CONTRACT AWARD	STATE OF ALASKA HQ, STATE EQUIPMENT FLEET (Contracting Authority) 2200 E. 42nd Avenue Anchorage, Alaska 99508	CONTRACT AWARD NUMBER CA1835-14

ORDERING DEPARTMENT: HEADQUARTERS, STATE EQUIPMENT FLEET 2200 E. 42ND AVENUE ANCHORAGE, ALASKA 99508 (907) 269-0793 PHONE / (907) 269-0801 FAX	**DATE OF CONTRACT:** AUGUST 9, 2013 **DATE INITIAL CONTRACT BEGINS:** AUGUST 1, 2013 **DATE INTIAL CONTRACT ENDS:** JULY 31, 2014
CONTRACTOR: BOBS SERVICES INC. **ADDRESS:** 2009 SPAR AVENUE ANCHORAGE, AK. 99501 **CONTACT NAME:** KEITH SKALASKY **PHONE NUMBER:** 907-276-3221 **E-MAIL:** KSKALASKY@BOBSSERVICES.COM	**NUMBER & PERIOD OF RENEWALS:** (3) THREE - (1)ONE YEAR RENEWAL OPTIONS **RENEWALS EXPIRE (MO/YR):** JULY 31, 2013 **ISSUED IN ACCORDANCE WITH BID # SEF-** 1835 **DATED:** MAY 14, 2013 **ESTIMATED VALUE OF INITAL TERM:** $5,000,000.00

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.

DESCRIPTION

1 - YEAR CONTRACT WITH (3) OPTIONAL 1 YEAR RENEWALS

TO PROVIDE UP-FITTING OF DUMP BODIES AND ASSORTED SNOW REMOVAL EQUIPMENT ON STATE OF ALASKA PROVIDED CURRENT MODEL YEAR MACK GRANITE GU713 6X4 68,000 GVW CHASSIS

CONTRACTING OFFICER
DUANE FELTON
PHONE: (907) 269-0788
EMAIL: DUANE.FELTON@ALASKA.GOV

CONTRACT TABLE OF CONTENTS
PAGE ONE - PAGE TWO

CONTRACTING AUTHORITY NAME & TITLE	SIGNATURE
DUANE FELTON, CONTRACTING OFFICER II	
CONTRACTOR AUTHORITY NAME & TITLE	**SIGNATURE**

IMPORTANT 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.

TABLE OF CONTENTS

1. SECTION ONE INTRODUCTION AND INSTRUCTIONS 3

1.01 CONTRACTOR CONTACT INFORMATION, STATE OF ALASKA CONTRACTING OFFICER INFORMATION 3
1.02 CONTRACT ESTIMATED VALUE 3
1.03 LOCATION OF WORK PERFORMED 3
1.04 HUMAN TRAFFICKING 3
1.05 DISCLOSURE OF CONTRACT CONTENTS 3
1.06 SUBCONTRACTORS 4
1.07 CONTRACTOR'S CERTIFICATION 4
1.08 NEWS RELEASES 4
1.09 ASSIGNMENT 4
1.10 DISPUTES 4
1.11 SEVERABILITY 4

2. SECTION TWO STANDARD INFORMATION 5

2.01 AUTHORIZED SIGNATURE 5
2.02 SITE INSPECTION 5
2.03 AMENDMENTS TO CONTRACT 5
2.04 VENDOR TAX ID 5
2.05 ALASKA BUSINESS LICENSE AND OTHER REQUIRED LICENSES 5

3. SECTION THREE STANDARD CONTRACT INFORMATION 5

3.01 CONTRACT TYPE 5
3.02 STANDARD CONTRACT PROVISIONS 5
3.03 INSURANCE REQUIREMENTS 5
3.04 CONTRACT FUNDING 6
3.05 PAYMENT FOR ITEMS UNDER THIS CONTRACT 6
3.06 INSPECTION & MODIFICATION - REIMBURSEMENT FOR UNACCEPTABLE DELIVERABLES 6
3.07 TERMINATION FOR DEFAULT 6
3.08 LIQUIDATED DAMAGES 6
3.09 CONTRACT CHANGES - UNANTICIPATED AMENDMENTS 7
3.10 CONTRACT INVALIDATION 7
3.11 NONDISCLOSURE AND CONFIDENTIALITY 7

4. SECTION FOUR STATE EQUIPMENT FLEET SPECIAL TERMS AND CONDITIONS 8

4.01 DELIVERY OF COMPLETED UNIT: 8
4.02 INSPECTIONS AT FINAL DELIVERY LOCATION: 8
4.03 ACCEPTANCE OF UNIT AT FINAL DELIVERY LOCATION 8
4.04 DELIVERY RECEIPT: 8
4.05 LINE SHEET BILL OF MATERIALS: 9
4.06 FOB POINT: 9
4.07 PRICE: 9
4.08 PRICE DECREASE: 10
4.09 MANUFACTURER'S REBATE (INCENTIVES): 10
4.10 EQUIPMENT RELIABILITY: 10
4.11 EQUIPMENT FAILURE RESULTING IN DOWNTIME: 10
4.12 WARRANTY: 12
4.13 WARRANTY CLAIMS: 12
4.14 WARRANTY PERFORMED BY VENDOR: 13

4.15 AUTHORIZED WARRANTY LOCATION (CONTRACTOR): 13
4.16 FACTORY RECALL: 13
4.17 REPAIR ORDERS AND DOCUMENTATION: 13
4.18 PUBLICATIONS: 13
4.19 SERVICE MANUALS: 14
4.20 PARTS MANUALS: 14
4.21 OPERATORS MANUALS: 14
4.22 QUANTITIES: 14
4.23 SERVICE BULLETINS, ETC.: 14
4.24 STATEMENT OF ORIGIN: 14
4.25 WEIGHT VERIFICATION SLIP: 15
4.26 INSPECTION TRIP OF FIRST UNIT AT A MINIMUM: 15
4.27 INSPECTION TRIP: 15
4.28 REPLACEMENT PARTS AND REPAIRS: 16
4.29 REPLACEMENT PARTS WARRANTY: 16

5. SECTION FIVE SCOPE OF WORK AND DELIVERABLES 16

5.01 SCOPE OF WORK 16
5.02 DELIVERABLES 17
5.03 OPTIONAL HYDRAULICS PACKAGE FOR DUMP/PLOW TRUCKS 18
5.04 OPTIONAL RELOCATION OF 116 GALLON FUEL TANK (BEHIND CAB MOUNT) 20
5.05 OPTIONAL DUMP BODY 8 CUBIC YARD HENDERSON MARK E 12.5 WITH STANDARD VERTICAL TAILGATE 20
5.06 OPTIONAL SLOPED STYLE STANDARD TAILGATE IN LIEU OF STANDARD VERTICAL 21
5.07 OPTIONAL ASPHALT STYLE STANDARD TAILGATE IN LIEU OF STANDARD VERTICAL 22
5.08 OPTIONAL HYDRAULIC POWER TAILGATE IN LIEU OF STANDARD VERTICAL 22
5.09 OPTIONAL SLIDE IN 8 CUBIC YARD V-BOX SPREADER (FOR STANDARD DUMP BODY) 22
5.10 OPTIONAL ORDER SELF-LOADING/UNLOADING LEG KIT FOR 8 CUBIC YARD SLIDE IN SANDER 22
5.11 OPTIONAL REAR DEFLECTOR WING FOR 8 CUBIC YARD SLIDE IN SANDER 22
5.12 OPTIONAL ORDER PRE-WET SYSTEM FOR 8 CUBIC YARD SLIDE IN SANDER 23
5.13 OPTIONAL ORDER TOP GRATE SCREENS FOR 8 CUBIC YARD SLIDE IN SANDER 23
5.14 OPTIONAL MUNI-BODY/COMBINATION DUMP BOX/SANDER (IN LIEU OF STANDARD DUMP BODY) 23
5.15 OPTIONAL ORDER PRE-WET SYSTEM FOR MUNI-BODY 24
5.16 OPTIONAL ORDER TOP GRATE SCREENS FOR MUNI-BODY 25
5.17 OPTIONAL BUTT PLATE, PINTLE HITCH, AND CHIP SPREADER HITCH BAR 25
5.18 OPTIONAL TOW PLOW CONNECTION LINES 25
5.19 OPTIONAL UNDERBODY OSCILLATING 12' SCRAPER BLADE AND MOUNT 25
5.20 OPTIONAL UNDERBODY NON-OSCILLATING 12' SCRAPER BLADE AND MOUNT 26
5.21 OPTIONAL MID MOUNT RIGHT HAND MOUNT 9' PATROL WING 26
5.22 OPTIONAL REAR MOUNT RIGHT HAND MOUNT 9' PATROL WING 27
5.23 OPTIONAL REAR RIGHT HAND MOUNT 9' BENCHING WING 27
5.24 OPTIONAL FRONT PLOW HITCH SYSTEM 28
5.25 OPTIONAL ORDER MANUALLY EXTENDED ARM SYSTEM 28
5.26 OPTIONAL SNOW PLOW HEADLIGHT AND DRIVING LIGHTING KIT 28
5.27 OPTIONAL ONE-WAY, HI-SPEED PLOW WITH RIGID FIXED ANGLE, AIR FOIL AND RUBBER TIRED CASTERS 29
5.28 OPTIONAL REVERSIBLE HI-SPEED EXPRESSWAY PLOW WITH FLARED RIGHT HAND SIDE 29
5.29 OPTIONAL REVERSIBLE HI-SPEED EXPRESSWAY PLOW WITH RIGHT HAND AND LEFT HAND SIDE 30
5.30 OEM DASH MOUNTED UP-FITTER SWITCH CONFIGURATION 30

6. SECTION SIX ATTACHMENTS 30

6.01 ATTACHMENTS 31
Attachment 2 Standard Contract Form *32*
Attachment 3 Apendix A[1] *32*
Attachment 4Apendix B[1] *35*
Attachment 5 Contract Prices *35*

SECTION ONE
INTRODUCTION AND INSTRUCTIONS

1.01 Contractor Contact Information, State of Alaska Contracting Officer Information

Contractor:
Bob's Service's Inc.
2009 Spar Avenue
Anchorage, AK 99501
(907) 276-3221
Contact: Keith Skalsky
E-mail: *kskalsky@bobsservices.com*

Contract: CA1835-14 Snow Plow Truck Up-fitting Contract
Contracting Officer:
Duane Felton
2200 E. 42nd Avenue
Anchorage, Alaska 99508
(907)269-0788 – FAX (907) 269-0801 TDD (907) 269-0713
E-Mail: duane.felton@alaska.gov

1.02 Contract Estimated Value

AKDOT, State Equipment Fleet, estimates this contract to be valued between 4.5 million and 6 million dollars for the term of this contract including all renewal options.

1.03 Location of Work Performed

The work is to be performed, completed, and managed at the contractors and sub-contractors location only unless prior written approval is authorized by the Contracting Officer.

1.04 Human Trafficking

By signature on this contract, the contractor certifies that the contactor or its sub-contractor 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 proposal as non-responsive, or cancel the contract.

1.05 Disclosure of Contract Contents

Trade secrets and other proprietary data contained in proposals may be held confidential if the offeror requests, in writing, that the Contracting Officer does so, and if the Contracting Officer agrees, in writing, to do so. Material considered confidential by the offeror must be clearly identified and the offeror must include a brief statement that sets out the reasons for confidentiality.

1.06 Subcontractors

Subcontractors listed herein are authorized to perform work under this contract.

Henderson Products Inc.
1085 South 3rd Street PO Box 40 Manchester IA 52057

(a) type of work the subcontractor will be performing;
(*) Manufacture of truck equipment and installation of equipment, hydraulics on customer supplied chassis.

(b) percentage of work the subcontractor will be providing;
(*) 100% manufacture, 85% of installation

(c) evidence that the subcontractor holds a valid Alaska business license; and
(*) AK Business License on file

(d) a written statement, signed by each proposed subcontractor that clearly verifies that the subcontractor is committed to render the services required by the contract.
(*) Written statement on file

1.07 Contractor's Certification

By signature on this contract, the contractor certifies that they comply with the following:

(a) the laws of the State of Alaska;

(b) the applicable portion of the Federal Civil Rights Act of 1964;

(c) the Equal Employment Opportunity Act and the regulations issued thereunder by the federal government;

(d) the Americans with Disabilities Act of 1990 and the regulations issued thereunder by the federal government;

(e) all terms and conditions set out in this contract # CA1835-14;

If contractor fails to comply with [a] through [e] of this paragraph, the state reserves the right to terminate the contract, or consider the contractor in default.

1.08 News Releases

News releases related to this contract will not be made without prior approval of the Contracting Officer.

1.09 Assignment

Per 2 AAC 12.480, the contractor may not transfer or assign any portion of the contract without prior written approval from the Contracting Officer.

1.10 Disputes

Any dispute arising out of this contract will be resolved under the laws of the State of Alaska. Any appeal of an administrative order or any original action to enforce any provision of this agreement or to obtain relief from or remedy in connection with this agreement may be brought only in the Superior Court for the State of Alaska.

1.11 Severability

If any provision of the contract or agreement 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.

SECTION TWO
STANDARD INFORMATION

2.01 Authorized Signature
All contracts must be signed by an individual authorized to bind the contractor to the provisions of the contract.

2.02 Site Inspection
The state may conduct on-site visits to evaluate the contractor's or sub-contractor's capacity to perform the contract. The contractor or sub-contractors shall provide the state reasonable access to relevant portions of its work sites. Individuals designated by the contracting officer at the state's expense will make site inspection.

2.03 Amendments to Contract
Amendments to this contract may be allowed if acceptable requests are received and authorized in writing by both contractor and the contracting officer.

2.04 Vendor Tax ID
A valid Vendor Tax ID must be submitted to the contracting officer within five days of the state's request. And will become part of this contracts file.

2.05 Alaska Business License and Other Required Licenses
At the time of contract start date, contractor and sub-contractor has supplied copies of their Alaska business license and part of the contract file.

SECTION THREE
STANDARD CONTRACT INFORMATION

3.01 Contract Type
This contract is a Firm Fixed Price (1) one year, with (3) three, (1) one year optional renewals. The contract will provide provisions for annual contract price adjustments. (Refer to section 4.07)

3.02 Standard Contract Provisions
The contractor will be required to sign and submit attachment two (sample attached) State's Standard Agreement Form for Goods and Non-Professional Services Contracts (form 02-093/Appendix A). The contractor must comply with the contract provisions set out in this attachment. No alteration of these provisions will be permitted without prior written approval from the Department of Law. Objections to any of the provisions in Appendix A must be set out in the offeror's proposal.

3.03 Insurance Requirements

The contractor must provide proof of workers' compensation insurance prior to contract approval and will become part of the contract file.

The contractor must secure and maintain for the duration of this contract the insurance coverage required by the state. The coverage must be satisfactory to the Department of Administration Division of Risk Management. Contractor's failure to provide evidence of such insurance coverage is a material breach and grounds for termination of the contract.

Contractor must comply with form APPENDIX B2, attached, for details on required coverage. No alteration of these requirements will be permitted without prior written approval from the Department of Administration, Division of Risk Management.

3.04 Contract Funding

Payment for items and equipment purchased under this contract is subject to funds already appropriated and identified at the time a purchase order is issued.

3.05 Payment For Items Under This Contract

The state will make a single payment for each State of Alaska issued purchase order for each completed unit received and accepted by the State of Alaska under this contract.
Final payment will not be made until the completed unit has been inspected and accepted by the State of Alaska. Under no conditions will the state be liable for the payment of any interest charges associated with the cost of the contract.

The state is not responsible for and will not pay local, state, or federal taxes. All costs associated with the contract must be stated in U.S. currency.

3.06 Inspection & Modification - Reimbursement for Unacceptable Deliverables

The contractor is responsible for the completion of all work set out in the contract. All work is subject to inspection, evaluation, and approval by the Contracting Officer or its designee. The state may employ all reasonable means to ensure that the work is being performed in compliance with the contract. The Contracting Officer may instruct the contractor to make corrections or modifications if needed in order to accomplish the contract's intent. The contractor will not unreasonably withhold such changes.

Substantial failure of the contractor to perform the contract may cause the state to terminate the contract. In this event, the state may require the contractor to reimburse any pre-payment monies paid, or monies paid (based on the identified portion of unacceptable work received) and may seek associated damages.

3.07 Termination for Default

If the Contracting Officer determines that the contractor has refused to perform the work or has failed to perform the work with such diligence as to ensure its timely and accurate completion, the state may, by providing written notice to the contractor, terminate the contractor's right to proceed with part or all of the remaining work.

a) This clause does not restrict the state's termination rights under the contract provisions of Appendix A, attached.

3.08 Liquidated Damages

The contractor is expected to deliver goods that conform in all material respects to their offer and this contract on or before the date stated on each purchase order issued. In the event that the goods are delivered late or in the event that the goods do not conform in all material respects to the contractual offer, 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 on the RFP and the date that goods are delivered to the State. In the case of equipment of this type, the daily loss of operation fee is determined to be $100.00. 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 inspect the goods.

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.

These liquidated damages for late delivery are not the exclusive remedy available to the State, but are in addition to all other actual damages that the State may incur by reason of late delivery or delivery of nonconforming goods

3.09 Contract Changes - Unanticipated Amendments

During the course of this contract, the contractor may be required to perform additional work. That work will be within the general scope of the initial contract. When additional work is required, the Contracting Officer will provide the contractor a written description of the additional work and request the contractor to submit a firm time quote for accomplishing the additional work and a firm price for the additional work. Cost and pricing data must be provided to justify the cost of such amendments per AS 36.30.400.

The contractor will not commence additional work until the Contracting Officer has secured any required state approvals necessary for the amendment and issued a written contract amendment, approved by the Contracting Officer

3.10 Contract Invalidation

If any provision of this contract is found to be invalid, such invalidation will not be construed to invalidate the entire contract.

3.11 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.

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 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 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.

SECTION FOUR
STATE EQUIPMENT FLEET SPECIAL TERMS AND CONDITIONS

4.01 Delivery of Completed Unit:

4.01.1. Delivery time of a completed and turnkey State of Alaska accepted unit is 100 days after receipt of chassis at the up-fitter facility. Liquidated damages will be charged for units delivered after the 100 day time limit.

4.01.2. Truck must be test driven and all installed systems and components (hydraulics, brine, plow, sander, and electrical functions) must be tested to ensure contract compliance, work properly and that there are no deficiencies. All vendor installed attachments to be greased/lubricated and any and all fluid capacities shall be filled to manufactures recommended levels. Truck must pass a final inspection performed by AKDOT employees before final acceptance of unit will be made.

4.01.3. Inspection and check-off of each unit must include the following (as applicable to the type of equipment):

4.01.4. Dealer and installed component identification, to include make, model, and serial number

4.01.5. A list of all fluids including type weight and specification that is in the equipment as delivered for all fluid compartments.

4.01.6. The vehicle and all installed components shall be clean and free from defects when delivered and should be ready for immediate and continued use upon delivery.

4.01.7. Units delivered in an incomplete state, or which have deficiencies per the contract, may be subject to the liquidated damages charge as noted in Section Three item 3.10.

4.02 Inspections at Final Delivery Location:

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 and or specifications, if there are any apparent defects in the materials or equipment at the time of delivery, the State will promptly notify the Contractor thereof. Without limiting any other rights of the State, The State at its option, may require the Contractor to:

4.02.1. repair or replace at contractor's expense, any or all of the damaged goods,

4.02.2. refund the price of any or all of the damaged goods, or

4.02.3. accept the return of any or all of the damaged goods.

4.02.4. Costs 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.

4.03 Acceptance of Unit at Final Delivery Location

Units will not be considered "Accepted" until the equipment has gone through a detailed and extensive operational testing final inspection by state personnel. Any and all deficiencies if found during the inspection have been corrected. This includes item 4.05 Line Sheets/Bill of Materials and item 4.18 Publications. If deficiencies are found, a letter will be emailed to the contractor informing them of the deficiencies and who to contact to correct the noted deficiencies.

4.04 Delivery Receipt:

4.04.1. A delivery receipt will be required. The 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.

4.04.2. 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 Contracting Officer or designee may sign warranty documentation.

4.05 Line Sheet Bill of Materials:

4.05.1. It is required that a Line sheet/bill of materials accompany the completed units paperwork at the time of delivery. The contractor shall provide a comprehensive listing of all components manufactures model numbers, and serial numbers used to assemble the unit.

4.05.2. This includes any components installed by the up-fitter or any subcontractor or the successful bidder.

4.05.3. Information will include at a minimum, when available, make, model serial number on items such as controls, motors, plows, scrapers, wing blades, hitches, bodies, hydraulic system components, etc. The listings will be specific to each piece of equipment and will be provided in a paper publication format, or an individual CD or DVD for each unit delivered.

4.05.4. A minimum of one (1) paper publication, and one (1) CD or DVD per unit are to be provided and marked with the make, model, and last main vehicle identification numbers of the units serial number or State PO number.

4.05.5. A manual showing all request information above with parts and part numbers complied by the up-fitter of all products offered under this contract would be acceptable

4.06 FOB Point:

4.06.1. The final F.O.B. point will be listed on each purchase order issued. Ownership of all contractor installed components and title of installed components will remain with the contractor until delivery is complete to final destination and final acceptance by the State. Equipment is not to be driven on the Alcan Highway without prior written approval from the contracting officer.

4.06.2. The cost of shipping and delivery of completed units if applicable from the contractor's up-fitting facility will be handled as follows. The contractor will arrange the most economical shipping method available and prepay the shipping and delivery charges to any destination (normally Anchorage, or Juneau Alaska) named by the State in its purchase order. The contractor will charge-back those shipping and delivery charges to the State as a separate line item on the State's invoice and provide a copy of the actual shippers invoice as documented backup.

4.06.3. All shipping charges over $100 must be documented by a copy of the actual shipping invoice and received with the invoice charge to the State.

4.06.4. Shipping must be consolidated for the best possible price. Shipping items separately must be pre-approved by the Contracting Officer PRIOR to shipment. For example, plows, bodies, sanders, or spare tires not being shipped with the completed unit must be pre-approved by the Contracting Officer.

4.07 Price:

4.07.1. **Price Guarantee:** The Contractor is responsible to maintain prices under the contract firm for 180 days after contract award. All price increases or decreases must remain firm for the following 180 days.

4.07.2. **NO RETROACTIVE PRICE INCREASES WILL BE ACCEPTED.**

4.07.3. Price adjustments, increases or decreases, to the prices established under the contract, may be requested by providing the Contracting Officer 30 days' notice prior to the 180 day price guarantee, along with satisfactory evidence that all of the following conditions exist:

4.07.3.1. The increase is a result of the increased cost at the manufacturer's level and not costs under the contractor's control, and that;

4.07.3.2. The increase will not produce a higher profit margin for the contractor than that on the original

contract, and that;

4.07.3.3. The increase affects only the item(s) that are clearly identified by the contractor.

4.07.3.4. Satisfactory forms of the evidence of the above facts may include a certified invoice from the manufacturer, 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 180 days price and the current difference in the price being requested.

4.08 Price Decrease:

During the period of the contract, the Contractor must pass on to the state all price decreases, such as manufactures or supplier's rebates. A Contractor's failure to adhere strictly and faithfully to this clause will be considered a material breach of contract. The state reserves the right to cancel the contract if the contractor fails to properly perform the duties set out herein.

4.09 Manufacturer's Rebate (Incentives):

In any circumstance during or prior to completion of the contract, whereupon the State of Alaska becomes eligible to receive a rebate for any component purchased under this contract, it shall be the CONTRACTORS responsibility to inform the Contracting officer in writing and to advise the procedures for obtaining such rebates.

4.10 Equipment Reliability:

4.10.1. Reliability of equipment is of paramount importance to the State. It is the policy of the State Equipment Fleet to require minimum levels of reliability from owned or leased equipment and attached components for it to be considered acceptable. Equipment and components supplied and installed under this contract must be capable of meeting the acceptable reliability standard stated below.

4.10.2. Acceptable Reliability: The State will monitor equipment reliability. Acceptable reliability for this contract is achieved when a machine and or all components achieves or maintains a Reliability Ratio (RR) equal to or exceeding the following:

4.10.3. .90 (90 percent) PR during any consecutive 12-months (365 days) during the warranty period.

4.10.4. .75 (75 percent) PR per operational month (recognizing operational as subject to weather and being defined by calendar days) during the consecutive 12-month period.

4.10.5. PR below the state percentages does not meet minimum reliability requirements for state owned equipment.

4.11 Equipment Failure Resulting in Downtime:

4.01.1 Equipment Failure is any and all loss of capability to perform fully, as specified, which is not attributed to Conditioned Failure. Equipment Failure resulting in the unit being out of service is defined as Downtime.

4.01.2 Conditioned Failure is any equipment Failure attributable to accident, operator abuse or other external cause not attributable to a defect in the machine itself.

4.01.3 Downtime is the actual number of days or fractions of days that the equipment is in a state of Machine Failure. Downtime does not count time used for scheduled maintenance (including preventative maintenance and scheduled major overhauls), time lost for repair maintenance and scheduled major overhauls, time lost for repair of damage as a result of operator abuse or machine misapplication; or time lost as a result of accident or an act of God. Downtime includes:

4.01.4 Actual shop hours (and/or field repair hours) required to return unit to full operational status following machine failure, including trouble-shooting, repair, necessary replacement of parts, and necessary adjustments, plus

4.01.5 Time lost waiting for parts and/or vendor assistance. "Waiting downtime" also applies if need for parts/assistance is discovered during routine maintenance and return to service is deemed

counterproductive. In this case, "waiting time" clock begins with notice of need to vendor. Allowance may be considered in "waiting time" calculations if arrival of parts/assistance is delayed by transportation shutdown, to include verifiable transportation scheduling difficulties such as infrequent flights as long as all reasonable alternatives have been exhausted. Parts and assistance are to be provided by the quickest means reasonably possible to avoid unnecessary delays and downtime.

4.01.6 Out of Service Report (OSR): Downtime resulting from machine failure is the actual number of hours a machine is out of service as recorded on the OSR or in the Equipment Maintenance Management System (EMS).

4.01.7 The State will record all downtime on an OSR or EMS work order, which will be originated for each occurrence of downtime. The document will show the date and time a unit went down, the location where the machine was based, the reason the machine is down, date and time the vendor was notified (if applicable), the date and time the machine was returned to service, and the total hours of downtime.

4.01.8 The Contract Manager will finalize and approve the OSR or EMS work order. Both are available for contractor review.

4.01.9 Reporting Downtime: The Contracting Officer will maintain documentation of all Downtime, and shall send copies of such documentation to the contractor.

4.01.10 Calculation of Reliability Ratio: RR is the mathematical ration of operated time (uptime) to out of service time (downtime). The RR will be calculated according to the following formula:

$$RR = \frac{\text{Days in a Month} - \text{Days Out of Service*}}{\text{Days in a Month **}} = \frac{DM - DO}{DM}$$

Note * : Fractional Days apply, i.e., a unit is out of service 8 hours in a 24 hour period equals 1/3 or .33% of a day.

Note **: A day is allocated as 24 consecutive hours from 12:00 AM to 12:00 PM.

Example: 30 days DM with 2 days and 8 hours DT would result in:

$$RR = \frac{30 - 2.33}{30} = .92$$

4.01.11 Unacceptable Reliability: If an item of equipment fails to perform at an acceptable level of reliability during the warranty period, the Contracting Officer will notify the contractor and request immediate remedy. Failure to remedy the piece of equipment within 30 days for failure will result in a breach of contract and the immediate return of the equipment and reimbursement of the Guaranteed Value (V) of the unit:

Original Cost of the unit less (-) Freight = $_____ (V)

Guaranteed Value (V) less (-) the Cost of Operation as listed in the Equipment Rental Rate Blue Book or comparable equipment or the current Federal Fixed Usage Rate for the Class for the State of Alaska (a, (a b or c per hour) times (X) the number of hours used = _____(DV).

a. Example: Cost of a single unit, less freight = $150,000. The hourly cost is $150.00 per hour. The unit was used 150 hours prior to failing the acceptable reliability. The contractor guarantees the unit's worth at $127,500.00.

4.01.12 Prior to return, the State will correct all reasonable cosmetic deficiencies (such as excessive rust) and those deficiencies that are directly related to damage due to accidents, misuse of equipment or failure to operate or maintain equipment as prescribed by the vendor/manufacturer, prior to public auction.

4.01.13 The tires will be serviceable with at least 50% remaining thread.

4.01.14 Oil samples, as per manufacturer's service manual recommendations, will be taken by State of Alaska maintenance personnel on the hydraulics or other components as required in service manuals.

4.01.15 In the case of dispute, at the expense of the State, a qualified agent from Northern Adjusters, Inc. or another professionally recognized appraiser may be commissioned for an independent claim appraisal. Such appraisal shall be binding upon the State and the contractor.

4.12 Warranty:

4.12.1. **Henderson Products Standard Warranty Package and State of Alaska Minimum Warranty**

4.12.1.1 Full (100%) Parts and Labor Warranty Coverage of all contractors installed systems and components for 12 months (year one), from the date the unit is placed in service at the assigned location.

4.12.1.2 Full (100%) Warranty Coverage includes all cost of labor, parts, freight, lubricants, miscellaneous cost, etc., to place the unit in like-new condition.

4.12.2. **Certified Power Inc. Standard Warranty Package:**

4.12.2.1 Full (100%) Parts and Labor Warranty Coverage on all contractors installed systems and components for 18 months from date the unit is placed in service at assigned location.

4.12.2.1. Full (100%) Warranty Coverage includes all cost of labor, parts, freight, lubricants, miscellaneous cost, etc., to place the unit in like-new condition.

4.12.3. 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.

4.12.4. 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.

4.12.5. Warranty on Attachments: Same as Standard Warranty Package.

4.12.6. In-Service Date: Warranty on vehicles and or installed components 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/manufacturer in writing of the actual "in service" date. Notification of the requirement for delayed warranty will be provided on delivery orders whenever possible.

4.13 Warranty Claims:

4.13.1. 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.

4.13.2. 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.

4.13.3. The vendor must notify the state within 24 hours of verbal or written notification that it will <u>begin to perform</u> the warranty work at the equipment location.

4.13.4. 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.

4.13.5. Failure to notify the State that the vendor intends to begin to perform warranty is considered a

contractual breach.

4.13.6. 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.

4.14 Warranty Performed By Vendor:

4.14.1. The State will reimburse travel costs not reimbursed by the manufacturer for travel to and from the bidder's closest warranty service center within the State of Alaska to the location of the equipment under warranty. Travel costs will be billed as follows

4.14.1.1. Mileage Charge: Mileage will only be reimbursed for travel within Alaska at the current rate allowable by the IRS.

4.14.1.2. Meals are paid at actual and charges must be accompanied by receipts and are not to exceed the State authorized $60.00 per day.

4.14.1.3. Transportation, such as airfare, shall be reimbursed at actual and all charges are to be accompanied by a receipt/copy of the coach ticket.

4.14.1.4. 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.

4.14.2. Travel will only be reimbursed for time in Alaska.

4.14.3. After hours, weekend and holiday travel must be approved by the contracting officer to be considered for reimbursement. The State will not pay for weather delays.

4.15 Authorized Warranty Location (Contractor):

4.15.1. Contractor must have an Authorized Warranty Dealer location in Anchorage, Alaska at a minimum that has all required licenses, facilities and factory certified and trained personnel necessary to perform the warranty servicing and repair work.

Warranty Location: Bob's Services Inc. C/O Keith Skalsky 907-276-3221

2009 Spar Avenue Anchorage, Alaska 99502

4.15.2. The ultimate responsibility for warranty lies with the contractor.

4.15.3. The State reserves the right to inspect the warranty facility and diagnostic equipment prior to issuing or during the term of this contract.

4.16 Factory Recall:

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.

4.17 Repair Orders and Documentation:

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

4.18 Publications:

4.18.1. Electronic format publications (CD, DVD, or Flash Drive format) are to be received by the State at the time of delivery. Delivery will not be considered complete until the publications for each unit have been

received by the State of Alaska. Note: Publications, when required, will be ordered on the same Purchase Order as the unit itself.

4.18.2. One single Master paper manual covering all optional builds is to be pre-assembled in factory binder and delivered to Specification Writer along with a backup copy on CD

4.19 Service Manuals:

4.19.1. Complete set(s) to include applicable information covering attachments installed by the up-fitter on the prime unit:

4.19.2. Body, chassis, and electrical

4.19.3. Hydraulic system

4.19.4. Electrical and vacuum troubleshooting

4.19.5. Wiring diagrams

4.19.6. Service specifications

4.20 Parts Manuals:

4.20.1. 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.

4.20.2. Parts manuals are to be customized by serial number.

4.21 Operators Manuals:

Complete set(s) to include all installed components and attachments.

4.22 Quantities:

One complete set in electronic version (CD, DVD, or Flash Drive) to be delivered with each unit ordered,
One single master set in paper is to be delivered to SEF HQ Specification Writer. (Not required for every unit)

4.23 Service Bulletins, ETC.:

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. All such bulletins and documents shall be delivered to:

DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue
Anchorage, Alaska 99508

4.24 Statement of Origin:

The bidder will be required to furnish any Manufacturer's Statement of Origin if required for any components provided and installed on each unit. All such documents shall be delivered with the invoice to:

DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue
Anchorage, Alaska 99508

4.25 Weight Verification Slip:

It is required that a weight scale ticket of the completed unit will be included with the invoice. All such documents shall be delivered with the invoice to:
DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue
Anchorage, Alaska 99508

4.26 Inspection Trip of First Unit at a Minimum:

4.26.1. Prior to arrival of the State of Alaska inspectors, the completed unit is to have been inspected and tested by the contractor or sub-contractor for compliance to all specifications as listed in the resulting contract. 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.

4.26.2. Prior to shipment to Alaska from the manufacturer's plant, representatives of the State may at its option inspect the completed equipment for conformance to specifications.

4.26.3. 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 manufacture is taking place.

4.27 Inspection Trip:

4.27.1. The vendor will alert the State of Alaska Contracting Officer, whose name is on the purchase order, at least 30 days prior to having the first completed unit ready for inspection

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

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

4.27.4. It shall be the responsibility of the Contracting Officer or representative to observe and assist in the inspection and testing 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).

4.27.5. 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.

4.27.6. The pilot model inspection may result in minor modifications which would require negotiation with the Contracting Officer. A change order to the contract must be issued prior to any modifications being accomplished.

4.27.7. 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.

4.27.8. A thorough final inspection of the unit will be conducted at the final destination in Alaska, to assure that the unit still meets specifications.

4.27.9. The inspections conducted at the contractors facility by the State shall be thorough and very critical, and will encompass a complete review of the specifications. The State of Alaska requests that the contractor make available adequate time and engineering, technical, and support personnel to assist the State in these inspections.

4.27.10. The contractor or responsible representative shall also be in attendance.

4.28 Replacement Parts and Repairs:

4.28.1. This contract encompasses a full parts and labor contract for manufacturer parts and repairs for the entire warranty period.

4.28.2. 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.

4.28.3. 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.

4.29 Replacement Parts Warranty:

Replacement Parts 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.

4.29.1. If the manufacturer's warranty exceeds the stated warranty then manufacturer's warranty supersedes.

4.29.2. 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, resalable condition. Refund will be in the form of a credit/invoice credited to the SOA account with the vendor.

4.29.3. Invoicing: Full description of item is required on all invoices, packing lists and billings.

SECTION FIVE
SCOPE OF WORK and DELIVERABLES

5.01 Scope of Work:

The turnkey snow plow truck packages include dump bodies, combination dump/sanding bodies, hydraulic systems, emergency lighting, anti-icing, and snow removal equipment installed on AKDOT provided current model year Mack Granite 69,000 GVWR tandem axle truck chassis. It is extremely important that the units be of heavy duty construction, and be able to operate and perform as advertised in the extreme and adverse weather conditions experienced while performing snow removal from the Alaska state highway system.

The units shall include all features and components which are advertised as standard by the manufactures current brochure. The units shall conform in all aspects of performance, quality of material, and workmanship to that provided by the best manufacturing and engineering practices of the industry.

These trucks will be in service year round for an average of 10 years and will encounter some of the harshest weather, road conditions, and shock loading of truck and plow equipment in North America with temperatures ranging from minus 50 degrees to over 100 degrees. The proposed equipment must be able to perform as advertised by the manufacture and to the State of Alaska's satisfaction in all conditions. Quality of workmanship, performance, durability, reliability, ease of maintenance, readily available replacement parts, ease of operation, operator safety, and advanced technology is of extreme importance to the state.

AKDOT SEF will require the contractor and chassis supplier to maintain a working relationship to ensure a fully operational turnkey snow plow truck.

5.02 Deliverables

The contractor will be required to provide the following deliverables for all units delivered under this contract;

- Complete and turn-key fully operational and functional snow plow/dump trucks inspected and accepted by AKDOT SEF.
- (1) One copy of manuals on a CD or DVD or Flash Drive that includes maintenance and service information, wiring diagrams, hydraulics system and a complete parts lists for all items and equipment installed by up-fitter to be delivered with each truck.
- One master set of paper manuals that includes maintenance and service information, wiring diagrams, hydraulics system and a complete parts lists for all items and equipment installed by up-fitter delivered to 2200 E. 42nd Ave Anchorage AK. 99508 Attn: Specification Writer.
- RFI and EMI Protection: Because of the electronic instrumentation controlling electric over air switches, etc., RFI and EMI protection is required to help eliminate malfunctions because of radios. This protection is to cover frequency ranges from 47 to 47.5 MHz. Radios will be producing up to 100 watts of power.
- All wiring to be rated for extreme temperature ranges of minimum rating of -60°F to minimum +200°f.
- Electrical Wiring: All systems to be Betts vapor proof system with wiring harnesses and all cables, wiring, relays, connections etc., shall be installed, routed and supported as required to meet all Federal and State DOT regulations. All wiring systems shall be designed to protect against abrasion, salt, capillary action, and physical damage using sealed junction boxes, compression fittings and standard production sealed wiring harnesses. All wire ends shall be crimped and soldered, or sealed threaded connectors. Insulation-piercing connectors are not acceptable.
- All wiring quick connects to include dummy couplers with lanyard.
- Nuts, Bolts: All nuts and bolts used in component installation to be grade-8.
- All hydraulic cylinders to have nitrided rods.
- All hydraulic hoses to be rated for extreme weather severe service with a minimum rating of -50°F to +200°F.
- All hydraulic line couplers for all components under this contract shall be Parker quick connect fittings to ensure ease of swapping existing products to new trucks.
- All hydraulic and air lines quick connectors to include a cap and chain to protect connectors when not in use.
- Paint: All components (except stainless steel) to be primed and painted, with urethane product, powder coating process or other state approved material or process to manufacturer's recommendations.
- Grease Fittings: All grease fittings are to be threaded style zerks fittings. Press-in type zerks fittings are not acceptable.
- Miscellaneous Items: All minor items including, but not limited to, electrical wire, conduit, connectors, hoses, connections, tape, paint, fittings, fuses, etc., a minimum of 10 to 14 console mounted switches shall be supplied by the contractor or up-fitter in addition to the 12 OEM switches supplied with the chassis.
- All welding by Manufacturer or up-fitter to conform to current codes and standards for the material and processes used as set forth by the ASME, AWS, and API.

- All designs, changes, or fabrication questions must be submitted and approved by State Equipment Fleet Spec Writer Bruce Muller Phone: (907)269-0789, Cell (907) 240-2724 E-mail: bruce.muller@alaska.gov before manufacture.

- Any contract related questions should be directed to State Equipment Fleet Contracting Officer, Duane Felton phone (907) 269-0788 E-mail: duane.felton@alaska.gov

5.03 Optional Hydraulics Package for Dump/Plow Trucks:

General Information:

a) 30 gallon Hydraulic tank, stainless steel valve bank enclosure and valve assembly with the base hydraulic package includes 7 valve sections, with room to add 4 additional valve sections for optional order items.

1. **Hydraulics Package General Information**
   a) Chassis is set up with Front Engine PTO to accept SPICER Series 1350 universal adapter from the chassis manufacture.
   b) Frame modifications to accommodate pump, or other equipment installation are not acceptable.
   c) The system must perform with no lag time and industry standard responsive cycle times when switching functions or activating devices.
   d) The supplied chassis will be equipped with the Allison 4500 series 6 speed transmission. Will include a pre-programed automatic fixed shift schedule. Up-fitter is to provide a proximity switch that will automatically engage fixed shift schedule when the front plow is lowered.
   e) Basic system includes the StormGuard PlowGuard Plow Balance system integrated into the ACS control system.
2. **Front Mount PTO Pump**
   a) Sauer/Danfoss Series 45 Axial Piston pump, 6.1 cubic inch rated at 5880 PSI maximum.
   b) 26.4 GPM @ 1000 engine RPM minimum.
   c) Two (2) inch suction port, 1¼ (1.25) inch drive shaft, and SAE type **"C"** mounting flange.
   d) One (1) inch high-pressure steel ¼-turn ball valve at the pump outlet.
   e) Pump shall be mounted with shaft centerline parallel to the crankshaft centerline and at a level to create not more than a three-degree vertical angle on the driveline.
   f) The hydraulic pump driveline shall have companion flanges at both the engine crankshaft and pump for ease of removal and include grease fittings on both u-joints.
3. **HYDRAULIC RESERVOIR (cradle mount design)**
   a) To be installed on curb side of truck, between cab and dump body in cylinder cradle
   b) Minimum 30 gallons usable capacity mounted above pump or pressurized system to prevent cavitation.
   c) Suction outlet to provide a removable 100 mesh screen in the hydraulic tank suction outlet sized for proper flow and be located slightly off of the bottom of the reservoir and include a two (2) inch full flow ¼-turn brass ball valve, for servicing of tank.
   d) Includes a 3/4" ¼ turn ball valve with ¾" magnetic drain plug, and filler breather cap assembly with a removable basket and chained cap.
   e) Design should provide for easy access to filler and plumbing.
   f) Hydraulic system filter to be top mounted cartridge type replaceable absolute rated element filter (minimum 10 micron) system shall include a filter condition or restriction indicator at the filter location.
   g) Sight glass to show maximum and minimum levels.
   h) System shall have an electric audible low level warning device and high temperature warning in the control console or dash indicating low oil level insufficient for operation.
4. **Control Valves**
   a) Hydraulic valves are SAUER/DANFOSS PVG32 with relief.
   b) Each function requires an individual section stacked together.

c) All segments shall have heavy-duty continuous duty coils and connections shall be AMP Jr.
d) Each section shall be equipped with a manual adjustable override.
e) The dump and muni body segment shall be a PVG100 valve with a flow up to 47 GPM , includes a transition section to the downstream valves which will give up and down hoist speeds of 30 seconds or less.
f) Dump and Muni body limiter will be by proximity switch (IP68 rated) to stop body up at a pre-determined position, with summer/winter switch.
g) Valve stack may differ from truck to truck, depending on attachments. NOTE: The last two (2) functions, Conveyor and Spinner, will be supplied with a two (2) function manifold using 4 pin DIN connections, this manifold would also include an integral end cover function.

5. **Valves to be arranged as follows depending on configuration ordered per truck**
   a) Standard Valve Package Includes as Listed Below (hoist, plow lift, plow reverse, belly circle, belly curl, left lift, right lift).
   b) Standard or Muni-type dump body Hoist- 3-way, single acting cylinder.
   c) Plow– 4-way, double acting cylinder with integral Plow Guard Plow Balance System.
   d) Plow Angle – 4-way, double acting cylinder.
   Note: System to include a crossover relief valve mounted onto the left side of plow hitch. This valve will be required on all trucks equipped with plow hitches with pressure limit for lower down pressure will be factory set.
   e) Belly Blade – Circle turn, 4-way, double acting cylinder with pressure limit for lower down pressure will be factory set.
   f) Belly Blade – Curl, 4-way, double acting cylinder with pressure limit for lower down pressure will be factory set.
   g) Belly Blade (Oscillating) – Lifts left, 4-way, double acting cylinder with down port relief.
   h) Belly Blade (Oscillating) – Lifts right, 4-way, double acting cylinder with down port relief.
   i) Wing Toe – 4-way, double acting cylinder with flow adjustment for raise, and 500 psi port relief for lower.
   j) Wing Heel – 4-way, double acting cylinder with flow adjustment for raise, and 500 psi port relief for lower.
   k) Wing Raise – For benching, 4-way, double acting cylinder.
   l) Optional Sander Conveyor.
   m) Optional Sander Spinner.
   n) Optional Pre-Wet System will have a dedicated 2 way valve in stack.
6. **VALVE BANK ENCLOSURE**
   a) Enclosure will be constructed of 304 stainless steel and be mounted on the curb side of the truck.
   b) Enclosure is to be constructed so it will support the weight of personnel to use as a step or platform to access the fuel tank area behind the cab.
   c) Top of enclosure to include an overlay of expanded grip strut material.
   d) Valves to be mounted with all ports through the bottom, capped with bulkhead JIC fittings allowing for up-fitter installation.
   e) Valve enclosure shall be mounted as to provide easy access without the use of tools, with the dump body in the down position.
   f) Valve sections to be installed in the enclosure with sufficient room for removal or repair.
7. **CONTROLS: CERTIFIED POWER FREEDOM "ACS" SERIES (CAN-BUS) Base system includes**
   a) Single Joy Stick Control: Freedom Model ACS (3 axis fully proportional contactless joystick with 6 programmable function select buttons. Preprogrammed to the following DOT specifications.
      - Control layout as viewed from the driver's seat left to right.
      - Dump hoist, nose plow, belly blade, wing blade, blast, and pause.
      - Hoist joystick is to include a "Dead Man" switch.
      - Control system will incorporate a separate panic button for all plows up command with single button activation.
      - Vibrate function of add on components to be controlled from a OEM up-fitter switch on the dash.
   b) 24/7 online access for reference or user information through Certified Power website.

c) Freedom ATS system (data collection, road/air temp (GPS, Wi-Fi, radio data channels).
d) 3 levels of programing access (Operator, Technician, and Administrator).
e) Control Console: Control Guard floor mounted with padded arm rest.
f) The sander control is to be placed at an angle for easy sight and access to controls.

(Optional 4 Stick Design in lieu of single joy stick control)

g) For ease of operation the multi-stick control shall include the following features.
   - A momentary push-button at the top of the hoist stick to provide hoist-interlock.
   - The plow joystick shall include a momentary pushbutton for activation of remote standby, remote blast or the truck body vibrator.
   - The multi-stick communication hardware/software shall include 4 integral float options. The use of add-on float modules is unacceptable.

h) **For flexibility of use the integral float programming shall have the following standard features**
   - Function joysticks shall be of contact-less Hall-effect design and offer up to a 5-Million cycle life.
   - To ensure safe operation, joystick communication hardware/software shall include the following standard features.
   - Input power monitor circuitry with power quality diagnostics, PWM output shut down during low-voltage or over-voltage conditions. Joystick input off-center checking on all axes and output shutdown on system power-up. Joystick out-of-range fault condition checking and output shutdown. True outputs with joystick centered.

5.04 Optional Relocation of 116 Gallon Fuel Tank (behind cab mount):

a) 116 useable gallons OEM D shape fuel tank will be relocated to behind the cab above frame rails, all OEM lines and connections will be utilized and reconnected in to the chassis system, fuel gauge and fuel delivery system.
b) Driver's side easy access for refueling.
c) Up-fitter will utilize OEM entry steps if possible or construct new steps as close to OEM configuration as possible that will enable easy entry to cab as well as a custom built platform with easy access to the fuel tank from the top step.

5.05 Optional Dump Body 8 Cubic Yard Henderson Mark E 12.5 with Standard Vertical Tailgate:

a) Capacity: 8 Cubic Yard (struck capacity).
b) Body Length: 12.5 Foot.
c) Rear Body Profile: Straight Profile.
d) Side Profile: Straight Sides.
e) Side Height: 30 inches.
f) Rear Bolsters Height: 8 inches above sides.
g) Board Pockets: 2 inch wide.
h) A minimum 50 degree dump angle.
i) Dump and Muni body limiter will be by proximity switch (IP68 rated) to stop body up at a pre-determined position
j) Hoist Cylinder: Mailhot CS130-5-3.
k) Hoist Type and cylinder: Trunnion mounted tele-hoist external doghouse, with single acting telescopic cylinder
l) Cylinder Cradle Type: With reservoir box mount.
m) Cylinder will have a removable pin that is attached to the dump body for easy body removal.
n) Side/Headsheet Material: ¼" AR400.
o) Floor Material: ¼" AR400 with 5" radius.
p) Longsill Material: 8" I-Beam.
q) Tailgate Material: ¼" AR400.

r) Rear Bolsters Material: 7 gauge grade 50.
s) Side Support: One weld on brace 10 gauge grade 50.
t) Tailgate Style: Standard tailgate hinge with two grade 50 horizontal reinforcement.
u) Top Rail Profile: 7 gauge type 50 Flat profile.
v) Rub Rail: 7 gauge type 50.
w) Rear Hinge: 8"x6" hinge with greaseable blocks.
x) Top Pivot Tailgate Hardware: 1 ½" pins and PL, NG.
y) Tailgate Latch/Release: Double acting cylinder, stainless steel bushings, with cab operated two-way electric valve.
z) Cab Shield: 36"x86" 7 gauge grade 50.
aa) Grab Handle: Drivers Side.
bb) Body Step Locations: Drivers and passenger side front and rear, lower area two outside body steps, 1-1/2" Mild Grip Strut Construction.
cc) Paint: Sandblasted ,PPG Urethane prime and paint Winter White.
dd) Dump Body Rear Mounting System: Same dimensions and specs as to what the grizzly sanders are built to for removal.
ee) Body Electrical Main Connection harness to utilize a quick disconnect for easy body removal.
ff) All lamp connections and all junction box post connections shall be treated with corrosion inhibitor dielectric grease.
a) LED All-in-one stop, turn, and taillights, and separate back-up lights shall be shock mounted in the rear corner post of the dump body.
b) Tail, signal, brake light assembly to be mounted below the strobe lights, with the back-up lamp being mounted below the combination lamp. (as pictured below) Body to include all necessary LED marker/clearance lights, recessed and/or guarded to prevent damage.

c) Rear Body safety lights Amber left side, Blue right side, Class 1 LED strobes, Head Assemblies to be mounted approximately seven (7) feet above ground level in rear corner posts.
d) Cab Shield Top Mounted: Street Side Forward Corner Edge Mounted Class 1 LED Amber Beacon, Curb Side Forward Corner Edge Mounted and Class 1 LED Blue Beacon.
e) One (1) each solid state electronic flasher/controller shall be installed on the rear cab wall behind passenger seat area at least two inches off the floor. This flasher allows for synchronization of all four or six amber and blue LED warning lights on the vehicle with intermittent blue/amber flash. Lighting that is programmable but does not require a control unit would also be acceptable.
f) One (1) each HI/OFF/LOW switch shall be installed in the cab in a location acceptable to the State DOT.
g) Switches shall be connected to the OEM up-fitter switches in the dash as shown in 5.30.
h) OPTIONAL ORDER: Pole mounted Amber/Blue LED 360 degree beacons, option would include the lights mounted on a removable pole that would slide into a mount on the upper side rear of the body, these will utilize a quick disconnect that will enable them to be moved to a chassis mounted sander is desired

5.06 Optional Sloped Style Standard Tailgate in Lieu of Standard Vertical:

a) Same as item 5.05 dump body with the exception of the following.
   a. Rear Body Profile: Sloped Profile.
   b. Tailgate Style: Standard tailgate hinge.

5.07 Optional Asphalt Style Standard Tailgate in Lieu of Standard Vertical:

a) Same as item 5.05 dump body with the exception of the following
   a. Rear Body Profile: Asphalt Profile
   b. Tailgate Style: Standard tailgate hinge – Double Acting

5.08 Optional Hydraulic Power Tailgate in Lieu of Standard Vertical:

a) Same as item 5.05 dump body with the exception of the following:
   a. Rear Body Profile: Straight Profile.
   b. Tailgate Style: Vertical Hydraulic Lift.
   c. Hydraulic system will allow the tailgate to operate normally, but will also allow the tailgate to rise vertically up to a height of approximately 18 inches.
   d. Height indicator, in two (2) inch increments, located on rear post viewable from cabs rearview mirrors.
   e. Electric Air Vale tailgate latch, to include a interlock with the lift cylinder
   f. Trucks existing cab controls for hydraulic cylinders will be utilized.
   g. The purpose for this design change is to dump chipped rock into a chip spreader with an even flow. (Note: The horizontal distance from the center of the hinges to the back of the tailgate is to be approximately 21-1/4 (21.25) inches.)
   h. Horizontal distance from the center of the hinges to the back of the dump body shall be approved by State of Alaska prior to production of 1st unit..

5.09 Optional Slide in 8 Cubic Yard V-Box Spreader (for standard dump body):

a) Controls are through the standard ACS can bus system.
b) Hydraulic and electrical connections to be located on curb side rear of the spreader.
c) Henderson Model WSH.
d) Spreader Model: FSH-III Bolt on chain shield.
e) Inverted Vee design.
f) Steel Type: Stainless Steel.
g) Body Design: 84" Body with extended conveyor.
h) Hopper Length: 12 foot hopper.
i) Floor: Reinforced sills and floor ¼" stainless steel.
j) Conveyor Length: 13 foot conveyor.
k) Hopper Height: 56" Hopper.
l) Conveyor Type: Pintle chain 3/8" x 1.5" D667K Heavy Duty.
m) Idler Style: 2" Spring loaded idler/extended take up.
n) Drive Style: 2" drive with 25:1 planetary gear case, sprocket (hardened 50RC), drive 2" double key.
o) Conveyor Motor: Hydraulic motor, 4.9 cir, 2B with sensor.
p) Conveyor system includes a reversing valve for the conveyor in case of a system jam.
q) Grease tubes extended to rear.
r) Spinner Chute: Tele, dump over, white motor, heavy duty 7 gauge upper.
s) Spinner Disc Type: Polyurethane 20".
t) Hardware: All stainless steel.
u) J-Hook Hold Downs with 4" ratchet straps.
v) Two (2) rear mounted work lights to illuminate spread pattern area.

5.10 Optional Order Self-Loading/Unloading Leg Kit for 8 Cubic Yard Slide in Sander:

a) Stainless Steel Self-loading, unloading, and storage leg kit utilizes the tailgate latch system to secure rear of sander, and straps for front.

5.11 Optional Rear Deflector Wing for 8 Cubic Yard Slide in Sander:

a) Stainless Steel Rear deflector wing to prevent snow build up.

5.12 Optional Order Pre-wet system for 8 Cubic Yard Slide in Sander:

a) (1) One 230 gallon polyethylene driver side tank with all mounting brackets, hardware, and fittings.
b) (1) One 165 gallon polyethylene passenger side tank with all mounting brackets, hardware, and fittings.
c) Tanks are formed to attach to sander and slide entire unit into dump body as specified in 5.05.
d) 8.2 GPM liquid pump with flow meter mounted on passenger rear of tank.
e) Stainless steel tubing with corrosion resistant JIC fittings.
f) Hydraulically driven pump.
g) 2 way hydraulic valve.
h) Driver operated controls.
i) Drive system components mounted in sealed corrosion resistant fiberglass housing with stainless steel cover and hinges.
j) 5" tethered fill cap, quick couple fittings and internal baffles in both tanks.

5.13 Optional Order Top Grate Screens for 8 Cubic Yard Slide in Sander:

a) Set of hinged, with a minimum 3/8" welded rod heavy duty mesh screens. Screens to be designed to keep larger clumps of materials out of the spreader hopper.

5.14 Optional Muni-body/Combination Dump Box/Sander (in lieu of standard dump body):

a) Body Style: Rear Discharge Only.
b) Body Length: 12 foot body length.
c) Bolt on Asphalt lip to extend 12" beyond tailgate and protect extended conveyor.
d) A minimum 50 degree dump angle.
e) Dump and Muni body limiter will be by proximity switch (IP68 rated) to stop body up at a pre-determined position.
f) Hoist Type: Tele hoist extendable doghouse.
g) Hoist Cylinder: Trunnion mount CS Tele, single acting, Mailhot CS130-5-3).
h) Cylinder Cradle type: Full width.
i) Cradle Accessory: Valve enclosure and hydraulic reservoir.
j)
k)
l) Headsheet Height and Material: 60 inches, 1/4" AR400, with grade 50 brace material.
m) Rear Body and Side Profiles Straight, Straight Sides.
n) Side Height and Material: 40 inches, ¼" AR400.
o) Top Rail Material: 7 gauge grade 5.0
p) Floor Angle: 35 Degree
q) Tailgate Style: Standard, Tailgate Bottom Style: Square (double acting), Tailgate Feed gate Style: Lever.
r) Tailgate Top Pivot Hardware: 1-1/2" non greaseable pins and plates.
s) Rear Bolster Height and Material: ¼" grade 50, 12 inches above sides.
t) Rear Hinge Type and Construction: 8"x6"x1/2" HD with greaseable bushings.
u) Long Sill Construction and Material: ¼" inner/7 gauge outer 409 stainless steel.
v) Conveyor Floor Material: ¼" AR400.
w) Conveyor Cover Material: ¼" AR400.
x) Conveyor Type: Single bar pintle chain.
y) Conveyor Drive Direction and Conveyor Driver Location: Rear with rear drive 8 CIR Gerator motor.
z) Fender Driver and Passenger Sides: Platform style 7 gauge, 409 Stainless Steel, 131 inch driver's side, 97 inch passenger side.
aa) Grab Handle: Drivers Side.
bb) Step Locations: Drivers and passenger side of body front and rear, two outside body steps, 1-1/2" Mild Grip Strut Construction (are steps needed with platform).

cc) Cab Shield: 36"x84" 7 gauge grade 50.
dd) Paint: Sandblasted: PPG Urethane prime and paint Winter White.
ee) Muni Dump Body Removable Mounting System: Same dimensions and specs as the grizzly sanders are built to.
ff) Dump Body hinges are to be centered 7 ½ (7.5) inches from the end of the dump body and centered 62 ½ (62.5) inches from the chassis trunnion or as approved by State of Alaska prior to production of 1st unit.
gg) Body Electrical Main Connection harness to utilize a quick disconnect for easy body removal.
hh) Two (2) rear mounted work lights to illuminate spread pattern area.
ii) The spinner chute assembly to be of 201 stainless steel heavy duty construction, with a minimum of 4 position telescopic adjustments for 28"-38 below mounting surface. Two baffles to be positioned at the bottom of the spinner chute to direct flow of materials onto the spinner disc for directional spread pattern adjustment. Pattern adjustment baffles to have 5 positions of adjustment without the use of tools. The stainless steel or poly spinner disc is to be 20" in diameter and have replaceable machined hub and replaceable spinner vanes. Spinner hydraulic motor to be top mounted. A stainless steel spinner bypass chute to be provided that allows for the unloading of material, when pivoted down the chute shall offer complete bypass of the spinner, when in the up position the chute becomes part of the enclosed spinner chute allowing material to the spinner.
i) LED All-in-one stop, turn, and taillights, and separate back-up lights shall be shock mounted in the rear corner post of the dump body.
j) Tail, signal, brake light assembly to be mounted below the strobe lights, with the back-up lamp being mounted below the combination lamp. (as pictured below) Body to include all necessary LED marker/clearance lights, recessed and/or guarded to prevent damage.

k) Rear Body safety lights Amber left side, Blue right side, Class 1 LED strobes, Head Assemblies to be mounted approximately seven (7) feet above ground level in rear corner posts.
l) Cab Shield Top Mounted: Street Side Forward Corner Edge Mounted Class 1 LED Amber Beacon, Curb Side Forward Corner Edge Mounted and Class 1 LED Blue Beacon.
m) One (1) each solid state electronic flasher/controller shall be installed on the rear cab wall behind passenger seat area at least two inches off the floor. This flasher allows for synchronization of all four or six amber and blue LED warning lights on the vehicle with intermittent blue/amber flash. Lighting that is programmable but does not require a control unit would also be acceptable.
n) One (1) each HI/OFF/LOW switch shall be installed in the cab in a location acceptable to the State DOT.
o) Switches shall be connected to the OEM up-fitter switches in the dash as shown in 5.30
p) OPTIONAL ORDER: Pole mounted Amber/Blue LED 360 degree beacons, option would include the lights mounted on a removable pole that would slide into a mount on the upper side rear of the body, these will utilize a quick disconnect that will enable them to be moved to a chassis mounted sander is desired.

5.15 Optional Order Pre-Wet System for Muni-Body:

a) (1) One 230 gallon polyethylene driver side tank with all mounting brackets, hardware, and fittings.
b) (1) One 165 gallon polyethylene passenger side tank with all mounting brackets, hardware, and fittings.
c) 8.2 GPM liquid pump with flow meter mounted on passenger rear of tank.
d) Driver operated controls.

e) Drive system components mounted in sealed corrosion resistant fiberglass housing with stainless steel cover and hinges.
f) 5" tethered fill cap, quick couple fittings and internal baffles in both tanks.

5.16 .Optional Order Top Grate Screens for Muni-Body:

a) Set of hinged, with a minimum 3/8" welded rod heavy duty mesh screens. Screens to be designed to keep larger clumps of materials out of the spreader hopper.

5.17 Optional Butt Plate, Pintle Hitch, and Chip Spreader Hitch Bar:

a) Butt plate and pintle hitch rated for GTW 100,000 lbs. minimum, face of butt plate to be mounted flush with the end of the frame. Butt plate to also include safety chain "D" rings and a 7-pin electrical connection on the left side of the plate, close to the frame rail. The plate is to include air supply glad hands, one on each side of the pintle hitch at outer edges of plate. Air supply lines, hydraulic connections and electrical connections are to include protective covers with attached chains to prevent loss when uncovered.
b) Pintle hitch to be air adjusted coupling, with type 30 air chamber, minimum 20,000 LBS. tongue weight and a minimum 60,000 LBS. latch capacity mounted to the butt plate with fasteners rated for the maximum capacity as stated. Air cushion on the pintle is to be activated by emergency brake release. The Mounting Height: To be approximately 31 inches from bottom of saddle to level ground, not loaded.
c) Final design to be approved by State of Alaska prior to production of 1st unit.
d) **Chip Spreader Hitch Bar:** Class V style or similar receiver hitch type system that is designed into the butt plate that has an adjustable length (8" to 18" approximately) stinger type assembly to be inserted into butt plate with a chip spreader hitch bar attached to it, making it easier to hook a chip spreader machine to the truck. The chip spreader hitch bar is to be bolted to a stinger assembly. Vertical clearance between the receiver style system and the butt plate is to be a minimum of 7.5 inches. This clearance is required for the hitch itself. The bar is to be 1¾ (1.75) inch in diameter and have an inside bar length of 13 inches and is to be centered 14 inches above level ground, unloaded dump box The truck frame, butt plate and hitch bar to be sufficiently reinforced to prevent bending when truck is towed backward by the chip spreader. Final design to be approved by State of Alaska before production.

5.18 Optional Tow Plow Connection Lines:

a) Hydraulic pressure and return lines with a minimum of 32 GPM flow rate to be run from the hydraulic valve control box to the butt plate area with full flow quick connect fittings chained and capped at the butt plate.
b) Cab operated ON/OFF section switch.
c) Tow Plow – On/Off valve assembly 32 GPM PVG32.
d) Second 7 pin connector with strobes and electrical connection run to butt plate of chassis.

5.19 Optional Underbody Oscillating 12' Scraper Blade and Mount:

a) Henderson SNO-FOE OSC.
b) 12 foot blade, offset to passenger side for wing overlap.
c) 20 inch blade height.
d) 1 inch blade thickness with offset.
e) (2) 6'x 5/8"x8" double bevel cutting edges with AASHTO punching of (3-3-6-6-6-6-6-6-6-6-6-6-3-3-3-3-6-6-6-6-6-6-6-6-6-6-3-3).

f) 1 inch thick circle plate.
g) Dual reversing cylinders 4-12.5 nitrided.
h) 5/8" formed plate hanger board.
i) Lift cylinders 3.5-9, nitrided.
j) Trip spring integral lift cylinder.
k) Grip strut step on moldboard.
l) RH & LH lifer assemblies including cylinder 4-4, 2.0 DA nitrided.
m) Welded stops to prevent any contact with truck at any point.
n) Painted black with black moldboard.
o) LED small amber flashing strobe at end of blade to be guarded or protected from damage.
p) (2) LED or other spotlight minimum 2,000 lumens, adjustable, rubber housing mounted, located on each side of truck, approximately level with top of frame, on lower rear corner of cab areas with lights directed onto blade. Wired to on/off up-fitter switch in dash.
q) A fluorescent orange plow marker shall be attached to the top of the blade moldboard heel to delineate the outside edge of the blade.

5.20 Optional Underbody Non-Oscillating 12' Scraper Blade and Mount:

a) Henderson SNO-FOE UBS.
b) 12 foot blade, offset to passenger side for wing overlap.
c) 20 inch blade height.
d) 1 inch blade thickness with offset.
e) (2) 6'x 5/8"x8" double bevel cutting edges with AASHTO punching of (3-3-6-6-6-6-6-6-6-6-6-6-3-3-3-3-6-6-6-6-6-6-6-6-6-6-3-3).
f) 1 inch thick circle plate.
g) Dual reversing cylinders 4-12.5 nitrided.
h) 5/8" formed plate hanger board.
i) Lift cylinders 3.5-9, nitrided.
j) Trip spring integral lift cylinder.
k) Grip strut step on moldboard.
l) Welded stops to prevent contact with truck at any point.
m) Painted black with black moldboard.
n) LED small amber flashing strobe at end of blade to be guarded or protected from damage.
o) (2) LED or other spotlight minimum 2,000 lumens, adjustable, rubber housing mounted, located on each side of truck, approximately level with top of frame, on lower rear corner of cab areas with lights directed onto blade. Wired to on/off up-fitter switch in dash.
p) A fluorescent orange plow marker shall be attached to the top of the blade moldboard heel to delineate the outside edge of the blade.

5.21 Optional Mid Mount Right Hand Mount 9' Patrol Wing:

a) Henderson SNO-FOE Mid-Mount PW9.
b) Rear brace between rear axles.
c) Right hand side mounted.
d) Non trip moldboard.
e) 1 shock brace, 1 standard brace.
f) 9 foot cutting edge.
g) 5/8"x8" cutting edges with AASHTO punching of (3-3-6-6-6-6-6-6-6-6-6-6-3-3-3-3-6-6-6-6-6-6-6-6-6-6-3-3).
h) 7 gauge grade 50 curved moldboard.
i) Moldboard height & shape: 27" inlet/37" discharge tapered.
j) Moldboard Discharge: 12" flare on discharge with bead.
k) Moldboard bottom angle: 4 x 4.75 bottom angle.
l) Moldboard top flange J-Break top flange.

m) Two moldboard horizontal stiffeners.
n) Moldboard center lift eye.
o) Front Mast Type: 18" lift/21" cylinder hydraulic front mast.
p) Front Mast Mount: Front cross tubes & cheek plates.
q) Rear Support Mast: Below truck frame rear support.
r) Moldboard braced heel lift.
s) Heel lift holding valve.
t) Paint: Orange Moldboard with black frame work
u) One (1) each approximately 6" diameter, or comparable surface area rectangular, LED spotlight minimum 2,000 lumens, adjustable, rubber housing mounted, located on the upper rear post with light directed onto a working position blade.
v) Also to include one (1) LED amber color beacon light, and one (1 LED blue color beacon light stacked one on top of other (amber bottom, blue on top) viewable from rear to be located on the rear outside end of the blade in a protective housing. All lighting wiring to utilize a quick disconnect for ease of removal when removing wing assembly in the off season.
w) A fluorescent orange plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing.

5.22 Optional Rear Mount Right Hand Mount 9' Patrol Wing:

a) Henderson SNO-FOE Rear Mount PW9.
b) Rear brace behind rear axles.
c) Right hand side mounted.
d) Non trip moldboard.
e) 1 shock brace, 1 standard brace.
f) 9 foot cutting edge.
g) 5/8"x8" cutting edges with AASHTO punching of (3-3-6-6-6-6-6-6-6-6-6-6-3-3-3-3-6-6-6-6-6-6-6-6-6-6-3-3).
h) Moldboard: 7 gauge grade 50 curved.
i) Moldboard height & shape: 27" inlet/37" discharge tapered.
j) Moldboard Discharge: 12" flare on discharge with bead.
k) Moldboard bottom angle: 4 x 4.75 bottom angle.
l) Moldboard top flange J-Break top flange.
m) Two moldboard horizontal stiffeners.
n) Moldboard center lift eye.
o) Front Mast Type: 18" lift/21" cylinder hydraulic front mast.
p) Front Mast Mount: Front cross tube & cheek plates.
q) Rear Support Mast: Below truck frame rear support.
r) Moldboard braced heel lift.
s) Heel lift holding valve.
t) Paint: Orange Moldboard with black frame work.
u) One (1) each approximately 6" diameter, or comparable surface area rectangular, LED spotlight minimum 2,000 lumens, adjustable, rubber housing mounted, located on the upper rear post with light directed onto a working position blade.
v) Also to include one (1) LED amber color beacon light, and one (1 LED blue color beacon light stacked one on top of other (amber bottom, blue on top) viewable from rear to be located on the rear outside end of the blade in a protective housing. All lighting wiring to utilize a quick disconnect for ease of removal when removing wing assembly in the off season.
w) A fluorescent orange plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing.

5.23 Optional Rear Right Hand Mount 9' Benching Wing:

a) Henderson SNO-FOE Rear Mount Benching BW9.

b) Rear brace behind rear axles.
c) Right hand side mounted.
d) Non trip moldboard.
e) 1 shock brace, 1 standard brace.
f) 9 foot cutting edge.
g) 5/8"x8" cutting edges with AASHTO punching of (3-3-6-6-6-6-6-6-**6**-6-6-6-3-3-3-3-6-6-6-6-6-6-6-6-6-6-3-3).
h) Moldboard: 7 gauge grade 50 curved.
i) Moldboard height & shape: 27" inlet/37" discharge tapered.
j) Moldboard Discharge: 12" flare on discharge with bead.
k) Moldboard bottom angle: 4 x 4.75 bottom angle.
l) Moldboard top flange J-Break top flange.
m) Two moldboard horizontal stiffeners.
n) Moldboard center lift eye.
o) Front Mast Type: 48" lift/52" cylinder hydraulic front mast.
p) Front Mast Mount: Front cross tube & cheek plates.
q) Rear Mast: 34" Lift.
r) Moldboard braced heel lift.
s) Heel lift holding valve.
t) Paint: Orange Moldboard with black frame work.
u) One (1) each approximately 6" diameter, or comparable surface area rectangular, LED spotlight minimum 2,000 lumens, adjustable, rubber housing mounted, located on the upper rear post with light directed onto a working position blade.
v) Also to include one (1) LED amber color beacon light, and one (1 LED blue color beacon light stacked one on top of other (amber bottom, blue on top) viewable from rear to be located on the rear outside end of the blade in a protective housing. All lighting wiring to utilize a quick disconnect for ease of removal when removing wing assembly in the off season.
w) A fluorescent orange plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing.

5.24 Optional Front Plow Hitch System:

a) Henderson Manufactured AKDOT System As per specification and engineered drawing.
b) System will include a Storm Guard #SC04090141 manual release valve to ease removal and installation of plow to the hydraulic system.
c) The plow hitch system is to be a parallel lift tailored heavy-duty plow hitch assemblies only, for mounting to existing State plows. Unit will experience high impact and shock loading. Ensure geometry of hitch lift arms and rams prevent ram from bottoming or over extending. The standard lift arm is 18 inches in length. To be double acting cylinder, barrel to be four (4) inch minimum inside diameter and provide a ten (10) inch stroke. Hitch vertical frame to be located as close to radiator as possible and include all necessary components. To include a free standing design grill, separate frame extension bolted to main frame is not acceptable. Hitch system is to be equipped with all hydraulics, lift arms and components to match to existing state owned plows.
d) Welding: All welding to meet American Welding Society specifications, Structural Welding Code, D.1.1 (current editions).

5.25 Optional Order Manually Extended Arm System:

a) Manually extended lift arm capable of extending from 18 inches to 24 inches.

5.26 Optional Snow Plow Headlight and Driving Lighting Kit:

a) The snow plow lighting package is to be installed on the trucks front hood/fender area. Parts and installation to include all, brackets, hardware, wiring, switches and quick disconnect connector at the harness end.
b) Plow lights to be Nite Saber II four headlamp system lights wired into the OEM truck headlight switch, there is to be a dash mounted switch with magnetic relay to change from plow lights to truck lights and back unless provided by OEM

chassis (switch location to be above or next to the headlight switch in the dash).

c) System shall include a set of "Moose Lights/Driving Lights" to be LIGHT-FORCE Model RMDL-240 Mounted on same bracket as the headlamp lights described above. Lights to be switch relay connected into the chassis OEM high/low beam light switch.

d) The OEM chassis will be delivered to the up-fitter with a plow lighting wiring harness that runs into the under hood area. All wiring must be run and connections sealed in accordance with best practice industry standards.

OPTIONAL ORDER ITEM

e) One (1) Remote controlled high beam HID spot light to be used as a right side line of sight light when plowing cab roof mounted. (Go Light HID STRYKER style with 12% beam angle, remote to be dash mounted).

5.27 Optional One-Way, Hi-Speed Plow with Rigid Fixed Angle, Air Foil and Rubber Tired Casters:

a) WAUSAU Model RG-32100-A.
b) Moldboard Width: 12' 10".
c) Cutting Edge Width: 10' @ 37 degrees.
d) Moldboard Offset: 51" from center of the clearing path to the intake, and 69" to the discharge end.
e) Nose Height: 30".
f) Discharge Height: 61".
g) Moldboard Thickness: 10 gauge steel.
h) Poly Liner Moldboard: 3/8" polyethylene sheet.
i) Air Foil: Steel frame with polyethylene.
j) Tires: 15" 8 ply rubber tires with steel fenders.
k) Landslide Plate: With wear shoes at intake.
l) Cutting Edge: Consists of three (3) 4-foot sections, bolt on, replaceable with AASHTO punching of (3-3-6-6-6-3-3-3-3-6-6-6-3-3-3-3-6-6-6-3-3).
m) Parallelogram: Consists of lower push frame with special Alaska oscillator and upper toggle assembly.
n) Lift Chains: Spectrum 7, with minimum 11,300 lb. working load.
o) Estimated Plow Weight: 3200 lbs.

5.28 Optional Reversible Hi-Speed Expressway Plow with Flared Right Hand Side:

a) HENDERSON Model RSP-RH Flare.
b) Length: 12' Moldboard with RH flare.
c) Height: 48" Moldboard.
d) Shield: Integral shield moldboard.
e) Material: 10 gauge grade 5 moldboard.
f) Trip Type: Slotted Trip.
g) Push Frame: 4x4.75 semi-circle angle, ½" push tube, (2) 1-1/4" sloped trip plates for push frame, rollers and pins, moldboard to push frame struts.
h) Reversing Cylinders: Nitrided 3" x 1 ½".
i) Cushion Valve: Standard.
j) Hose Kit: Standard Hose Kit.
k) Cutting Edge: 5/8" x 8" cutting edge with AASHTO punching of (3-3-6-6-6-3-3-3-3-6-6-6-3-3-3-3-6-6-6-3-3).
l) Running Gear: Mushroom shoes.
m) Hitch: 30.5" pin, plow portion only installed at factory.
n) Wrap around curb guards.
o) 12" Rubber deflector.
p) Moldboard shoes pair 8".
q) Bolt on rub rail.
r) Shear safety stop.
s) Paint: Standard Orange moldboard.

5.29 Optional Reversible Hi-Speed Expressway Plow with RH/LH Flare (Bowtie):

a) HENDERSON Model RSP-RH/LH Flare (Bowtie).
b) Length: 12' Moldboard with RH and LH flare.
c) Height: 48" Moldboard.
d) Shield: Integral shield moldboard.
e) Moldboard Material: 10 gauge grade 5.
f) Trip Type: Slotted Trip.
g) Push Frame: 4x4.75 semi-circle angle, ½" push tube, (2) 1-1/4" sloped trip plates for push frame, rollers and pins, moldboard to push frame struts.
h) Reversing Cylinders: Nitrided 3"x1- ½".
i) Cushion Valve: Standard.
j) Hose Kit: Standard Hose Kit.
k) Cutting Edge: 5/8" x 8" cutting edge with AASHTO punching of (3-3-6-6-6-3-3-3-3-6-6-6-3-3-3-3-6-6-6-3-3).
l) Running Gear: Mushroom shoes.
m) Hitch: 30.5" pin, plow portion only installed at factory.
n) Wrap around curb guards.
o) 12" Rubber deflector.
p) Moldboard shoes pair 8".
q) Bolt on rub rail.
r) Shear safety stop.
s) Paint: Manufactures Standard moldboard.

5.30 OEM Dash Mounted Up-Fitter Switch Configuration:

a) The switch control layout configuration below is to be followed for all trucks

Amber/Blue Strobes On/Off	Driving/Moose Lights On/Off with Hi Beam On/Off	Driver's Side Plow Sight of Line Lights On/Off	Passenger Side Plow Sight of Line Lights On/Off	Belly Blade Lights On/Off
Behind Cab Work Light On/Off	Rear Sander Work Light	Blank for Tow Plow	Vibrate Function On/Off	Blank

SECTION SIX
ATTACHMENTS

6.01 Attachments

1. Attachment 2 - Standard Contract Form for Goods and Non-Professional Services
2. Attachment 3 - Appendix A[1]
3. Attachment 4 - Appendix B[1]
4. Attachment 5 – Contract Prices

Attachment 2
Standard Contract Form
Goods and Non-Professional Services

1. Agency Contract Number	2. Contract Title	3. Financial Coding	4. Agency Assigned Encumbrance Number
CA1835-14	SNOW PLOW TRUCK UP-FITTING	PER PURCHASE ORDER	PER PURCHASE ORDER
5. Vendor Number	6. Contract Term (One Year with Three Optional One year Extensions)		7. Alaska Business License Number
BSU84504	Term with Options - August 1, 2013 through July 31, 2017		261872

This contract is between the State of Alaska Department of Transportation / Public Facilities State Equipment Fleet HQ and Bob's Services Inc.

8. Department of	Division	
TRANSPORTATION / PUBLIC FACILITIES	STATE EQUIPMENT FLEET HQ	hereafter the State, and

9. Contractor

BOB'S SERVICES INCORPORATED — hereafter the Contractor

Mailing Address	Street or P.O. Box	City	State	ZIP CODE
2009 SPAR AVENUE		ANCHORAGE	AK	99501

10.

ARTICLE 1. Appendices: Appendices referred to in this contract and attached to it are considered part of it.

ARTICLE 2. Performance of Contract:

2.1 Section One through Section Five of contract
2.1 Appendix A[1] (General Conditions), Items 1 through 17, govern contract performance.
2.2 Appendix B sets forth the liability and insurance provisions of this contract.

ARTICLE 3. Period of Performance: The period of performance for this contract begins **August 1, 2013**, and **Ends July 31, 2014 and can be extended with (3) three, optional (1) one year renewals as mutual agreed between the State and Contractor**.

ARTICLE 4. Considerations:

4.1 In full consideration of the contractor's performance under this contract, the State shall pay the contractor for each State of Alaska DOT SEF issued purchase order and any amendments under this contract

4.2 When billing the State, the contractor shall refer to the Agency Purchase Order and Contract Number and send the billing to:

11. Department of Transportation/Public Facilities	Attention: State Equipment Fleet HQ
Mailing Address: 2200 E. 42nd Ave. Anchorage, AK. 99508	Attention: Contract #CA1835-14

12. CONTRACTOR	13. CONTRACTING AGENCY
Name of Firm BOB'S SERVICES INC.	Department/Division TRANSPORTATION / PUBLIC FACILITIES STATE EQUIPMENT FLEET HQ
Signature of Authorized Representative SIGNATURE ON ORIGINAL	Signature of Contracting Officer SIGNATURE ON ORIGINAL
Typed or Printed Name of Authorized Representative KEITH SKALSKY	Typed or Printed Name of Contracting Officer DUANE FELTON – CONTRACTING OFFICER II
Date 8/9/2013	Date 8/9/2013

Attachment 3
APPENDIX A[1]
GENERAL CONDITIONS

1. **Inspections and Reports:**
The department may inspect, in the manner and at reasonable times it considers appropriate, all of the contractor's facilities and activities under this contract. The contractor shall make progress and other reports in the manner and at the times the department reasonably requires.

2. **Suitable Materials, Etc.:**
Unless otherwise specified, all materials, supplies or equipment offered by the contractor shall be new, unused, and of the latest edition, version, model or crop and of recent manufacture.

3. **Disputes:**
Any dispute arising out of this agreement shall be resolved under the laws of Alaska. Any appeal of an administrative order or any original action to enforce any provision of this agreement or to obtain any relief from or remedy in connection with this agreement may be brought only in the superior court for the State of Alaska.

4. **Default:**
In case of default by the contractor, for any reason whatsoever, the State of Alaska may 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.

5. **No Assignment or Delegation:**
The contractor may not assign or delegate this contract, or any part of it, or any right to any of the money to be paid under it, except with the written consent of the Contracting Officer.

6. **No Additional Work or Material:**
No claim for additional supplies or services, not specifically provided in this contract, performed or furnished by the contractor, will be allowed, nor may the contractor do any work or furnish any material not covered by the contract unless the work or material is ordered in writing by the Contracting Officer.

7. **Independent Contractor:**
The contractor and any agents and employees of the contractor act in an independent capacity and are not officers or employees or agents of the State in the performance of this contract.

8. **Payment of Taxes:**
As a condition of performance of this contract, the contractor shall pay all federal, State, and local taxes incurred by the contractor and shall require their payment by any subcontractor or any other persons in the performance of this contract. Satisfactory performance of this paragraph is a condition precedent to payment by the State under this contract.

9. **Compliance:**
In the performance of this contract, the contractor must comply with all applicable federal, state, and borough regulations, codes, and laws, and be liable for all required insurance, license, permits and bonds.

10. Conflicting Provisions:

Unless specifically amended and approved by the Department of Law the General Conditions of this contract supersede any provisions in other appendices. The contractor specifically acknowledges and agrees that provisions in any form contracts it appends hereto that purport to (1) waive the State of Alaska's sovereign immunity, (2) impose indemnification obligations on the State of Alaska that are not conditioned on legislative appropriation, or (3) seek to limit liability of the contractor for acts of contractor negligence, are expressly superseded by this contract and are void.

11. Officials Not to Benefit:

Contractor must comply with all applicable federal or State laws regulating ethical conduct of public officers and employees.

12. Contract Prices:

Contract prices 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 for services must be 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.

13. Contract Funding:

Contractors 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. Force Majeure:

(Impossibility to perform) The contractor is not liable for the consequences of any failure to perform, or default in performing, any of its obligations under this Agreement, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the contractor. For the purposes of this Agreement, 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.

15. Contract Extension:

Unless otherwise provided, the State and the 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.

16. 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.

17. Continuing Obligation of Contractor:

Notwithstanding the expiration date of this contract, the contractor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.

APPENDIX B[1]
INDEMNITY AND INSURANCE

Article 1. Indemnification

5. 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.

Article 2. 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 Contracting Officer prior to beginning work and must provide for a notice of cancellation, nonrenewal, 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.

2.1 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.

2.2 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.

2.3 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.

Attachment 5
CONTRACT PRICES

5.03 Hydraulics Package for Dump/Plow Trucks----------$33070.00 with all plow up

5.04 Relocation of 116 Gallon Fuel Tank (behind cab mount) ----------$800.00

5.05 Dump Body 8 Cubic Yard
Henderson Mark E 12.5 with Standard Vertical Tailgate----------$21,627.00

5.05 Dual Pole Mounted Amber / Blue Warning Strobes (rear of dump body)----------$770.00

5.06 Sloped Style Standard Tailgate in Lieu of Standard Vertical----------$250.00

5.07 Asphalt Style Standard Tailgate in Lieu of Standard Vertical----------$200.00

5.08 Hydraulic Power Tailgate in Lieu of Standard Vertical----------$3,420.00

5.09 Slide in 8 Cubic Yard V-Box Spreader (for standard dump body) ----------$12,741.00

5.10 Self-Loading/Unloading Stainless Steel Leg Kit for 8 Cubic Yard Slide in Sander----------$3,775.00

5.11 Rear Deflector Wing for 8 Cubic Yard Slide in Sander----------$422.00

5.12 Pre-wet system for 8 Cubic Yard Slide in Sander----------$4,022.00

5.13 Top Grate Screens for 8 Cubic Yard Slide in Sander----------$1,715.00

5.14 Muni-body/Combination Dump Box/Sander (in lieu of standard dump body) ----------$31,928.00

5.14p Dual Pole Mounted Amber / Blue Warning Strobes (rear of dump body) ----------$770.00

5.15 Pre-Wet System for Muni-Body----------$3,289.00

5.16 Top Grate Screens for Muni-Body----------$1,926.00

5.17 Butt Plate, Pintle Hitch, and Chip Spreader Hitch Bar----------$3,328.00

5.18 Tow Plow Valve Section and Connection Lines----------$3,096.00

5.19 Underbody Oscillating 12' Scraper Blade and Mount----------$17,338.00

5.20 Underbody Non-Oscillating 12' Scraper Blade and Mount----------$11,867.00

5.21 Mid Mount Right Hand Mount 9' Patrol Wing----------$11,882.00

5.22 Rear Mount Right Hand Mount 9' Patrol Wing----------$12,271.00

5.23 Rear Right Hand Mount 9' Benching Wing----------$15,479.00

5.24 Front Plow Hitch System----------$3,015.00

Attachment 5 (Continued)
CONTRACT PRICES

5.25 Manually Extended Arm System----------No Charge

5.26 Snow Plow Headlight and Driving Lighting Kit----------$1,566.00

5.26 Cab Mounted Remote Control HID Spot Light----------$785.00

5.27 One-Way, Hi-Speed Plow with Rigid Fixed Angle, Air Foil and Rubber Tired Casters----------$20,411.00

5.28 Reversible Hi-Speed Expressway Plow with Flared Right Hand Side----------$9,313.00

5.29 Reversible Hi-Speed Expressway Plow with Right Hand and Left Hand Side----------$9,462.00

OPTIONAL UP-FITTING ITEMS
Other build configurations may be available if you require just a dump body with no additional plow hydraulics, or a tractor chassis equipped with 5th wheel package. Contact the Contracting Officer for more information