BULLETINS:

19.1 Recalls:

- 19.1.1 Nationwide factory recall or product update programs are the responsibility of the vendor and/or manufacturer. The State will attempt to bring affected equipment to an authorized repair facility. However, because of the remoteness of some equipment this is not always practicable or economical. In such cases, factory recall and modification work will be handled the same as warranty work. Factory recall notices sent to the state should, in addition to serial number, include model, year, and dealer.

19.2 Service Bulletins, Etc.:

- 19.2.1 The successful bidder must provide appropriate service bulletins, technical support bulletins, service letters, product support bulletins, and/or any other information type notifications that are sent out to the vendor or used by the manufacturer in the maintenance and report of the vehicle, equipment or attachments being provided. The intent of this clause is that the State of Alaska be provided notification of any and all changes or improvement's that may affect the maintenance, reliability, longevity, and safety of our equipment.

20.0 REPLACEMENT PARTS AND REPAIRS:

- 20.1 This contract encompasses a full parts and labor contract for manufacturer parts and repairs for the entire warranty period.
- 20.2 Only parts designed for the purpose they are being used, and warranted as new, may be used in the repair of state equipment.
- 20.3 The State of Alaska shall expect the dealer or manufacturer to provide replacement wear parts at their authorized warranty facilities for the entire warranty period within seven (7) days of order. All other parts must be available within ten (10) working days.
- 20.4 Back order procedures: Back orders are acceptable; however, the ordering shop shall be appraised at time of original orders as to the expected delay in delivery.
- 20.5 Warranty: All products supplied by the contractor shall be warranted against defects in materials and workmanship for a minimum of 90 days, commencing at the time of installation as long as the installation is within 12 months of purchase. The cost of any defective product and the labor required to replace the defective product shall be the obligation of the contractor.
- 20.5.1 If the manufacturer's warranty exceeds the stated warranty then manufacturer's warranty supersedes.
- 20.5.2 Parts Return: Within 12 months of the invoice date, the State is to be allowed to return new parts with full refund, less actual shipping charges. **Cores returned within 12 months of original invoice date will receive full core credit.** Returned parts will be in new, re-sellable condition. Refund will be in the form of a credit/invoice credited to the SOA account with the vendor.
- 20.5.3 Invoicing: Full description of item is required on all invoices, packing lists and billings.

21.0 PUBLICATIONS:

- 21.1 Publications will be ordered on a separate purchase order, or combined with the diagnostic/software purchase order and shall be billed on a separate invoice from the vendor.
- 21.2 Paper publications and or electronic versions as ordered are to be shipped with delivery receipt signature request or hand delivered with signed delivery receipt to the attention of the State Equipment Fleet District Manager at the address designated on the purchase order.
- 21.2.1 All ordered publications must be received within 30 days of the equipment delivery to the final destination.
- 21.2.2 All paper manuals are to be pre-assembled in factory binders prior to delivery.

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21.2.3 Electronic publications in the format of CD, DVD, Thumb Drive or on-line accessibility to publications may be requested.

21.2.4 Any subscription fees and pricing for publications must be clearly stated on the Price Schedule submitted with your bid.

21.3 Service Manuals:

21.3.1 Complete set(s) to include applicable information covering prime unit and attachments:

21.3.2 Body, chassis, and electrical

21.3.3 Engine, transmission, and differential(s) (service and rebuild)

21.3.4 Electrical and vacuum troubleshooting

21.3.5 Wiring diagrams

21.3.6 Service specifications

21.3.7 Engine/emission diagnosis

21.4 Parts Manuals:

21.4.1 Complete set(s) including all updates. If updates are not provided during the warranty period, the State may order them from the manufacturer and bill the contractor for the full cost, including shipping.

21.4.2 Parts manuals are to be customized by serial number.

21.5 **Operator's Manuals:** Complete set(s) to include prime unit and attachments.

21.6 **Quantities:** As per Section IV – Bid Price Schedule.

22.0 EQUIPMENT TRAINING:

22.1 Training when requested in the specifications on new or used equipment purchased under this ITB contract will be ordered on a separate purchase order.

22.2 Training is required to be billed on a separate invoice.

22.3 All training ordered under this contract will be coordinated, scheduled, and approved for payment after completion by the State Equipment Fleet District Manager designated on the issued purchase order.

23.0 PRE-BUILD POST AWARD MEETING (FOR THIS ITB): A post contract award pre-build meeting or teleconference will be required for equipment ordered under this contract.

24.0 INSPECTION TRIP (FOR THIS ITB):

24.1 Prior to arrival of the State of Alaska inspectors, the completed unit is to have been inspected and tested by the manufacturer for compliance to the specifications as listed above. The State reserves the right to appoint an independent inspector, at the State's expense, to periodically monitor the progression of the vehicle during the manufacturing process.

24.2 Prior to shipment from the manufacturer's plant, representatives of the State will inspect the completed equipment for conformance to specifications.

24.3 The Contractor shall provide full access to the State's inspector(s), or their designee(s), to the plant (s) including the plant(s) subcontractors where manufacturer is taking place.

24.4 Inspection Trip:

24.4.1 The vendor will alert the State of Alaska procurement officer, whose name is on the purchase order, at least 30 days prior to having the completed unit ready for inspection

24.4.2 The State of Alaska will arrange and pay for all travel related cost for State employees only.

24.5 It shall be the responsibility of the State inspector(s) to technically inspect and test the vehicle for compliance with the specifications.

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- 24.6 It shall be the responsibility of the Contracting Authority representative to observe and assist in the inspection and test to assure compliance with the published terms, conditions, and specifications of the bid, and to mediate any disputes, which may arise between the manufacturer and the Department of Transportation's representative(s).
- 24.7 If it becomes necessary, the State or its representative would conduct a re-inspection of any subsequent work performed by the successful bidder. Should the State decide a re-inspection(s) of the unit is required; the vendor shall be required to pay for round trip air fare, ground transportation and per diem at \$175.00 per day for up to two (2) persons from Anchorage, Alaska. The state will pay for the inspection and will submit an invoice for reimbursement from the vendor.
- 24.8 The pilot model inspection may result in minor modifications which would require negotiation with the procurement officer. A change order to the contract must be issued prior to any modifications being accomplished.
- 24.9 **FINAL ACCEPTANCE REMINDER:** Final acceptance is at final destination; however, all major tests will be conducted at the manufacturer's place of business unless the State has reason to believe alterations or damages have taken place which may have changed the performance or design characteristics of the unit since the time of inspection at the manufacturer's location.
- 24.9.1 A final inspection of the unit will be conducted at the final destination in Alaska, to assure that the unit still meets specifications.
- 24.10 These inspections by the State shall be thorough and very critical, and will encompass a complete review of the specifications. Adequate time and technical personnel shall be made available to assist the State in these inspections.
- 24.11 The bidder or responsible representative shall also be in attendance.

25.0 DELIVERY:

- 25.1 **Pre-delivery service:** Prior to delivery, each vehicle, piece of equipment or attachment shall be serviced and inspected by the dealer or his agent. Inspection must include the following (as applicable to the type of equipment):
- 25.1.1 Dealer and vehicle identification.
- 25.1.2 Check-off of service and inspection performed including a list of all fluids including type weight and specification that are in the equipment as delivered for all fluid compartments.
- 25.1.3 The vehicle's crankcase, differential and transmission, and other fluid compartments shall be filled to the manufacturer's recommended capacity.
- 25.1.4 Fuel tank shall be filled to at least register a minimum ¼ full on the fuel gauge, unless restricted by the commercial carrier, when the vehicle arrives at the delivery location.
- 25.1.5 The vehicle shall be clean and free from defects when delivered and should be ready for immediate and continued use upon delivery.
- 25.1.6 Units delivered in an incomplete state, or which have deficiencies per the specification, are subject to the damage charges as noted in Section I Item 32.2.
- 25.2 **Advance Notice of Delivery:**
- 25.2.1 The contractor must notify the freight company that delivers the order that the state facility receiving the order requires 24 hours advance notice of delivery. Deliveries will be accepted Monday through Friday between the hours of 8:00 AM to 4:00 PM.
- 25.3 **Delivery Receipt:**
- 25.3.1 A State provided delivery receipt will be required to be provided at time of delivery with every item delivered under this contract. The delivery receipt must be filled out by the vendor, and acknowledged by state receiving personnel by signature and date of actual receipt of equipment. One copy of this delivery receipt is to be given to the state-receiving agency.

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- 25.3.2 If a third party carrier is delivering on behalf of the contractor, the carriers shipping documents must include at a minimum a copy of the delivery receipt with the State of Alaska's purchase order number referenced.
- 25.3.3 Vendors are cautioned and advised that such delivery forms or other receiving type documents will not in any way be construed to mean the state has formally and fully accepted unit(s) referenced thereon as complete and meeting every specification set forth. Only the procurement officer or designee may sign warranty documentation.
- 25.3.4 (*) The Equipment delivery check list and delivery receipt form below shall be utilized and completed by the contractor and delivered with the equipment.



Equipment Delivery
Receipt.docx

25.4 Inspections Upon Delivery:

- 25.4.1 The State's initial delivery inspection of all materials and equipment upon delivery is for the sole purpose of identification. Such inspection shall not be construed as final or as acceptance of the materials or equipment if materials or equipment do not conform to Contract requirements. If there is any apparent shipping damage or manufacturers defect in the materials or equipment at the time of delivery, the State will notate the shipper's documents of damages when possible, and promptly notify the Contractor of damages or defects thereof. Without limiting any other rights of the State, The State at its option, may require the Contractor to:
- 25.4.1.1 repair or replace at contractor's expense, any or all of the damaged goods,
 - 25.4.1.2 refund the price of any or all of the damaged goods, or
 - 25.4.1.3 accept the return of any or all of the damaged goods.
- 25.4.2 Costs to the State of Alaska of remedying all defects, indirect and consequential costs of correcting same, and/or removing or replacing any or all of the defective materials or equipment will be charged against the bidder.

25.5 Shipping Damage:

- 25.5.1 The state will not accept or pay for damaged goods.
- 25.5.2 The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination.
- 25.5.3 The state will provide the contractor with written notice when damaged goods are received.
- 25.5.4 The state will deduct the cost of the damaged goods from the invoice prior to payment if damage is repaired by the State.
- 25.5.5 The contractor must file all claims against the carrier(s) for reimbursement of the loss.

25.6 Inspection for Final Acceptance:

- 25.6.1 It is the vendors' responsibility to ensure that items ordered under this contract will comply with all specification and contract requirements, and the item is ready to be put into immediate service prior to delivery to the final destination.
- 25.6.2 After the initial delivery inspection, within 10 business days State personnel will do a detailed and thorough inspection of the equipment to verify it meets the contract specification requirements.
- 25.6.3 If deficiencies are found during the check-in and review of the contract specification compliance process, the vendor will be notified in writing of any deficiencies that need corrected.
- 25.6.4 Units will not be considered "Accepted" or payment authorized until all deficiencies have been corrected.

26.0 INSPECTION OF LEASED OR USED EQUIPMENT: Lease return, remanufactured or used equipment will not be

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accepted for this ITB, Items offered must be new.

27.0 DAMAGES FOR LATE DELIVERY AND NON-CONFORMING GOODS:

- 27.1 Time is of the essence in this contract. The Bidder is expected to deliver goods that conform in all material respects to the contract specifications on or before the date provided therein, as may be amended by written agreement of the parties.
- 27.2 In the event that the equipment is delivered late or does not conform to the contract specifications, the State shall be entitled to offset against the Contract Price, as liquidated damages and not as a penalty, an amount equal to the cost of renting like equipment, multiplied by the number of calendar days elapsing between the delivery date provided in the bid schedule and the delivery date to the State. In the case of equipment in this this class, that daily rental fee is determined to be **\$884.00**. The number of days for which liquidated damages shall apply shall include, in the case of non-conforming goods, the time reasonably necessary for the State to perform inspection.
- 27.3 As an option at the States discretion in lieu of charging monetary liquidated damages, the State may request the contractor to provide a comparable model equipment as a loaner unit at no cost to the State until the ordered equipment arrives and is accepted by the State. The vendor would be responsible for all transportation costs and fees to deliver and pick up the unit at its service destination.
- 27.4 These liquidated damages represent a reasonable estimate of amounts necessary to compensate the State for loss of use of the goods during the period in which the goods would have been available to the State if conforming goods had been timely delivered.

28.0 EQUIPMENT RELIABILITY POLICY:

- 28.1 Reliability of equipment is of paramount importance to the State. It is the policy of SEF to require minimum levels of reliability from owned or leased equipment for it to be considered acceptable. Equipment offered for this bid must be capable of meeting the acceptable reliability standard stated in the attached document (*SEF Equipment Reliability Policy*) below.



SEF EQUIPMENT
RELIABILITY POLICY.doc

29.0 STATEMENT OF ORIGIN/TITLE:

- 29.1 The bidder will be required to furnish a Manufacturer's Statement of Origin for Automotive or Non-Automotive rolling stock for each unit. All such documents shall be delivered with the invoice to:
- DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue Room #318
Anchorage, Alaska 99508
- 29.2 Ownership of and title will remain with the contractor until delivery is complete to final destination and accepted by the State.

30.0 WEIGHT VERIFICATION SLIPS: A Weight scale ticket of the completed unit must be included and delivered with the invoice and Manufactures Statement of Origin.

31.0 F.O.B. POINT/SHIPPING CHARGES:

- 31.1 For bid pricing purposes of this ITB, the F.O.B. point is Final Destination as listed on on Bid Price Schedule and is to be included in the bid price.
- 31.1.1 Equipment is not to be driven on the Alcan Highway without prior written approval from the procurement officer.
- 31.2 Shipping must be consolidated for the best possible price.
- 31.2.1 Shipping items separately must be pre-approved by the procurement officer *PRIOR* to shipment. For example, GP Bucket or Spare Tire not being shipped with host unit must be pre-approved.
- 31.2.2 All shipping charges over \$100 must be documented by a copy of the actual shipping invoice and

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received with the invoice charge to the State.

- 31.3 The actual F.O.B. point for all items purchased under this contract is the final destination as listed on the purchase order issued. Ownership of and title to the ordered items remains with the contractor until the items have been delivered to their final destination and accepted by the State.

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- 1.0 AUTHORITY:** This ITB is written in accordance with Alaska Statutes [AS 36.30](#) and [2 AAC 12](#).
- 2.0 ESTIMATED QUANTITIES:** The quantities referenced in this ITB are the state's estimated requirements and may vary more or less from the quantities actually purchased. The state does not guarantee any minimum purchase. Orders will be issued throughout the contract period on an as-needed basis.
- 3.0 PRICES:** The bidder shall state prices in the units of issue on this ITB. Prices quoted for commodities must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the FOB point so that upon transfer of title the commodity can be utilized without further cost. Prices quoted for services must be quoted in U.S. funds and include applicable federal duty, brokerage fee, packaging, and transportation cost so that the services can be provided without further cost. Prices quoted in bids must be exclusive of federal, state, and local taxes. If the bidder believes that certain taxes are payable by the State, the bidder may list such taxes separately, directly below the bid price for the affected item.
- 4.0 FEDERAL EXCISE TAX:** The State of Alaska is exempt from Federal Excise Tax except for the following:
- Coal - Internal Revenue Code of 1986 (IRC), Section 4121 - on the purchase of coal;
 - "Gas Guzzler" - IRC, Section 4064 - on the purchase of low m.p.g. automobiles, except that police and other emergency type vehicles are not subject to the tax;
 - Air Cargo - IRC, Section 4271 - on the purchase of property transportation services by air;
 - Air Passenger - IRC, Section 4261 - on the purchase of passenger transportation services by air carriers.
 - Leaking Underground Storage Tank Trust Fund Tax (LUST) - IRC, Section 4081 - on the purchase of Aviation gasoline, Diesel Fuel, Gasoline, and Kerosene.
- 4.1 The State of Alaska is also exempt from State Motor Fuel Taxes. The appropriate exemption forms will accompany a contract(s) resulting from this ITB. The state is not exempt from the Federal Superfund Tax.
- 5.0 DELIVERY CONFIRMATION:** Bidders must obtain a confirmation from the manufacturer that the items offered are scheduled for production in sufficient time to meet the scheduled delivery dates. A copy of the manufacturer's confirmation may be included with the bid or submitted within 10 days of the state's request. The bidder's failure to provide the manufacturers confirmation as required will cause the state to consider the bid non-responsive and reject the bid.
- 6.0 SUBCONTRACTOR(S):** Within five (5) working days of notice from the state, the apparent low bidder must submit a list of the subcontractors that will be used in the performance of the contract. The list must include the name of each subcontractor and the location of the place of business for each subcontractor and evidence of each subcontractor's valid Alaska business license.
- 7.0 ASSIGNMENT(S):** Assignment of rights, duties, or payments under a contract resulting from this ITB is not permitted unless authorized in writing by the procurement officer of the contracting agency. Bids that are conditioned upon the State's approval of an assignment will be rejected as nonresponsive.

MANDATORY CONTRACT TERMS:

- 8.0 COMPLIANCE WITH ADA:** By signature of their bid the bidder certifies that they comply with the [Americans with Disabilities Act of 1990](#) and the regulations issued thereunder by the federal government.

Services or activities furnished to the general public on behalf of the state must be fully accessible. This is intended to ensure that agencies are in accordance with [28 CFR Part 35 Section 35.130](#) and that services, programs or activities furnished to the public through a contract do not subject qualified individuals with a disability to discrimination based on the disability.

- 9.0 NONDISCLOSURE AND CONFIDENTIALITY:** Contractor agrees that all confidential information shall be used only for purposes of providing the deliverables and performing the services specified herein and shall not disseminate or allow dissemination of confidential information except as provided for in this section. The contractor shall hold as confidential and will use reasonable care (including both facility physical security and electronic security) to prevent unauthorized access by, storage, disclosure, publication, dissemination to and/or use by third parties of, the confidential information. "Reasonable care" means compliance by the contractor with all applicable federal and state law, including the [Social Security Act](#) and [HIPAA](#). The contractor must promptly notify the state in writing if it becomes aware of any storage, disclosure, loss, unauthorized access to or use of the confidential information.

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Confidential information, as used herein, means any data, files, software, information or materials (whether prepared by the state or its agents or advisors) in oral, electronic, tangible or intangible form and however stored, compiled or memorialized that is classified confidential as defined by State of Alaska classification and categorization guidelines (i) provided by the state to the contractor or a contractor agent or otherwise made available to the contractor or a contractor agent in connection with this contract, or (ii) acquired, obtained or learned by the contractor or a contractor agent in the performance of this contract. Examples of confidential information include, but are not limited to: technology infrastructure, architecture, financial data, trade secrets, equipment specifications, user lists, passwords, research data, and technology data (infrastructure, architecture, operating systems, security tools, IP addresses, etc).

If confidential information is requested to be disclosed by the contractor pursuant to a request received by a third party and such disclosure of the confidential information is required under applicable state or federal law, regulation, governmental or regulatory authority, the contractor may disclose the confidential information after providing the state with written notice of the requested disclosure (to the extent such notice to the state is permitted by applicable law) and giving the state opportunity to review the request. If the contractor receives no objection from the state, it may release the confidential information within 30 days. Notice of the requested disclosure of confidential information by the contractor must be provided to the state within a reasonable time after the contractor's receipt of notice of the requested disclosure and, upon request of the state, shall seek to obtain legal protection from the release of the confidential information.

The following information shall not be considered confidential information: information previously known to be public information when received from the other party; information freely available to the general public; information which now is or hereafter becomes publicly known by other than a breach of confidentiality hereof; or information which is disclosed by a party pursuant to subpoena or other legal process and which as a result becomes lawfully obtainable by the general public.

- 10.0 CONTRACT PERFORMANCE LOCATION:** By signature on their bid, the bidder certifies that all services provided under this contract by the contractor and all subcontractors shall be performed in the United States.

If the bidder cannot certify that all work will be performed in the United States, the bidder must contact the procurement officer in writing to request a waiver at least 10 days prior to the deadline for receipt of bids.

The request must include a detailed description of the portion of work that will be performed outside the United States, where, by whom, and the reason the waiver is necessary.

Failure to comply with these requirements may cause the state to reject the bid as non-responsive, or cancel the contract.

- 11.0 HUMAN TRAFFICKING:** By signature on their bid, the bidder certifies that the bidder is not established and headquartered or incorporated and headquartered in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report.

The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: <http://www.state.gov/g/tip/>

Failure to comply with this requirement will cause the state to reject the bid as non-responsive, or cancel the contract.

- 12.0 CONSUMER ELECTRICAL PRODUCT:** [AS 45.45.910](#) requires that "...a person may not sell, offer to sell, or otherwise transfer in the course of the person's business a consumer electrical product that is manufactured after August 14, 1990, unless the product is clearly marked as being listed by an approved third party certification program." Electrical consumer products manufactured before August 14, 1990, must either be clearly marked as being third party certified or be marked with a warning label that complies with [AS 45.45.910](#) €. Even exempted electrical products must be marked with the warning label. By signature on this bid the bidder certifies that the product offered is in compliance with the law. A list of approved third party certifiers, warning labels and additional information is available from: [Department of Labor and Workforce Development, Labor Standards & Safety Division, Mechanical Inspection Section, P.O. Box 107020, Anchorage, Alaska 99510-7020, \(907\)269-4925.](#)

CONTRACT BILLING and PAYMENT INFORMATION:

- 13.0 CONTRACT FUNDING:** Bidders are advised that funds are available for the initial purchase and/or the first term of the contract. Payment and performance obligations for succeeding purchases and/or additional terms of the contract are subject to the availability and appropriation of funds.

- 14.0 BILLING INSTRUCTIONS:** Invoices must be billed to the ordering agency's address shown on the individual Purchase Order, Contract Award or Delivery Order, not to the Division of General Services. The ordering agency will make payment after it receives the merchandise or service and the invoice. Questions concerning payment must be addressed to the ordering agency.
- 15.0 PAYMENT FOR STATE PURCHASES:** Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a state agency, will be made within 30 days of the receipt of a proper billing or the delivery and acceptance of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement that establishes a lower interest rate or precludes the charging of interest.
- 16.0 VENDOR TAX ID NUMBER:** If goods or services procured through this ITB are of a type that is required to be included on a Miscellaneous Tax Statement, as described in the [Internal Revenue Code](#), a valid tax identification number must be provided to the State of Alaska before payment will be made.

CONTRACT ADMINISTRATION INFORMATION:

- 17.0 CONFLICT OF INTEREST:** An officer or employee of the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if (1) the officer or employee is an employee of the administrative unit that supervises the award of this contract; or (2) the officer or employee has the power to take or withhold official action so as to affect the award or execution of the contract.
- 18.0 INSURANCE:** Without limiting contractor's indemnification, it is agreed that contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the procurement officer prior to beginning work and must provide for a notice of cancellation, non-renewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under [AS 21](#).

Prior to the issuance of any contract under this ITB, Proof of insurance will be required for State Equipment Fleet Contract Records for the following:

Workers' Compensation Insurance: The contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by [AS 23.30.045](#), and; where applicable, any other statutory obligations including but not limited to [Federal U.S.L. & H.](#) And [Jones Act requirements](#). The policy must waive subrogation against the state.

Commercial General Liability Insurance: covering all business premises and operations used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Commercial Automobile Liability Insurance: covering all vehicles used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Failure to supply satisfactory proof of insurance within the time required will cause the state to declare the bidder non-responsible and to reject the bid.

19.0 THIRD-PARTY FINANCING AGREEMENTS NOT ALLOWED:

- 19.1 Regardless of the terms and conditions of any third-party financing agreement, the contractor agrees that none of its responsibilities under this contract are transferable and that the contractor alone will continue to be solely responsible until the expiration date of the contract. Such responsibilities include, but are not limited to, the provision of equipment, training, warranty service, maintenance, parts and the provision of consumable supplies. By signature on the face page of this ITB the bidder acknowledges this requirement and indicates unconditional acceptance of this continuing obligation clause.
- 19.2 Because of the additional administrative and accounting time required of state agencies when third party financing agreements are permitted, they will not be allowed under this contract.

- 20.0 ORDER DOCUMENTS:** Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The State is not bound by a vendor contract signed by a person who is not specifically authorized to sign

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for the State under this ITB. The State of Alaska Purchase Order, Contract Award and Delivery Order are the only order documents that may be used to place orders against the contract(s) resulting from this ITB.

- 21.0 ALTERATIONS:** The contractor must obtain the written approval from the procurement officer prior to making any alterations to the specifications contained in this ITB. The state will not pay for alterations that are not approved in advance and in writing by the procurement officer.
- 22.0 COMPLIANCE:** In the performance of a contract that results from this ITB, the contractor must comply with all applicable federal, state, and borough regulations, codes, and laws; be liable for all required insurance, licenses, permits and bonds; and pay all applicable federal, state, and borough taxes.
- 23.0 CONTINUING OBLIGATION OF CONTRACTOR:** Notwithstanding the expiration date of a contract resulting from this ITB, the contractor is obligated to fulfill its responsibilities until all warranty, guarantee, maintenance and parts availability requirements have completely expired.
- 24.0 CONTRACT EXTENSION:** Unless otherwise provided in this ITB, the State and the successful bidder/contractor agree: (1) that any holding over of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least thirty (30) days before the desired date of cancellation.
- 25.0 CONTRACT ADMINISTRATION:** The administration of this contract is the responsibility of the State of Alaska Department of Transportation State Equipment Fleet procurement officer.
- 26.0 DISPUTES:** If a contractor has a claim arising in connection with a contract resulting from this ITB that it cannot resolve with the State by mutual agreement, it shall pursue a claim, if at all, in accordance with the provisions of [AS 36.30.620 – 632](#).
- 27.0 SEVERABILITY:** If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and, the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.
- 28.0 GOVERNING LAW; FORUM SELECTION:** A contract resulting from this ITB is governed by the laws of the State of Alaska. To the extent not otherwise governed by Section II Item 22 of these Standard Terms and Conditions, any claim concerning the contract shall be brought only in the Superior Court of the State of Alaska and not elsewhere.
- 29.0 CONTRACT CANCELLATION:** The state reserves the right to cancel the contract at its convenience upon 30 calendar day's written notice to the contractor. The state is liable only for payment in accordance with the payment provisions of this contract for services or supplies provided before the effective date of termination.
- 30.0 CONTRACTOR DEFAULT:** In case of default by the contractor, for any reason whatsoever, the State of Alaska may cancel the remaining term of the contract, procure the goods or services from another source and hold the contractor responsible for any resulting excess cost and may seek other remedies under law or equity.
- 31.0 FORCE MAJEURE (Impossibility to perform):** The parties to a contract resulting from this ITB are not liable for the consequences of any failure to perform, or default in performing, any of its obligations under the contract, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the respective party. For the purposes of this ITB, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
- 32.0 INDEMNIFICATION:** The contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the contractor under this agreement. The contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the contractor and in approving or accepting the contractor's work.

SECTION III - SPECIFICATIONS

SPECIFICATION #217 6x4 Truck Cab & Chassis Minimum 68,000 GVWR

General Specification:

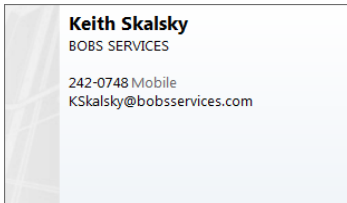
It is the purpose of this specification to describe a new, and of the manufacturer's latest current production model and design, diesel powered, 6x4, minimum 68,000 GVWR and 108,000 GCVWR, truck cab and chassis.

The unit provided is required to meet all current federal and state regulations such as, but not limited to, EPA emissions, FMVSS, FMCSA, and CFR.

Unit shall include all standard equipment and accessories as advertised in the manufacturer's specification sheet of model offered, unless otherwise specified herein.

The State's contracted up-fitter must certify in writing the compatibility of the chassis for up-fitting with the State's current up-fitter. Certification shall be included with the bid submittal.

POC for State contracted Up-Fitter:



Referenced Standards:

Certain ISO, SAE, FMVSS, FMCSA, and other consensus standards may be referenced in this specification. Unless otherwise specified, the latest version of each standard is to be understood. Such standards apply to this specification whether or not they are required by statutes or administrative law.

Component Selection:

The components selected shall be new and rated for the maximum loading they would be subjected to in severe service. The torque rating of a driven component shall exceed the input torque. The component parts and structure of the unit shall be sized and designed to safely withstand the maximum load imposed, without failure or induction of deterioration. All units shall be constructed from current production components.

Standard Components:

All components and accessories cataloged as standard, unless superseded by these specifications, shall be provided with the unit.

Necessary Components:

Contractors shall provide any components, hardware, or part necessary for proper assembly, installation, and operation even though that item(s) is not specifically described in the bid specifications. This includes all fittings, couplers, brackets, adapters, etc. Bidders shall include the cost of such components, hardware, and parts in the bid price.

Application:

The supplied chassis, up-fit with a FEPTO hydraulic system must be suitable for the intended application of highway snow removal, sanding, and hauling processed materials, rocks, debris, and earth. The unit shall also be capable of up-fit for pulling trailers, both pintle and fifth wheel type on and off highway at average working (plowing and sanding) speeds

of 35 to 40 MPH and traveling speeds to 70 MPH. Unit will experience high impact and shock loading and off highway conditions imposing more severe frame stresses without experiencing failure, deformation, or permanent sets in the truck frame or any components of the unit. The unit must have sufficient clearances and comply with minimum and maximum dimension and angle criteria as outlined later in this specification. Unit will be subject to varying terrain and weather conditions. These units are to operate between -50 to +100 °F.

Note: All weather lubricants are to be utilized to meet the above varying weather conditions.

1.0 POWER TRAIN:

1.1 Engine:

- 1.1.1 (*) Diesel, 4-cycle, wet sleeved, liquid cooled: Provided all of the following minimum specifications are met. **Detroit DD13**
- 1.1.2 Engine shall meet on-highway EPA emissions certifications for current model year.
- 1.1.3 (*) Displacement, minimum 12.4 liters. **12.8L**
- 1.1.4 (*) SAE gross horsepower, minimum 400. **410 HP**
- 1.1.5 (*) Governed speed, between 1950 and 2100 RPM. **2,080**
- 1.1.6 SAE peak torque, minimum of 1550 pound foot.
- 1.1.7 (*) Optional 450 SAE gross horsepower, 1650 lb. ft. torque, minimum
- 1.1.8 (*) Optional 470 SAE gross horsepower, 1650 lb. ft. torque, minimum
- 1.1.9 To be compatible with transmission supplied.
- 1.1.10 Composite or fiberglass fan. Automatic clutch is acceptable.
- 1.1.11 **Change to read:** Engine oil pan if metal shall include any OEM corrosion inhibiting treatments available. Provide product used Compression Brake:

1.2 Engine Compression Brake is required, controlled by a separate on/off switch and another three position (low, medium, high or 2, 4, 6, etc.) switch.

- 1.2.1 An exhaust type brake or retarder is not acceptable.

1.3 Air Intake System:

- 1.3.1 Air Cleaner: Dry element type, heavy-duty.
- 1.3.2 Equipped with manual or temperature regulated automatic two-way "Hot/Cold" air pickup, to draw air from outside or under hood (hose disconnect or plug insert is not acceptable).
- 1.3.3 A dash mounted analog, mechanical, or digital display air filter restriction indicator is required.

1.4 Exhaust System:

- 1.4.1 Exhaust must not interfere with belly blade operation.
- 1.4.2 Diesel after treatment system with heat shield mounted right side frame rail.
- 1.4.3 Mounted running up right-hand side of cab behind door. Stainless steel finish on the shield, stacks, and elbow.
- 1.4.4 Designed so vision is not impaired out of exterior rear view mirrors.
- 1.4.5 If flex pipe is utilized, to be stainless steel, not to exceed 20 inches in length.
- 1.4.6 Diesel exhaust fluid tank shall be a minimum of 6.0 gallons.
- 1.4.7 Exhaust after treatment system shall be certified by the OEM for operation at -50 °F.

1.5 Cooling System:

- 1.5.1 To include sight glass for easy viewing from ground with hood in up position (sight glass may be located on expansion tank).
- 1.5.2 Front of radiator to be properly guarded against rocks by including grill or grill screen cloth full length of the radiator.
- 1.5.3 Front Engine Crankshaft PTO (FEPTO) shall be installed by the truck manufacturer and shall accept SPICER Series 1350 universal joint.
- 1.5.4 Cooling system mounting and tank bottom configuration to be compatible and so designed as to not interfere with Front Engine PTO (FEPTO) and hydraulic pump installation.
- 1.5.5 Coolant to be permanent type antifreeze, affording protection to -60 °F. To be *DELO* extended life coolant (red), or compatible.
- 1.5.6 To include spin-on type coolant filter.
 - 1.5.6.1 Shut-off valves if required, to prevent excessive loss of coolant when servicing filter is required.
- 1.5.7 (*) Optional winter front: Heavy-duty canvas/vinyl construction, Snap fit type, with center zipper, installed. Snaps may be compression or turn type.
- 1.5.8 Drain cock(s) to be provided for the low point(s) of cooling system for maximum drainage while unit is on level ground. The Navistar fill and drain system with fill and drain tools included for each truck is acceptable.
- 1.5.9 Engine coolant hoses, including heater hoses, to be "ARCTIC" rated to -50 °F.
- 1.5.10 Clamps utilized on all pressurized coolant and heater hoses, one (1) inch inside diameter or larger are to be "Constant Torque" design, stainless steel. NOTE: Some engine manufacturers may not allow changing of all clamps due to warranty. An OEM's certification of warranty regarding these clamps will be required at time of inspection.

1.6 Fuel System:

- 1.6.1 Fuel filter(s):
 - 1.6.1.1 To be spin-on or drop-in cartridge type.
 - 1.6.1.2 To include a ¼-turn ball or check valve at the fuel filter(s) if necessary to prevent excessive fuel loss when servicing.
 - 1.6.1.3 To be easily accessible.
- 1.6.2 Fuel system to include 12-volt heated fuel and water separator easily accessed.

1.7 Oil Filtration:

- 1.7.1 To be spin-on or drop-in cartridge type.
- 1.7.2 To be easily accessible.

1.8 Starting Aids:

- 1.8.1 Automatic ether system or glow plugs or grid type heater.
 - 1.8.1.1 If automatic electronic ether injection system:
 - 1.8.1.1.1 To be wired through starter button.

- 1.8.1.1.2 To include an engine safety sensor switch.
 - 1.8.1.1.3 System to be installed in engine compartment and have maximum protection from the elements.
- 1.8.2 Engine Block Heater: Immersion type, highest wattage available, 110 volt AC (OEM if available). Cord to extend 6 inches beyond grille on the passenger side of the vehicle.
- 1.8.3 Engine Oil Pan Heater: Immersion type, KIM HOTSTART Model OL41515WT/ALS68-Y or PHILLIPS equivalent, 110 volt AC, 150 watt minimum.
- 1.8.4 (*) Optional Engine Oil Pan Heater:
 - 1.8.4.1 110 volt AC, 300 watt minimum.
- 1.8.5 (*) Optional Transmission Oil Pan Heater:
 - 1.8.5.1 Silicone pad type, 110 volt AC, 300 watt minimum.
- 1.8.6 (*) Optional Battery Trickle Charger: *Typically a Schauer Charge Master CM6A.*
 - 1.8.6.1 110 volt AC, wired into the truck battery charging system. Automatic multi stage smart battery charger. Selectable battery type: WET, GEL, AGM, Protected for: short circuit; reverse polarity; and overload. Internal thermal overload protection. Battery thermal run away protection.
 - 1.8.6.1.1 A preferred mounting location for the charger would be under the passenger seat or a protected area near the batteries.
- 1.8.7 (*) Optional Power Cords:
 - 1.8.7.1 110 volt AC power cords for **optional** engine and transmission heaters and trickle charger to be plugged into a single, waterproof, 110 volt junction box with two (2) Duplex 20 amp receptacles. The receptacle box is to include a heavy-duty, arctic rated flexible, 110 volt AC power cord with waterproof 20 amp NEMA 5 plug or equivalent, for use with 110 volt AC power source located at the right front plow hitch area for easy access by ground personnel. To include matching female connector, 20 amp (to be shipped loose).
 - 1.8.7.1.1 The box shall be mounted vertically in a protected area, preferably in the engine compartment.
 - 1.8.7.1.2 AC power cords shall be permanently labeled at or near the plug end of the cord as to function, ENG. HT., TRANS. HT., CHRG., ENG. PAN, etc.
 - 1.8.7.1.3 If all optional heaters and chargers are selected a second junction box and power cord as described above shall be required and the load (inputs) split between the two boxes.

2.0 DRIVE TRAIN:

- 2.1 Configuration: 6x4.
- 2.2 Transmission:
 - 2.2.1 *ALLISON TRANSMISSION* Model 4500 RDS, 6-speed electronic with latest generation controls.
 - 2.2.2 To be compatible with engine.
 - 2.2.3 To include package #223 with automatic neutral function on wire 117.

- 2.2.4 To include an *ALL/SON* EYE SCAN report.
 - 2.2.4.1 Copy of report to be included with bid.
- 2.2.5 To include oil level sensor option.
- 2.2.6 Engine brake preselect to 6th range.
- 2.2.7 To include a Fixed Shift Schedule in secondary mode for plowing.
 - 2.2.7.1 Secondary shift mode shall increase down shift pressure and up-shift RPM in gears 1-4 and limit upshifts to 4th gear to eliminate “searching” during plowing operations.
 - 2.2.7.2 To include a TCM (Transmission Control Module) located inside the cab in a protected location.
- 2.2.8 Transmission oil pan, if metal, and as much of the transmission case as possible without removal shall be primed with an epoxy type primer and sealed with Rhomar Industries “Armour-Seal.
- 2.3 Drive Lines:
 - 2.3.1 Drive line yokes to be ½-round on the drive and inter-axle shafts.
- 2.4 Rear Axles:
 - 2.4.1 Single reduction Heavy Duty Tandem Drive Axles 46,000 GAWR minimum.
 - 2.4.2 To include an inter-axle differential lockout with driver operated switch and dash mounted warning light.
 - 2.4.3 Rear most axle to include a Trac-Tech No-Spin Differential. (Not required if optional DCDL’s are selected)
 - 2.4.4 (*) Optional Lube pump on the forward axle, if available.
 - 2.4.5 (*) Optional both differentials shall have wheel to wheel locking with driver operated switch and dash mounted warning light.
 - 2.4.6 (*) Ratio providing cruising speed of approximately 65 MPH at engine manufacturers suggested best engine RPM. **4.56**
 - 2.4.7 Transmission range selection and gear spread shall maintain peak torque from engine, while plowing snow, at 35 to 40 MPH in 4th gear. (assuming 4th gear to be direct)

3.0 CHASSIS:

- 3.1 GVWR: 68,000 pounds minimum.
- 3.2 GCVWR: 108,000 pounds minimum.
- 3.3 (*) WB (Wheel Base) dimension to be Maximum 213 inches. **213**
- 3.4 (*) CA (Cab to Axle) dimension to be approximately 125 inches. **129.5**
- 3.5 Frame:
 - 3.5.1 A dual frame is required and must meet or exceed the following specifications:
 - 3.5.1.1 Yield Strength: 120,000 PSI, minimum.
 - 3.5.1.2 RBM: To be 3,580,800 inch pounds, minimum, entire frame.
 - 3.5.1.3 To be completely primed and painted to inhibit rust.
 - 3.5.2 Unit is to be equipped with a plow hitch and crankshaft mounted hydraulic pump by the up-fitter. A minimum 20” frame extension shall be OEM one piece, integral extended frame. Bolt on frame extensions are not acceptable.

- 3.5.3 Units may be equipped with a belly scraper and rear mount patrol wing or changed later in-house to include a wing and belly scraper. For this reason any and all extra or heavy duty cross members associated with wing post installation available from the Chassis OEM shall be considered standard equipment and included for these units.
- 3.5.4 Overhang/After Frame Dimension (center of rear tandem to end of frame) to be approximately 66 inches (plus or minus 1 inch).
- 3.6 Front Axle:
 - 3.6.1 Minimum 22,000 pound capacity with 50 degree turn angle FA (set forward axle). If standard axle is incapable of 50 degree turn angle a wide track axle capable of 50 degrees turn angle will be required. If 50 degree is not attainable with the wide track axle due to frame interference with tires list the maximum angle achievable in the space provided for both wide track and standard configurations with the specified tires.
 - 3.6.2 *Stemco* or similar oil seals are required in hubs.
 - 3.6.3 (*) BA (front bumper to front axle) Dimension: (This dimension is based on standard OEM bumper location and does not include any front frame extension length). **53 Inches**
- 3.7 Front Suspension:
 - 3.7.1 Capacity: Minimum 22,000 pounds continuous severe duty. Suspension to be all spring (tapered leaf). Timbren type enhancements (overloads) are not acceptable.
 - 3.7.1.1 To include HD shock absorbers.
- 3.8 Rear Suspension:
 - 3.8.1 Hendrickson Haulmaxx 46,000 pound capacity.
 - 3.8.1.1 54 inch axle spacing as standard.
- 3.9 Steering:
 - 3.9.1 Shall be *SHEPPARD* vocational series, dual assist, or State approved equivalent. To be rated at front axle's GAWR, minimum.
 - 3.9.2 (*) Turning Diameter curb to curb (outside front tire) both left and right. **96.9 Left / 76.2 Right**
- 3.10 Brakes:
 - 3.10.1 6S/6M ABS system required.
 - 3.10.2 A balanced system with type 24 front and 30/30 rear brake chambers is required with HALDEX Life Seal or MGM TR-TS sealed units.
 - 3.10.3 Braking distance shall conform to FMVSS 121.
 - 3.10.4 Full air system with low pressure audible and visual warning device located in cab.
 - 3.10.5 Front: Dana/Spicer ES-165-6, with outboard drums or State approved equivalent.
 - 3.10.6 Rear: Dana/Spicer ES-165-7, with outboard drums or State approved equivalent.
 - 3.10.7 Splash/dust shields, heavy-duty steel, on all axles.
 - 3.10.8 NOTE: These are the preferred parts and brake system for compatibility with the State's parts inventory. However, conformance and compliance with FMVSS 121 shall be the overriding factor for the braking system. If the States preferred system is unable to comply with FMVSS 121 other systems may be offered for the State's approval and override these brake specifications.

- 3.11 Slack Adjusters:
 - 3.11.1 To be automatic self-adjusting type.
 - 3.11.2 Handed arms may be required to prevent interference with tire chains.
 - 3.11.2.1 Two (2) inches clear at inner sidewall of rear tandems is required.
 - 3.11.3 Sealed against dirt and corrosive materials.
 - 3.11.4 Lube fitting for positive lubrication of all moving parts.
 - 3.11.5 Capability for in-field service.
- 3.12 Trailer Brakes:
 - 3.12.1 For the OEM chassis supplier the trailer brake lines will need to be plumbed to the rear of the unit with extra line coiled at end of frame with break-away type glad hands and chained dummy plugs temporarily attached to the rear of unit for installation by up-fitter in a fabricated but-plate
 - 3.12.2 Cab mounted hand control valve for the trailer brakes is required.
- 3.13 Air System:
 - 3.13.1 Air Compressor:
 - 3.13.1.1 15.9 CFM minimum.
 - 3.13.2 OEM chassis' air hoses to be rated for -40°F minimum.
 - 3.13.3 All added air hoses to be SAE 100R5 type "T" Arctic grade (-40 to +212 °F).
 - 3.13.4 Air Dryer: Air system to include a heated air dryer with automatic purge and replaceable desiccant filter easily accessed for maintenance and filter replacement.
- 3.14 Air Reservoir Tanks:
 - 3.14.1 Primary and secondary tanks to be heavy-duty steel construction.
 - 3.14.2 To be installed in protected locations.
 - 3.14.3 Primary air tank, fitted with a quick disconnect air supply fitting for filling with shop air with a ¼-turn ball valve mounted on the outside of the left-hand side frame rail. The ¼-turn ball valve is to be capped or plugged.
 - 3.14.4 All air tanks to be equipped with manual drain petcocks. Petcock(s) or drain actuators to be easily accessible from side of vehicle by ground personnel (a lanyard type cord may be necessary).
- 3.15 Wheels and Tires:
 - 3.15.1 All wheels and tires are to be rated for the axle maximum weight rating.
 - 3.15.2 Front Wheels: Hub piloted type, steel disc with at least two hand holes.
 - 3.15.3 Front Tires:
 - 3.15.3.1 (*) 425/65R22.5, LR L (20 ply rated) Michelin XZY 3, or Bridgestone M854, or Goodyear G296 MSA, or State approved equivalent steel belted radial tubeless tires.
Goodyear G296 MSA 425/65R22.5
 - 3.15.4 Rear Wheels: Hub piloted type, steel disc with at least 2 hand holes.
 - 3.15.5 (*) Rear Tires: 11R22.5, LRH (16PR) minimum, Michelin XDS 2, Michelin X works
 - 3.15.6 XDY, Goodyear G741 MSD, Goodyear G282MSD or Bridgestone L320 steel belted radial tubeless tires. **Goodyear G741 MSD 11R22.35 16 Ply**

- 3.15.7 One each spare front and rear wheel, with designated tire, mounted and balanced to be shipped loose.
- 3.15.8 **(OPTIONAL ITEM – Pricing is required. Refer to Section IV – Bid Price Schedule).** Front and rear tires including spares will require sipes.
 - 3.15.8.1 Sipes should be ¼ (0.25) inch apart and a minimum ¼ (0.25) inch in depth.
- 3.15.9 Duals to be spaced for use with triple rail chains and shall provide a minimum two (2) inch clearance between the inner sidewall of the dual tire and spring leaves, clamps, hanger or any other obstruction which might interfere with normal operation of tire chains.
- 3.15.10 Wheel-Guards are to be supplied between the front wheels and the hubs, between the rear wheels and the hubs, and between the inner and outer dual wheels.
- 3.16 Front Wheel Wells:
 - 3.16.1 Front wheel wells are to be kept clear of components, such as transmission coolers, loose wiring, etc.

4.0 ELECTRICAL SYSTEM:

- 4.1 12-volt negative ground.
- 4.2 Alternator: 12-volt, 160 amp minimum.
- 4.3 Batteries:
 - 4.3.1 Maximum three (3) each maintenance free 12-volt 31 series batteries.
 - 4.3.2 US DOT and IATA certified non-spillable.
 - 4.3.3 1000 CCA @ 0°F each.
 - 4.3.4 Battery box to protect batteries from build-up of snow, ice mud, etc.
 - 4.3.4.1 Battery box to be easily accessible utilizing rubber tie downs without tools.
 - 4.3.4.2 If possible, battery box location is to be located on outside left frame rail, just behind the cab, bolted to frame rail, not to interfere with dump box, or belly blade.
 - 4.3.4.3 Remote jumper terminals (studs) easily accessed, but guarded shall be required. Studs to be clearly labeled for polarity by sign and color.
- 4.4 Master Switch(s):
 - 4.4.1 A high-ampere switch shall cut power from electrical system.
 - 4.4.1.1 The switch shall be located in the cab, mounted to the floor, between the driver's door sill and the rear of the driver's seat.
 - 4.4.1.2 The switch shall be a rotary type switch, not a push/pull type.
 - 4.4.2 All standard electrical and lighting equipment to meet ICC Safety Standards.
 - 4.4.3 All electrical control switches to be direct current rated.
- 4.5 Wiring:
 - 4.5.1 Radio frequency, (RF) interference suppression shall be provided, for use with land mobile radio transceivers, which will be installed after vehicle delivery.
 - 4.5.1.1 These transceivers will operate in both VHF high band (150 to 174 MHz) or 800 MHz band (780 to 8200 MHz).
 - 4.5.1.2 Antennas will be mounted on the vehicle by the up fitter.

- 4.5.1.3 All vehicle electronic circuits including, but not limited to, ignition, AM/FM radio receivers, computers, emission controls, etc. shall be designed to suppress, bypass, or otherwise prevent interference from affecting the radio transceiver.
- 4.5.1.4 In addition, the vehicle's electronic equipment shall also be unaffected by RF energy generated and radiated by the (up to 125 watt output) transmitter portion of installed transceivers. When delivered by the vendor, the vehicle and all equipment and components mounted to the chassis shall comply with the above requirements.
- 4.5.2 All wiring to be color coded or numbered, and located for maximum protection from road splash, stone abrasion, grease, oil, fuel, and heat from engine and components.
- 4.5.3 Routing through structural members to be protected by grommets, and to be secured by clips at intervals to prevent rubbing or chafing due to movement.
- 4.5.4 All applicable junction boxes, light housings and trailer outlet connectors to be constructed of corrosion proof material.
- 4.5.5 All auxiliary wiring shall be continuous (any splices or connectors are to be weather proof) from the front of cab bulkhead connector to the body junction box behind the cab, then from the body junction box to the end of frame junction box, and from there to stop, turn, tail, and back-up lights and trailer wiring.
 - 4.5.5.1 The harness from the cab junction box to the rear lighting shall consist of a seven (7) conductor, SAE & ATA oil and water resistant, good to - 55 °F wire cable, color coded, with four (4) wires (Blk,Yel,Grn,Brn) of 12 gauge, two (2)(Red,Blu) of 10 gauge, and one (1) wire (Wht)of eight gauge for ground. ABS HD type cable.
- 4.5.6 All junction boxes and connections to be sealed and water tight.
- 4.6 Back-Up Alarm:
 - 4.6.1 OSHA approved electronic, self-adjusting sound level, located on the rear of the chassis, as per alarm manufacturer's instructions.
- 4.7 To include a road speed signal post in the cab (to allow connection for sand spreader controller).

5.0 LIGHTING:

- 5.1 Headlights:
 - 5.1.1 To be OEM's halogen or better.
- 5.2 Clearance lights shall be LED.
- 5.3 Rear Chassis Taillights: To be LED and be mounted directly outside the frame rails aft of the mud flaps.
- 5.4 Provision for mounting rear license plate shall be provided with appropriate light(s) to illuminate the license plate area.
- 5.5 Trailer Wiring and Locations:
 - 5.5.1 Electrical wiring to be SAE & ATA oil and water resistant, good to -55 °F extending (3) three feet beyond end of frame coiled and temporarily attached for up-fitter final fitting.
 - 5.5.2 Wires to be a continuous run from source block to plug.
 - 5.5.3 A solid pin socket (to include socket boot) with spring loaded bull nose cover is required.

- 5.5.4 To include seven (7) wires. Wired to Federal DOT standards HD ABS:
 - 5.5.4.1 Wire position #1, white, 8-gauge, for ground.
 - 5.5.4.2 Wire position #2, black, 12-gauge for clearance, side marker, and identification lamps.
 - 5.5.4.3 Wire position #3, yellow, 12-gauge, for left turn.
 - 5.5.4.4 Wire position #4, red, 10-gauge, for stop lights.
 - 5.5.4.5 Wire position #5, green, 12-gauge, for right turn.
 - 5.5.4.6 Wire position #6, brown, 12-gauge, for tail and license plate.
 - 5.5.4.7 Wire position #7, blue, 10-gauge, for ABS power.
 - 5.5.4.8 This plug location must be clearly marked “ABS” with a permanent engraved or welded label.
- 5.5.5 The lower left rear of cab area location is also to include seven (7) wires (for Chassis mount material spreader) set up as follows:
 - 5.5.5.1 A solid pin socket with boot as described above is to be used.
 - 5.5.5.2 Wire position #1, white, 8-gauge, for ground.
 - 5.5.5.3 Wire position #2, black, 12-gauge for clearance, side marker, and identification lamps.
 - 5.5.5.4 Wire position #3, yellow, 12-gauge, for left turn and stop.
 - 5.5.5.5 Wire position #4, red, 10-gauge, for auxiliary circuit.
 - 5.5.5.6 Wire position #5, green, 12-gauge, for right turn and stop.
 - 5.5.5.7 Wire position #6, brown, 12-gauge, for tail and license plate.
 - 5.5.5.8 Wire position #7, blue, 10-gauge, for sander work lights.
 - 5.5.5.9 This plug location must be clearly marked “SANDER” or “MATERIAL SPREADER” with a permanent engraved or welded label.
- 5.5.6 All lamp connections and all junction box post connections shall be treated with corrosion inhibiting dielectric grease.

6.0 CAB:

- 6.1 Conventional Cab design with maximum forward visibility.
- 6.2 To provide maximum room inside the cab for all sizes of operators and components.
- 6.3 The layout of all controls, gauges and instrumentation is to be ergonomically designed.
- 6.4 All pedals including clutch and brake to be firewall mounted. Floor mounted pedals shall require a Ten (10) year warranty on the pedal and the area of the floor around the pedal with full 100% replacement parts and labor from any corrosion or failure. To provide maximum room inside the engine compartment for ease of maintenance on the engine.
- 6.5 To be conventional severe service cab of welded or riveted type steel and/or aluminum construction (fiberglass construction of roof, hood and fenders is acceptable), and to include the following:
 - 6.5.1 (*) BBC (Bumper to Back of Cab) dimension, 112 inches minimum. This measurement is not to include any of the frame extension length. **137 Inches**
 - 6.5.2 Minimum shoulder width of 70.6 inches (measurement is from inside of door panel to opposite

- inside door panel at shoulder level.)
- 6.5.3 Maximum OEM insulation throughout to protect against cold and noise.
 - 6.5.3.1 Maximum allowable working noise level shall not exceed 80db(a) in the cab when measured in accordance with SAE J336.
- 6.6 Tilt Hood:
 - 6.6.1 BBC (Bumper to Back of Cab) dimension, 110 inches minimum. This measurement is not to include any of the frame extension length
 - 6.6.2 A free standing grille is required and hood must clear plow hitch without having to tilt plow hitch.
- 6.7 For ease of engine maintenance, if equipped with a cab interior mounted engine cover (dog house); cover must be easily removed from the cab without having to remove dash or seat(s).
- 6.8 Dual adjustable sun visors are required.
- 6.9 (OPTIONAL ITEM – Pricing is required. Refer to Section IV – Bid Price Schedule). An exterior front upper cab mounted fiberglass or Stainless Steel sun visor, painted flat black on underside only.
- 6.10 Glass:
 - 6.10.1 Safety glass throughout.
 - 6.10.2 Passenger door to include a “Visibility Window” or “Look down Mirror” to allow viewing of the area along the right-hand side of vehicle.
 - 6.10.3 To include rear window back of cab.
- 6.11 Windshield Wipers:
 - 6.11.1 Shall include heavy-duty, dual, electric powered, dual speed wipers with variable intermittent swipe and wash feature.
 - 6.11.2 To include largest OEM washer fluid capacity available.
- 6.12 (*) Optional Heated Wiper Blades: *EVERBLADES* with a steel frame heated and include a separate dash mounted and lit “ON” switch.
- 6.13 Visibility:
 - 6.13.1 (*) Optional Heated Windshield:
 - 6.13.1.1 Operator switched thermostatically controlled with “ON” indicator lamp.
- 6.14 Arctic package fresh air type hot water heater and defroster, to be OEM with minimum 30,000 BTU.
 - 6.14.1 Defroster Fans: To include two (2) each (one left and one right side), caged, two-speed defroster fans, located overhead. Switch(s) to be located for easy access by driver.
 - 6.14.2 (*) Optional Auxiliary heater:
 - 6.14.2.1 Minimum 16,000 BTU.
 - 6.14.2.2 To include easily accessed in-line shut off valves to prevent excessive loss of coolant when working on system.
 - 6.14.2.3 Heater shall be located back wall area of cab (between the seats), with air flow directed towards drivers foot pedals and air flow not obstructed by seat or control tower(s).
 - 6.14.2.4 Heater fan motor to be separately switched with 2-speed or variable speed control.
- 6.15 Air Conditioning:

SECTION III SPECIFICATIONS

- 6.15.1 To be OEM, minimum 17,000 BTU.
- 6.15.2 To be integrated into the OEM cab heater system to work in conjunction with the windshield defrosting system.
- 6.16 Rear View Mirrors (Exterior):
 - 6.16.1 Motorized and heated (both left and right sides):
 - 6.16.1.1 To be a minimum size of 90 square inches (Includes main and convex).
 - 6.16.1.2 Mirrors and brackets are to be stainless steel or anodized aluminum or powder coated steel (poly mirror housing is acceptable).
 - 6.16.1.3 Main mirrors are to be motorized for minimum left/right and up/down adjustment and heated.
 - 6.16.1.4 A convex mirror (built-in or separate), approximately eight (8) inches in diameter (semi-rectangular is acceptable) is to be included directly below the main mirror (mounting in the main mirror's housing or directly below the main mirror's housing).
 - 6.16.2 Additional front fender area mounted convex mirrors for viewing sides of truck (one each side), heated, to be approximately 7.5 x 7.5 inches.
 - 6.16.3 Mirror heat (both main and convex) to be thermostatically controlled or include a separate, easily accessed, switch with an "ON" indicator light.
 - 6.16.4 Controls for mirror movement to be easily accessed.
- 6.17 Dome Light: OEM, interior roof mounted.
- 6.18 Accessory socket for plugging in cell phone charger, etc.
- 6.19 Steering Wheel: To include tilt and telescopic feature with 18 inch wheel.
- 6.20 Seats to be cloth or vinyl with cloth insert in a darker color.
 - 6.20.1 Driver's seat: Seat to be National 2000 Premium series high back with 6 button controls, air ride seat, with armrest on driver's left hand side (if door panel arm rest not available), with three-point seat belt.
 - 6.20.2 To have (3) stage lumbar, upper cushion side bolster, and lower cushion side bolsters.
 - 6.20.3 Driver's seat to be mounted to provide maximum available space between steering wheel and seat when seat is in rearmost position. To have 8 inch minimum seat travel fore and aft.
 - 6.20.4 Companion/passenger seat, mid height or high back manufacturer's standard. Seat frame shall be enclosed on three or four sides. Three sided base shall have the side nearest the passenger door open. This area below the seat bottom cushion to be used for cab mounted electronics. A lift up bottom seat cushion hinged at the rear is required. A three point seat belt is acquired.
 - 6.20.5 Storage Pouch: For shipping documents, etc., location to be in compliance with Alaska Hazmat CDL requirements.
- 6.21 Grab Handles:
 - 6.21.1 Three points of contact shall be maintained at entry and egress locations, fueling and fluid check locations, and any areas that require the operator to be more than 18 inches above level ground. Steps, landings, and grab handles (for three point contact) on the truck cab and dump body are required for ease of filling tanks and maintenance checks.

- 6.21.2 To include exterior grab handles rear of cab door, approximately 24 inches in height, to assist in entry.
 - 6.21.2.1 Located on each side of the cab. Right side may use interior grab handle at B pillar if exhaust prohibits exterior mounting.
- 6.22 Entry Steps:
 - 6.22.1 Left and right side to include two (2) or three (3) entry steps. The lower step is to be as low as possible, but not to interfere with belly blade operation. (25 inches ground clearance)
- 6.23 Keyed door locks are required.
- 6.24 Air Horn: If exterior mounted, stainless, to be located on top of cab and include snow shields.

7.0 INSTRUMENTS, GAUGES AND WARNING DEVICES:

- 7.1 This unit shall also include:
 - 7.1.1 Hour Meter: LCD with no moving parts, running engine activated.
 - 7.1.2 Warning lights for low engine oil pressure and high engine coolant temperature.
 - 7.1.3 Voltmeter.
 - 7.1.4 Engine oil pressure gauge.
 - 7.1.5 Engine coolant temperature gauge.
 - 7.1.6 Air pressure gauge and low pressure audible alarm.
 - 7.1.7 Fuel gauge.
 - 7.1.8 Tachometer (non-tachograph type).
 - 7.1.9 Speedometer and odometer.
 - 7.1.10 Dash or steering wheel mounted speed control, electronic cruise control type (to allow for engine warm-up and PTO requirements, to minimum 1400 RPM).
 - 7.1.11 All other standard instruments and equipment normally provided.
 - 7.1.12 Any and all gauges that show pressures, temperatures, etc., are to be in U.S.A measurements such as PSI, Fahrenheit, etc.
 - 7.1.13 DYMO type tape labels are not acceptable, and stick-on type labels are not acceptable unless they are listed in the parts book with part numbers.
 - 7.1.14 The OEM chassis supplier shall be required to supply at least (8) eight up-fitter switches with function, amperage, and Identification (by back-lit international symbol or plain English) as designated by the up-fitter.
 - 7.1.15 Up-fitter switches shall be mounted in an easily viewed and accessed area by the operator in the cab.
 - 7.1.16 All switches, gauges and controls to be properly identified.
 - 7.1.16.1 All dials, gauges, switches, controls, and IDs to be properly back lit for day or night operation (a flexible cable night light is not acceptable).
 - 7.1.16.2 Back-lit switches shall display either international symbols or plain English text as to function.
 - 7.1.16.3 Back lighting of switches may change color to satisfy the requirement on some items for an indicated "ON" or "warning" light.

7.1.17 Radio: (OPTIONAL ITEM – Pricing is required. Refer to Section IV – Bid Price Schedule).
AM/FM/CD stereo Bluetooth capable radio and speakers with aux. (mp3) jack.

7.2 Fuel Tank:

7.2.1 Fuel tank shall be minimal for transport to up-fitter.

8.0 MISCELLANEOUS:

8.1 Lubricants: Unit's components will include lubricants matched for the weather temperatures for the area being delivered. For example, low temp grease should be installed in the slack adjusters.

8.1.1 If trucks are to be driven from the up-fitter to the port of Seattle for shipment by barge in higher temperature climates the lubricants may be changed by the dealer in Alaska to the climate appropriate lubricants.

8.2 All electric wiring, hoses, lines, cables, etc., shall be professionally routed and supported to reduce damage and insure ease of replacement.

8.3 Winterization: Entire unit shall be winterized to provide satisfactory performance in temperatures between - 50 to +100 °F.

8.4 Paint:

8.4.1 "CLOSED DOOR PAINT JOBS" ARE NOT ACCEPTABLE.

8.4.2 All painted surfaces to be primer coated with paint manufacturer's recommended primer for paint used.

8.4.3 To be OEM, White, polyurethane.

8.4.4 Manufacturer's approved primer, sealer and thinner required throughout.

8.4.5 Hood (top surface only) to be painted flat (non-reflective) black.

8.4.6 Exterior Visor: Only the underside of the optional visor is to be painted flat (non-reflective) black.

8.4.7 Wheel color to be black or white.

8.4.8 Remainder, including; frame, battery box, running gear, etc., to be painted standard chassis black.

8.4.9 NOTE: Do not paint any aluminum or stainless steel.

END OF #217-PLOW TRUCK SPECIFICATION (Drawing on next page)

SECTION IV
PRICE SCHEDULE

Item	Unit	Spec.	Description	Total Amount
1	Ea		Year / Make / Model Offered:	\$112,533.00
			2016 Freightliner SD114	
2	Ea	1.1.7	Optional 450 SAE gross HP	\$1,174.00
3	Ea	1.1.8	Optional 470 SAE gross HP	\$1,543.00
4	Ea	1.5.7	Winter Front	\$400.00
5	Ea	1.8.4	Engine Oil Pan Heater	\$117.00
6	Ea	1.8.5	Transmission Oil Pan Heater	\$1,050.00
7	Ea	1.8.6	Battery Trickle Charger	\$1,050.00
8	Ea	1.8.7	Optional Power Cords	\$100.00
9	Ea	2.4.1.1	Lube Pump of Forward Axle	\$300.00
10	Ea	1.4.5	Both Differentials to have wheel locking with driver operated switch and dash mounted warning lights	\$400.00
11	Ea	3.15.7	Tire Siping	\$400.00
12	Ea	6.10	Exterior Sun Visor	\$400.00
13	Ea	6.13	Heated Wiper Blades	\$650.00
14	Ea	6.14	Heated Windshield	\$738.00
15	Ea	6.15.2	Auxiliary Heater	\$1,400.00
16	Ea	7.1.17	Radio (MP3)	\$554.00
17	Ea		One (1) Set Paper Publications	\$500.00
18	Ea		One (1) Set Electronic Publications	No Charge

For pricing purposes, the F.O.B. point is Henderson Products Inc., 1085 South 3rd Street, Manchester, Iowa 52057.

Ownership of and title to the ordered items remains with the contractor until the items have been delivered at their final destination and are accepted by the State.

Required Delivery: Maximum **180 days** after receipt of order (ARO).