

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
CONTRACT FOR PROCUREMENT**

REQUEST FOR PROPOSAL TITLE: Snow Plow Truck Turnkey Package

REQUEST FOR PROPOSAL NO.: 065-30-17-050

This agreement is entered into between the state of North Dakota, acting by and through its Director of Transportation, hereinafter referred to as NDDOT, whose address is 608 East Boulevard Avenue, Bismarck, North Dakota, and Bert's Truck Equipment, hereinafter referred to as the Contractor, whose address is 3804 Hwy 75 North, Moorhead, Minnesota, 56560.

In consideration of the mutual covenants herein set forth, NDDOT and the Contractor agree as follows:

1. That in consideration of the payments to be made by NDDOT, the Contractor agrees to provide the services and/or goods in accordance and in conformity with this contract, the Contractor's proposal, dated May 24, 2017, NDDOT's request for proposal issued on April 19, 2017, and any purchase orders issued as a result of this contract. The Contractor's proposal, NDDOT's request for proposal, and any purchase orders are incorporated by reference herein. If discrepancies exist between the Contractor's proposal, and NDDOT's request for proposal, or this contract, NDDOT's request for proposal, and this contract shall govern.
2. NDDOT agrees to pay the Contractor for the work, when completed and accepted in accordance with this contract.
Payments are to be made upon presentation of an invoice by the Contractor, and by the terms of this contract.
3. The work shall be done pursuant to this contract, to the laws of the state of North Dakota, and to the satisfaction of NDDOT, in accordance with the rules and regulations made pursuant to state and federal law.
4. The Contractor, in employing and maintaining labor, shall do so in conformity with state and federal law and this contract.
5. Payments by NDDOT beyond the current state biennium shall be contingent on sufficient funds being appropriated by the Federal Government or State Legislature for the Department. In the event of insufficient appropriations in future bienniums, NDDOT may give a minimum of 30 days notice to terminate this agreement/contract and have no further obligation to the Contractor.
6. All work products and copyrights of the contract which result from this contract are the exclusive property of NDDOT.
7. Notwithstanding any rules regarding the choice of law or venue, it is agreed by the parties that this contract shall be governed by and construed in accordance with applicable Federal Law and the laws of the state of North Dakota, at the time this contract was executed. All disputes arising from this agreement shall be brought in the South Central District Court of the state of North Dakota.
8. This agreement constitutes the entire agreement between the parties. No waiver, consent, modification, or change of terms of this agreement shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification, or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this agreement. The Contractor, by the signature below of its authorized representative, hereby acknowledges that the Contractor has read this agreement, understands it, and agrees to be bound by its terms and conditions.



9. The terms of this agreement shall not be waived, altered, modified, supplemented, or amended, in any manner whatsoever, except by written instrument signed by the parties.
10. The Contractor shall not assign any portion of the work under this agreement, execute any contract, or obligate itself in any manner with a third party with respect to its rights and responsibilities to this agreement without written consent of NDDOT. Any agreement with a subcontractor does not create a contractual relationship between the NDDOT and the subcontractor.
11. The Contractor shall not assign nor transfer the contractor's interests or duties under this agreement without the express written consent of the state.
12. The Contractor agrees to comply with all applicable laws and rules, including, but not limited to, those relating to nondiscrimination, accessibility, and civil rights.
13. The Appendices A and E of the Title VI Assurances, attached, are hereby incorporated into and made a part of this agreement.
14. Termination
 - a. This contract may be terminated by mutual consent of both parties, or by either party upon 30 days' notice, in writing and delivered by certified mail or in person.
 - b. In addition, NDDOT may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by NDDOT, under any of the following conditions:
 - i. If NDDOT funding from federal, state, or other sources is not obtained and continued at levels sufficient to allow for purchase of the indicated quantity of services. The contract may be modified by agreement of the parties in writing to accommodate a reduction in funds.
 - ii. If federal or state regulations or guidelines are modified, changed, or interpreted in such a way that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.
 - iii. If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by the contract is for any reason denied, revoked, or not renewed.

Any such termination of this contract under (i), (ii), or (iii), above, shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

 - c. NDDOT, by written notice to the Contractor, may terminate the whole or any part of this agreement.
 - i. If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof; or
 - ii. If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from NDDOT, fails to correct such failures within ten days or such longer period as NDDOT may authorize.
15. The Risk Management Appendix, attached, is hereby incorporated into and made a part of this agreement.



16. This agreement becomes effective when all parties have signed and it shall terminate on 12/31/2018.

EXECUTED the date last below signed.

WITNESS:

JEFFREY T. DANGERFIELD
NAME (TYPE OR PRINT)

Jeffrey T. Dangerfield
SIGNATURE

To be signed by Owner, Partner, Corp. Pres., Vice Pres., or other authorized Corp. Officer. (If signed by other authorized Corp. Officer, please attach copy of Power of Attorney or other documentation showing authority to sign.)

CONTRACTOR:

Jeremy K. Gregoire
NAME (TYPE OR PRINT)

Jeremy K. Gregoire
SIGNATURE

President
TITLE

6-13-17
DATE

WITNESS:

Sandra Hoebel
NAME (TYPE OR PRINT)

Sandra Hoebel
SIGNATURE

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

RONALD J. HENKE
DIRECTOR (TYPE OR PRINT)

Ronald J. Henke
SIGNATURE

6/15/17
DATE

APPROVED as to substance by:

Robin Rehborg
DIVISION DIRECTOR (TYPE OR PRINT)

Robin Rehborg
SIGNATURE

6-15-17
DATE

CLA 1043 (Div. 50)
L.D. Approved 2-17-05; 10-14

APPROVED as to execution this
15 day of June 20 17
ATTORNEY GENERAL
By *[Signature]*
SPECIAL ASST. ATTORNEY GENERAL



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX A OF THE TITLE VI ASSURANCES**

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees as follows:

1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. Information and Reports: The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Recipient or the Federal Highway Administration as appropriate, and will set forth what efforts it has made to obtain the information.
5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX E OF THE TITLE VI ASSURANCES**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).





TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

May 24th, 2017

Vanessa Brosten
North Dakota State Fleet
608 East Boulevard Avenue
Bismarck, ND 58505-0700

Dear Vanessa:

Bert's Truck Equipment is pleased to submit the following **"Cost Proposal"** for the for the State of North Dakota "Turnkey Snow Plow Truck Equipment" for your 2017 and 2018 calendar year.

For the past 78 years, Bert's Truck Equipment has provided our customers with the highest quality equipment backed by years of professional installations. Because we have been building "turnkey" plow trucks for over 29 years, we have an in-depth knowledge and understanding of the upcoming project, and the highly skilled staff to meet the states expectations and requirements.

Bert's Truck Equipment is proud to be a long time member in good standing of the National Truck Equipment Association.

Please feel free to contact me if you have any questions or concerns regarding our proposals. We look forward to serving the North Dakota Department of Transportation's equipment needs!

Sincerely,

Jim McLaughlin
Commercial, Fleet, and Government Sales

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

Production Schedule 2017-2018

Bert's Truck Equipment understands the importance of the North Dakota's Department of Transportations need to have the turn key snowplow trucks completed on time with little or no re-work required. We have always prided ourselves with the highest quality installation and timely delivery. We are a certified "MVP" installer as recognized by the National Truck Equipment Association. It is with this understanding that we propose the timeline for completion of the state's plow trucks.

Time per chassis

Bert's Truck Equipment would complete the 17-18 chassis per build in 108 Calendar days from the time the first chassis is delivered to us and all necessary components are available for installation. The estimated starting date would be Tuesday September 5th, 2017 (Sooner if components are available)

We feel that this schedule is reasonable and allows adequate time to complete each unit yet insure the highest quality workmanship. Any add on units could be completed in a 7 day turn around.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

FAX (218) 233 9548

1-800-232-3787

3804 HWY 75 NORTH

MOORHEAD, MN 56560

jimmc@bertsonline.com

#1 = 1,763,456

#2 = 1,905,453

✱

RFP Number: 065-30-17-050

Proposal Response Sheets

Alternate Bid using
Falls SCL-10A PL wing
"Post Less wing"

TURNKEY PACKAGE ITEM #1

F install 14' dump & spreader box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear-mount snow wing and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2ADSUBW SSP-01	14' dump & spreader box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$ 82,106 ⁰⁰
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$ 11,345 ⁰⁰
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$ 11,880 ⁰⁰
SSP-95-5700-4	400 gallon hopper pre-wet system furnished and installed. Bonne 11 540 Gallon	\$ 5135 ⁰⁰
Total package price each.		\$ 110,466 ⁰⁰
Package price x 18 = Total Contract Price for Package #1		\$ 1,988,388 ⁰⁰

TURNKEY PACKAGE ITEM #2

Purchase price and labor to install 14' dump box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear mount snow wing, tailgate sander, box vibrator, and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2AUBW SSP-01	14' dump box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$ 67,282 ⁰⁰
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$ 11,345 ⁰⁰
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$ 11,880 ⁰⁰
SSP-95-2400-4	Tailgate sander furnished and installed.	\$ 5110 ⁰⁰
SSP-95-5700-10	150 gallon tailgate pre-wet system furnished and installed.	\$ 3780 ⁰⁰
Box vibrator, Cougar model DC-3200, Tend Air model RV-3500 or approved equal, furnished and installed as per manufacturer's instructions with mounting and location to be approved by NDDOT.		\$ 890 ⁰⁰
Total package price.		\$ 100,287 ⁰⁰
Package price x 18 = Total Contract Price for Package #2		\$ 1,805,166 ⁰⁰

Truck Delivery Charges Per Unit for the Following Destinations:

Bismarck - \$ 270⁰⁰Dickinson - \$ 390⁰⁰Valley City - \$ 90⁰⁰Grand Forks - \$ 100⁰⁰Devils Lake - \$ 230⁰⁰Williston - \$ 525⁰⁰Minot - \$ 360⁰⁰

Fargo - \$ 0

PROPOSED DELIVERY TIME FOR 16 UNITS IN 2017: 108 DAYS (AFTER RECEIPT OF CHASSIS)

PROPOSED DELIVERY TIME FOR 20 UNITS IN 2018: 120 DAYS (AFTER RECEIPT OF CHASSIS)

ITEM #3

Option: Purchase additional complete quick hitch assemblies with installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ 1990⁰⁰.

ITEM #4

Option: Purchase additional quick hitch assemblies without lift cylinder and with complete installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ 1720⁰⁰.

ITEM #5

Option: Purchase additional stainless steel tailgate spreaders with side shields, installation hardware, and as specified within for life of contract.

FOB: Bismarck, ND. Price each \$ 4230⁰⁰.

ITEM #6

Option: Force America 6100-3 lane programming package with individual loose wires for lane selection. Truck portion of trailer anti-ice wiring harness. All necessary hydraulic plumbing with stucchi couplers to connect to the trailer at the rear of truck.

Price each installed \$ 2725⁰⁰. *option deduct stucchi coupler - \$ 1250⁰⁰*

ITEM #7

Option: Force America 5 joystick controller and 2 additional valve sections with all necessary hydraulic plumbing and couplers needed to connect to the tow plow at the right rear of truck.

Price each installed \$ 5490⁰⁰.

ITEM #8

Option: Purchase additional 14' stainless steel dump/spreader box with cylinder, brine tanks, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ 36,402⁰⁰.

ITEM #9

Option: Purchase additional 14' stainless steel dump box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ 16,579⁰⁰.

ITEM #10

Option: Purchase dual auger w/stainless steel cover plate and vibrator in lieu of conveyor chain on dump/spreader box.

Add/Deduct \$ 3425⁰⁰.

ITEM #11

Option: Mounting/hardware for dual wing.

Add/Deduct \$ 1700 aug Proposal

ITEM #12

Option: Purchase addition Paraglide type wing post and counterbalance valve with complete installation hardware for life of contract.

FOB: Bismarck, ND Price each w/o labor \$ 4160⁰⁰.

ITEM #13

Option: Purchase heavy duty flatbed to support brine tank, approximately 8'Wx17.5'L, stake pockets, rub rails, treadplate floor and countersunk LED lighting. With bulkhead. E-coated premier and painted black with hardener or powder coated.

FLATBED MAKE: Knapheide

MODEL: PHHJ-183B

FOB: Fargo, ND. Price w/o labor \$ 5485⁰⁰.

ITEM #14

Option: Purchase additional 304 stainless steel tailgate spreaders that mounts to a dump/spreader style box, direct drive, single auger, 8" round drop shoots 3.5" long on both ends of sander and with complete installation hardware for the life of contract. Monroe MS969 or approved equal.

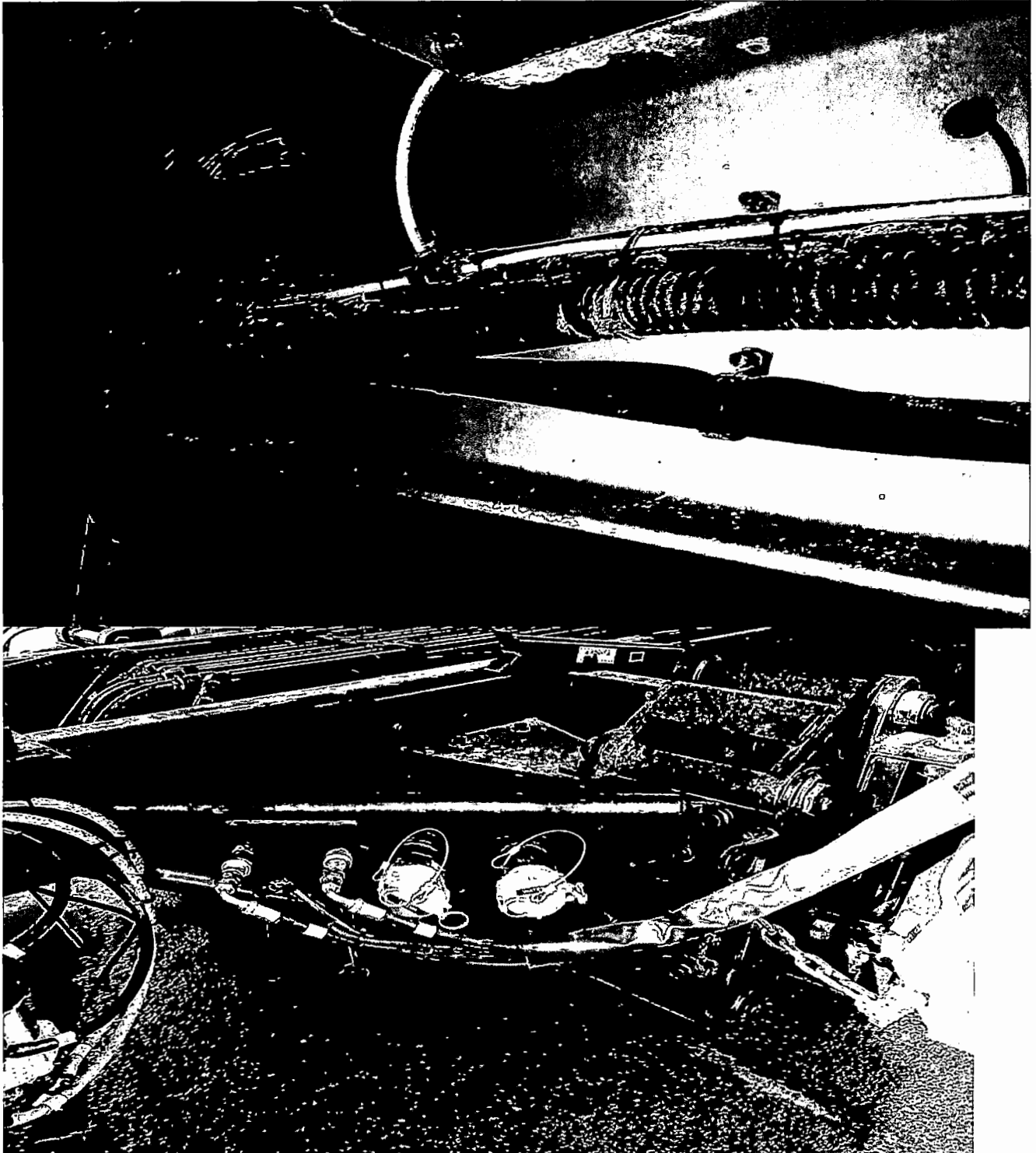
FOB: Fargo, ND. Price each w/o labor \$ No Bid

Price each includes installation, plumbed and wired for auger reverse \$ No Bid

ITEM #15

Option: Truck wash system installed on the inside of truck frame rail consisting of 1.25" Kanaflex 390 (EDPM rubber, polyethylene helix, synthetic braid, smooth bore, corrugated OD or equal) popularly secured. 2" male inlet and outlet adaptor mounted on wing support with dust covers.

Price each installed \$ 785⁰⁰



Receipt of the following addenda to the RFP, by date, is acknowledged:

Amendment # 1 5-10-17

SIGNED: Jeremy K. Gregoire

FULL NAME: Jeremy Kent Gregoire
(Please Print)

TITLE: President

FIRM NAME: Bert's Truck Equipment of Moorhead, Inc

FIRM ADDRESS: Po Box 336, Moorhead, MN 56561-0336

FIRM PHONE NUMBER: 218-233-8681 FIRM FAX NUMBER: 218-233-9548

EMAIL ADDRESS: Jeremy@bertsonline.com

Proposals must remain open and valid for at least 90 DAYS from the deadline specified for submission of proposals. Proposals may be withdrawn at any time prior to proposal opening date.

The signatory agrees that the NDDOT has the right to reject any or all proposals for any reason.

STATE OF NORTH DAKOTA

**North Dakota Department of Transportation
State Fleet Services
608 East Boulevard Avenue
Bismarck, ND 58505-0700**

Request For Proposal (RFP)

RFP Title: Snow Plow Truck Turnkey Package

RFP Number: 065-30-17-050

Date of Issue: 4/19/17

Purpose of RFP:

The North Dakota Department of Transportation, State Fleet Services, is soliciting proposals for the purchase and installation of approximately 16 turnkey snow and ice control truck packages beginning in September 2017 to be completed for the 2017-2018 winter season and an additional order of approximately 20 snow and ice control turnkey truck packages to be completed in 2018 for the 2018-2019 winter season.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the extreme adverse winter weather conditions experienced while performing snow removal from the North Dakota state highway system.

The units shall include features which are regularly featured as standard production. The units shall conform in strength, quality of material, and workmanship to that provided by the best manufacturing and engineering practices of the industry.

Offerors shall represent, by proposals submitted, that the equipment is new, current model year, completely assembled, painted, tested, and ready for operation.

Offerors shall provide, in their proposals, complete equipment specifications, manufacturer brochures, a list of three users with letters of reference, phone numbers of contact persons, warranties, parts and service location, detailed list of optional equipment and accessory prices, and proposed delivery schedule.

**Procurement Officer: Vanessa Brosten
PHONE: 701-328-4466
FAX: 701-328-0310
E-MAIL: vbrosten@nd.gov**

Offerors are not required to return this form.

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SECTION ONE INTRODUCTION AND INSTRUCTIONS

1.01

Purpose of the RFP

The North Dakota Department of Transportation, State Fleet Services, hereafter known as "purchasing agency" is soliciting proposals for the purchase and installation of approximately 16 snow and ice control turnkey truck packages beginning in September 2017 to be completed for the 2017-2018 winter season and an additional order of approximately 20 snow and ice control turnkey truck packages to be completed in 2018 for the 2018-2019 winter season. These numbers are approximate and NDDOT reserves the right to add or delete from these numbers based upon budget authority and need.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the adverse weather conditions experienced while performing snow removal from the North Dakota state highway system.

1.02

Contact Personnel, Telephone, Fax, E-mail

The procurement officer is the point of contact for this RFP. All vendor communications regarding this RFP must be directed to the procurement officer. Unauthorized contact regarding the RFP with other State employees of the purchasing agency may result in the vendor being disqualified, and the vendor may also be suspended or disbarred from the state bidders list.

PROCUREMENT OFFICER: **Vanessa Brosten**
PHONE: **701-328-4466**
FAX: **701-328-0310**
TTY Users call: 7-1-1
E-MAIL: vbrosten@nd.gov

PROJECT MANAGER: **Tim Paul**
PHONE: **701-328-1465**
FAX: **701-328-2514**
TTY Users call: 7-1-1
E-MAIL: tpaul@nd.gov

1.03

RFP Schedule

This schedule of events represents the State's best estimate of the schedule that will be followed for this RFP. If a component of this schedule, such as the deadline for receipt of proposals, is delayed, the rest of the schedule will be shifted by the same number of days.

The approximate RFP schedule is as follows:

- RFP Issued: **4/19/2017**
- Deadline for receipt of questions and objections related to the RFP: **5/4/2017**
- Responses to questions / RFP amendments (if required) **5/9/2017**
- Proposals due by: **5/23/2017**
- Proposal Evaluation Committee evaluation completed by approximately : **6/1/2017**
- State issues Notice of Intent to Award a Contract approximately: **6/2/2017**
- State issues contract approximately: **6/12/2017**
- Contract start: **6/19/2017**

1.04

Return Mailing Address and Deadline for Receipt of Proposals

Offerors must submit in 3 ring binders with indexing, ONE ORIGINAL (1) AND FOUR COPIES (4) of its proposal without pricing in a sealed envelope or package.

ONE (1) cost proposal is to be submitted in a separate sealed envelope or package, clearly labeled "cost proposal."

Envelopes or packages containing proposals must be clearly addressed as described below to ensure proper delivery and to avoid being opened by the State before the deadline for receipt. Envelopes or packages must be addressed as follows:

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
FINANCIAL MANAGEMENT, PROCUREMENT
RFP 065-30-17-050, SNOW PLOW TRUCK TURNKEY PACKAGE
608 EAST BOULEVARD AVENUE
BISMARCK, ND 58505-0700

Proposals must be received by the purchasing agency at the location specified no later than **3:00 P.M., CENTRAL**, on **May 23, 2017**. Proposals will not be publicly read at the opening.

Proposals may not be delivered orally, by facsimile transmission, by other telecommunication or electronic means. Offerors may fax or electronically transmit signed proposals to a third party who must deliver the proposal to the location indicated above by the date and time designated as the deadline for receipt of proposals.

Offerors assume the risk of the method of dispatch chosen. The State of North Dakota ("State") assumes no responsibility for delays caused by any delivery service. Postmarking by the due date will not substitute for actual proposal receipt by the State. An offeror's failure to submit its proposal prior to the deadline will cause the proposal to be rejected. Late proposals or amendments will not be opened or accepted for evaluation.

1.05

Assistance to Offerors with a Disability

Offerors with a disability that need an accommodation should contact the procurement officer prior to the deadline for receipt of proposals so that reasonable accommodation can be made.

1.06

Deadline for Receipt of Questions and Objections

Offerors must carefully review this solicitation, the contract, risk management provisions, and all attachments for defects, questionable, or objectionable material. All questions must be in writing and directed to the purchasing agency, addressed to the procurement officer, and cite the subject RFP number. The procurement officer must receive these written requests by the deadline specified in the RFP Schedule of Events to allow issuance of any necessary amendments.

This will also help prevent the opening of a defective solicitation and exposure of offeror's proposals upon which an award could not be made. Protests based on the content of the solicitation will be disallowed if these faults have not been brought to the attention of the procurement officer, in writing, before the time indicated in the Schedule of Events.

If the question may be answered by directing the questioner to a specific section of the RFP, then the procurement officer may answer the question over the telephone. Other questions may be more complex and may require a written amendment to the RFP. The procurement officer will make this determination. Oral communications is considered unofficial and non-binding on the State. The offeror must confirm telephone conversations in writing.

1.07

Approved Vendor Registration Requirements

VENDORS MUST BE APPROVED BEFORE CONTRACT AWARD

Proposals will be accepted from vendors that are not currently approved vendors on the State's bidders list; however, the successful offeror will be required to become approved prior to award.

To become an approved vendor, offerors must: 1) be registered with the North Dakota Secretary of State (fees apply), and 2) submit a completed Bidders List Application to the North Dakota Vendor Registry Office. Prospective offerors may access the Procurement Vendor Database on-line to verify whether their firm is currently on the bidders list. The bidders list that will be used for this solicitation is commodity code **065-30**.

The Procurement Vendor Database, registration instructions and forms are available on-line at: <http://www.nd.gov/spo/vendor/registry/>. Contact the Vendor Registry Office at 701-328-2683 or infospo@nd.gov for assistance.

The successful offeror must register and become approved within **60 CALENDAR DAYS** from the date of the Notice of Intent to Award. If an offeror fails to become approved by the time specified by the Procurement Officer, its proposal will be determined to be non-responsive, and its proposal will be rejected.

1.08

Pre-proposal Conference

No pre-proposal conference will be held for this RFP. Offerors are advised to carefully review the RFP and all attachments and submit all questions to the procurement officer by the deadline indicated for submission of questions in the schedule of events.

1.09

Amendments to the RFP

If an amendment to this RFP is issued, it will be provided to all offerors that were mailed a copy of the RFP and to those that have requested a copy of the RFP from the procurement officer. Amendments will also be posted to the State Procurement Website at www.nd.gov/spo.

1.10

News Releases

News releases related to this RFP will not be made without prior approval of the procurement officer or project manager designated by the State.

1.11

Notice Provided

Notice of this solicitation has been provided in accordance with N.D.C.C. § 54-44.4-09.

The Request for Proposal and any amendments to the RFP will be posted on the following website:

<http://www.nd.gov/spo/>

1.12

Letter of Interest

Vendors interested in receiving any notices related to this RFP are invited to contact the procurement officer with the name of their firm, contact person, mailing address, telephone number, fax number, and e-mail address. The sole purpose of the letter of interest is to provide the purchasing agency with a contact person to receive any notices related to the RFP. Submission of a letter of interest is not a requirement for submitting a proposal.

SECTION TWO BACKGROUND INFORMATION

2.01

Background Information

The North Dakota Department of Transportation, State Fleet Services is soliciting proposals for the purchase and installation of approximately 16 snow and ice control turnkey truck packages beginning in August 2017 to be completed for the 2017-2018 winter season and an additional order of approximately 20 snow and ice control turnkey truck packages to be completed in 2018 for the 2018-2019 winter season. These numbers are approximate and NDDOT reserves the right to add or delete from these numbers based upon budget authority and need.

The turnkey packages include dump bodies, hydraulic systems, emergency lighting, anti-icing, sanding, and snow removal equipment installed on NDDOT provided tandem axle truck chassis. It is relevant that the units meet the requirements to operate in the adverse weather conditions experienced while performing snow removal from the North Dakota state highway system.

The units shall include features, which are regularly featured as standard production. The units shall conform in strength, quality of material, and workmanship to that provided by the best manufacturing and engineering practices of the industry.

Offerors shall represent, by proposals submitted, that the equipment is new, current model year, completely assembled, painted, tested, and ready for operation.

Offerors shall provide, in their proposals, complete equipment specifications, manufacturer brochures, warranties, parts and service location, detailed list of optional equipment and accessory prices, a proposed delivery schedule, and a list of three users with letters of reference, phone numbers of contact persons.

SECTION THREE SCOPE OF WORK

3.01

Scope of Work/Specification Guidelines

NOTE: These guidelines are intended to provide offeror with a detailed description of the turnkey packages. The State of North Dakota realizes that manufacturers differ in their design, encourage the submission of more than one proposal, and will objectively review all proposals.

The "Snow Plow Turnkey Truck Package" specifications including additional terms & conditions for delivery schedule and project bonus for early completion are posted as a separate attachment and must be completed and included with the proposal.

The make, model and configuration of the truck chassis will be provided via addendum to proposal labeled "Chassis Specifications" approximately one to two weeks in advance of proposal opening to assist the offeror with planning and pricing.

3.02

Location of Work

The work is to be performed, completed, and managed at the vendor's location.

The State WILL NOT provide workspace for the contractor.

The offeror should include in its price proposal: Transportation, lodging, and per diem costs sufficient to pay for one or more person(s) to make the trips necessary to the specified delivery locations to deliver the completed units.

3.03 Prior Experience

No specific minimums have been set for this RFP; however experience will be weighted by the proposal review team.

3.04 Required Licenses

At the time specified by the deadline for submission of proposals, the offeror must have and keep current any professional licenses and permits required by federal, state, and local laws for performance of this contract. Offerors that do not possess required licenses at the time proposals are due will be determined non-responsive.

3.05 Federal Requirements

The offeror must identify all known federal requirements that apply to the proposal, the evaluation, or the contract.

3.06 Deliverables

The contractor will be required to provide the following deliverables;

- a. Approximately 36 snow plow trucks completed, inspected and approved by NDDOT and ready for operation
- b. Operating CDs and/or manuals including maintenance information wiring diagrams, and parts lists for equipment installed
- c. Minimum twelve month warranty

SECTION FOUR GENERAL CONTRACT INFORMATION

4.01 Contract Terms

The State intends to enter into a contract with an effective date beginning **6/19/2017** and ending **12/31/2018**.

4.02 Contract Type

This contract is a FIRM FIXED PRICE contract.

4.03 Standard Contract Provisions

The successful offeror will be required to sign and submit the contract attached to this RFP (Attachment 2). The contractor must comply with the contract provisions set out in this attachment. Any objections to the contract provisions must be set out in the offeror's proposal. No alteration of these provisions will be permitted without prior written approval from the purchasing agency.

Offerors are instructed to contact the procurement officer in writing by the deadline set for questions with any concerns regarding the contract provisions.

4.04 Proposal as a Part of the Contract

Part or all of this RFP and the successful proposal may be incorporated into the contract.

4.05

Additional Terms and Conditions

The State reserves the right to add, delete, or modify terms and conditions during contract negotiations. These terms and conditions will be within the scope of the RFP and will not affect the proposal evaluations.

4.06

Supplemental Terms and Conditions

Proposals including supplemental terms and conditions will be accepted, but supplemental conditions that conflict with those contained in this RFP or that diminish the State's rights under any contract resulting from the RFP will be considered null and void. The State is not responsible for identifying conflicting supplemental terms and conditions before issuing a contract award. After award of contract:

- (a) if conflict arises between a supplemental term or condition included in the proposal and a term or condition of the RFP, the term or condition of the RFP will prevail; and
- (b) if the State's rights would be diminished as a result of application of a supplemental term or condition included in the proposal, the supplemental term or condition will be considered null and void.

4.07

Contract Approval

This RFP does not, by itself, obligate the State. The State's obligation will commence when the purchasing agency approves the contract. Upon written notice to the contractor, the State may set a different starting date for the contract. The State will not be responsible for any work done by the contractor, even work done in good faith, if it occurs prior to the contract start date set by the State.

4.08

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 project manager designated by the State will provide the contractor a written description of the additional work and request the contractor to submit a firm time schedule 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 amendments.

The contractor will not commence additional work until the project director has secured any required State approvals necessary for the amendment and issued a written contract amendment, approved by the purchasing agency.

4.09

Indemnification and Insurance Requirements

Offerors must review the attached Risk Management Appendix for indemnification and insurance requirements. The indemnification and insurance provisions will be incorporated into the final contract.

Objections to any of the provisions of the Indemnification and Insurance Requirements must be made in writing to the attention of the procurement officer by the time and date set for receipt of questions. No alteration of these provisions will be permitted without prior written approval from the purchasing agency in consultation with the North Dakota Risk Management Division.

Upon receipt of the Notice of Intent to Award, the successful offeror must obtain the required insurance coverage and provide the procurement officer with proof of coverage prior to contract approval. The coverage must be satisfactory to the purchasing agency, in consultation with the North Dakota Risk Management Division. An offeror's failure to provide evidence of insurance coverage is a material breach and grounds for withdrawal of the award or termination of the contract.

4.10

Taxes and Taxpayer Identification

The contractor must provide a valid Vendor Tax Identification Number as a provision of the contract.

The State is not responsible for and will not pay local, state, or federal taxes. The State sales tax exemption number is E-2001, and certificates will be furnished upon request by the purchasing agency.

A contractor performing any contract, including service contracts, for the United States Government, State of North Dakota, counties, cities, school districts, park board or any other political subdivisions within North Dakota is not exempt from payment of sales or use tax on material and supplies used or consumed in carrying out contracts. In these cases, the contractor is required to file returns and pay sales and use tax just as required for contracts with private parties. Contact the North Dakota Tax Department at 701-328-1246 or visit its website at www.nd.gov/tax/ for more information.

A contractor performing any contract, including a service contract, within North Dakota is also subject to the corporation income tax, individual income tax, and withholding tax reporting requirements, whether the contract is performed by a corporation, partnership, or other business entity, or as an employee of the contractor. In the case of employees performing the services in the state, the contractor is required to withhold state income tax from the employees' compensation and remit to the state as required by law. Contact the North Dakota Tax Department at 701-328-1248 or visit its web site for more information

4.11

F.O.B. Point and Freight

All commodities purchased through this contract will be Free on Board ("F.O.B.") final destination, freight prepaid. Unless specifically stated otherwise, all prices offered must include the delivery costs to any location within the State of North Dakota. Title will pass to the State at destination, and the vendor will be responsible for any freight claims.

4.12

Proposed Payment Procedures

The State will make payments based on completed and inspected individual delivered units. Each billing must consist of an invoice including serial numbers of installed equipment, delivery location, and NDDOT assigned vehicle license number. No payment will be made until the project director has approved invoice.

4.13

Contract Funding

Approval or continuation of a contract resulting from this solicitation is contingent upon continuing appropriation. The contract may be terminated by the state or modified by agreement of both parties in the event funding from federal, state, or other sources is not obtained and continued at sufficient levels.

4.14

Payment Terms

No payment will be made until the purchasing agency approves the contract.

Payment for commodities and services received under contracts will normally be made within 30 calendar days after receipt and acceptance by the purchasing agency or after receipt of a correct invoice, whichever is later. Payment inquiries must be directed to the purchasing agency.

Prompt Payment Discount Terms offered by the contractor may be taken by the purchasing agency if payment is made within the specified terms.

4.15

Contract Personnel

The project manager designated by the purchasing agency must approve any change of the contractor's project team members named in the proposal, in advance and in writing. Personnel changes that are not approved by the State may be grounds for the State to terminate the contract.

4.16

Right to Inspect Place of Business

At reasonable times, the State may inspect those areas of the contractor's place of business that are related to the performance of a contract. If the State makes an inspection, the contractor must provide reasonable assistance.

4.17

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 project manager designated by the State. The State may employ all reasonable means to ensure that the work is progressing and being performed in compliance with the contract. Should the project manager determine that corrections or modifications are necessary in order to accomplish its intent; the project manager may direct the contractor to make changes. The contractor will not unreasonably withhold 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 monies paid (based on the identified portion of unacceptable work received) and may seek associated damages.

4.18

Termination for Default

If the project manager designated by the purchasing agency determines that the contractor has refused to perform the work or has failed to perform the work with 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.

This clause does not restrict the State's right to termination under the contract provisions of the Service Contract, attached.

4.19

Open Records Laws - Confidentiality

Any records that are obtained or generated by the contractor under this contract are subject to North Dakota open records law regarding public records and handling of confidential information.

4.20

Work Product, Equipment, and Material

All work product, equipment or materials created or purchased under this contract belong to the State and must be delivered to State at State's request upon termination of this contract, unless otherwise agreed in writing by the purchasing agency.

4.21

Assignment

Contractor may not assign or otherwise transfer or delegate any right or duty without the State's express written consent. However, the contractor may enter into subcontracts provided that the subcontract acknowledges the binding nature of this contract and incorporates this contract, including any attachments.

4.22

Disputes - Applicable Law and Venue

Any dispute arising out of this agreement will be resolved under the laws of the State of North Dakota.

SECTION FIVE EVALUATION CRITERIA AND CONTRACTOR SELECTION

THE TOTAL NUMBER OF POINTS USED TO SCORE THIS CONTRACT IS 100

5.01

Applicability and Specifications

Thirty five Percent (35%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Has the offeror demonstrated a thorough understanding of the applicability of the snow plow unit?
- [b] How well has the offeror presented the specifications and literature about their snow plow truck package with minimal specification deviations?
- [c] Has the offeror demonstrated an understanding of the deliverables the State expects it to provide?
- [d] Does the offer propose a delivery schedule that is acceptable to the State of North Dakota?
- [e] Is the proposal submitted responsive to all material requirements in the RFP?

5.02

Parts and Service

Ten Percent (10%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Does the offeror provide a means for prompt delivery of parts?
- [b] Does the offeror have a distributor for parts within ND or in a bordering city?
- [c] Does the offeror have a servicing vendor within ND or in a bordering city?
- [d] Does the offeror provide a means for prompt repair service and support for all delivery locations?

5.03

Product History, Experience and References

Ten Percent (10%) of the total possible evaluation points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

- [a] Does the offeror provide a good history of their products?
- [b] Does the offeror provide the minimum number of references as required in the specifications?
- [c] Are the referenced users satisfied with their existing units?
- [d] Has the offeror provided evidence of a high level of experience in the manufacturing and support of the product?

5.04

Warranty

Five Percent (5%) of the total possible points will be assigned to this criterion.

Proposals will be evaluated against the questions set out below:

[a] Does the offeror provide a prompt means to handle warranty repair?

[b] Does the warranty coverage meet the needs of the State of North Dakota?

[c] Does the offeror provide a vendor to handle warranty repairs within ND or a bordering city?

[d] Does the offeror provide follow up services to the eight delivery locations for the purposes of correcting any problems that may arise during the warranty period?

5.05

Contract Cost

Forty Percent (40%) of the total possible evaluation points will be assigned to cost.

Any prompt payment discounts terms proposed by the offeror will not be considered in evaluating cost. The cost amount used for evaluation may be affected by the application of North Dakota preference laws (N.D.C.C. § 44-08-01). The lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be evaluated according to the method set forth in the Proposal Evaluation form attached to this RFP.

5.06

Site Inspection of Offeror's Facility

The State may conduct on-site visits to the offeror's firm or offeror's customer where comparable service is being performed to evaluate the offeror's capacity to perform the contract. An offeror must agree, at risk of being found non-responsive and having its proposal rejected, to provide the State reasonable access to relevant portions of its work sites. Individuals designated by the purchasing agency will conduct the site inspection at the State's expense.

SECTION SIX PROPOSAL FORMAT AND CONTENT

6.01

Proposal Format and Content

The State discourages overly lengthy and costly proposals; however, in order for the State to evaluate proposals fairly and completely, offerors must follow the format set out in this RFP and provide all information requested.

6.02

Introduction

Proposals must include the complete name and address of offeror's firm and the name, mailing address, and telephone number of the person the State should contact regarding the proposal.

Proposals must confirm that the offeror will comply with all provisions in this RFP. The proposal must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota).

Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

6.03**Applicability and Specifications**

Offerors must provide comprehensive narrative statements that illustrate their understanding of the requirements of the snow plow truck turnkey package, deliverables, and contract terms and conditions. Offerors must also identify any pertinent issues and potential problems related to the project.

6.04**Parts and Service**

Offerors must illustrate how they will provide the parts and services in a timely manner as required to support the installed equipment.

6.05**Product History, Experience and References**

Offerors must provide comprehensive narrative statements that describe the company experience and product history. In addition, offerors must also provide three (3) reference names and phone numbers for similar units the offeror's firm has completed. The State reserves the right to contact any references provided by the offeror. Offerors are invited to provide letters of reference from previous clients.

6.06**Warranty**

Offerors must provide detailed explanation of warranty coverage, methods of how warranty repairs will be handled promptly, and the vendor name and location handling the warranty repairs.

6.07**Cost Proposal**

Offerors should describe any discounts terms for prompt payment. Discounts for prompt payment will not be considered in evaluating cost.

Offerors must complete cost proposal attached to this RFP or prepare a cost proposal following the same format.

6.08**Required Enclosures**

Offerors must provide all documents, samples, or other information specifically required in this RFP.

1. Proposal Response Sheet
2. Completed specifications with any deviations
3. Product Literature
4. Letters of reference
5. History of products installed
6. Warranty information
7. Parts and service information

SECTION SEVEN STANDARD PROPOSAL INFORMATION

7.01

Authorized Signature

An individual authorized to bind the offeror to the provisions of the RFP must sign all proposals.

7.02

State Not Responsible for Preparation Costs

The State will not pay any cost associated with the preparation, submittal, presentation, or evaluation of any proposal.

7.03

Conflict of Interest

Offerors must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota). The State reserves the right to cancel the award if any interest disclosed from any source could either give the appearance of a conflict or cause speculation as to the objectivity of the offeror's proposal. The State's determination regarding any questions of conflict of interest is final.

7.04

Offeror's Certification

By signature on the proposal, an offeror certifies that it complies with:

- a) the laws of the State of North Dakota;
- b) North Dakota Administrative Code;
- c) all applicable local, state, and federal laws, code, and regulations;
- d) the applicable portion of the Federal Civil Rights Act of 1964;
- e) the Equal Employment Opportunity Act and the regulations issued by the federal government;
- f) the Americans with Disabilities Act of 1990 and the regulations issued by the federal government;
- g) all terms, conditions, and requirements set forth in this RFP;
- h) a condition that the proposal submitted was independently arrived at, without collusion;
- i) a condition that the offer will remain open and valid for the period indicated in this solicitation; and
- j) a condition that the firm and any individuals working on the contract do not have a possible conflict of interest (e.g. employed by the State of North Dakota).

If any offeror fails to comply with the provisions stated in this paragraph, the State reserves the right to reject the proposal, terminate the contract, or consider the contractor in default.

7.05

Offer Held firm

Proposals must remain open and valid for at least **90 DAYS** from the deadline specified for submission of proposals. In the event award is not made within **90 DAYS**, the State will send a written request to all offerors deemed susceptible for award asking offerors to hold their price firm for a longer specified period of time.

7.06

Amendments to Proposals and Withdrawals of Proposals

Offerors may amend or withdraw proposals prior to the deadline set for receipt of proposals. No amendments will be accepted after the deadline unless they are in response to the State's request. After the deadline, offerors may make a written request to withdraw proposals and provide evidence that a substantial mistake has been made. The procurement officer may permit withdrawal of the proposal upon verifying that a substantial mistake has been made, and the State may retain the offeror's bid bond or other bid type of bid security, if one was required.

7.07

Alternate Proposals

Offerors may submit more than one proposal for evaluation.

Alternate proposals (proposals that offer something different than what is requested) will be considered.

7.08

Subcontractors

Subcontractors may be used to perform work under this contract. If an offeror intends to use subcontractors, the offeror must identify this information in the proposal:

- (a) The complete name of the subcontractor;
- (b) the complete address of the subcontractor;
- (c) the type of work the subcontractor will be performing;
- (d) the percentage of work the subcontractor will be providing;
- (e) and three references from customers of each named subcontractor.

If a proposal with subcontractors is selected, the offeror must provide the following information concerning each prospective subcontractor within **SEVEN WORKING DAYS** from the date of the State's request:

- (a) Evidence, as set out in the relevant section of this RFP, that the subcontractor is a registered bidder and, if applicable, holds a valid North Dakota business license; and
- (b) a written statement, signed by each proposed subcontractor, that clearly verifies that the subcontractor is committed to render the services required by the contract,

An offeror's failure to provide this information, within the time set, may cause the State to consider its proposal non-responsive and reject it. The substitution of one subcontractor for another may be made only at the discretion and prior written approval of the State's procurement officer or contract manager designated by the State.

7.09

Joint Ventures

Joint ventures will not be allowed.

7.10

Disclosure of Proposal Contents and Compliance with North Dakota Open Records Laws

All proposals and other material submitted become the property of the State and may be returned only at the State's option. All proposals and related information, including detailed cost information, are exempt records and will be held in confidence until an award is made, in accordance with N.D.C.C. § 54-44.4-10(2).

Offerors may make a written request that trade secrets and other proprietary data contained in proposals be held confidential. 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. See the North Dakota Office of the Attorney General website for additional information. <http://www.ag.state.nd.us/OpenRecords/ORM.htm>

After award, proposals will be subject to the North Dakota open records law. Records are closed or confidential only if specifically stated in law. If a request for public information is received, the procurement officer, in consultation with the Office of the Attorney General, will determine whether the information is an exception to the North Dakota open records law, and the information will be processed appropriately.

7.11

Evaluation of Proposals

All proposals will be reviewed to determine if they are responsive to the requirements of this solicitation. The procurement officer or an evaluation committee will evaluate responsive proposals. The evaluation will be based solely on the evaluation factors set forth in this RFP. The evaluation will consider information obtained subsequent to any discussions with offerors determined to be reasonable for award and any demonstrations, oral presentations, or site inspections, if required in this RFP.

7.12

Right of Rejection

The State reserves the right to reject any proposals, in whole or in part. Proposals received from debarred or suspended vendors will be rejected. The procurement officer may reject any proposal that is not responsive to all of the material and substantial terms, conditions, and performance requirements of the RFP.

Offerors may not qualify the proposal nor restrict the rights of the State. If an offeror does so, the procurement officer may determine the proposal to be a non-responsive counter-offer and the proposal may be rejected.

The procurement officer may waive minor informalities that:

- do not affect responsiveness;
- are merely a matter of form or format;
- do not change the relative standing or otherwise prejudice other offers;
- do not change the meaning or scope of the RFP;
- are insignificant, negligible, or immaterial in nature;
- do not reflect a material change in the work; or
- do not constitute a substantial reservation against a requirement or provision,

The State reserves the right to reject any proposal determined to be not responsive, and to reject the proposal of an offeror determined to be not responsible. The State also reserves the right to refrain from making an award if it determines it to be in its best interest.

7.13

Clarification of Offers

In order to determine if a proposal is reasonably susceptible for award, communications by the procurement officer or the proposal evaluation committee are permitted with an offeror to clarify uncertainties or eliminate confusion concerning the contents of a proposal and determine responsiveness to the RFP requirements. Clarifications may not result in a material or substantive change to the proposal. The initial evaluation may be adjusted because of a clarification under this section.

After receipt of proposals, if there is a need for any substantial clarification or material change in the RFP, an amendment will be issued. The amendment will incorporate the clarification or change, and a new date and time established for new or amended proposals. Evaluations may be adjusted as a result of receiving new or amended proposals.

7.14

Discussions and Best and Final Offers

The State may conduct discussions or request best and final offers with offerors that have submitted proposals determined to be reasonably susceptible for award. The State is not obligated to do so, therefore, vendors should submit their best terms (cost and technical). The purpose of these discussions is to ensure full understanding of the requirements of the RFP and the offeror's proposal. Discussions will be limited to specific sections of the RFP or proposal identified by the procurement officer. Discussions, if held, will be after initial evaluation of proposals by the proposal evaluation committee. If modifications to the proposal are made as a result of these discussions, the modifications must be put in writing.

Offerors with a disability needing accommodation should contact the procurement officer prior to the date set for discussions so that reasonable accommodation can be made.

7.15

Preference Laws

The preference given to a resident North Dakota offeror will be equal to the preference given or required by the state of the nonresident bidder. A "resident" North Dakota bidder, offeror, seller, or contractor is one that has maintained a bona fide place of business within this State for at least one year prior to the date on which a contract was awarded. For a listing of state preference laws, visit the following website:

<http://www.nd.gov/spo/legal/resources/> or contact the North Dakota State Procurement Office at 701-328-2740.

7.16

Contract Negotiation

After final evaluation, the procurement officer may negotiate with the offeror of the highest-ranked proposal. Negotiations, if held, will be within the scope of the request for proposals and limited to those items that would not have an effect on the ranking of proposals. If the highest-ranked offeror fails to provide necessary information for negotiations in a timely manner, or fails to negotiate in good faith, the State may terminate negotiations and negotiate with the offeror of the next highest-ranked proposal.

If contract negotiations are commenced, they will be held:

North Dakota Department of Transportation
Transportation Building, 4th Floor, Rm 427
608 East Boulevard Avenue
Bismarck, ND

If contract negotiations are held, the offeror will be responsible for all cost including its travel and per diem expenses.

7.17

Failure to Negotiate

If the selected offeror:

- fails to provide the information required to begin negotiations in a timely manner;
- fails to negotiate in good faith;
- indicates it cannot perform the contract within the budgeted funds available for the project; or
- if the offeror and the State, after a good faith effort, cannot come to terms,

the State may terminate negotiations with the offeror initially selected and commence negotiations with the next highest ranked offeror.

7.18

Notice of Intent to Award - Offeror Notification of Selection

After the completion of contract negotiation the procurement officer will issue a written Notice of Intent to Award and send copies to all offerors. The Notice of Intent Award will set out the names and addresses of all offerors and identify the proposal selected for award. The scores and placement of other offerors will not be part of the Notice of Intent to Award.

The successful offeror named in the Notice of Intent to Award is advised not to begin work, purchase materials, or enter into subcontracts relating to the project until both the successful offeror and the State sign the contract.

7.19

Protest and Appeal

North Dakota law provides that an interested party may protest a solicitation.

If an interested party wishes to protest the content of this RFP, the protest must be received, in writing, by the procurement officer at least seven calendar days before the deadline for receipt of proposals.

An interested party may protest the award or proposed award of a contract.

If an offeror wishes to protest the award of a contract or proposed award of a contract, the protest must be received, in writing, by the procurement officer within seven calendar days after the date the Notice of Intent to Award was issued.

SECTION EIGHT ATTACHMENTS

8.01

Attachments

1. Proposal Evaluation Form
2. Contract Form
3. Indemnification and Insurance Requirements Appendix
4. Proposal Response Sheet
5. Sample Notice of Award
6. Offeror Checklist

PROPOSAL EVALUATION FORM

All proposals will be reviewed for responsiveness and then evaluated using the criteria set out herein.

INSTRUCTIONS FOR EVALUATORS

Each evaluation criterion has been assigned a specific number of points. The questions under each evaluated area help you measure the quality of the offeror's response. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

RATING SCALE FOR ASSESSING VENDOR RESPONSES

This rating scale is intended to establish guidelines within that range to ensure members of the RFP evaluation committee perform their evaluation with consistency. You may assign any value for a given criteria from 0 to the maximum number of points. A zero value typically constitutes no response or an inability of the vendor to meet the criterion. In contrast, the maximum value should constitute a high standard of meeting the criterion. If a specific criterion would only yield a yes or no response (e.g., offeror can submit an electronic report in required format by noon Friday), the evaluator should award either the maximum points or a zero.

For Example: "Experience and Qualifications" is an evaluation criteria receiving a weighting of 20% of the total possible points. Using a 100 Point Scale, a maximum of 20 points can be awarded. The rating scale would be:

Rating Scale (20 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-5	Fair. Limited applicability
6-10	Good. Some applicability
11-15	Very Good. Substantial applicability
16-20	Excellent. Total applicability

COST PROPOSAL

If offerors were required to place cost proposals in a separate sealed envelope, do not open the cost proposal until the technical proposals have been evaluated.

Not all members of the evaluation need to evaluate the cost proposal. The cost proposals may be evaluated by selected members of the evaluation committee, reviewed by group, and recorded on the evaluation summary sheets.

Any prompt payment discounts terms offered by the vendor are not taken into consideration in evaluating cost. However, the cost proposals of nonresident offerors may be adjusted by the application of preference laws, if applicable. Contact the State Procurement Office at 701-328-2683 for assistance in applying preference laws.

EVALUATION CRITERIA AND SCORING

Person or Firm Name _____

Name of Proposal Evaluation (PEC) Member _____

Date of Review _____

RFP Title/Number _____

THE TOTAL NUMBER OF POINTS USED TO SCORE THIS CONTRACT IS 100

6.03**Applicability and Specifications**

Weight **35 Percent**. Maximum Point Value for this Section

100 Points x **35 Percent** = **35 Points**

Rating Scale (35 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-9	Fair. Limited applicability
10-17	Good. Some applicability
18-26	Very Good. Substantial applicability
27-35	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Has the offeror demonstrated a thorough understanding of the applicability of the snow plow unit?

EVALUATOR'S NOTES

[b] How well has the offeror presented the specifications and literature about their snow plow truck package with minimal specification deviations?

EVALUATOR'S NOTES

[c] Has the offeror demonstrated an understanding of the deliverables the State expects it to provide?

EVALUATOR'S NOTES

[d] Does the offer propose a delivery schedule that is acceptable to the State of North Dakota?

EVALUATOR'S NOTES

[e] Is the proposal submitted responsive to all material requirements in the RFP?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.03

6.04
Parts and Service

Weight **10 Percent**. Maximum Point Value for this Section
100 Points x **10 Percent** = **10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3-5	Good. Some applicability
6-7	Very Good. Substantial applicability
8-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a means for prompt delivery of parts?

EVALUATOR'S NOTES

[b] Does the offeror have a distributor for parts within ND or in a bordering city?

EVALUATOR'S NOTES

[c] Does the offeror have a servicing vendor within ND or in a bordering city?

EVALUATOR'S NOTES

[d] Does the offeror provide a means for prompt repair service and support for all delivery locations?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.04

6.05**Product History and References**

Weight **10 Percent**. Maximum Point Value for this Section

100 Points x **10 Percent** = **10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3-5	Good. Some applicability
6-7	Very Good. Substantial applicability
8-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a good history of their products?

EVALUATOR'S NOTES

[b] Does the offeror provide the minimum number of references as required in the specifications?

EVALUATOR'S NOTES

[c] Are the referenced users satisfied with their units?

EVALUATOR'S NOTES

[d] Has the offeror provided evidence of a high level of experience in the manufacturing and support of the product?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.05

6.06
Warranty

Weight **5 Percent**. Maximum Point Value for this Section
100 Points x **5 Percent** = **5 Points**

Rating Scale (5 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3	Good. Some applicability
4	Very Good. Substantial applicability
5	Excellent. Total applicability

Proposals will be evaluated against the questions set out below. Do not assign points to individual questions, instead, award a total score for each evaluation criterion.

[a] Does the offeror provide a prompt means to handle warranty repair?

EVALUATOR'S NOTES

[b] Does the warranty coverage meet the needs of the State of North Dakota?

EVALUATOR'S NOTES

[c] Does the offeror provide a vendor to handle warranty repairs within ND or in a bordering city?

EVALUATOR'S NOTES

[d] Does the offeror provide follow up services to the eight delivery locations for the purposes of correcting any problems that may arise during the warranty period?

EVALUATOR'S NOTES

EVALUATOR'S POINT TOTAL FOR 6.06

6.07

Contract Cost

Weight **40 Percent**. Maximum Point Value for this Section
100 Points x **40 Percent** = **40 Points**

Applying Preference Laws

Any prompt payment discounts terms proposed by the offeror will not be considered in evaluating cost. The cost amount used for evaluation may be affected by the application of North Dakota preference laws (N.D.C.C. § 44-08-01). The preference given to a resident offeror will be equal to the preference given or required by the state of the nonresident offeror (i.e. reciprocal preference).

When evaluating cost proposals from nonresident (out-of-state) offerors, determine whether the offeror's state of residence has a preference law for vendors resident in that state. The cost proposal of the nonresident offeror will be increased by the same percentage of preference given to vendors resident in that state.

For example, if the state law of the nonresident offeror requires a 5% preference for vendors resident in that state, the procurement officer will increase that offeror's cost proposal by 5% before evaluation.

See <http://cms.oregon.gov/DAS/EGS/PS/Pages/reciprocal.aspx> for a list of States Preference Laws or contact the North Dakota State Procurement Office at 701-328-2683.

Converting Cost to Points

After applying any reciprocal preference, the lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be determined as follows:

Price of Lowest Cost Proposal

Price of Proposal Being Rated X Total Points for Cost Available = Awarded Points

COST PROPOSAL EVALUATION

See Attachment 4 – Proposal Response Sheet

EVALUATOR'S POINT TOTAL FOR 6.07

**Request for Proposal
Evaluation Summary**

Name of RFP:		
RFP Number:		
Vendor Being Evaluated:		
Evaluator Name:		
Date:		
Technical Evaluation <i>(Maximum 60 Points)</i>	Maximum Points by Category	Score
1. Applicability and Specifications	35	
2. Parts and Service	10	
3. Product History, Experience and References	10	
4. Warranty	5	
Cost Evaluation <i>(Maximum 40 Points)</i> 1. Make adjustments for reciprocal preference, if necessary. See list of States Preference Laws: http://cms.oregon.gov/DAS/EGS/PS/Pages/reciprocal.aspx 2. Calculated points awarded for price. <u>Price of Lowest Cost Proposal</u> Price of Proposal Being Rated X 40 points = Awarded Points		
5. Cost	40	
Total		

**Request for Proposal
Evaluation Totals**

Name of RFP:						
Name of Offeror:						
Date:						
Technical Evaluation Criteria	60 POINTS Maximum	Evaluator	Evaluator	Evaluator	Evaluator	Evaluator
1. Applicability and Specifications	35					
2. Parts and Service	10					
3. Product History, Experience and References	10					
4. Warranty	5					
Evaluator Totals						
Grand Total		Note: Sum of all individual scores.				
Technical Proposal Score		Note: Total of individual points divided by the number of evaluators (60 POINT MAXIMUM)				
Cost Propose Score		Note: (40 POINT MAXIMUM)				
TOTAL						

**Request for Proposal
Summary of Evaluation Committee Totals**

Name of RFP:						
Date:						
Technical Evaluation Criteria	60 POINTS Maximum	Vendor 1	Vendor 2	Vendor 3	Vendor 4	Vendor 5
1. Applicability and Specifications	35					
2. Parts and Service	10					
3. Product History and References	10					
4. Warranty	5					
Technical Proposal Score						
Cost Proposals Score						
Grand Total						

ATTACHMENT 2

**CONTRACT – Next 3 Pages
(SAMPLE)**

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
CONTRACT FOR PROCUREMENT**

REQUEST FOR PROPOSAL TITLE: Snow Plow Truck Turnkey Package

REQUEST FOR PROPOSAL NO.: 065-30-17-050

This agreement is entered into between the state of North Dakota, acting by and through its Director of Transportation, hereinafter referred to as NDDOT, whose address is 608 East Boulevard Avenue, Bismarck, North Dakota, and , hereinafter referred to as the Contractor, whose address is .

In consideration of the mutual covenants herein set forth, NDDOT and the Contractor agree as follows:

1. That in consideration of the payments to be made by NDDOT, the Contractor agrees to provide the services and/or goods in accordance and in conformity with this contract, the Contractor's proposal, dated , NDDOT's request for proposal issued on , and any purchase orders issued as a result of this contract. The Contractor's proposal, NDDOT's request for proposal, and any purchase orders are incorporated by reference herein. If discrepancies exist between the Contractor's proposal, and NDDOT's request for proposal, or this contract, NDDOT's request for proposal, and this contract shall govern.
2. NDDOT agrees to pay the Contractor for the work, when completed and accepted in accordance with this contract.

Payments are to be made upon presentation of an invoice by the Contractor, and by the terms of this contract.
3. The work shall be done pursuant to this contract, to the laws of the state of North Dakota, and to the satisfaction of NDDOT, in accordance with the rules and regulations made pursuant to state and federal law.
4. The Contractor, in employing and maintaining labor, shall do so in conformity with state and federal law and this contract.
5. Payments by NDDOT beyond the current state biennium shall be contingent on sufficient funds being appropriated by the Federal Government or State Legislature for the Department. In the event of insufficient appropriations in future bienniums, NDDOT may give a minimum of 30 days notice to terminate this agreement/contract and have no further obligation to the Contractor.
6. All work products and copyrights of the contract which result from this contract are the exclusive property of NDDOT.
7. Notwithstanding any rules regarding the choice of law or venue, it is agreed by the parties that this contract shall be governed by and construed in accordance with applicable Federal Law and the laws of the state of North Dakota, at the time this contract was executed. All disputes arising from this agreement shall be brought in the South Central District Court of the state of North Dakota.
8. This agreement constitutes the entire agreement between the parties. No waiver, consent, modification, or change of terms of this agreement shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification, or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this agreement. The Contractor, by the signature below of its authorized representative, hereby acknowledges that the Contractor has read this agreement, understands it, and agrees to be bound by its terms and conditions.



9. The terms of this agreement shall not be waived, altered, modified, supplemented, or amended, in any manner whatsoever, except by written instrument signed by the parties.
 10. The Contractor shall not assign any portion of the work under this agreement, execute any contract, or obligate itself in any manner with a third party with respect to its rights and responsibilities to this agreement without written consent of NDDOT. Any agreement with a subcontractor does not create a contractual relationship between the NDDOT and the subcontractor.
 11. The Contractor shall not assign nor transfer the contractor's interests or duties under this agreement without the express written consent of the state.
 12. The Contractor agrees to comply with all applicable laws and rules, including, but not limited to, those relating to nondiscrimination, accessibility, and civil rights.
 13. The Appendices A and E of the Title VI Assurances, attached, are hereby incorporated into and made a part of this agreement.
 14. Termination
 - a. This contract may be terminated by mutual consent of both parties, or by either party upon 30 days' notice, in writing and delivered by certified mail or in person.
 - b. In addition, NDDOT may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by NDDOT, under any of the following conditions:
 - i. If NDDOT funding from federal, state, or other sources is not obtained and continued at levels sufficient to allow for purchase of the indicated quantity of services. The contract may be modified by agreement of the parties in writing to accommodate a reduction in funds.
 - ii. If federal or state regulations or guidelines are modified, changed, or interpreted in such a way that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.
 - iii. If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by the contract is for any reason denied, revoked, or not renewed.
- Any such termination of this contract under (i), (ii), or (iii), above, shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.
- c. NDDOT, by written notice to the Contractor, may terminate the whole or any part of this agreement.
 - i. If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof; or
 - ii. If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from NDDOT, fails to correct such failures within ten days or such longer period as NDDOT may authorize.
15. The Risk Management Appendix, attached, is hereby incorporated into and made a part of this agreement.



16. This agreement becomes effective when all parties have signed and it shall terminate on 12/31/2018.

EXECUTED the date last below signed.

WITNESS:

NAME (TYPE OR PRINT)

SIGNATURE

To be signed by **Owner; Partner; Corp. Pres., Vice Pres., or other authorized Corp. Officer.** (If signed by other authorized Corp. Officer, please attach copy of Power of Attorney or other documentation showing authority to sign.)

WITNESS:

NAME (TYPE OR PRINT)

SIGNATURE

CONTRACTOR:

NAME (TYPE OR PRINT)

SIGNATURE

TITLE

DATE

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

DIRECTOR (TYPE OR PRINT)

SIGNATURE

DATE

APPROVED as to substance by:

DIVISION DIRECTOR (TYPE OR PRINT)

SIGNATURE

DATE

CLA 1043 (Div. 50)
L.D. Approved 2-17-05; 10-14



ATTACHMENT 3

RISK MANAGEMENT AND CIVIL RIGHTS APPENDIX – Next 3 Pages

Risk Management Appendix

Supply Contracts with Private Individuals, Companies, Corporations, Etc.:

Each party agrees to assume its own liability for any and all claims of any nature including all costs, expenses and attorney's fees which may in any manner result from or arise out of this agreement.

Contractor, or Contractor's delivery agent, shall secure and keep in force during the term of this agreement, from insurance companies, government self-insurance pools or government self-retention funds authorized to do business in North Dakota, the following insurance coverages:

- 1) **Commercial general liability and automobile liability insurance.**
- 2) **Workers compensation insurance.**

Contractor shall produce certificates of insurance or copies of insurance policies upon request by the State.

When a portion of a Contract is sublet, the Contractor shall obtain insurance protection (as outlined above) to provide liability coverage to protect the Contractor and the State as a result of work undertaken by the Subcontractor. In addition, the Contractor shall ensure that any and all parties performing work under the Contract are covered by public liability insurance as outlined above. All Subcontractors performing work under the Contract are required to maintain the same scope of insurance required of the Contractor. The Contractor shall be held responsible for ensuring compliance with those requirements by all Subcontractors.

RM Consulted 2007
Revised 6-07



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX A OF THE TITLE VI ASSURANCES**

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees as follows:

1. **Compliance with Regulations:** The Contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Recipient or the Federal Highway Administration as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX E OF THE TITLE VI ASSURANCES**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).



Proposal Response Sheets– Next 5 Pages

Instructions: ONE (1) completed set of cost proposal response sheets is to be submitted in a separate sealed envelope or package, clearly labeled "cost proposal."

Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

**RFP Number: 065-30-17-050
Proposal Response Sheets**

TURNKEY PACKAGE ITEM #1

Purchase price and labor to install 14' dump & spreader box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear-mount snow wing and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2ADSUBW SSP-01	14' dump & spreader box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$
SSP-95-5700-4	400 gallon hopper pre-wet system furnished and installed.	\$
Total package price each.		\$
Package price x 18 = Total Contract Price for Package #1		\$

TURNKEY PACKAGE ITEM #2

Purchase price and labor to install 14' dump box, hydraulic system, plow lights, warning light system, quick hitch, 11' underbody scraper, 10' rear mount snow wing, tailgate sander, box vibrator, and hopper pre-wet system.

Specification Number	Description	Unit Price Ea.
SSP-22-2AUBW SSP-01	14' dump box, hydraulic system, plow lights, strobe system, plow quick hitch, furnished and installed. Estimated Quantity total 17	\$
SSP-95-4180-2	11' underbody scraper furnished and installed.	\$
SSP-95-4200-23	10' rear mount snow wing, left or right hand	\$
SSP-95-2400-4	Tailgate sander furnished and installed.	\$
SSP-95-5700-10	150 gallon tailgate pre-wet system furnished and installed.	\$
Box vibrator, Cougar model DC-3200, Tend Air model RV-3500 or approved equal, furnished and installed as per manufacturer's instructions with mounting and location to be approved by NDDOT.		\$
Total package price.		\$
Package price x 15 = Total Contract Price for Package #2		\$

Truck Delivery Charges Per Unit for the Following Destinations:

Bismarck - \$ _____

Dickinson - \$ _____

Valley City - \$ _____

Grand Forks - \$ _____

Devils Lake - \$ _____

Williston - \$ _____

Minot - \$ _____

Fargo - \$ _____

PROPOSED DELIVERY TIME FOR 16 UNITS IN 2017: _____ DAYS (AFTER RECEIPT OF CHASSIS)

PROPOSED DELIVERY TIME FOR 20 UNITS IN 2018: _____ DAYS (AFTER RECEIPT OF CHASSIS)

ITEM #3

Option: Purchase additional complete quick hitch assemblies with installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #4

Option: Purchase additional quick hitch assemblies without lift cylinder and with complete installation hardware for life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #5

Option: Purchase additional stainless steel tailgate spreaders with side shields, installation hardware, and as specified within for life of contract.

FOB: Bismarck, ND. Price each \$ _____.

ITEM #6

Option: Force America 6100-3 lane programming package with individual loose wires for lane selection. Truck portion of trailer anti-ice wiring harness. All necessary hydraulic plumbing with stucchi couplers to connect to the trailer at the rear of truck.

Price each installed \$ _____.

ITEM #7

Option: Force America 5 joystick controller and 2 additional valve sections with all necessary hydraulic plumbing and couplers needed to connect to the tow plow at the right rear of truck.

Price each installed \$ _____.

ITEM #8

Option: Purchase additional 14' stainless steel dump/spreader box with cylinder, brine tanks, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ _____.

ITEM #9

Option: Purchase additional 14' stainless steel dump box with cylinder, installation hardware, and as specified within for life of contract.

FOB: Fargo, ND. Price each w/o labor \$ _____.

ITEM #10

Option: Purchase dual auger w/stainless steel cover plate and vibrator in lieu of conveyor chain on dump/spreader box.

Add/Deduct \$ _____.

ITEM #11

Option: Mounting/hardware for dual wing.

Add/Deduct \$ _____.

ITEM #12

Option: Purchase addition Paraglide type wing post and counterbalance valve with complete installation hardware for life of contract.

FOB: Bismarck, ND Price each w/o labor \$ _____.

ITEM #13

Option: Purchase heavy duty flatbed to support brine tank, approximately 8'Wx17.5'L, stake pockets, rub rails, treadplate floor and countersunk LED lighting. With bulkhead. E-coated premier and painted black with hardener or powder coated.

FLATBED MAKE: _____

MODEL: _____

FOB: Fargo, ND. Price w/o labor \$ _____.

ITEM #14

Option: Purchase additional 304 stainless steel tailgate spreaders that mounts to a dump/spreader style box, direct drive, single auger, 8" round drop shoots 3.5" long on both ends of sander and with complete installation hardware for the life of contract. Monroe MS969 or approved equal.

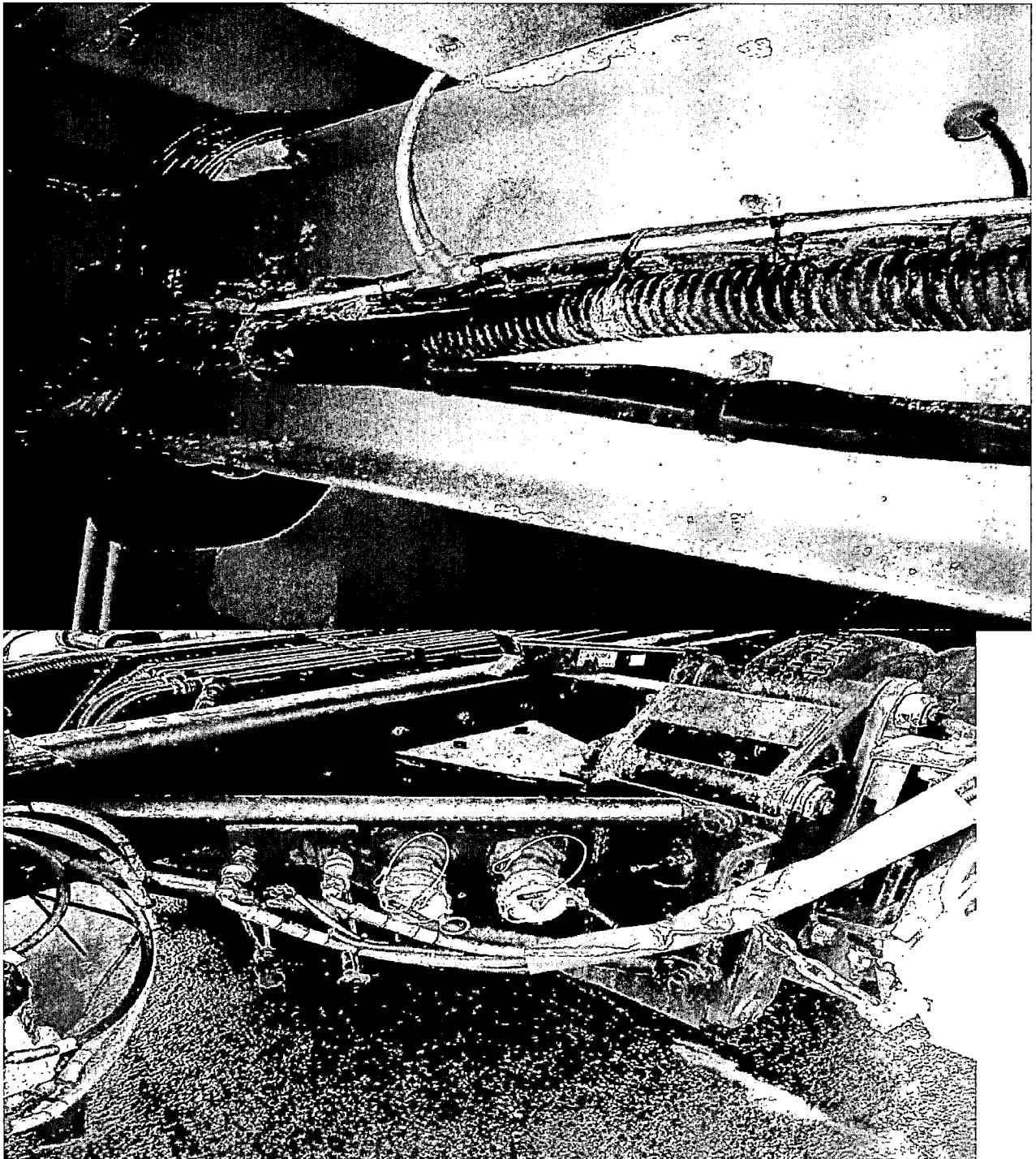
FOB: Fargo, ND. Price each w/o labor \$ _____.

Price each includes installation, plumbed and wired for auger reverse \$ _____.

ITEM #15

Option: Truck wash system installed on the inside of truck frame rail consisting of 1.25" Kanaflex 390 (EDPM rubber, polyethylene helix, synthetic braid, smooth bore, corrugated OD or equal) popularly secured. 2" male inlet and outlet adaptor mounted on wing support with dust covers.

Price each installed \$ _____



Receipt of the following addenda to the RFP, by date, is acknowledged:

SIGNED: _____

FULL NAME: _____
(Please Print)

TITLE: _____

FIRM NAME: _____

FIRM ADDRESS: _____

FIRM PHONE NUMBER: _____ FIRM FAX NUMBER: _____

EMAIL ADDRESS: _____

Proposals must remain open and valid for at least 90 DAYS from the deadline specified for submission of proposals. Proposals may be withdrawn at any time prior to proposal opening date.

The signatory agrees that the NDDOT has the right to reject any or all proposals for any reason.

**Notice of Intent to Award
(SAMPLE)**

June 2, 2017

Solicitation Number and Title: 065-30-17-030 Snow Plow Turnkey Truck Package

Opening Date and Time: May 23, 2017; 3:00 PM Central

A response to the solicitation was submitted by:

Insert name of bidder or offeror

Insert name of bidder or offeror

Responses were evaluated according to the criteria stated in the solicitation. We announce our intent to award a contract to:

Insert name(s) of bidder or offeror

We would like to thank you for your time and efforts in preparing a response to this solicitation. We invite you to contact the Procurement Officer if you would like additional information or have any questions about the evaluation process.

You are reminded that any protests of this decision must be submitted to the Procurement Officer within seven (7) calendar days after the issuance of this notice. The protest must be in writing, clearly identify the solicitation number and title, and detail the nature of the protest.

The successful company is instructed not to begin work, purchase materials, or enter into subcontracts relating to the project until both the recipient and state sign the contract.

We appreciate your interest in doing business with the State of North Dakota.

Sincerely,

Vanessa Brosten
Procurement Officer
E-mail: vbrosten@nd.gov
Telephone: 701-328-4466
TTY Users call: 7-1-1

ATTACHMENT 6

CHECKLIST FOR OFFERORS

- ☐ Submit any questions, comments, or requests for clarification to the procurement officer by the deadline for submission of questions.
- ☐ Review the Attachments 2 and 3. State any objections to any of the provisions in the Contract Form or Indemnification and Insurance Requirements prior to the deadline for submission of questions.
- ☐ Be sure an individual authorized to bind the offeror to the provisions of the RFP signs the proposal.
- ☐ Comply with the North Dakota Secretary of State and the North Dakota State Procurement Office Registration requirements prior to the deadline stated in the RFP.
- ☐ Comply with professional licensing requirements, and provide copies of certifications, if required.
- ☐ Provide the information about the qualifications of the firm that will be working on the project.
- ☐ Provide the information about all subcontractors that will be working on the project as required in section 7.08 of the proposal.
- ☐ Identify all known federal requirements that apply to the proposal, the evaluation, or the contract.
- ☐ Provide the required number of letters of reference.
- ☐ Provide all documents or materials that must be submitted with the RFP.
- ☐ Identify and label and sections of the proposal you feel contain confidential information.
- ☐ Provide completed specifications with any deviations clearly stated.
- ☐ Provide product literature with history, warranty, service, parts, and product support information.
- ☐ Provide ONE ORIGINAL (1) AND FOUR COPIES (4) of the proposal without pricing in a sealed envelope or package.
- ☐ Provide proposal response sheets, completed in their entirety, plus complete list of options with pricing, submitted in a separate sealed envelope or package, clearly labeled "cost proposal".



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

May 23rd, 2017

Vanessa Brosten
North Dakota State Fleet
608 East Boulevard Avenue
Bismarck, ND 58505-0700

Dear Vanessa:

Bert's Truck Equipment is pleased to submit the following **"Request for Proposal"** for the for the State of North Dakota "Turnkey Snow Plow Truck Equipment" for your 2017 and 2018 calendar year.

For the past 78 years, Bert's Truck Equipment has provided our customers with the highest quality equipment backed by years of professional installations. Because we have been building "turnkey" plow trucks for over 29 years, we have an in-depth knowledge and understanding of the upcoming project, and the highly skilled staff to meet the states expectations and requirements.

Bert's Truck Equipment is proud to be a long time member in good standing of the National Truck Equipment Association.

Please feel free to contact me if you have any questions or concerns regarding our proposals. We look forward to serving the North Dakota Department of Transportation's equipment needs!

Sincerely

Jim McLaughlin
Commercial, Fleet, and Government Sales

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

Production Schedule 2017-2018

Bert's Truck Equipment understands the importance of the North Dakota's Department of Transportation's need to have the turn key snowplow trucks completed on time with little or no re-work required. We have always prided ourselves with the highest quality installation and timely delivery. We are a certified "MVP" installer as recognized by the National Truck Equipment Association. It is with this understanding that we propose the timeline for completion of the state's plow trucks.

Time per chassis

Bert's Truck Equipment would complete the 17-18 chassis per build in 108 Calendar days from the time the first chassis is delivered to us and all necessary components are available for installation. The estimated starting date would be Tuesday September 5th, 2017 (Sooner if components are available)

We feel that this schedule is reasonable and allows adequate time to complete each unit yet insure the highest quality workmanship. Any add on units could be completed in a 7 day turn around.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

FAX (218) 233 9548

1-800-232-3787

3804 HWY 75 NORTH

MOORHEAD, MN 56560

jimmc@bertsonline.com

SPECIFIC TERMS & CONDITIONS

General Information. The time required to build and integrate 20 new trucks into the fleet system is 120 days or less. In order to expedite the equipment installation process, the successful bidder may have the trucks drop shipped from the OEM to a plow/body manufacturer for some or all of the assembly; however the bidder must correct any deficiencies to the installations found by the inspection team within the borders of ND, a bordering city, or a location agreed to with NDDOT. If any installation of equipment is performed at a plow/body manufacturer, the bidder must provide round trip transportation and per diem for 2 NDDOT employees from Bismarck ND to inspect and approve the prototype.

Award. Award will be made to the offeror whose proposal best meets the specifications and other requirements of the request for proposal (RFP) and is the best proposal based on selection committee's review and scoring of all proposals using the guidelines outlined in the RFP. Minor deficiencies or technical variances, which by their nature, are restrictive to a given manufacturer, may be waived if, in the judgment of the RFP committee it would be in the best interest of the state of North Dakota and would not prejudice the rights of other offerors. The state reserves the right to reject any and all proposals in whole or in part. The state reserves the right to award by item, groups of items, or total proposal cost for all items.

Required Delivery Schedule, Acceptance, and Payment. Upon award, a staggered delivery schedule will be created based on number and type of trucks awarded to the contractor(s). The timetable will begin when at least three chassis are delivered to the contractor. Time will be allowed for prior contractor projects to be completed. Two additional working days will be allowed per package type for prototype time. State Fleet Services will arrange to have the chassis delivered to the successful contractor(s). **All trucks must pass a final inspection and be accepted by NDDOT at the contractor(s) location within ND, a bordering city, or other location as agreed to with NDDOT. Any deficiencies identified by the inspection team must be made at the inspection site or otherwise agreed upon location to bring the truck into compliance before delivery can be made.** Final inspections will be made as trucks are completed and delivery must be made within one week of each final inspection. Payment will not be made until trucks have been delivered and accepted by the delivery location. Payment will be withheld on final unit until calibration and training requirements have been met. Vendor is to contact named NDDOT representative to schedule inspections at least 5 days in advance.

Performance incentive. It is of the best interest of the state to complete the trucks in a timely manner; therefore, the following incentive has been created: If the contractor(s) delivers all trucks to the respective shipping location before the required delivery date an additional award of 3% of the total award will be paid to the vendor. No performance incentive will be awarded for delivery after the required delivery date or if trucks fail to pass the final inspection and do not meet the acceptance requirements of NDDOT. No sacrifices in quality of product or workmanship will be accepted to meet this incentive.

Progress Reports. The successful bidder(s) shall provide monthly progress reports addressing the status of accessories received; work completed, and report any problems affecting the completion schedules. Such reports will be provided to State Fleet Services on the first of every month, beginning the first full month after delivery of the chassis. Periodic inspections will be made by the state to answer questions and insure quality.

Force Majeure. If execution of this contract shall be delayed or suspended, and if such failure arises out of causes beyond the control of and without fault or negligence of the contractor, the contractor shall notify State Fleet Services, in writing, within twenty-four (24) hours after the deal. Such causes may include but are not limited to acts of nature, war, acts of public enemy, acts of any government entity in its sovereign or contractual capacity, fires, floods, epidemics, strikes, and unusually severe weather. The state reserves the right to adjust the timetable in such an event.

Liquidated Damages. Time is of the essence in this contract. Failure to start and complete all work specified within the time allowed shall constitute material breach of contract. The "time allowed" will be based upon the timetable developed at the time of award and calculated when the first chassis is delivered to vendor, following the guidelines stated above. Failure of the successful offeror/contractor to deliver the completed trucks within the time allowed will result in damages, and for each consecutive day in excess, a sum of \$50 per truck per day shall be withheld from payment due the contractor. Such amount shall not be construed as a penalty but as a minimum value of liquidated damages that may be deducted from payment due to the contractor if such delay occurs.

Supplemental Purchases. Additional turnkey packages may be ordered from this proposal up to or exceeding the quantities of the initial order until **December 31, 2018**. The total proposal price is to include all discounts and deductions, and is to be less federal and state taxes, for which exemption certifications will be furnished upon request. Pricing shall be firm for the first 60 days of the contract period, after which time the contractor may submit a request for a price increase to the Procurement Officer. Request for a price increase or decrease must include a copy of the manufacturer's official notice or other evidence that the increase or decrease is applicable to all customers. Price increases will become effective 30 days after the receipt of the request, except the state reserves the right to accept or reject within 30 days or cancel the contract. All shipments are to be billed at prices in effect at the time of order, not the date the shipment is made.

Fleet Services Specifications in This Section

SSP-01 Warning Light System

SSP-22-2AUBW 58,000 GVW Tandem with Dump Box, for Underbody Scraper
and Snow Wing

SSP-22-2ADSUBW 58,000 GVW Tandem with Dump & Spreader Box, for
Underbody Scraper and Snow Wing

Fleet Services Informational Data & Photos

STATE OF NORTH DAKOTA
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
608 EAST BOULEVARD AVENUE
BISMARCK, NORTH DAKOTA 58505-0700

SOLICITATION AMENDMENT NO. 1

May 10, 2017

Solicitation Number: 065-30-17-050

Title: Snow Plow Truck Turnkey Package

Deadline for Receipt of May 23, 2017; 3:00 P.M. CT

Solicitation Issued: April 19, 2017

THE FOLLOWING CHANGES HAVE BEEN MADE:

This solicitation is amended as follows:

✓ **1. Reference Turnkey Package Specifications, Page 6&18, 8-d) viii & 17-d)x**

In-tank return filter to handle flow requirements and have porting of at least 1 ¼". Filter to have both visual and electrical indicators. Filter element shall be 10 micron "absolute" rated for no less than 80 GPM. Filter assembly shall be ~~Filtration Products No. FFPR25-20N, Zinga TS-1200-25-1-0/ZSRE-409-10~~ or approved equal.

Change to: TS-1600-25-1-0/ZSRE-409-10.

The solicitation is hereby amended.

✓ **2. Reference Turnkey Package Specifications, Page 7, 8-e)viii**

Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief.

Change to: 4 way.

The solicitation is hereby amended.

✓ **3. Reference Turnkey Package Specifications, Page 7&19, 8-e)xi & 17-e)xiii**

Valve Enclosure to have the capability of housing 10 to 14 valve sections: Designed to be weatherproof and protect the valves and valve operators from road contaminants. Located vertically on cab guard on drivers side (see attached photo). Must provide rubber bumper to protect cab from valve enclosure door.

Change to: 9 to 13

The solicitation is hereby amended.

✓ **4. Reference Turnkey Package Specifications, Page 9&21, 8-j)iii(1)d&17-j)v(1)d**

~~Liquid switch.~~

Change to: Auxiliary switch

The solicitation is hereby amended.

✓ **5. Reference Turnkey Package Specifications, Page 9&17, 8-j)iii(3)&17-j)v(2)**

An 80-amp thermal breaker with manual reset shall be provided in the wire between the power source and the switch panel. (Mounting location to be approved by NDDOT)

Add: (Mounting location to be approved by NDDOT)

The solicitation is hereby amended.

✓ **6. Reference Turnkey Package Specifications, Page 10, 8-m)**

Hydraulic lines for the sander shall be routed through the rear box corner with through fittings, Parker brass anchor connectors 207ACBH or equal into box corner and quick couplers with tethered dust caps at that point. They should be routed to the side, which is most efficient for the type of sander to be installed. A protective shield shall be installed to protect hoses from wheel spray. The return shall be split outside

✓ of box and have one 1" and one ½" coupler to allow for two return hoses from tailgate sander. (Mounting location to be approved by NDDOT)

✓ Add: (Mounting location to be approved by NDDOT)

The solicitation is hereby amended.

✓ **7. Reference Turnkey Package Specifications, Page 6&17**

8-c)&17-c)

✓ Mounting: Shaft centerline at least ~~one~~ degree to the repto centerline not to create more than a ~~three~~-degree angle. Shaft to have enough movement to allow removal of driveshaft without loosening or removing hydraulic pump.

Change one to three degree and change three to four degree

The solicitation is hereby amended.

RESPONSES TO QUESTIONS OR REQUESTS FOR CLARIFICATION.

✓ Snow Plow Truck Turnkey Package, page 4 of 38, section 1.03 established a Deadline for Submission of Questions and Requests for Clarification. The responses, including any necessary amendments, are as follows:

✓ **Question 1:** Reference page 5 and 17; Item 8b-ii: Is the chassis going to have the 4 bolt flange off the REPTO to allow both ends of the driveline to have the 4 bolt flange?

✓ **Answer 1:** Minimum 4 bolt flange for mounting on both ends of drive line.

✓ The intent of the spec is to require both ends of the REPTO driveline to have a minimum 4-bolt flange for ease of removal of shaft for service. The flange yoke on the pump shall be of split collar design (not set screw) to allow easier removal of yoke when servicing pump. Pump yoke shall be installed with grease or other anti-seize compound to prevent seizing on pump input shaft.

The solicitation is hereby amended.

✓ **Question 2:** Reference page 12; 9n and page 24, 17l: Will a Springville air cylinder with a MAC Solenoid Valve be consider as an equal to the Velvac Air cylinder?

✓ **Answer 2:** As long as the MAC Solenoid meet or exceeds Velvac solenoid #320178.

No amendment necessary.

✓ **Question 3:** Reference page 14, #11. Will the Crysteel M63138 Double Acting Hoist be accepted and considered and equal to the published specifications? It is a Class 120 which greatly exceeds specifications and the state is already using this hoist on many of its trucks.

✓ **Answer 3:** Yes, as long as it meets or exceeds our specification.

No amendment necessary.

✓ **Question 4:** Reference page 22, 18b: Would the State please clarify the type and approximate size and consistency of materials the body is to "Contain in the body without leaking"? Do to the nature of the type of body and for it to operate properly there will be always areas that will have areas that may not seal completely and the tolerances can vary between similar products being hauled so this specification is very open for interpretation and leaves the supplier at risk of warranty issues that are more of a "Materials being hauled" than a body specifications issue.

✓ **Answer 4:** The intent of this specification is to prevent ND from accepting any boxes/bodies that allow leakage of material while not in use. The material of most concern is granular/rock salt used on the highway. Gaps must be tight enough on tailgate and discharge chute to as to not allow free flow of rock salt when truck and auger system is not in operation. Gaps must also be sufficient to allow free movement of tailgate and chute without binding. Use of rubber belting or bristle material may be added to tailgate to mitigate gaps if necessary. Granular salt material can be sampled or loaded into box for testing at any NDDOT District.

No amendment necessary.

✓ **Question 5:** Reference page 22, 18 d) on the 14' body we plan to supply, it uses a **two pc** welded design with double reinforcement at the weld seam. Will this be acceptable? (The state has accepted this in the past)

✓ **Answer 5:** Yes

The solicitation is hereby amended.

✓ **Question 6:** Reference page 24, 18 p) iv) we proposes a high efficiency Char-Lynn 2000 series drive motor with a **60 pulse** sensor. Will this be acceptable as and equal to the current specifications? (again I believe this has been accepted in the past)

✓ **Answer 6:** Yes, The 100 pulse sensor is preferred but 60 will be accepted as long as gear reduction is consistent, either 25:1 single gearbox or dual 6:1 gearboxes are required per spec, and spreader control system must be able to be accurately calibrated with installed sensor.

No amendment necessary.

✓ **Question 7:** Reference page 32 of 38; Snow Plow Truck Turnkey Package

The 14' dump & Spreader body packages will there be 17 or 18 as the total contract for package 1 states?

✓ **Answer 7:** Item one on the first build-quantity of 7 and on the second is 12, total 19.

The solicitation is hereby amended.

✓ **Question 8:** Reference page 32 of 38; Snow Plow Truck Turnkey Package

The 14' dump body package, will there be 17 or 15 as the Total contract price for Package 2 states?

✓ **Answer 8:** Item two on the first build-quantity of 9 and on the second is 7, total of 16.

The solicitation is hereby amended.

✓ **Question 9:** Is there 34 trucks total 17 & 17 or 33 trucks total 18 & 15. We need this clarified as it may affect the building time projections a little?

✓ **Answer 9:** 36, with one truck on the second build will have a flatbed, option 13.

The solicitation is hereby amended.

✓ **Question 10:** Reference page 35 of 38, Item 15. Could the state provide a more detailed specification with regards to this item?

✓ **Answer 10:** It is NDDOT's intent to leave some interpretation of this option up to the vendor to determine best way to install system. NDDOT will require that 1.25" corrugated hose be used down both frame rails. 2" couplers and caps to connect to water flushing source must be used for connection and mounted for easy access in front of snow wing. Ports to be drilled or cut into corrugated hose along frame to allow spray of water to strategic locations for best flushing and most efficient cleaning of material from underneath truck when system is used.

Prototype wash system to be approved by NDDOT Representative before additional trucks are upfitted with option if exercised.

Please see the following list of material used on our trucks excluding ties and thread sealant.

QUANTITY	DESCRIPTION		
100	KF114390	KF114390	1 1/4" KANAFLEX 390 SD/10 ESH125 0 PSI
	1.0		
2	5046079	200CAP	BJ 2" DUST CAP B-200DC
	2.0		
2	5005140	200A	BJ 2" MALE ADAPTOR X FPT B-200A
	3.0		
2	5011215	RN200-125	2" X 1-1/4" REDUCING NIP BRN200114
	4.0		
2	5274362	60403	1 1/4" DBL THRD POLY FTG
	5.0		
4	5067191	HB125	1-1/4" MPT X 1-1/4" HB BHB114
	6.0		
2	CAP125	CAP125	1 1/4" POLY PIPE CAP BCAP114
	7.0		
4	TBC175	TBC175	T-BOLT CLAMP 1.75" ** 94100-0175 **
	8.0		
1	5057094	200D	BJ 2" FEMALE CPLR X FPT B-200D
	9.0		
1	NWRB200X34	62195	NW RB 2" X 3/4" RB20034-80
	10.0		
1	62270	62270	3/4"X 1/4"REDUCER BUSHING RB3414-80
	11.0		

No amendment necessary.

✓ **Question 11:** Reference Turnkey Package Specifications, Pages 5 & 17, 8 HYD, 17 HYD, 8-bi, 17-bi Splined slip yoke on both ends of the driveline. You can only have one slip yoke in a driveline.

✓ **Answer 11:** Splined on either end to allow movement.

Solicitation is hereby amended.

✓ **Question 12:** Reference Turnkey Package Specifications, Pages 7 & 19, # 8 HYD & #17 HYD, e-xi, e-xiii, What material should the valve enclosure be manufactured of? Stainless or mild steel painted/powder coated?

✓ **Answer 12:** Mild steel powder coated.

Solicitation is hereby amended.

✓ **Question 13:** Reference Turnkey Package Specifications, pages 11 & 23, 9 Dump, 18 Dump, i-ii, i-iv On the free standing cab shield, what should the uprights, bracing and reinforcements be manufactured of? Stainless or mild steel painted/ powder coated.

✓ **Answer 13:** Mild steel painted or powder coated.

Solicitation is hereby amended.

✓ **Question 14:** Reference Turnkey Package Specifications, pages 16 & 28, # 14 & # 22 Pull Plate a & e, b & f; a, b) Must be made using 3/4" material. e,f rated for 100,000 lb gross trailer weight. To accomplish this rating a minimum 1" plate and gussets is required.

✓ **Answer 14:** Must be made of minimum 3/4" material for the plate and gussets.

No amendment necessary.

✓ **Question 15:** Reference Turnkey Package Specifications page 18, # 17 Hyd, d Reservoir: Specifications ask for steel in this section. Should it be stainless?

✓ **Answer 15:** Yes, stainless steel.
Solicitation is hereby amended.

✓ **Question 16:** Reference Turnkey Package Specifications page 42, Scraper, 5-a-i. Are socatri 1000 cylinder rods acceptable in lieu of nitrated? Socatri 1000 exceeds nitrated in the salt spray test.

✓ **Answer 16:** Yes, as long as it meets or exceeds our specification.
No amendment necessary.

✓ **Question 17:** Reference Turnkey Package Specifications, page 43, Scraper, 5-bi. Are socatri 1000 cylinder rods acceptable in lieu of nitrated? Socatri 1000 exceeds nitrated in the salt spray test.

✓ **Answer 17:** Yes, as long as it meets or exceeds our specification.
No amendment necessary.

✓ **Question 18:** Reference Turnkey Package Specifications, page 44, Wing, 2-ai. Are socatri 1000 cylinder rods acceptable in lieu of nitrated? Socatri 1000 exceeds nitrated in the salt spray test.

✓ **Answer 18:** Yes, as long as it meets or exceeds our specification.
No amendment necessary.

✓ **Question 19:** Reference Turnkey Package Specifications, page 50, UT spreader. Specifications call out for the unit to be fabricated in 304SS. Is 201SS acceptable?

✓ **Answer 19:** Yes.
Solicitation is hereby amended.

✓ **Question 20:** Reference Turnkey Package Specifications, page 50, UT spreader, 1-a. What should the pitch of the auger be?

✓ **Answer 20:** 6"
Solicitation is hereby amended.

✓ **Question 21:** Reference Turnkey Package Specifications, page 55, LIQUID PRE-WET FOR RDS 1-g & 1-h. In regards to the "Anti-slosh baffle built into top of tank at openings (s), need more clarification of what this specification is requiring. Are tanks equipped with the 2" NPT lids and vented to a higher point of the body to prevent spillage, acceptable?

✓ **Answer 21:** 2" NPT openings plumbed to higher point and front of body of truck for venting is acceptable and preferred. The intent is to prevent any spillage of prewet liquid or leakage onto side of truck or from tanks with body up or down.
No amendment necessary.

✓ **Question 22:** Reference Turnkey Package Specifications, Specific Terms & Conditions, page 1, PILOT INSPECTIONS: The pilot inspection for the first chassis configuration will be held at the manufacture / installers location. ALL travel, room and board expenses for ND DOT personnel will be the responsibility of the successful bidder.

✓ Can the balance of the SAME chassis configuration inspections be held at a closer, agreed to location if: ALL travel, room and board expenses for ND DOT personnel will be the responsibility of the successful bidder?

✓ **Answer 22:** Yes. Page 1, Specific Terms & Conditions, under paragraph Required Delivery Schedule, Acceptance, and Payment. **All trucks must pass a final inspection and be accepted by NDDOT at the contractor(s) location within ND, a bordering city, or other location as agreed to with NDDOT.**
No amendment necessary.

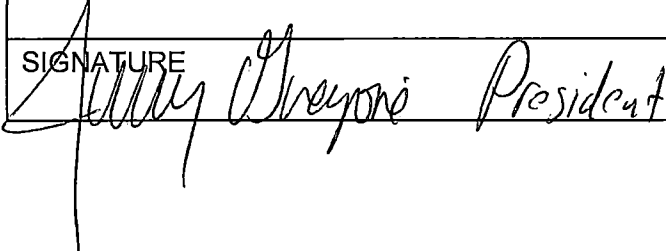
✓ **NOTE:** Per Snow Plow Truck Turnkey Package, page 4 of 38, section 1.03, Responses to questions was delayed by 1 day, therefore, the rest of the schedule will be shifted by 1 day:

✓ **Proposals are now due by 5/24/2017; 3:00 PM**

✓ Any questions regarding this amendment must be submitted in writing to the undersigned Procurement Officer.

Vanessa Brosten Procurement Officer
PHONE: 701-328-4466
FAX: 701-328-0310
E-MAIL: vbrosten@nd.gov

By my signature below, I hereby acknowledge receipt of and compliance with this amendment to the above referenced solicitation.

PRINTED NAME OF BIDDER OR OFFEROR <u>and</u> TITLE	
SIGNATURE  President	DATE 5-22-17

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
SIX LIGHT HEAD 12 VOLT SYNCHRONIZED LED WARNING LIGHT SYSTEM
WHELEN DOT-LED™, NDDOT03 OR PRE-APPROVED EQUAL**

Bidders Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

(All new products must be provided to NDDOT for testing purposes. Only products approved as a result of this request will be accepted.)

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1) Two Whelen LED Micro Edge® 180° Light heads, or pre-approved equal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a) Aluminum I-beam structured housing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Shatter-resistant amber polycarbonate lenses with smooth exterior.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c) Each Micro Freedom shall contain super-LED lamps with each having eighteen lamps that are mounted in two straight rows of nine amber LED's over nine clear LED's that will mounted behind a highly polished dual reflector per head.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) The combination of the two light heads must produce a 360° pattern output pattern.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Micro Edges to alternate with the rear LED light heads of the system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f) Rectangular dimensions approximately 12.3"L x 4.67"H x 9.3"W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2) Four rear Whelen 400 super-LED directional light heads with aluminum housings, or pre-approved equal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a) Rectangular approximately 3 1/2" W x 5"H x 3 1/2"D housings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Shatter-resistant polycarbonate lenses with smooth exterior.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i) Attached with stainless steel screws into a nylon mounting bracket.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c) Two pair, one pair amber and one pair clear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i) Pairs independently controlled both from each other and from front.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Wide angle linear LED's capable of emitting 180° of light.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Heavy duty DOT solid state flasher with diagnostics.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3) No less than 240 lineal feet TPE 3 conductor 600V 14 AWG stranded, pretinned copper flexible to -40° with no less than 30 feet of same type cable for each micro edge.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4) Accessories			
a) Waterproof connectors, W441D/W442D/W441D/W446D, or pre-approved equal. Vendor to provide ample connector quantities for system installation to allow for disconnect of amber and clear light heads at LB box.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Two one-inch PVC LB conduit fittings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c) The bid price shall include any miscellaneous items and special tools necessary to provide a complete installation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5) NOTE: Panel switches and indicator lamps provided by others.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6) Vendor is to provide hands-on technical assistance to the installers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7) Manufacturer's written warranty of 2 years for complete system with 5 years on LED panels and LED ballasts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
HYDRAULICS AND DUMP BOX FOR UNDERBODY & WING
(FOR TANDEM AXLE TRUCK – APPROXIMATELY 58,000 LBS G.V.W.)**

Bidders Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

General Information:

The hydraulics, box, and installation by the successful bidder must be complete in every aspect of the following specifications. All stainless steel components to be made of 201 or 304 grade. The painting of all installed accessories shall be complete and absolute, including primer. All minor items including, but not limited to, conduit, connectors, tape, paint, fittings, fuses, etc., are the responsibility of the bidder. When specifications do not clearly identify the proper installation or it is obvious there is an error, Tim Paul at State Fleet Services (701-328-1465) must be contacted for direction. A plan for mounting locations of the tool box, hydraulic reservoir, valve enclosure, ladder, etc. must be submitted to State Fleet and a prototype will be approved. It shall be the responsibility of the installer to relocate OEM and non-OEM components to accommodate the accessories if required by NDDOT. Frame modifications to accommodate pump, or other equipment installation are not acceptable. Complete hydraulic system provided to be from one common supplier or source. No additional monetary amount will be allowed.

8) Hydraulics – Rear engine power take off (REPTO).

a) Hydraulic pump: **Eaton 622AK-R.**

- i) 6.0 CID.
- ii) 24.7 GPM at 1000 RPM.
- iii) Load sensing with adjustable compensator with system pressure set for optimum performance of installed components.
- iv) 1 1/4" keyed shaft w/hardened formed key.
- v) Side ported.
- vi) Automatic electric pump outlet shut off if oil level drops to an insufficient level, with override switch.
- vii) Pump to be mounted with pressure compensator orientated to top side of pump

b) Balanced drive line: Spicer 1310/1350/1380 series or equal.

- i) **Splined slip yoke on both ends of driveline to allow for movement.**
- ii) **4 bolt flange for mounting on both ends of drive line.**
- iii) Non Greaseable U-joints.
- iv) Tube to be filled with material to prevent driveline moan.
- v) **Use anti-seize when assembling removable parts.**
- vi) REPTO adapter to be forged steel construction the installer responsible to provide adaptor if needed.

COMPLY YES	NO	SPECIFICATION DEVIATIONS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	622AK-R-CFG-Repto)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	9332 APO1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	single slip yoke
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Bert's Truck Equip. of Mhd
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	COMPLY YES	NO	SPECIFICATION DEVIATIONS
c) Mounting: Shaft centerline at least one degree to the repto centerline not to create more than a three-degree angle. Shaft to have enough movement to allow removal of driveshaft without loosening or removing hydraulic pump.	X	—	_____
i) Body vendor provided bracket fabricated on frame rails.	X	—	_____
d) Reservoir: mounted between cab guard uprights, 10 gauge stainless steel, 40-gallon capacity with baffle. Tank dimensions and height to be determined on prototype. Tank to be secured down by steel straps.(see drawing)	X	—	_____
i) Basket type filler breather cap.	X	—	_____
ii) Magnetic drain plug, easily accessible.	X	—	_____
iii) 3" OD with 2" ID NPT suction strainer with 100-mesh screen type filter.	X	—	_____
iv) Separate return port for control drain line.	X	—	_____
v) Sight temperature gauge externally mounted.	X	—	_____
vi) 2" full flow brass ball valve for suction line shutoff.	X	—	_____
vii) Electric level and temperature sending unit, wired to control panel and back lit for "low oil" and "oil temp" warning.	X	—	_____
viii) In-tank return filter to handle flow requirements and have porting of at least 1 1/4". Filter to have both visual and electrical indicators. Filter element shall be 10 micron "absolute" rated for no less than 80 GPM. Filter assembly shall be Filtration Products No. FFPR25-20N, Zinga TS-1200-25-1-0/ZSRE-409-10 or approved equal.	X	—	_____
ix) In-line pressure filter system to be installed between pump outlet and valve body inlet. Pressure filter to be mounted near hydraulic reservoir and orientated to allow for easy unobstructed service. Filter to have electrical restriction indicator viewable on in-cab LCD screen. Filter to be Eaton#300150 or equal. 60GPM flow minimum, 3,000 psi. Filter housing kit to be Force America # HP17125VG30EPUG5S2AE7050P or equal	X	—	_____
x) Hydraulic system shall be filled with the hydraulic oil under current contract with NDDOT. The contract vendor is to provide oil to the installer at contract price. Pricing available from State Fleet or https://secure.apps.state.nd.us/csd/spo/services/bidder/listCurrentContracts.htm . Oil to be Cenex, Quicklift® HTB Low Viscosity winter fluid.	X	—	_____
e) Electro/Hydraulic Valves: Shall be Force America add-a-fold or approved equal. The control valves shall be pulse-width modulated and where indicated proportionally controlled. All segments shall have heavy-duty continuous coils and connections shall be Hirshman or ITT Cannon type connectors. Each segment shall be equipped with a manual override. Each segment shall have adjustable flow control. Valve sections to be arranged as follows:	X	—	_____
i) Hoist, 4-way double acting with down side 500 psi relief, proportional control.	X	—	_____
ii) Plow lift, 3-way.	X	—	_____
iii) Plow angle, 4-way.	X	—	_____
iv) Scraper lift, 4-way, adjustable to maintain a constant psi of 300-500 hydraulic pressure down on road.	X	—	_____

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				DEVIATIONS
v) Scraper angle, adjustable cross-port relief set @ 1200 psi. or at scraper manufacturers recommendation.	X			
vi) Wing toe (post), 4-way, adjustable work port relief up and down.	X			
vii) Wing heel, 4-way, proportional control, adjustable work port relief up and down.	X			
viii) Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief.	X			
(1) Plumbed and wired for auger reverse.	X			
ix) Anti-ice, proportional, 2-way with minimum flow rate of 14 GPM.	X			
x) Spinner, proportional, 2-way with minimum flow rate of 7 GPM.	X			
(1) Note: The last two functions, Anti-ice and Spinner will be supplied with a two-function manifold using Hirschman or ITT cannon type connectors. This manifold would also include an integral end cover function.	X			
xi) Valve Enclosure to have the capability of housing 10 to 11 valve sections: Designed to be weatherproof and protect the valves and valve operators from road contaminants. Located vertically on cab guard on drivers side (see attached photo). Must provide rubber bumper to protect cab from valve enclosure door.	X			
(1) Easy serviceability with unobstructed access to all valves under cover.	X			
(2) Valve Enclosure to have removable weather-tight access panel on inboard side to permit field removal of spool valves without removing valve manifold assembly from enclosure.	X			
f) Spreader Control				
i) Force America 6100 or pre-approved equal. The electronic spreader control shall be designed for precise, closed loop control of granular material and direct liquid application. The unit must be protected from reverse polarity, as well as over-voltage protected.	X			
ii) The unit must be supplied with easy to service speedometer connection, valve control connection, and main power connection.	X			
iii) The unit must have full featured micro-processor control and provide operational modes for manual, open loop, or closed loop. In addition, the unit must be compatible with information management systems (GPS), provide rotary auger speed adjustment, rotary spinner speed adjustment, and ground based blast mode momentary, timed, or distance. Must have standby mode.	X			
iv) Temperature sensor, which shall be capable of displaying ambient air and pavement temperature simultaneously. Force America kit "6100-10-ROADTEMP-SENSOR" unit shall include, RoadWatch® BULLET™ temperature sensor part #849-1243-000 and must be compatible with the specified Force America 6100 sander controller. Temperature sensor shall be mounted to the mirror bracket of the truck and wire routed into the cab and connected directly to the 6100 sander control core module.	X			
v) Features				
(1) Remote mounted, 7" color LCD to display all spreader functions.	X			
(2) Five current compensated valve drive outputs.	X			

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(3) Three types of material and ten programmable spread rates.	X	—	
(4) Bi-directional RS232 for data collection.	X	—	
(5) The electronic spreader firmware shall be upgradeable by downloading files from the supplier's web site at no charge to NDDOT for the life of the unit.	X	—	
(6) Closed loop granular feedback sensor and cabling.	X	—	
(7) Programming shall provide for automatic default to open loop in the event of a feedback failure.	X	—	
(8) Unit must have the ability to cross calibrate from closed loop to open loop operation.	X	—	
(9) Multi-lane dual boom direct liquid.	X	—	
(10) Supervisor access security key for each district.	X	—	
(11) Unit shall have a stationary unload feature for granular, prewet, and anti-ice functions.	X	—	
(12) Application rate limit adjustable from 20-3000 lb/mile. Hydraulic vendor to assist with final calibration upon delivery.	X	—	
g) Control Center			
i) Force America Patrol Commander Ultra Series or pre-approved equal. The control center must be an integral unit used for controlling the work functions of the electro/hydraulic control valves. The control center is to have the capabilities to install the spreader control box as a separate item to the control panel. The control panel is to have the capabilities to joystick control the miniature proportional joysticks for valve control of the dump box, front plow, underbody scraper, wing toe, and wing heel along with underbody scraper and wing disabling switches. Two-step select and operate systems are not acceptable.	X	—	
ii) Single miniature joystick shall control the hoist with center interlock or dead-man switch, and also contain integral dual axis miniature proportional joystick controls for plow, underbody scraper and wing along with three push button switches for spreader blast, standby, and box vibrator. The scraper control must be held in the down position for 3 seconds to activate automatic scraper down pressure mode. The controller must activate pre-wet ball valve in conjunction with the sander.	X	—	
iii) There shall be a pressure transducer installed in the scraper circuit to monitor the down pressure on the scraper. The transducer shall be wired into the valve module and the scraper pressure shall be read on the 7" color LCD spreader display.	X	—	
h) Wiring			
i) All wiring shall have color-coding with amp style connectors to connect the control panel and to valve enclosure. All connector pins shall be gold style to ensure good connections between the connecting halves. All wiring inside the valve enclosure shall have LED lights to indicate which valves are operating when function is required. All wiring inside of the enclosure shall be connected to the amp style connector to facilitate proper connection between the inside of the box and the outside of the box.	X	—	

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ii) The wire ends are to be ITT or Cannon type connectors to connect the wire harness to the valves. The wire harness shall be wrapped to provide protection of the wires and used as a way to bundle the wires in a neat package.	X	—	
iii) The main control panel shall have its own power source with on/off to be controlled by ignition key switch via relay.	X	—	
iv) Parts manuals, service literature, driver, and 6 hours service training per location must be supplied at no extra charge. Payment contingent on performance.	X	—	
v) Each truck style box shall be wired identically and have the same color/size wiring to each circuit.	X	—	
i) Seat mounted hydraulic and sander controls to move with the seat suspension. The length and height not to obstruct the view of the operator dashboard. The position to be determined by the vendor and NDDOT. Bracket to be made of aluminum.	X	—	
i) The design and location must be approved on prototype (see attached photo). All openings shall be grommetted and sealed with an appropriate caulking. Final mount to be approved.	X	—	
j) Switches and Indicator Lights			
i) The switch panel will be included, installed, pre-wired and circuit breaker protected by OEM of truck.	X	—	
ii) Panel Switches:	X	—	
(1) Front and rear amber warning.	X	—	
(2) Rear clear warning.	X	—	
(3) Work light.	X	—	
(4) Momentary switch for box vibrator.	X	—	
(5) Momentary switch for hydraulic pump override.	X	—	
(6) Air tailgate.	X	—	
iii) Body vendor to provide the following:			
(1) Switches and indicators to be mounted in control panel. All switches, functions & names shall be backlit/illuminated.	X	—	
(a) Auto recall switch(ability to lift all plows)	X	—	
(b) Wing disable switch.	X	—	
(c) Underbody disable switch.	X	—	
(d) Liquid switch.	X	—	
(e) Spreader switch.	X	—	
(f) All switch labeling to include OEM switches if not provided by truck manufacturer. Any additional labels provided by the truck manufacturer to be left in truck cab for future labeling of any unused switches.	X	—	
(2) Indicator lights for body up/down (red), low hydraulic oil, oil temp, located in the panel. The warning lights shall flash when activated, audible alarms to be disabled.	X	—	
(3) An 80-amp thermal breaker with manual reset shall be provided in the wire between the power source and the switch panel.	X	—	

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(a) Power wire from battery to 80amp thermal breaker shall be protected by 100 amp fuse located in battery box to protect circuit between battery and thermal breaker	X	—	_____
(4) One wire shall be run from the switch accessory and one wire form the battery to the switch panel.	X	—	_____
k) Special Accessory Wiring			
i) Requirements – a 75 amp constant duty relay shall be provided to remove specified accessory circuits from the ignition key switch to prevent switch overloads, yet retaining key switch on/off control. Circuits controlled through relay shall include all console switches and functions, except plow lights and FM radio power source. Accessible terminals shall also be available for controlling additional department-installed equipment. This relay may be part of the hydraulic control counsel circuitry.	X	—	_____
ii) Headlight switching control will be part of the OEM truck bid.	X	—	_____
l) Hydraulic hoses to be U.S. made WeatherHead™, Parker™ or approved equal as follows:			
i) 2" suction line – SAE 100 R4	X	—	_____
ii) 1" pressure (pump to valves) – SAE 100 R2	X	—	_____
iii) Hoist (not smaller than port size) – SAE 100 R2	X	—	_____
iv) Return line 1 ¼" – SAE 100 R1	X	—	_____
v) Plow lift, reversing ½" – SAE 100 R2	X	—	_____
(1) Reversing hoses terminated with Pioneer 9500 series ½" female lever quick coupler breakaway kit No. 9500-4 mounted to driver's side of quick hitch at height of the top of truck frame. (See photo)	X	—	_____
m) Hydraulic lines for the sander shall be routed through the rear box corner with through fittings, Parker brass anchor connectors 207ACBH or equal into box corner and quick couplers with tethered dust caps at that point. They should be routed to the side, which is most efficient for the type of sander to be installed. A protective shield shall be installed to protect hoses from wheel spray. The return shall be split outside of box and have one 1" and one ½" coupler to allow for two return hoses from tailgate sander.	X	—	_____
i) Two main supply sander lines shall be ¾" schedule 80 high-pressure pipe. Return line pipe to be 1" no less than SAE R1. Black pipe acceptable, to be spaced for material to fall through. Design to be approved on prototype.	X	—	_____
ii) Hose from valve body and from sander connection, high-pressure line shall be two wire SAE 100 R2 rated.	X	—	_____
iii) Hose from reservoir and from sander connection to the return line shall be no less than one wire 1250 psi and must be plumbed in ahead of the return line filter.	X	—	_____
iv) Sander lines are to be fastened with hold-downs, which are removable for maintenance and shall keep the lines free from interference of hoist functions.	X	—	_____

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|---|---|---|---------------------|
| n) All pressure line fittings shall use high-pressure steel adapter fittings with swivel couplings to allow easy hose or component removal. (JIC 37° flare fittings wherever possible and practical) Return lines must use appropriate fittings for pressure present. All hoses from the back of the black pipe to the anchor connectors in the box must have 37° flare swivel fittings throughout. | X | — | _____ |
| o) All test ports for testing shall be accessible for connecting test gauge. | X | — | _____ |
| p) All hydraulic hosing to be routed, secured, and protected from pinching or abrasion. Securing of hoses to be designed to withstand severe ice and snow buildup. Use heavy J-hook style hose hangers as necessary. Routing and support to be approved. | X | — | _____ |
| 9) Dump Box | | | |
| a) 8 cubic yard capacity with 10 yard ends. | X | — | _____ |
| b) Approximate inside dimensions: 14' x 7' x 2'-4". Width of box to extend over rear duals. | X | — | _____ |
| c) Front and rear ends to be minimum 6" higher than sides and equipped with pockets for 2" wide sideboards. | X | — | _____ |
| d) ¼" stainless steel floor, 7-gauge stainless steel sides and tailgate, with steel certification. | X | — | _____ |
| e) 30-degree minimum slope on side running boards. | X | — | _____ |
| f) Boxed top rail at sides and front. | X | — | _____ |
| g) Sides to have a boxed type 8 gauge full length horizontal side brace with a minimum 30-degree top slope. The bottom sill shall have an additional 3" x ½" x 6' loader strike plate. Both sides. | X | — | 7 ga. Exceeds spec. |
| h) Front head to have a centered V-type brace. | X | — | _____ |
| i) Free standing/stationary cab guard shall be approximately 24" with width to widest point of cab and adequate height to provide proper cab clearance. Cab guard shall allow for the chassis exhaust system to pass through or along side to give the best cab protection without modification of the exhaust system. If the exhaust system must be modified it must be approved. All modifications are at the box vendor's expense. (See drawing) | X | — | _____ |
| ii) Cab shield panel to be minimum 10 gauge stainless steel. | X | — | _____ |
| iii) Uprights shall be standard 6" channel to top part of cab and for cross member. | X | — | _____ |
| (1) Upright flanges shall face away from center of chassis. | X | — | _____ |
| (2) Each upright shall be bolted with a minimum of 4 each of 5/8" grade 8 bolts to chassis rails. | X | — | _____ |
| (3) 6" channel to be placed between the uprights (flanges down) on the top of the frame rails and properly welded to uprights. This channel shall not be welded to frame rails. Hydraulic tank brackets to be welded to topside of channel. | X | — | _____ |
| iv) Top cross member shall be welded to uprights and gusseted with two ¼" plates of 6" x 6" x 8 ½" dimensions at rear part of assembly. | X | — | _____ |
| v) Cab shield shall be continuously welded or bolted with grade 8 bolts to uprights and top cross member. | X | — | _____ |
| (1) Reinforced and welded to cross member with two 3" — 4.1# channel irons, which are extended the full length of the cab shield and align with the 6" channel uprights. | X | — | _____ |
| (2) Adequately gusseted from 3" channel iron to 6" channel iron. | X | — | _____ |
| (3) Welded to 3" channel irons with flanges downward. | X | — | _____ |

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springville
SB3-112 x 8
Air mac valve

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a) Dump Box

- i) Lights to meet ICC regulations.
- ii) Clearance lights and reflectors - Minimum two amber clearance lights in front and two red clearance lights in rear of box.
 - (1) Minimum 9 diode high count LED lamps, Grote G3002 red, Grote G3003 yellow or equal.
- iii) **Relocate factory** LED Stop/Turn/Tail & Backup lights to have a 4" x 1/4" stainless steel bolted on rectangular shield around them. Taillights mounted on the outer edge of the box with bolt on brackets leaving a 1" air gap between housing and box side. Height 68" - 72" from ground level to center of S/T/T light. Exact location to be approved.
 - (1) Stop/Turn/Tail light to be Whelen 700 series, (7" x 3") or pre-approved equal mounted in 700 series rectangular stainless steel housing. **Located below the white warning light on rear telesbar.**

X	—	_____
X	—	_____
X	—	_____
X	—	_____

b) Front Plow Lights – NOTE: All wiring to have protective covering and routed so as not to be pinched or worn prematurely from rubbing or chafing. Truck will be factory wired for plow lights to the hood hinge area with switch installed on instrument panel.

- i) **Truck Lite #80990** snowplow lights or equal.
- ii) Housings to be corrosion and impact resistant.
- iii) LED lamps.
 - (1) High/low beam, 12 volt.
 - (2) Turn signal/parking lamp.
- iv) Light support – 1 1/4" steel angle to be fastened with existing grill bolts. Angle to be approximately 2' long, not to exceed hood height. Light mounted to 1" square tubing with adjustment holes capable of adjusting to an additional height of 24". 1 1/4" angle welded to top of square tubing and angle braced to extend light to position directly above OEM headlights. All fasteners attached to factory hood/grille must use rubber or other insulating/dampening material between hood/grille and plow light bracket. Design to be approved.
- v) Wiring to be connected to OEM wiring at hood hinge area and can be disconnected using a GM weatherpack connector or approved equal.
- vi) All wire splices shall be soldered and protected with heat shrink covering.
- vii) Wires to be properly grounded.

X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____

c) Top/Rear plow light system. SIX LIGHT HEAD SYNCHRONIZED LED WARNING LIGHT SYSTEM (Must meet specification SSP-01) NOTE: All wiring for strobe lights shall be protected from abrasion and shielded from mud and ice buildup. All holes for wiring must be grommited.

- i) Four rear mounted remote LED Warning light head assemblies, two amber and two clear. Continuous individual wiring from each light to the rear electrical housing and then to the control panel.
- ii) Two cab guard mounted 180 degree LED warning light head assemblies. Continuous individual wiring from each light to the control panel.

X	—	_____
X	—	_____
X	—	_____

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|---|----------|-------|-------------------------------|
| (1) Mount level to front corners of cab guard, extendable from width of cab guard to outside width of mirrors through use of tube-in-tube design. Design must be approved. (See photo example) | <u>X</u> | _____ | _____ |
| (2) Wiring for light heads from chassis frame to top of cab guard to be routed through metal conduit attached to the cab guard upright or split loom and tube clamps may be used as long as the clamps have maximum spacing of 12 inches. | <u>X</u> | _____ | _____ |
| iii) LED warning light system with heavy duty DOT solid state flasher with diagnostics. | <u>X</u> | _____ | _____ |
| iv) Rear light electrical connectors housed in PVC access fitting connectors and PVC fittings provided by the strobe system supplier. | <u>X</u> | _____ | _____ |
| v) Rear light support – 1 ½" square telspar steel tubing mounted approximately 60 degrees on rear of box and roughly adjustable from 9' – 12'. Tubing to be angled to the rear but not extending more than 18" behind box. Square tube support bracket not acceptable. Mounting brackets to be as high on the side of box as possible without interfering with tailgate operation or hinge pin removal. | <u>X</u> | _____ | _____ |
| (1) See pictures of DOT support bracket to allow telspar tubing to pivot from vertical to horizontal. Nylon bushings shall be installed on both sides of pivot pin to hold telespar tubing from vibration but still allow free pivot movement. DOT will supply prototype bracket to awarded vendor. | <u>X</u> | _____ | _____ |
| (2) Amber LED lights to be mounted to top of support. Clear LED lights to be mounted ½ the distance from top of support to top of box. Stainless steel fasteners to be used for the mounting of the aluminum light heads to the telspar along with nylon isolating washers placed between telspar and aluminum light head to prevent corrosion caused by dissimilar metals. | <u>X</u> | _____ | _____ |
| e) One wing and one underbody scraper 12V LED work light, located at the rear corners of the cab. One sander work light located under left taillight housing. Final location to be determined upon award. All three lights to be wired to one work light switch. Truck Lite #8160 or equal | <u>X</u> | _____ | _____ |
| i) Housings to be corrosion and impact resistant. | <u>X</u> | _____ | _____ |
| (1) Weatherproof. | <u>X</u> | _____ | _____ |
| ii) Universal mounting stud and adjustable bracket. | <u>X</u> | _____ | _____ |
| 11) Hoist | | | <i>Crysteel m163138</i> |
| a) NTEA rated and classified. | <u>X</u> | _____ | <i>Double Acting</i> |
| b) Class 80, telescopic. | <u>X</u> | _____ | <i>Class 120-Exceeds spec</i> |
| i) Cylinder to have full power up and full power down. | <u>X</u> | _____ | <i>not nitrated</i> |
| ii) Melonized cylinder rod surfaces with a predominance of single-phase epsilon nitride to cover entire surface. | <u>X</u> | _____ | <i>Approved by Addendum</i> |
| c) Minimum hinge pin diameter – 1 15/16" hardened steel. | <u>X</u> | _____ | _____ |
| d) Minimum dumping angle – 50 degrees at 12" overhang. | <u>X</u> | _____ | _____ |
| e) Minimum of 1 ½" chassis frame extending beyond wing cross tube to allow for pintle plate mounting. | <u>X</u> | _____ | _____ |
| f) In cab, box up indicator light (see panel switches), to be coil spring wobble lever, sealed, snap action switch, frame mounted, Grainger stock no. 3A096 or equal. | <u>X</u> | _____ | _____ |

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- g) Safety prop(s) to support body at 20-degree angle, frame mounted, self-aligning for one person operation, easily accessible. Prototype to be approved.

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12) General

- a) Paint – All non-stainless steel to be primed and painted black.
- b) Spot painting must include hardener and be applied with spray gun.
- c) Mud flaps front and rear of rear tires, 24" wide by 30" long, made of 5/16" quality rubber. Stainless steel brackets. The rear flaps must be quick to remove through the use of a 1/2" round rod and spring clip and free swinging. The front flaps fastened permanently with anti-sail devices mounted to prevent tire contact.
- d) Tool box 18" x 18" x 24". All aluminum construction, .125 Treadbrite. Bottom hinged door. Full-length corrosion resistant hinge. Key lockable paddle latch with adjustable striker plate. Full neoprene door seal. Two chain or cable door retainers. Drip rail or door recess. Five year product warranty. Acceptable brand: Alum-Line, American or RKL. Other brands must be pre-approved.
- i) Mounted with 2" mild steel channel, two cross supports under floor of box and gusseted. Mounting contact areas between aluminum and steel to be isolated with fuel tank rubber belting or similar
- e) Must use stainless steel fasteners when mounting to stainless steel. Except where strength is needed.
- f) Appropriate steps must be taken to keep mild steel and stainless steel cross contamination from occurring.
- g) Install 30' of reflexite V82 red and white reflective conspicuity tape on box. Location to be approved by NDDOT.

✓

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X

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X

X

- 13) Snow Plow Quick Hitch, Falls 26B, Monroe FLS26BND, Henderson H46B-ND, or equal. Mounting and location to be approved.

✓

Falls 26B

- a) Snowplow connecting mechanism shall be the Rapid Push Bar Quick Coupler as manufactured by Little Falls Machine, Inc., Monroe, Henderson or equal.
- b) Quick coupler system shall incorporate push arm receptor sockets with spring loaded tapered pins for proper pin alignment. Grease zerks installed for pin lubrication. Pin retractor mechanism shall be conveniently located for ease of operation.
- c) Mounting system shall adapt to frame rails of truck chassis and shall be adequately braced with grade 8 frame bolts meeting SAE J-429 specification to the truck chassis frame by minimum 3/4" x 4" A-36 steel bars which will be additionally reinforced. Stabilizer arms shall be attached to the frame by means of 1/2" thick steel Z brackets. Vertical risers and plow lifting yoke shall be low profile to allow clearance for tilting hood without tilting or disconnecting plow hitch.
- d) Universal lift arm to be adjustable inward/outward using heavy-duty square tube within square tube with pin adjustment. Shall be capable of lifting reversible or V-plows weighing as much as 3000 lbs.
- e) Hydraulic plow lift cylinder shall be minimum 4" x 10" single acting type with chrome-plated rod. Hydraulic cylinder shall be certified to a minimum of twice (2X) the working pressure (2250PSI) of the hydraulic system.
- f) Hydraulic ball valve at lift cylinder to shut off oil flow when plow is not in use.

✓

X

✓

✓

X

✓

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Specifications for Hydraulics & Dump Box, Approximately 58,000 lbs G.V.W.

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- g) Mounting height shall be 15" to center of connecting pin. Hitch to be cushioned where tilting hood may strike when opened. X —
- h) Complete hitch shall be primed and painted to match the truck frame. X —
- 14) Trailers pull plate, pintle hitch, D-rings, electrical connector, and glad hands installed on the truck. See enclosed drawing. Note: disregard the location of the light plug-ins on the drawing. The successful vendor must approve the entire hitch design with NDDOT and build a prototype for approval on the first truck.
- a) Must be made using 3/4" material for the plate and gussets. X —
- b) Must provide a Holland PH410 pintle hitch rated at 20,000lb vertical load and 100,000lb gross trailer weight installed with grade eight bolts and lock nuts. X —
- c) Two D-rings on each side of the pintle hitch rated for 100,000lb of gross trailer weight between the two. Tandemloc® 9202-DS79 or equal X —
- d) 2.5" receiver welded into the plate below the pintle hitch. To be used for towing as well as spinner mounting. X —
- e) Pull plate must be properly braced and welded to be rated for 100,000lb gross trailer weight. X —
- f) The round seven pin trailer light connector and two glad hands are to be mounted on right side fender on RDS bodies and on the right side of the body on dump bodies using all stainless steel hardware. Location and process must be approved by NDDOT. X —
- 15) Warranty
- a) One-year full unconditional warranty, manufacturer's warranty shall apply if for longer period. X —
- 16) Delivery
- a) Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. **Grease bank hoses must be primed/prefilled.** Truck must pass a final inspection performed by NDDOT employees before delivery can be made. X —

5-year limited warranty on Body & Hoist

BODY MAKE: Crysteel MODEL: Select stainless steel 14'

HOIST MAKE: Crysteel MODEL: M63138DA

PUMP MAKE: Force America MODEL: CF6-029095 - 622AK-R-CFG-Repto Per Spec.

QUICK HITCH MAKE: Falls MODEL: 2603-ND-00T

LED WARNING LIGHT SYSTEM MANUFACTURER: Whelen

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
HYDRAULICS AND DUMP & SPREADER BOX FOR UNDERBODY & WING
(FOR TANDEM AXLE TRUCK – APPROXIMATELY 58,000 LBS G.V.W.)

Bidders Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

General Information:

The hydraulics, box, and installation by the successful bidder must be complete in every aspect of the following specifications. All stainless steel components to be made of 201 or 304 grade. The painting of all installed accessories shall be complete and absolute, including primer. All minor items including, but not limited to, conduit, connectors, tape, paint, fittings, fuses, etc., are the responsibility of the bidder. When specifications do not clearly identify the proper installation or it is obvious there is an error, Tim Paul at State Fleet Services (701-328-1465) must be contacted for direction. A plan for mounting locations of the tool box, hydraulic reservoir, valve enclosure, ladder, etc. must be submitted to State Fleet and a prototype will be approved. It shall be the responsibility of the installer to relocate OEM and non-OEM components to accommodate the accessories if required by NDDOT. Frame modifications to accommodate pump, or other equipment installation are not acceptable. Complete hydraulic system provided to be from one common supplier or source. No additional monetary amount will be allowed.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
17) Hydraulics – Rear engine power take off (Repto).	<u>X</u>	—	
a) Hydraulic pump: Eaton 622AK-R.	<u>X</u>	—	<u>622AK-R-Repto -</u>
i) 6.0 CID.	<u>X</u>	—	<u>9332A001</u>
ii) 24.7 GPM at 1000 RPM.	<u>X</u>	—	
iii) Load sensing with adjustable compensator with system pressure set for optimum performance of installed components.	<u>X</u>	—	
iv) 1 1/4" keyed shaft w/hardened formed key.	<u>X</u>	—	
v) Side ported.	<u>X</u>	—	
vi) Automatic electric pump outlet shut off if oil level drops to an insufficient level, with override switch.	<u>X</u>	—	
vii) Pump to be mounted with pressure compensator orientated to top side	<u>X</u>	—	
b) Balanced driveline: Spicer 1310/1350/1380 series or equal.	<u>X</u>	—	
i) Splined slip yoke on both ends of driveline to allow for movement.	<u>X</u>	—	<u>single slip yoke</u>
ii) 4 bolt flange for mounting on both ends of drive line.	<u>X</u>	—	
iii) Non greaseable U-joints	<u>X</u>	—	
iv) Tube to be filled with material to prevent driveline moan.	<u>X</u>	—	
v) Use anti-seize when assembling removable parts.	<u>X</u>	—	
vi) REPTO adapter to be forged steel construction the installer responsible to provide adaptor if needed.	<u>X</u>	—	
c) Mounting: Shaft centerline at least one degree to the repto centerline not to create more than a three-degree angle. Shaft to have enough movement to allow removal of driveshaft without loosening or removing hydraulic pump.	<u>X</u>	—	

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
iii) Body vendor provided bracket fabricated to mount in the extended frame rails.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Reservoir: mounted between cab guard uprights, 10 gauge steel, 40-gallon capacity with baffle. Tank dimensions and height to be determined on prototype. Tank to be secured down by steel straps.(see drawing)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iii) Basket type filler breather cap.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iv) Magnetic drain plug, easily accessible.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v) 3" OD with 2" ID NPT suction strainer with 100 mesh screen type filter.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vi) Separate return port for control drain line.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vii) Sight temperature gauge externally mounted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
viii) 2" full flow brass ball valve for suction line shutoff.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ix) Electric level and temperature sending unit, wired to control panel and back lit for "low oil" and "oil temp" warning.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
x) In-tank return filter to handle flow requirements and have porting of at least 1 1/4". Filter to have both visual and electrical indicators. Filter element shall be 10 micron "absolute" rated for no less than 80 GPM. Filter assembly shall be Filtration Products No. FFPR25-20N, Zinga TS-1200-25-1-0/ZSRE-409-10 or approved equal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
xi) In-line pressure filter system to be installed between pump outlet and valve body inlet. Pressure filter to be mounted near hydraulic reservoir and orientated to allow for easy unobstructed service. Filter to have electrical restriction indicator viewable on in-cab LCD screen. Filter to be Eaton#300150 or equal. 60GPM flow minimum, 3,000 psi. Filter housing kit to be Force America # HP17125VG30EPUG5S2AE7050P or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
xii) Hydraulic system shall be filled with the hydraulic oil under current contract with NDDOT. The contract vendor is to provide oil to the installer at contract price. Pricing available from State Fleet or https://secure.apps.state.nd.us/csd/spo/services/bidder/listCurrentContracts.htm . Oil to be Cenex, Quicklift® HTB Low Viscosity winter fluid.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Electro/Hydraulic Valves: Shall be Force America add-a-fold or approved equal. The control valves shall be pulse-width modulated and where indicated proportionally controlled. All segments shall have heavy-duty continuous coils and connections shall be Hirshman or ITT Cannon type connectors. Each segment shall be equipped with a manual override. Each segment shall have adjustable flow control. Valve sections to be arranged as follows:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iii) Hoist, 4-way double acting with down side 500 psi relief, proportional control.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iv) Plow lift, 3-way.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v) Plow angle, 4-way.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vi) Scraper lift, 4-way, adjustable to maintain a constant psi of 300-500 hydraulic pressure down on road.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vii) Scraper angle, adjustable cross-port relief set @ 1200 psi or at scraper manufacturer's recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
viii) Wing toe (post), 4-way, adjustable work port relief up and down.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

SSP-22-2ADSUBW

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
ix) Wing heel, 4-way, proportional control, adjustable work port relief up and down.	<u>X</u>	—	_____
x) Auger, proportional, 2-way with minimum flow rate of 21 GPM, adjustable work port relief.	<u>X</u>	—	_____
xi) Anti-ice, proportional, 2-way with minimum flow rate of 14 GPM.	<u>X</u>	—	_____
xii) Spinner, proportional, 2-way with minimum flow rate of 7 GPM.	<u>X</u>	—	_____
(1) Note: The last two functions, Anti-ice and Spinner will be supplied with a two-function manifold using Hirschman or ITT cannon type connectors. This manifold would also include an integral end cover function.	<u>X</u>	—	_____
xiii) Valve Enclosure to have the capability of housing 10 to 11 valve sections: Designed to be weatherproof and protect the valves and valve operators from road contaminants. Located vertically on cab guard on drivers side (see attached photo). Must provide rubber bumper to protect cab from valve enclosure door.	<u>X</u>	—	_____
(1) Easy serviceability with unobstructed access to all valves under cover.	<u>X</u>	—	_____
(2) Valve Enclosure to have removable weather-tight access panel on inboard side to permit field removal of spool valves without removing valve manifold assembly from enclosure.	<u>X</u>	—	_____
f) Spreader Control			
iii) Force America 6100 or pre-approved equal. The electronic spreader control shall be designed for precise, closed loop control of granular material and direct liquid application. The unit must be protected from reverse polarity, as well as over-voltage protected.	<u>X</u>	—	_____
iv) The unit must be supplied with easy to service speedometer connection, valve control connection, and main power connection.	<u>X</u>	—	_____
v) The unit must have full featured micro-processor control and provide operational modes for manual, open loop, or closed loop. In addition, the unit must be compatible with information management systems (GPS), provide rotary auger speed adjustment, rotary spinner speed adjustment, and ground based blast mode momentary, timed, or distance. Must have standby mode.	<u>X</u>	—	_____
vi) Temperature sensor, which shall be capable of displaying ambient air and pavement temperature simultaneously. Force America kit "6100-10-ROADTEMP-SENSOR" unit shall include, RoadWatch® BULLET™ temperature sensor part #849-1243-000 and must be compatible with the specified Force America 6100 sander controller. Temperature sensor shall be mounted to the mirror bracket of the truck and wire routed into the cab and connected directly to the 6100 sander control core module.	<u>X</u>	—	_____
vii) Features			
(1) Remote mounted, 7" color LCD to display all spreader functions.	<u>X</u>	—	_____
(2) Five current compensated valve drive outputs.	<u>X</u>	—	_____
(3) Three types of material and ten programmable spread rates.	<u>X</u>	—	_____
(4) Bi-directional RS232 for data collection.	<u>X</u>	—	_____
(5) The electronic spreader firmware shall be upgradeable by downloading files from the supplier's web site at no charge to NDDOT for the life of the unit.	<u>X</u>	—	_____

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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	COMPLY YES	NO	SPECIFICATION DEVIATIONS
(6) Closed loop granular feedback sensor and cabling.	X	—	_____
(7) Programming shall provide for automatic default to open loop in the event of a feedback failure.	X	—	_____
(8) Unit must have the ability to cross calibrate from closed loop to open loop operation.	X	—	_____
(9) Multi-lane dual boom direct liquid.	X	—	_____
(10) Supervisor access security key for each district.	X	—	_____
(11) Unit shall have a stationary unload feature for granular, prewet, and anti-ice functions.	X	—	_____
(12) Application rate limit adjustable from 20-3000 lb/mile. Hydraulic vendor to assist with final calibration upon delivery.	X	—	_____
g) Control Center			
iii) Force America Patrol Commander Ultra Series or pre-approved equal. The control center must be an integral unit used for controlling the work functions of the electro/hydraulic control valves. The control center is to have the capabilities to install the spreader control box as a separate item to the control panel. The control panel is to have the capabilities to joystick control the miniature proportional joysticks for valve control of the dump box, front plow, underbody scraper, wing toe, and wing heel along with underbody scraper and wing disabling switches. Two-step select and operate systems are not acceptable.	X	—	_____
iv) Single miniature joystick shall control the hoist with center interlock or dead-man switch, and also contain integral dual axis miniature proportional joystick controls for plow, underbody scraper and wing along with three push button switches for spreader blast, standby, and auxiliary function. The scraper control must be held in the down position for 3 seconds to activate automatic scraper down pressure mode. The controller must activate pre-wet ball valve in conjunction with the sander.	X	—	_____
v) There shall be a pressure transducer installed in the scraper circuit to monitor the down pressure on the scraper. The transducer shall be wired into the valve module and the scraper pressure shall be read on the 7" color LCD spreader display.	X	—	_____
h) Wiring			
iii) All wiring shall have color-coding with amp style connectors to connect the control panel and to valve enclosure. All connector pins shall be gold style to ensure good connections between the connecting halves. All wiring inside the valve enclosure shall have LED lights to indicate which valves are operating when function is required. All wiring inside of the enclosure shall be connected to the amp style connector to facilitate proper connection between the inside of the box and the outside of the box.	X	—	_____
iv) The wire ends are to be ITT or Cannon type connectors to connect the wire harness to the valves. The wire harness shall be wrapped to provide protection of the wires and used as a way to bundle the wires in a neat package.	X	—	_____
v) The main control panel shall have its own power source with on/off to be controlled by ignition key switch via relay.	X	—	_____

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	COMPLY		SPECIFICATION
	YES	NO	DEVIATIONS
vi) Parts manuals, service literature, driver, and 6 hours service training per location must be supplied at no extra charge. Payment contingent on performance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vii) Each truck style box shall be wired identically and have the same color/size wiring to each circuit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i) Seat mounted hydraulic and sander controls to move with the seat suspension. The length and height not to obstruct the view of the operator dashboard. The position to be determined by the vendor and NDDOT. Bracket to be made of aluminum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iii) The design and location must be approved on prototype (see attached photo). All openings shall be grommetted and sealed with an appropriate caulking. Final mount to be approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j) Switches and Indicator Lights			
iii) The switch panel will be included, installed, pre-wired and circuit breaker protected by OEM of truck.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iv) Panel Switches:			
(1) Front and rear amber warning.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(2) Rear clear warning.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(3) Work light.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(4) Momentary switch for box vibrator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(5) Momentary switch for hydraulic pump override.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(6) Air tailgate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v) Body vendor to provide the following:			
(1) Switches and indicators to be mounted in control panel. All switches, functions & names shall be backlit or illuminated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(a) Auto recall switch (give you the ability to lift all plows).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(b) Wing disable switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(c) Underbody disable switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(d) Liquid switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(e) Spreader switch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(a) All switch labeling to include OEM switches if not provided by truck manufacturer. Any additional labels provided by the truck manufacturer to be left in truck cab for future labeling of any unused switches.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(2) Indicator lights for body up/down (red), low hydraulic oil, oil temp, located in the panel. The warning lights shall flash when activated, audible alarms to be disabled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(3) An 80-amp thermal breaker with manual reset shall be provided in the wire between the power source and the control center.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(a) Power wire from battery to 80amp thermal breaker shall be protected by 100 amp fuse located in battery box to protect circuit between battery and thermal breaker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(4) One wire shall be run from the switch accessory and one wire form the battery to the switch panel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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k) Special Accessory Wiring

- iii) Requirements – a 75 amp constant duty relay shall be provided to remove specified accessory circuits from the ignition key switch to prevent switch overloads, yet retaining key switch on/off control. Circuits controlled through relay shall include all console switches and functions, except plow lights and FM radio power source. Accessible terminals shall also be available for controlling additional department-installed equipment. This relay may be part of the hydraulic control counsel circuitry.

X

- iv) Headlight switching control will be part of the OEM truck package.

X

l) Hydraulic hoses to be U.S. made Weatherhead, Parker or approved equal as follows:

- iii) 2" suction line – SAE 100 R4
- iv) 1" pressure (pump to valves) – SAE 100 R2
- v) Hoist (not smaller than port size) – SAE 100 R2
- vi) Return line 1 1/4" – SAE 100 R1
- vii) Plow lift, reversing 1/2" – SAE 100 R2

X

X

X

X

X

- (1) Reversing hoses terminated with Pioneer 9500 series 1/2" female lever quick coupler breakaway kit No. 9500-4 mounted to driver's side of quick hitch at height of the top of truck frame. (See photo)

X

- viii) Hose from valve body to sander connection high-pressure line shall be sized according to body manufacturer recommendation and be two wire SAE 100 R2 rated.

X

- (1) Any piping must be schedule 80 high-pressure pipe to be spaced for material to fall through. Design to be approved on prototype.

X

- ix) Hose from reservoir and from sander connection to the return line shall be no less than one wire 1250 psi and must be plumbed in ahead of the return line filter.

X

- m) All pressure line fittings shall use high-pressure steel adapter fittings with swivel couplings to allow easy hose or component removal. (JIC 37° flare fittings wherever possible and practical) Return lines must use appropriate fittings for pressure present. All hoses from the back of the black pipe to the sander connection must have 37° flare swivel fittings throughout.

X

- n) All test ports for testing shall be accessible for connecting test gauge.

X

- o) All hydraulic hosing to be routed, secured, and protected from pinching or abrasion. Securing of hoses to be designed to withstand severe ice and snow buildup. Use heavy J-hook style hose hangers as necessary. Routing and support to be approved.

X

X

Bonnie 14' Locomotor

18) Dump & Spreader Box

- b) Body shall be of standard production, versatile, with the ability to be used as a dump body or as a spreader to allow material to discharge through the tailgate onto a spinner assembly. **The body shall be capable of containing material inside box without leaking.**

X

- c) The body shall be 14' in length and top outside width shall be 96", with a minimum of 8 cubic yard capacity. Continuous welds throughout.

X

- d) Minimum 7 gauge stainless steel, one piece sides of a radius or trapezoidal design or of not less than a 35° slope if non radius or trapezoidal. Understructure and floor to be minimum of 3/16" stainless steel.

X

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- | | | | |
|---|---|---|-------|
| e) Front and rear ends to be minimum 6" higher than sides and equipped with pockets for 2" wide sideboards. | X | — | _____ |
| f) Body longitudinals should be of height to provide sufficient clearance between body-mount fenders and top of wing post | X | — | _____ |
| g) Integral box mounted rear fenders to cover wheels of truck chassis. Designed with no raised edges to trap material and the strength to carry and support a minimum of 200 gal pre-wet tanks filled to capacity with fluid chemicals weighing up to 14 lbs per gallon. (One each side). | X | — | _____ |
| iii) Brine tanks not to protrude beyond fender width. | X | — | _____ |
| h) Boxed top rail at sides and front. | X | — | _____ |
| i) Free standing/stationary cab guard shall be approximately 24" with width to widest point of cab and adequate height to provide proper cab clearance. Cab guard shall incorporate square tubing into the front corners to allow for adjustable warning light supports. Cab guard shall allow for the chassis exhaust system to pass through or alongside to give the best cab protection without modification of the exhaust system. If the exhaust system must be modified it must be approved. All modifications are at the box vendor's expense. (See drawing) | X | — | _____ |
| iii) Cab shield panel to be minimum 10 gauge stainless steel. | X | — | _____ |
| iv) Uprights shall be standard 6" channel to top part of cab and for cross member. | X | — | _____ |
| (1) Upright flanges shall face away from center of chassis. | X | — | _____ |
| (2) Each upright shall be bolted with a minimum of 4 each of 5/8" grade 8 bolts to chassis rails. | X | — | _____ |
| (3) 6" channel to be placed between the uprights (flanges down) on the top of the frame rails and properly welded to uprights. This channel shall not be welded to frame rails. Hydraulic tank brackets to be welded to topside of channel. | X | — | _____ |
| v) Top cross member shall be welded to uprights and gusseted with two 1/4" plates of 6" x 6" x 8 1/2" dimensions at rear part of assembly. | X | — | _____ |
| vi) Cab shield shall be continuously welded or bolted with grade 8 bolts to uprights and top cross member. | X | — | _____ |
| (1) Reinforced and welded to cross member with two 3" – 4.1# channel irons, which are extended the full length of the cab shield and align with the 6" channel uprights. | X | — | _____ |
| (2) Adequately gusseted from 3" channel iron to 6" channel iron. | X | — | _____ |
| (3) Welded to 3" channel irons with flanges downward. | X | — | _____ |
| (4) Have provisions that do not allow ponding of water. | X | — | _____ |
| vii) 1/4" x 2" x 2" angle iron shall be welded at bottom of cab shield between uprights to support cab shield. | X | — | _____ |
| viii) Rubber seal/wiper between shield and dump body. Shall not allow accumulation of material between body and cab guard. | X | — | _____ |
| ix) Shovel holder for long handle square spade attached to upright. | X | — | _____ |
| x) Must have prototype approved. | X | — | _____ |
| j) Tailgate with formed boxed outer edge and boxed horizontal center braces having 30 degree slope top edge. Outer vertical channels of boxed perimeter to be 1/4" thick for additional strength. | X | — | _____ |
| k) D-ring attached to inside or outside top center for lifting purposes. | X | — | _____ |

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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- l) **Air tailgate with dual cylinders and solenoid Velac kit #320178, 3/8" airline and air supply to be taken from air tank with tractor protection valve.** Installation shall allow operation of the tailgate should the air operated device fail. **Solenoid valve to be located in tuck cab.**
- m) Top and bottom tailgate hinge pins to be 1" diameter, minimum
- iii) Tailgate hinge pins and latching mechanisms to be greaseable.
- n) 5/16" spreader chains attached to upper sides of tailgate with upper and lower anchors that permit hinging tailgate to top or bottom. Chain to be encased in hydraulic hose sheathing.
- o) Material door in bottom center of tailgate with self-locking adjustable screw jack opening to control material volume accessible from ground level. **Rubber seal on the bottom of material door.**
- p) The body conveyor shall be a minimum of 28" width and shall have 26,000 pound tensile strength per strand pintle chain AL667XH or better with 1 1/2" x 1/2" bar flights welded top and bottom to every other link.
- iii) Rear conveyor shaft shall have full width rubber belting connected from floor pan and extending over rear shaft and protrude slightly through passing floor chain bar flights to effectively wipe every bar flight clean as it passes over rear sprocket.
- iv) Conveyor shall be driven by a minimum single 25:1 planetary or two 6:1 spur gear boxes and high torque/low speed hydraulic motor(s), eight tooth sprockets keyed to 2" drive shafts. Single planetary gearbox must be protected from damage with a keyed surface area rated for use with the specified output of the gearbox. Heavy duty, dust sealed, self-aligning four bolt flange bearings. At least one of the conveyor drive motors must have an integral speed sensor with 100 pulses per revolution to operate in conjunction with the closed loop ground speed controller. Speed sensor connection must be tied up in an accessible position near motor to keep out of debris and allow for easy access for diagnostics. **NO EXCEPTIONS.**
- v) Front idler shaft shall be 2" with eight tooth sprockets keyed to shaft, mounted supported by heavy duty, dust sealed bearings.
- vi) Chain tension adjustment shall use stainless steel threaded rod and lock nut with slide rail system. **NO EXCEPTIONS.**
- vii) Grease banks as necessary for easy access to lubrication points.
- viii) Conveyor to have removable cover made of stainless steel to prevent debris from dropping on the truck frame.
- q) Spinner assembly, complete, with all mounting hardware and instructions, is to be supplied with the truck for mounting at NDDOT district locations. Spinner shall be an open disc with a deflector to guide sand away from truck. Spinner shall also be designed for quick removal by one man during non-sanding applications. Quick couplers with tethered dust caps for spinner to be mounted rear side of box. Design must be approved. (See photo example)
- iii) The spinner motor shall be high torque/low speed mounted directly to the spinner disc with a hub. Bolt on spinner disc shall be minimum 18" diameter and manufactured of 1/2" thick polyurethane or 10 gauge stainless steel.
- r) Stainless steel ladder – mounted curbside. Must fold up for transport

X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____
X	—	_____

60 Pulse motor
Approved by
Addendum

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

SSP-22-2ADSUBW

iii) Fabricated with approximately 5 rungs with access from about a 2' grade. Ladder design must be approved by NDDOT.	X	—	_____
iv) Mounted on front side of box ahead of dual tires.	X	—	_____
v) When in transport position, must not extend beyond main edge of body more than 3". Dual latch system to keep in place while traveling. Ladder shall not extend beyond top of box sideboard (with sideboards in place)	X	—	_____
vi) Fixed slip resistant grip strut rungs with no sharp corners welded to inside of box allowing a person to climb into box.	X	—	_____
vii) Skid resistant/epoxy-bonded coating on top of each rung. Bustin Industrial Products Firm-grip™ grating, formed channel tread grip, or equal may be substituted for skid resistant coating on the rungs.	X	—	_____
s) All additional electrical wiring must be circuit breaker protected.	X	—	_____
t) Back-up alarm, self-adjusting sound level, 87 thru 107 decibels, and lifetime warranty ECCO SA901, Target Tech 210505, or approved equal. To be mounted to the bottom of the right taillight guard.	X	—	_____
19) Lights – NOTE: All wiring for the tail and clearance lights shall be protected from wear and tear and shielded from mud and ice buildup. All holes for wiring must be grommited.	X	—	_____
b) Dump Box & Spread Box			
iii) Lights to meet ICC regulations.	X	—	_____
iv) Clearance lights and reflectors - Minimum two amber clearance lights in front and two red clearance lights in rear of box.	X	—	_____
(1) Minimum 9 diode high count LED lamps, Grote G3002 red, Grote G3003 yellow or equal.	X	—	_____
v) Relocate factory LED Stop/Turn/Tail & Backup lights to have a 4" x 1/4" stainless steel bolt on rectangular shield around them. Taillights mounted on the outer edge of the box with bolt on brackets leaving a 1" air gap between housing and box side. Height 68" – 72" from ground level to center of S/T/T light. Exact location to be approved.	X	—	_____
(1) Stop/Turn/Tail lights to be Whelen 700 series, (7" x 3") or pre-approved equal mounted in double-light head 700 series rectangular stainless steel housing. Located below the white warning light on rear telesbar.	X	—	_____
c) Front Plow Lights – NOTE: All wiring to have protective covering and routed so as not to be pinched or worn prematurely from rubbing or chafing. Truck will be factory wired for plow lights to the hood hinge area with switch installed on instrument panel.	X	—	_____
iii) Heated Truck Lite #80990 snowplow light or equal.	X	—	_____
iv) Housings to be corrosion and impact resistant.	X	—	_____
v) LED light.	X	—	_____
(1) High/low beam, 12 volt.	X	—	_____
(2) Turn signal/parking lamp.	X	—	_____

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BIDDER _____

Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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- | | | | |
|--|---|---|-------|
| vi) Light support – 1 ¼" steel angle to be fastened with existing grill bolts. Angle to be approximately 2' long, not to exceed hood height. Light mounted to 1" square tubing with adjustment holes capable of adjusting to an additional height of 24". 1 ¼" angle welded to top of square tubing and angle braced to extend light to position directly above OEM headlights. All fasteners attached to factory hood/grille must use rubber or other insulating/dampening material between hood/grille and plow light bracket. Design to be approved on prototype. | X | — | _____ |
| vii) Wiring to be connected to OEM wiring at hood hinge area and can be disconnected using a GM weatherpack connector or approved equal. | X | — | _____ |
| viii) All wire splices shall be soldered and protected with heat shrink covering. | X | — | _____ |
| ix) Wires to be properly grounded. | X | — | _____ |
| d) Top/Rear plow light system. SIX LIGHT HEAD SYNCHRONIZED LED WARNING LIGHT SYSTEM (Must meet specification SSP-01) NOTE: All wiring for strobe lights shall be protected from abrasion and shielded from mud and ice buildup. All holes for wiring must be grommited. | X | — | _____ |
| iii) Four rear mounted remote LED light head assemblies, two amber and two clear. Continuous individual wiring from each light to the rear electrical housing and then to the control panel. | X | — | _____ |
| iv) Two cab guard mounted 180 degree LED strobe light head assemblies. Continuous individual wiring from each light to the control panel. | X | — | _____ |
| (1) Mount level to front corners of cab guard, extendable from width of cab guard to outside (102" width) of mirrors through use of tube-in-tube design. Design must be approved. (See Photo example) | X | — | _____ |
| (2) Wiring for light heads from chassis frame to top of cab guard to be routed through metal conduit attached to the cab guard upright or split loom and tube clamps may be used as long as the clamps have maximum spacing of 12 inches. | X | — | _____ |
| v) One inside cab mounted four-outlet LED ballast/junction box. | X | — | _____ |
| vi) LED warning light system with heavy duty DOT solid state flasher with diagnostics. | X | — | _____ |
| vii) Rear light support – 1 ½" square telspar steel tubing mounted approximately 60 degrees on rear of box and roughly adjustable from 9' – 12'. Tubing to be angled to the rear but not extending more than 18" behind box. Square tube support bracket not acceptable. Mounting brackets to be as high on the side of box as possible without interfering with tailgate operation or hinge pin removal. | X | — | _____ |
| (1) See pictures of DOT support bracket to allow telespar tubing to pivot from vertical to horizontal. Nylon bushing/washers shall be installed on both sides of pivot pin to hold telespar tubing from vibration but still allow free pivot movement. DOT will supply prototype bracket to awarded vendor. | X | — | _____ |
| (2) Amber LED lights to be mounted to top of support. Clear LED lights to be mounted ½ the distance from top of support to top of box. Stainless steel fasteners to be used for the mounting of the aluminum light heads to the telspar along with nylon isolating washers placed between telspar and aluminum light head to prevent corrosion caused by dissimilar metals. | X | — | _____ |

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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- | | | | |
|---|----------|---|-------|
| (3) Wiring to be routed through the center of the telspar. | <u>X</u> | — | _____ |
| e) One wing and one underbody scraper 12V LED work light, located at the rear corners of the cab. One sander work light located under left taillight housing. Final location to be determined upon award. All three lights to be wired to one work light switch. Truck Lite #8160 or equal | <u>X</u> | — | _____ |
| iii) Housings to be corrosion and impact resistant. | <u>X</u> | — | _____ |
| (1) Weatherproof. | <u>X</u> | — | _____ |
| iv) Universal mounting stud and adjustable bracket. | <u>X</u> | — | _____ |
| | | | |
| 20) Hoist | | | |
| b) NTEA rated and classified. | <u>X</u> | — | _____ |
| c) Class 80, telescopic. | <u>X</u> | — | _____ |
| iii) Cylinder to have full power up and power down top stage. | <u>X</u> | — | _____ |
| iv) Melonized cylinder rod surfaces with a predominance of single-phase epsilon nitride to cover entire surface. | <u>X</u> | — | _____ |
| d) Minimum hinge pin diameter – 1 15/16" hardened steel. | <u>X</u> | — | _____ |
| e) Minimum dumping angle – 50 degrees at 12" overhang. | <u>X</u> | — | _____ |
| f) Minimum of 1 1/2" chassis frame extending beyond wing cross tube to allow for pintle plate mounting. | <u>X</u> | — | _____ |
| g) In cab, box up indicator light (see panel switches), to be coil spring wobble lever, sealed, snap action switch, frame mounted, Grainger stock no. 3A096 or equal. | <u>X</u> | — | _____ |
| h) Safety prop(s) to support body at 20-degree angle, frame mounted, self-aligning for one person operation, easily accessible. Prototype to be approved. | <u>X</u> | — | _____ |
| 21) General | | | |
| b) Paint – All non-stainless steel to be primed and painted black. | <u>X</u> | — | _____ |
| c) Spot painting must include hardener and be applied with spray gun. | <u>X</u> | — | _____ |
| d) Mud flaps front and rear of rear tires, 24" wide by 30" long, made of 5/16" quality rubber. Stainless steel brackets. The rear flaps must be quick to remove through the use of a 1/2" round rod and spring clip and free swinging. The front flaps fastened permanently with anti-sail devices mounted to prevent tire contact. | <u>X</u> | — | _____ |
| e) Tool box 18" x 18" x 24". All aluminum construction, .125 Treadbrite. Bottom hinged door. Full-length corrosion resistant hinge. Key lockable paddle latch with adjustable striker plate. Full neoprene door seal. Two chain or cable door retainers. Drip rail or door recess. Five year product warranty. Acceptable brand: Alum-Line, American or RKL. Other brands must be pre-approved. | <u>X</u> | — | _____ |
| iii) Mounted with 2" mild steel channel, two cross supports under floor of box and gusseted. Mounting contact areas between aluminum and steel to be isolated with fuel tank rubber belting or similar. | <u>X</u> | — | _____ |
| f) Must use stainless steel fasteners when mounting stainless steel. Except where strength is needed. | <u>X</u> | — | _____ |
| g) Appropriate steps must be taken to keep mild steel and stainless steel cross contamination from occurring. | <u>X</u> | — | _____ |
| h) Install 40' of reflexite V82 red and white reflective conspicuity tape on box. Location to be approved by NDDOT. | <u>X</u> | — | _____ |
| 19) Snow Plow Quick Hitch, Falls 26B, Monroe FLS26BND, Henderson H46B-ND or equal. Mounting and location to be approved. | <u>X</u> | — | _____ |

Falls 26B-ND-Dot

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Specifications for Hydraulics & Dump/Spreader Box, Approximately 58,000 lbs G.V.W.

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- a) Snowplow connecting mechanism shall be the Rapid Push Bar Quick Coupler as manufactured by Little Falls Machine, Inc., Monroe, Henderson or equal.
 - b) Quick coupler system shall incorporate push arm receptor sockets with spring loaded tapered pins for proper pin alignment. Grease zerks installed for pin lubrication. Pin retractor mechanism shall be conveniently located for ease of operation.
 - c) Mounting system shall adapt to frame rails of truck chassis and shall be adequately braced with grade 8 frame bolts meeting SAE J-429 specification to the truck chassis frame by minimum 3/4" x 4" A-36 steel bars which will be additionally reinforced. Stabilizer arms shall be attached to the frame by means of 1/2" thick steel Z brackets. Vertical risers and plow lifting yoke shall be low profile to allow clearance for tilting hood without tilting or disconnecting plow hitch.
 - d) Universal lift arm to be adjustable inward/outward using heavy-duty square tube within square tube with pin adjustment. Shall be capable of lifting reversible or V-plows weighing as much as 3000 lbs.
 - e) Hydraulic plow lift cylinder shall be minimum 4" x 10" single acting type with chrome-plated rod. Hydraulic cylinder shall be certified to a minimum of twice (2X) the pressure (2250PSI) of the hydraulic system.
 - f) Hydraulic ball valve at lift cylinder to shut off oil flow when plow is not in use.
 - g) Mounting height shall be 15" to center of connecting pin. Hitch to be cushioned where tilting hood may strike when opened.
 - h) Complete hitch shall be primed and painted to match the truck frame.
- 22) Trailers pull plate, pintle hitch, D-rings, electrical connector, and glad hands installed on the truck. See enclosed drawing. Note: disregard the location of the light plug-ins on the drawing. The successful vendor must approve the entire hitch design with NDDOT and build a prototype for approval on the first truck.
- b) Must be made using 3/4" material for the plate and gussets.
 - c) Must provide a Holland PH410 pintle hitch rated at 20,000lb vertical load and 100,000lb gross trailer weight installed with grade eight bolts and lock nuts.
 - d) Two D-rings on each side of the pintle hitch rated for 100,000lb of gross trailer weight between the two.
 - e) 2.5" receiver welded into the plate below the pintle hitch.
 - f) Pull plate must be properly braced and welded to be rated for 100,000lb gross trailer weight.
 - g) The round seven pin trailer light connector and two glad hands are to be mounted in hitch plate. Air glad hands one on either side of pintle hitch. 7 pin trailer connections to be above LH glad hand. 7 pin trailer connection must not be positioned above pintle hitch for clearance issues with trailer tongue. See attached picture for guidance. Final location and process must be approved by NDDOT.
 - h) RH or LH rear wing post mount to be integrated into hitch plate and be bolt removable for summer operations. Must use wing manufacturers recommended bracketry to attach to hitch plate and design be approved by manufacturer. See attached photo for reference.

X

X

✓

✓

X

X

X

X

✓

X

X

X

X

✓

X

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20) Warranty

- a) One-year full unconditional warranty, manufacturer's warranty shall apply if for longer period.

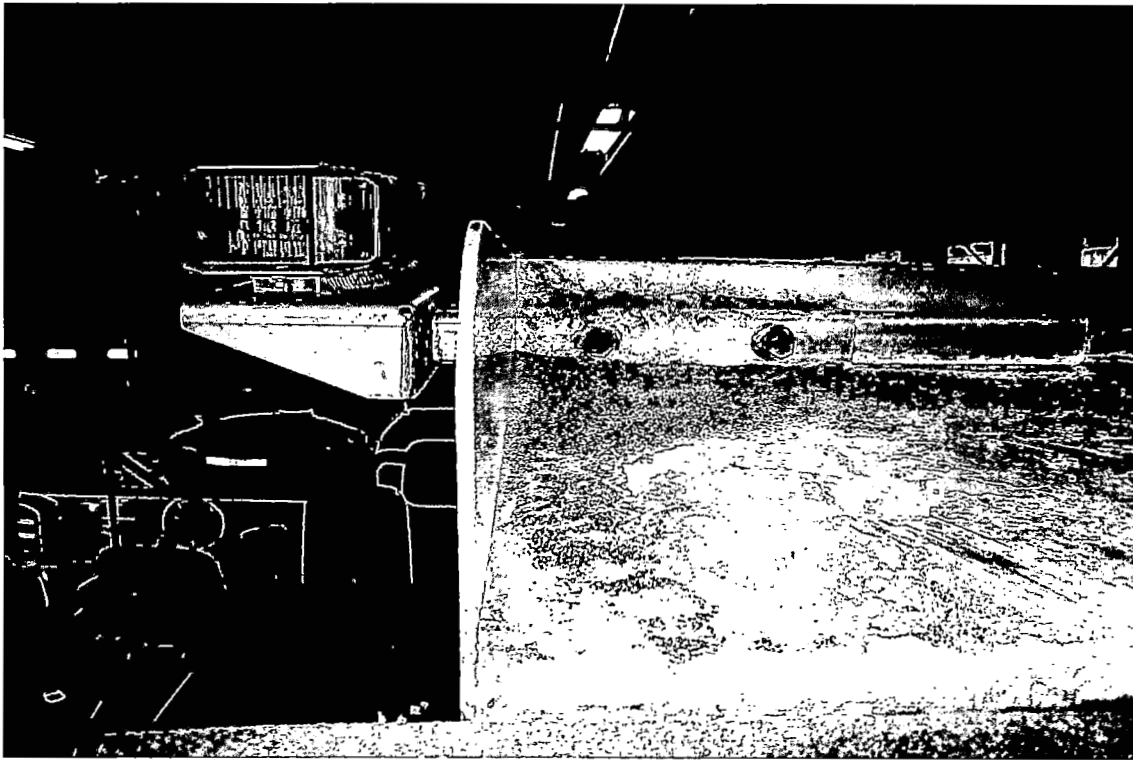
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21) Delivery

- a) Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. **Grease bank hoses must be primed/prefilled.** Truck must pass a final inspection performed by NDDOT employees before delivery can be made. Truck must be test driven and all hydraulic, brine, plow, sander, and electrical functions must be tested to make sure they work properly, and that there are no fluid leaks. All vendor installed attachments to be greased/lubricated. Truck must pass a final inspection performed by NDDOT employees before delivery can be made.

X

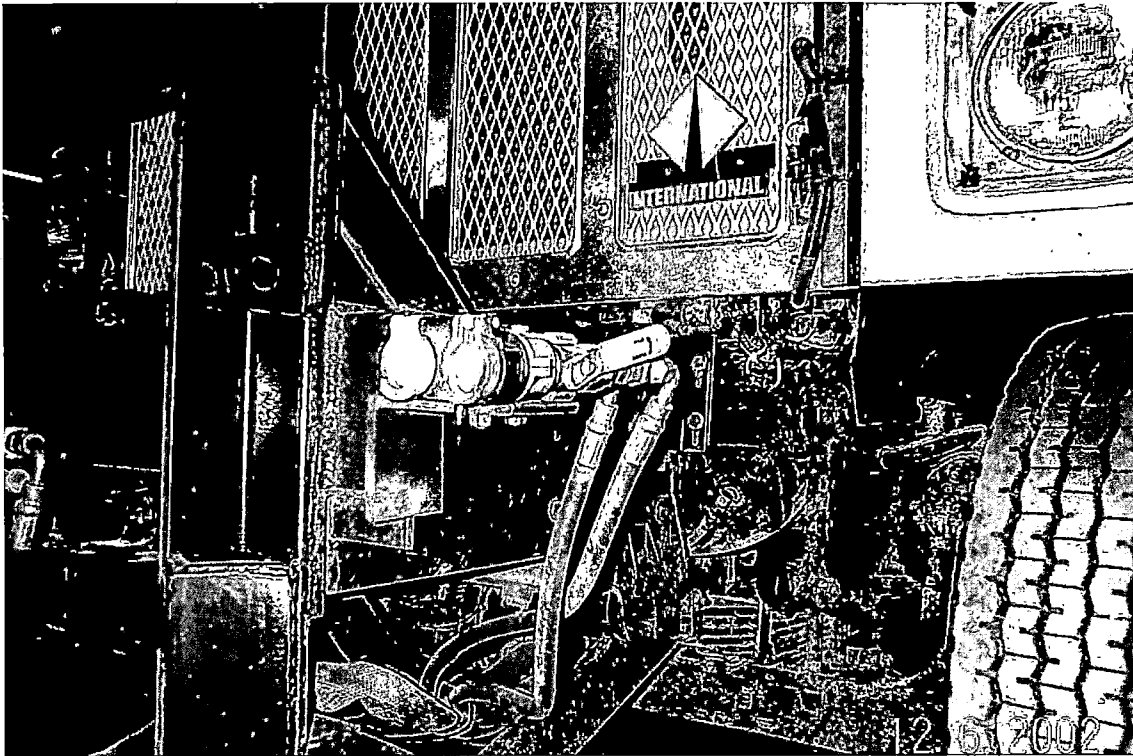
BODY MAKE: Bonnell MODEL: Commander 14' SS-ND-DOT
HOIST MAKE: Mailhot MODEL: LS130-5-5-DA
PUMP MAKE: Force America MODEL: LF6-029095-622AK-R-LF6-Rp16
QUICK HITCH MAKE: Falls MODEL: 26B-ND-DOT
LED WARNING LIGHT SYSTEM MANUFACTURER: Whelley



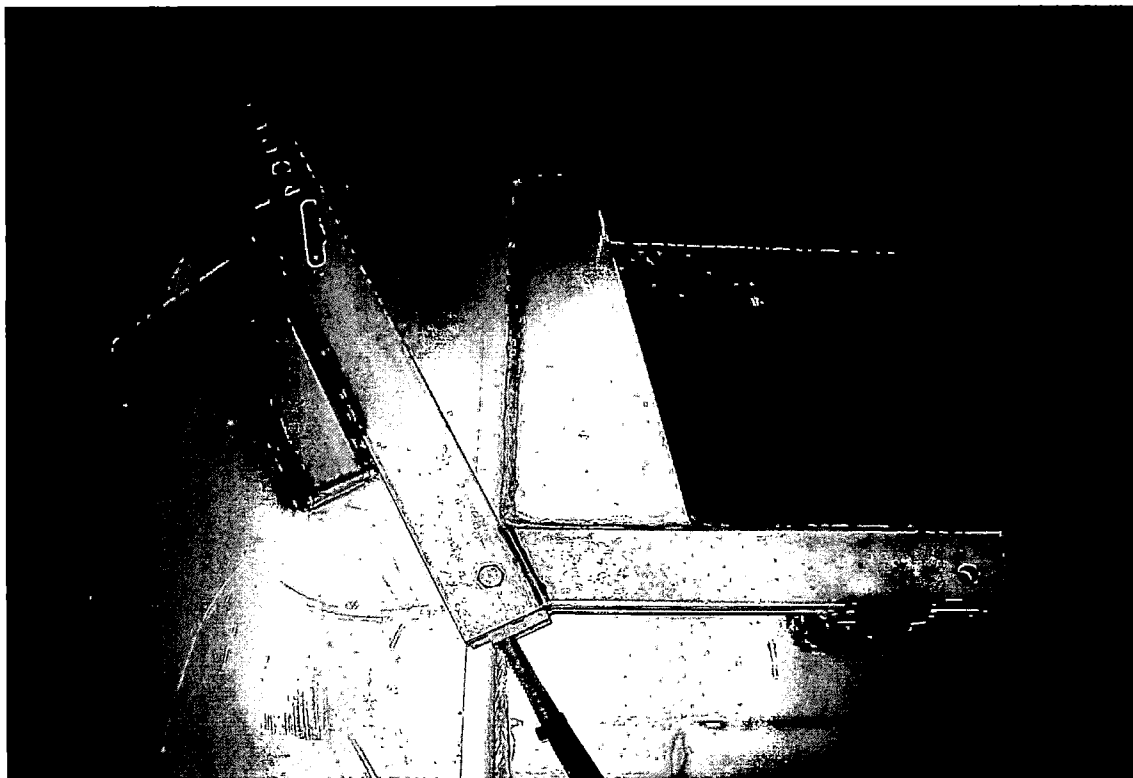
Adjustable mounting brackets for LED light heads



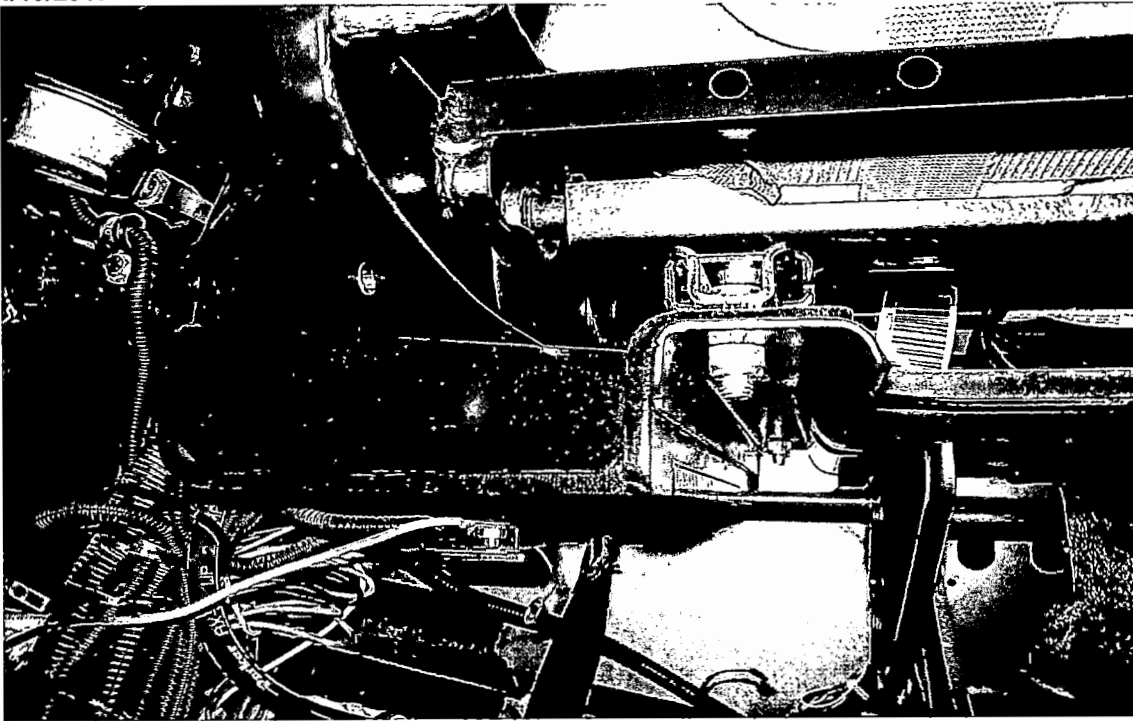
Example of spinner type



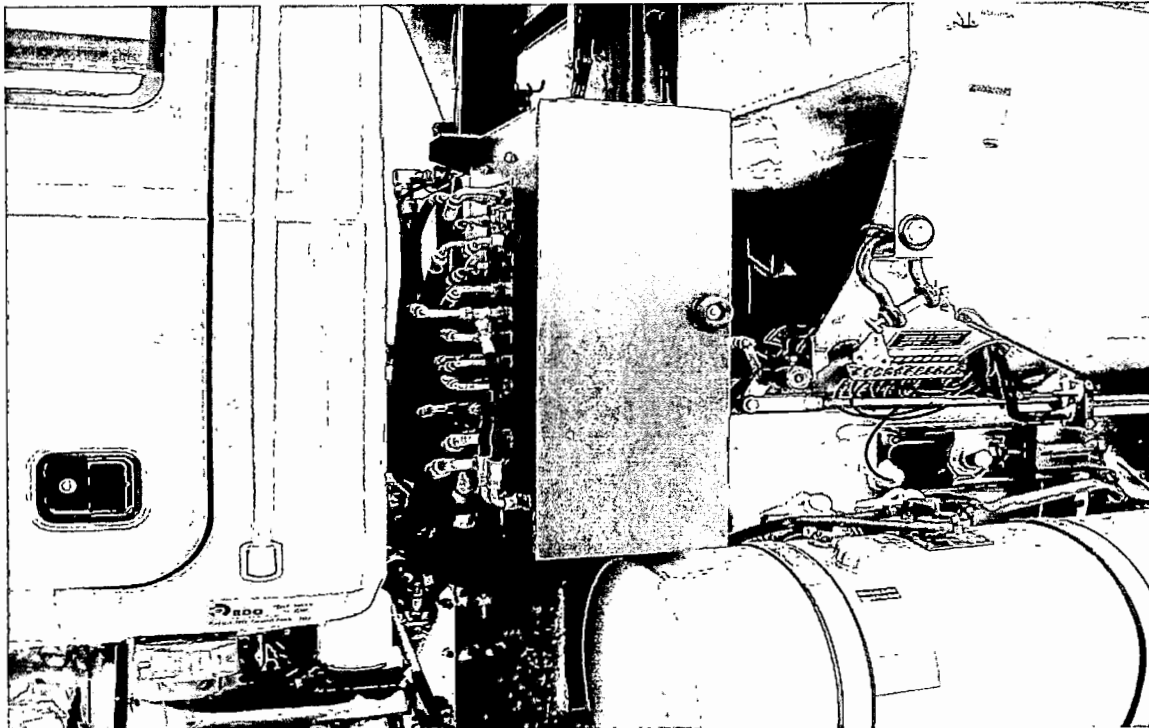
Front plow quick coupler mount.



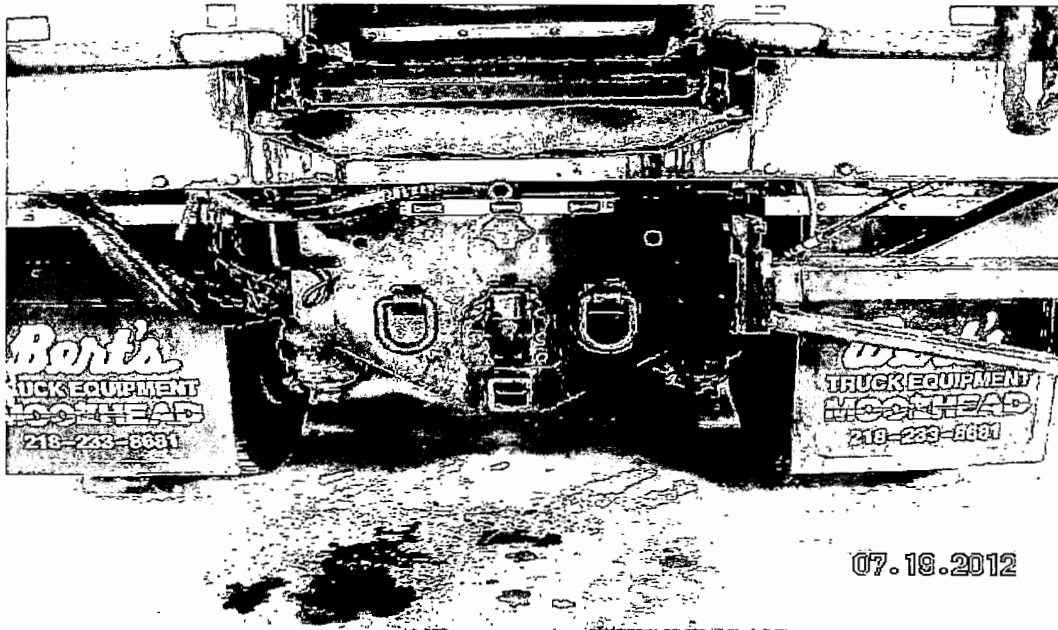
Example of rear LED light bracket



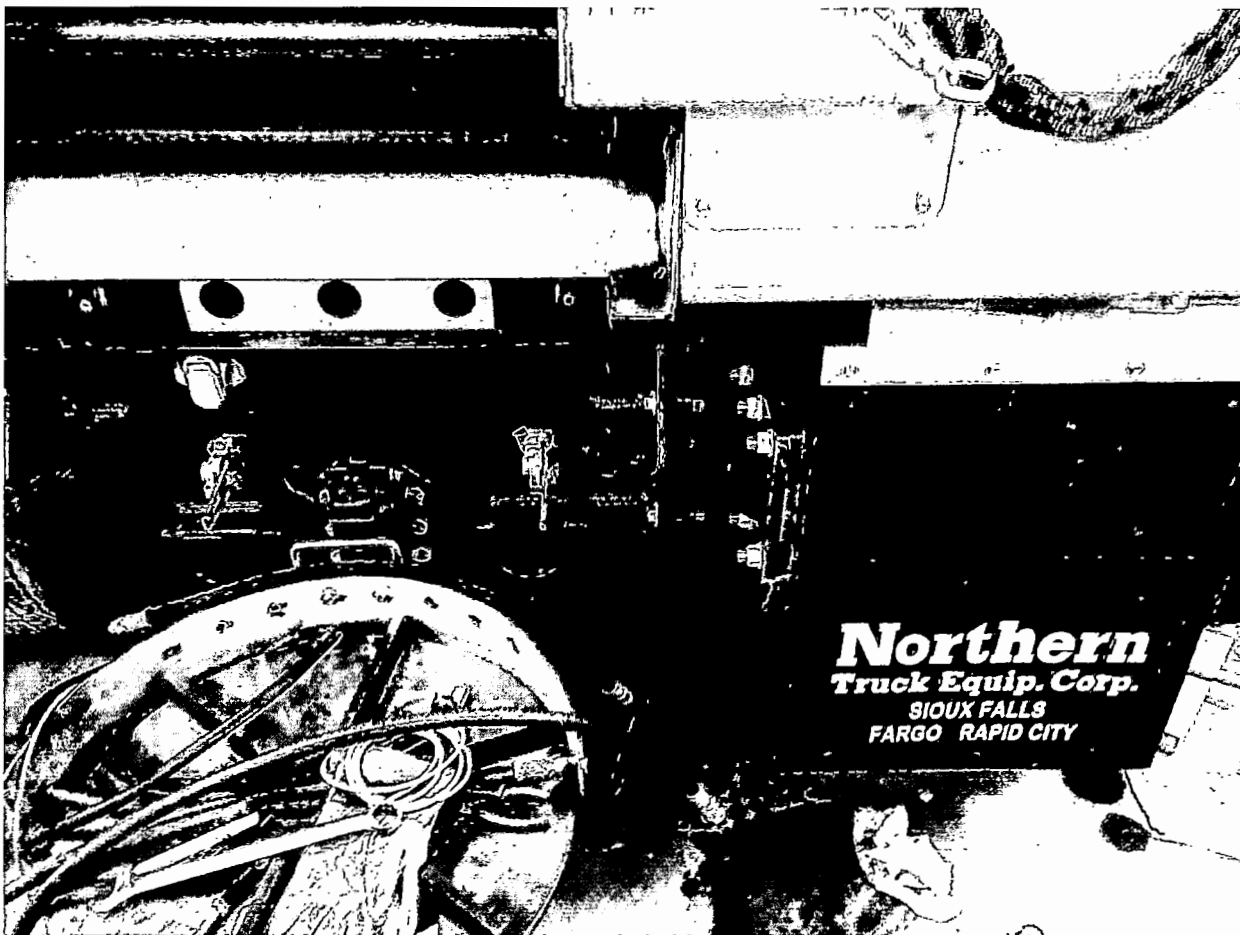
Seat mounted hydraulic and sander controller bracket



Vertical valve enclosure

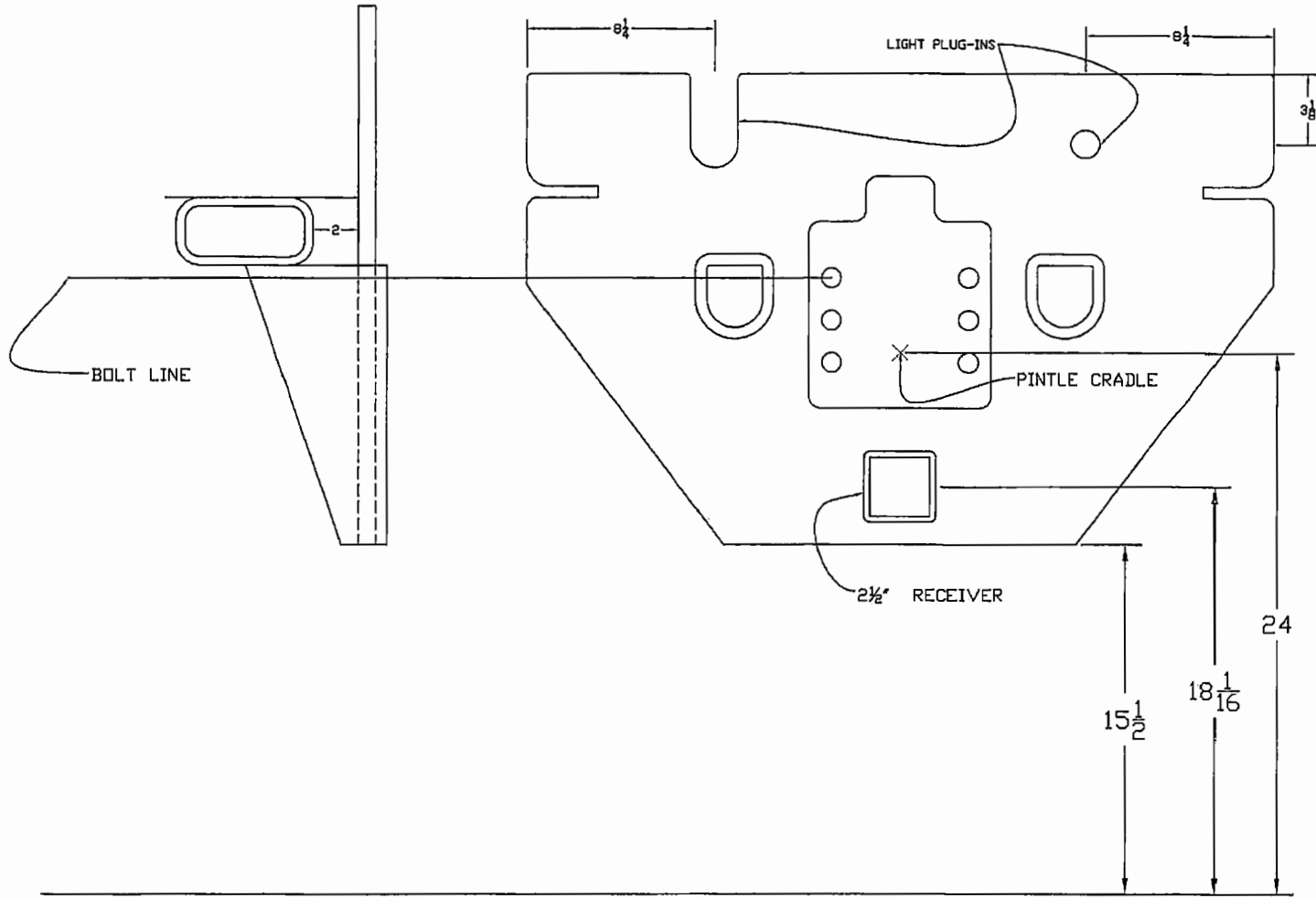


Picture of Integrated rear wing mount (RH wing)

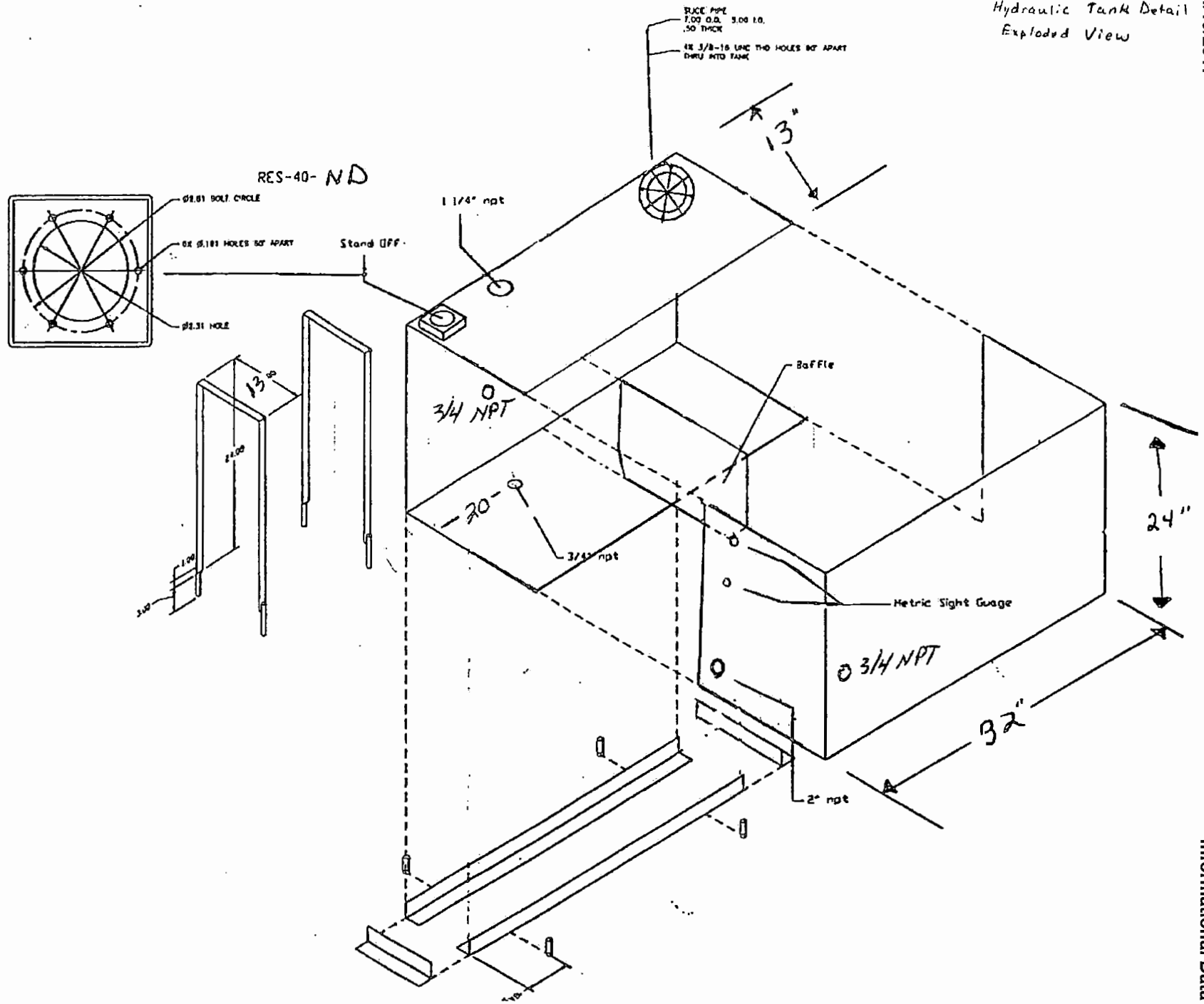


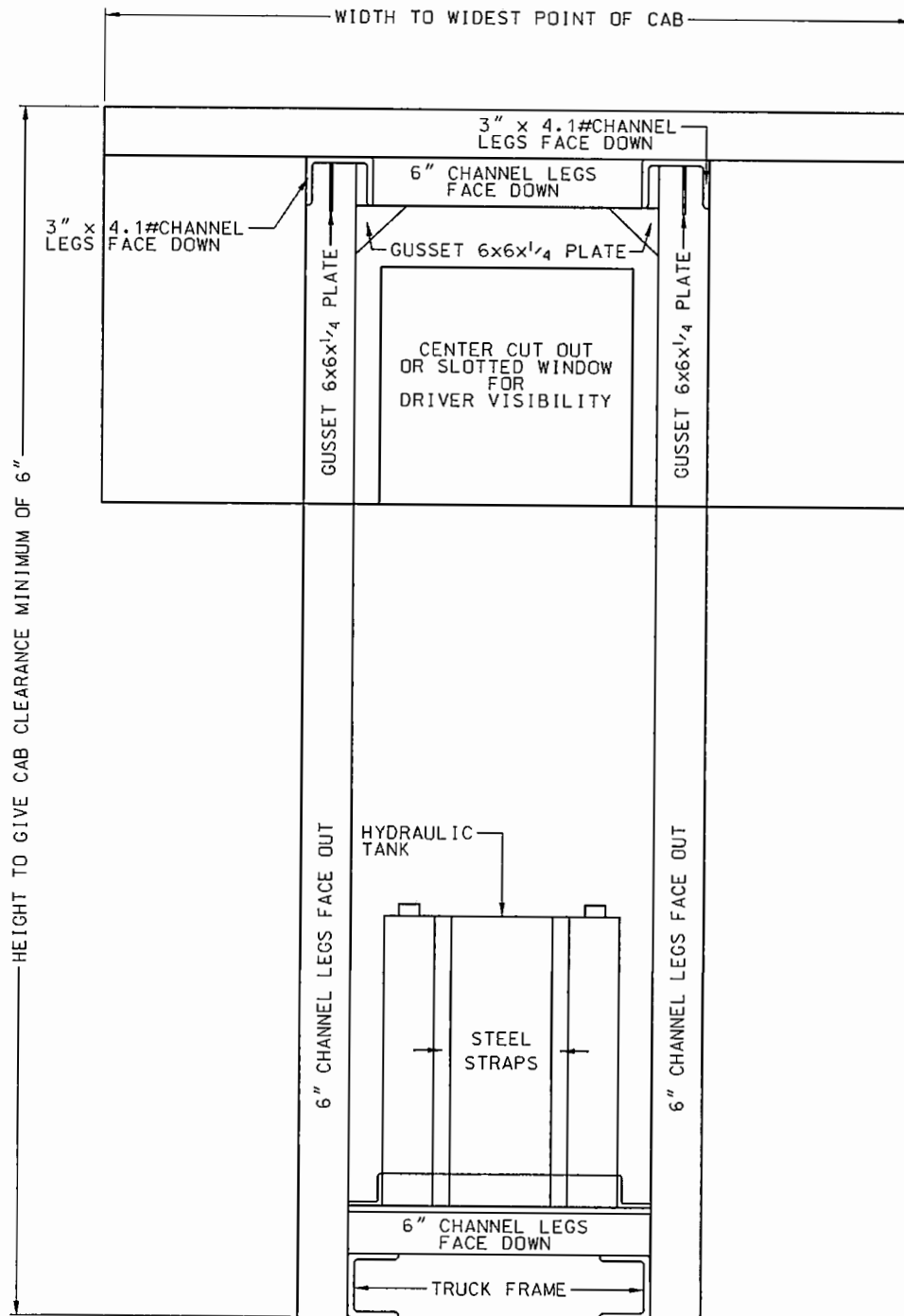
Preferred Hitch component locations

PROPOSED HITCH

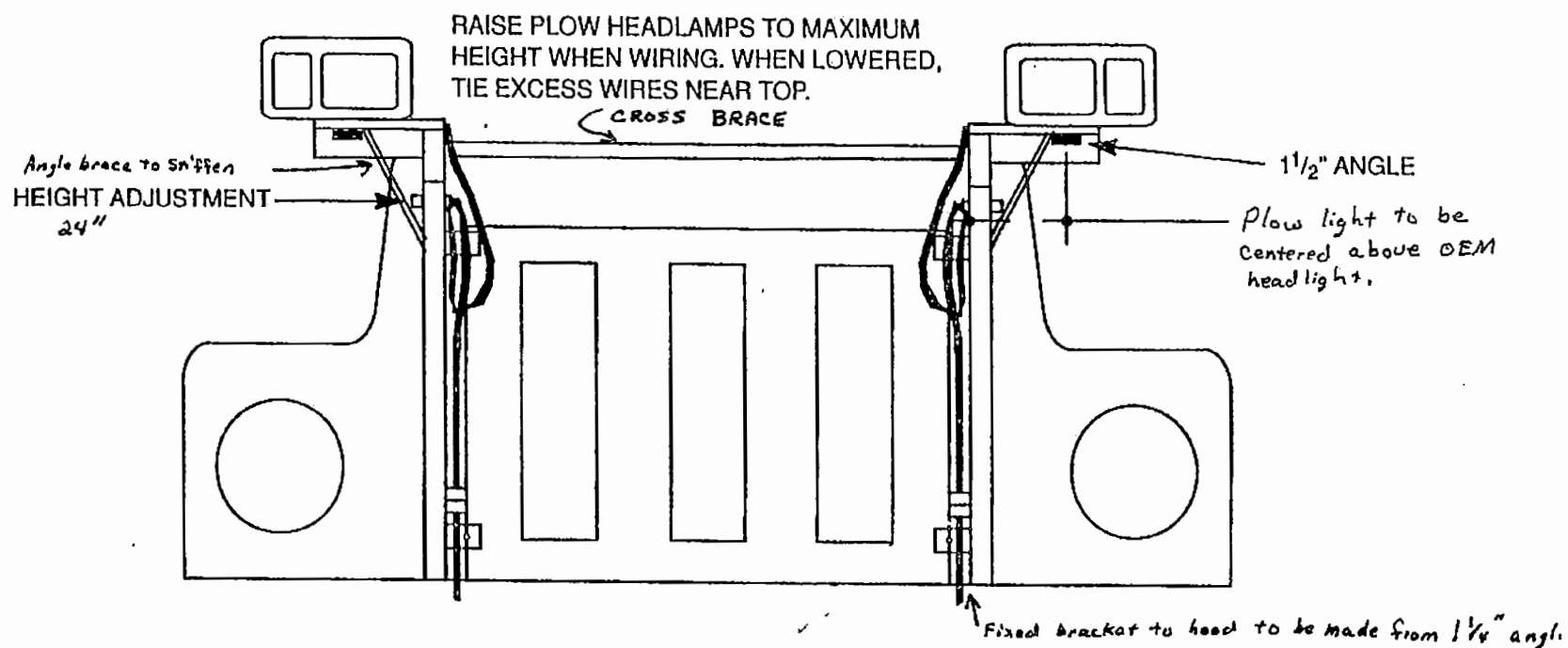


Hydraulic Tank Detail
Exploded View

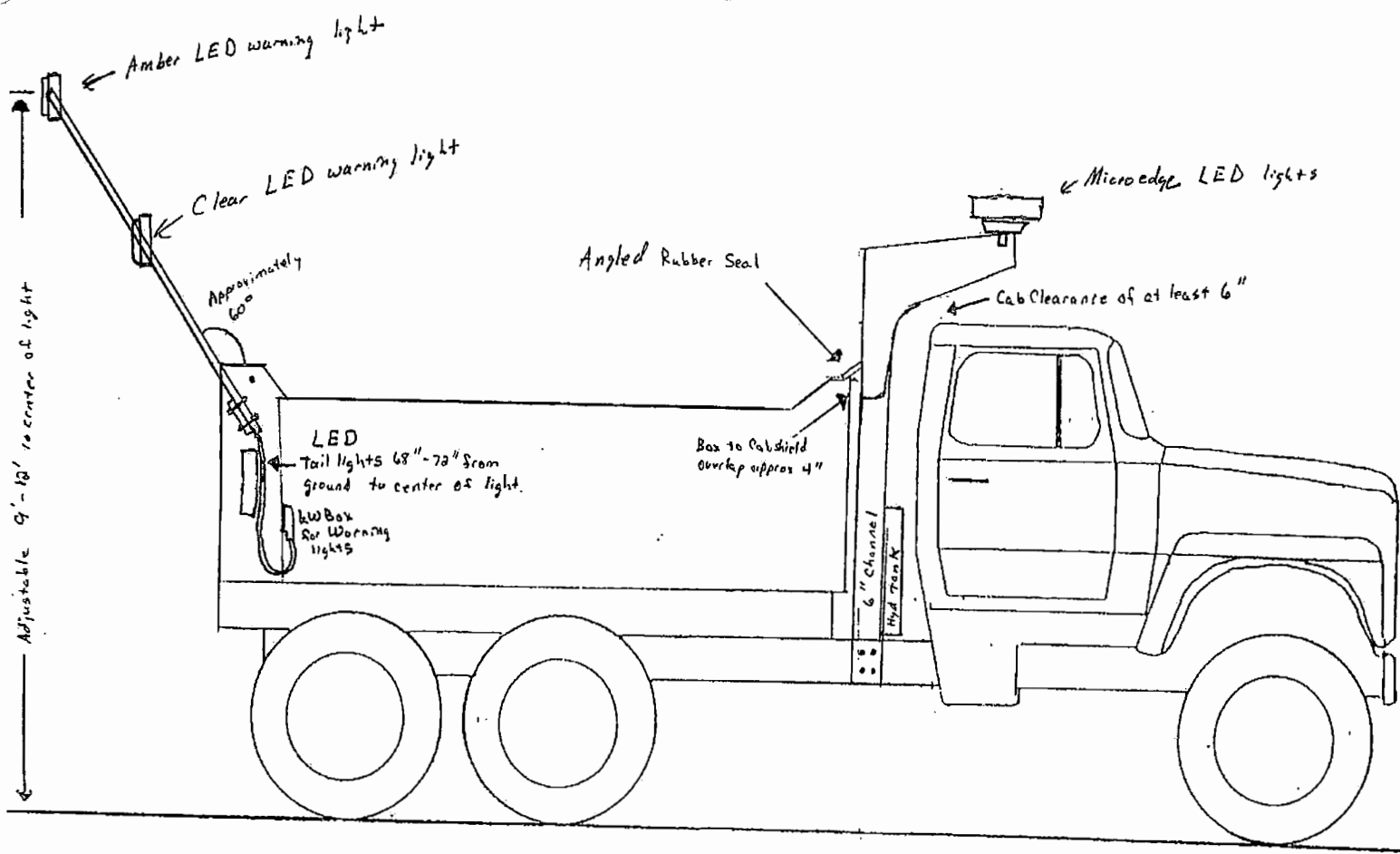




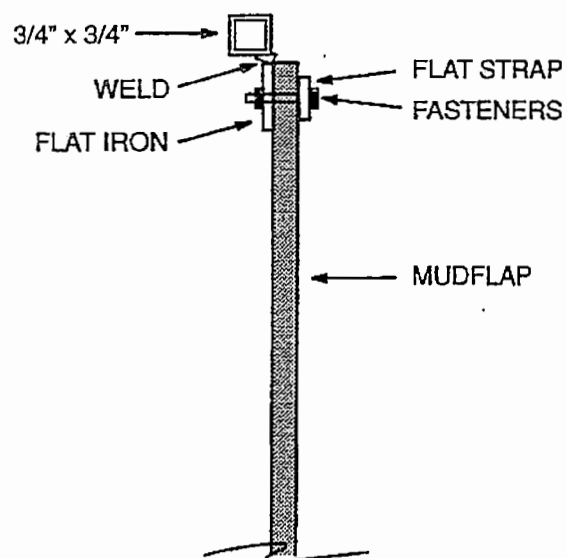
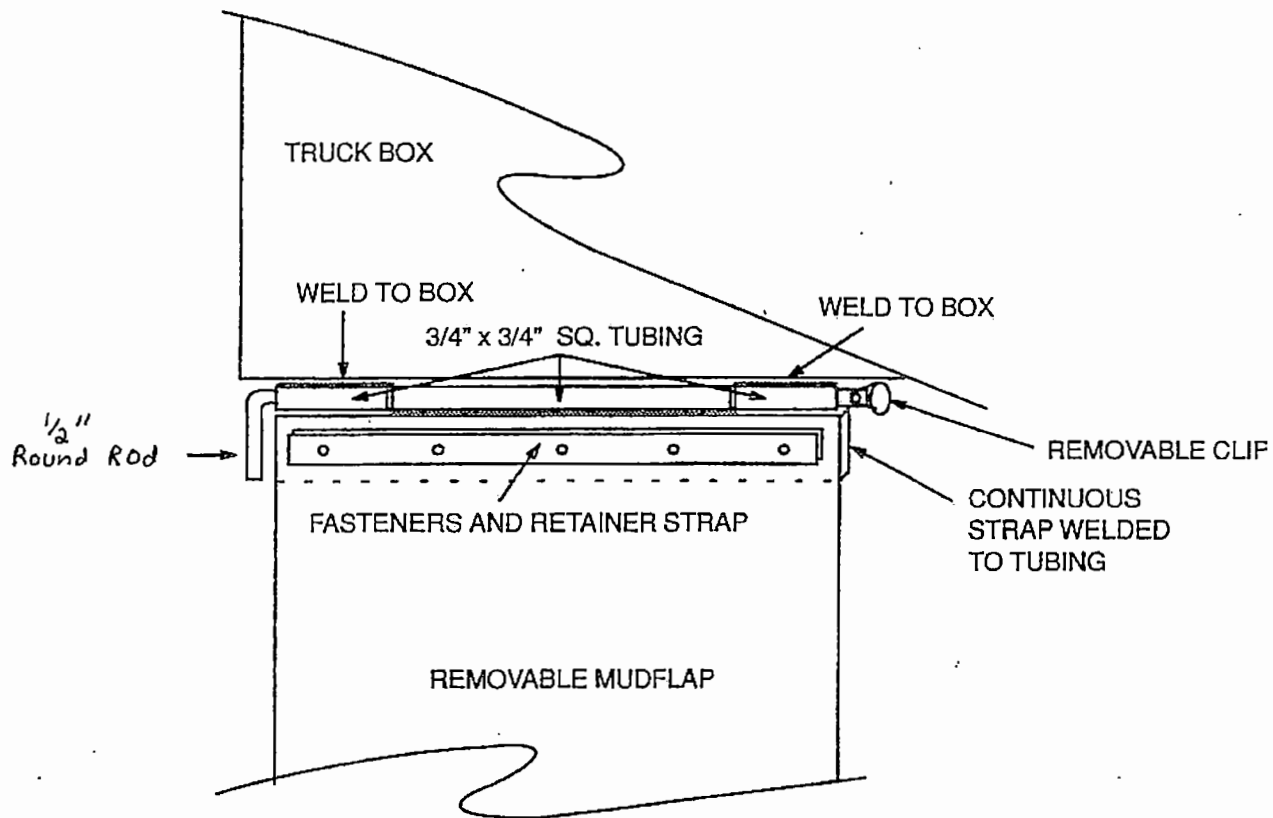
PLOW HEADLAMPS



Mounting of plow headlamps needs to allow for installation of a winter front.



REAR MUDFLAP DETAILS



Maintenance & Engineering Services Specifications This Section

SSP-95-4180-2	11' Underbody Scraper
SSP-95-4200-23	10' Rear Mount Snow Wing
SSP-95-2400-4	Tailgate Spreader
SSP-95-5700-4	200 Gallon Fender Mount Gravity Pre-wet System
SSP-95-5700-10	150 Gallon Tailgate Mount Gravity Pre-wet System

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR**

**UNDERBODY REVERSIBLE SCRAPER, 11'
(MONROE 3500-11, ROOT F-89-11 WITH OPTIONS, FALLS IBR-11 WITH OPTIONS,
HENKE UBS-XH11, HENDERSON H-UBS-11, OR PRE-APPROVED EQUAL)**

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe an 11' underbody scraper to be furnished and installed on a 58,000 GVW tandem axle truck. The underbody will be installed on the same chassis with a rear wing. The underbody shall work in combination with the 10' rear wing and discharge material onto the wing without leaving a ridge between the wing and underbody. The underbody shall be designed for high-speed snow plowing, removing hard packed snow, or scraping ice. The underbody shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The underbody shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications.

Installation: The underbody scraper shall be installed according to the manufacturer's instruction and to the acceptance of the NDDOT. The underbody shall be installed at a height of 20", $\pm 0.5"$ as space allows, from the bottom side of the circle to the ground on a bare chassis (**NO EXCEPTIONS**). Two grease banks shall be installed for easy greasing of the hanger rod and the center bushing. Six to Eight grease ports equally spaced shall be plumbed into the hanger board / rod connection. The grease ports on the hanger board shall be split to two separate banks with equal ports per side. The center bushing grease port may be plumbed to either grease bank. The grease banks shall be mounted on the ends of the hanger board for easy access and rotate with the underbody. A metal fitting shall be used at the grease port. Grease hose tubing shall be used to connect the grease port to the grease bank. The grease hose tubing shall be Parker Paraflex Hytron HLB02, 1/8" ID, 3,000 PSI rated or equal. The fittings shall be 1/8" straight and/or 1/8" swivel from Parker or equal. The grease hose tubing shall be secured to the front of the hanger board. The grease tubing shall be properly secured to prevent from being caught or rubbed on hardware or other components. Where the tubing is susceptible to contact with other components, it shall be wrapped or protected. **All grease hoses to be primed/prefilled with grease.** The circle mount stop blocks shall be chamfered and welded on all accessible sides of the block. Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ (701)328-2565.

		COMPLY YES	NO	SPECIFICATION DEVIATIONS
1.	CIRCLE			
a.	1" thick steel	X		
b.	One piece, notchless	X		
c.	5" hardened center pin/bushing	X		
i.	Relubable by grease bank	X		
d.	Cylinders will be mounted with 1.5" hardened pivot pins or grade 8 bolts and lock nuts	X		
e.	13" hold down blocks with polyurethane or steel wear pads preferred but not required (Note: manufacturer's standard production model according to sales literature is required)	X		

2. HANGER

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UNDERBODY REVERSIBLE SCRAPER, 11'

SSP-95-4180-

2

- a. 3/4" thick plate steel one piece hanger bracket or equal
- b. A 36 or equal steel
- c. 10"--30# structural member or equal
 - i. Channel hanger board
 - ii. 1/2" x 7 1/2" reinforcing
 - iii. Full hinge length 4" S & C 13.8# channel, 1/2" x 3" x 3" angle, or equal

COMPLY	YES	NO	SPECIFICATION DEVIATIONS
	X		
	X		
	X		
	X		
	X		
	X		

3. MOLDBOARD

- a. 11' wide x 1" thick x 20" high
- b. Heat treated carbon steel
- c. **Offset and** punched and spaced according to AASHTO standards to accept 5/8" bolts for tungsten carbide cutting edges (cutting edge furnished by NDDOT)
- d. Clearance height with moldboard in fully raised position from the bottom of the frog to the ground approximately 10"
- e. Two heavy duty shock absorber assemblies or hydraulic accumulator system
- f. 1' square piece of expanded steel or machine punched grip strut on the drivers and passenger side back of the moldboard to be under the side truck step

	X		
	X		
	X		
	X		
	X		
	X		

4. HINGE

- a. 2 1/2" O.D. solid carbon or 1 3/4" cold rolled steel shaft
 - i. 96" long
- b. Minimum three hinges
- c. Greased by grease bank

	X		
	X		
	X		
	X		

5. HYDRAULIC COMPONENTS

- a. Two 3 1/2" double acting reversing cylinders
 - i. 2" nitrated cylinder rod
 - ii. Crossover relief valve

	X		
	X		
	X		

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Moorhead, Mn 56560

BIDDER: _____

UNDERBODY REVERSIBLE SCRAPER, 11'

2

SSP-95-4180-

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
b. Two 3" double acting moldboard actuating cylinders	<input checked="" type="checkbox"/>		
i. 1.5" nitrated cylinder rod	<input checked="" type="checkbox"/>		
ii. 2" O.D. trunion bearings	<input checked="" type="checkbox"/>		
c. Externally mounted hydraulic steel tubing or hydraulic hose with wear resistant coating protectant. All hydraulic hose must meet minimum specification as outlined in the truck box specification.	<input checked="" type="checkbox"/>		
d. Set to apply and maintain 500 psi moldboard down force	<input checked="" type="checkbox"/>		
i. Manufacturer's pressure relief valve shall be omitted from installation and relief controlled through hydraulic valving from hydraulic vendor	<input checked="" type="checkbox"/>		
6. Manuals, as applicable			
a. Two operator's manuals	<input checked="" type="checkbox"/>		
b. Two lubrication schedules	<input checked="" type="checkbox"/>		
c. Two parts books	<input checked="" type="checkbox"/>		
d. Two Technical Repair Manual	<input checked="" type="checkbox"/>		
7. Paint			
Moldboard, mounting brackets, push tube, and other hardware to be powder coated and painted black	<input checked="" type="checkbox"/>		
8. Warranty			
One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<input checked="" type="checkbox"/>		

The underbody scraper shall be delivered mounted on the truck for immediate use. The underbody scraper shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Falls MODEL: IBR-11A

PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Eq TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR

REAR MOUNT SNOW WING, 10'
(FALLS SDL-10, MONROE 10-DFWMB/ND, HENDERSON HWS-10, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a 10' rear mounted patrol snow wing to be furnished and installed on a 58,000 GVW tandem axle truck. The wing will be installed on the same chassis with an underbody scraper. The wing shall work in combination with the 11' underbody scraper and receive material from the underbody and discharge the material without leaving a ridge between the wing and underbody. The wing shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The wing shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications.

Installation: The snow wing shall be installed according to the manufacturer's instructions and to the acceptance of the NDDOT. The wing post shall be installed in front of the tandem axles under the truck box and shall not be out beside the box. The rear push tube brace assembly shall be installed behind the rear axles on 6" of after frame behind the spring assembly. **The rear push tube brace shall be installed directly to trucks rear hitch plate using manufacturers approved bracketry.** Steel plates that extend down from the truck frame that hold the rear push tube brace are not acceptable. All connections to the truck frame shall be bolted connections using grade 8 frame bolts, meeting SAE J-429 specifications. The wing brace tube shall be capable of being removed without having to disconnect from frame or removing hitch. The disconnect point shall be on the wing side and shall be bolt together plates at this disconnect point, welded to the cross tube and shall be bolted together with a minimum of four ¾" G8 bolts. For sample see photo. The final design shall be approved by the NDDOT Maintenance & Engineering Services Division, Shawn Hauck, (701) 328-2565

The wing shall be installed to allow the moldboard toe to fully float taking account for truck sag due to loading. The moldboard toe shall not apply any down pressure. The hydraulic hoses shall have swivel couplers and 37° JIC fittings where applicable and be quick coupled. The couplers shall be located up as high as possible to limit their contact with road material. A fluorescent orange tubular plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing. The tubular marker shall have a weep hole drilled into the base of the marker to allow moisture to seep out. The wing LED warning light mounting location shall be approved by the NDDOT and shall be wired to the same in cab control switch as the amber body warning lights. Any questions and weekly updates shall be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ 701-328-2565.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1. Stored/folded-up clearance			
a. Front 13"	X		
b. Rear 90"	X		
2. Lift			
a. Cab-controlled hydraulic lift cylinder	X		
i. Cylinder rods to be nitrated rods	X		
b. All hydraulic front post slide mechanism (Note: tube in tube type slide with cable is not acceptable)	X		

REAR MOUNT SNOW WING, 10'
23

SSP-95-4200-

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
c. Heel lift	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Floatation both heel and toe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Wing Loc or equal outboard lift cylinder hydraulic locking device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Moldboard			
a. 50,000 PSI 10-gauge EX-TEN 50 (MILD STEEL NOT ACCEPTABLE)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Overall moldboard length 10'	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. 100% continuously welded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. 3/4" thick frog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Frog to be square hole punched and spaced according to AASHTO standards to accept two 3' (one on each end) and one 4' (in the center) tungsten carbide cutting edges secured with 5/8" bolts, there shall be sufficient holes in the frog so all of the holes in the cutting edge can be used (cutting edges furnished by NDDOT)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Full length top and bottom supports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Height at front 29"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Height at rear 29"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Spring-cushioned push tube with shear pin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j. Push tube pin location, pinned 18" from outside end maximum	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k. Weight of moldboard minimum 600 lbs maximum 1550 lbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l. 28" high fluorescent orange tubular plow marker kit, Buyers or Catco model 1308105 or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m. Wing lift eye/pick point, 2 each mounted so that the wing can be lifted evenly when being removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
n. Moldboard must be compatible of mounting to Monroe ParaGlide® wing lift mechanism. Retrofit plates will be allowed to make this attachment but must allow full function of parallel lift system and be approved by NDDOT.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Mount			
a. Right or Left side, rear mount to be flange mounted for easy removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
a.	Parallel-lift style mount allowing full floatation of moldboard toe. Monroe brand Para-Glide® lift mechanism required. Similar operating style parallel-lifting mechanisms must be field tested minimum one year and pre-approved by NDDOT before being accepted as equal to Para-Glide® Sliding plate style front mount not accepted. Front mount assembly positioned in front of the rear axles with adequate pipe bracing positioned to stabilize the mount from forward-backward and side to side motion, two pipe braces minimum, where applicable, bracing to be approved on prototype truck by NDDOT representative.	X		
b.	Front post cross brace to both frame rails shall allow clearance for the drive shaft	X		
c.	If applicable, The pivot shaft top plate(s) shall be 100% welded top and bottom	X		
d.	The ears on the rear push tube brace that the push tube pins to shall be in line with the push tube (Note: ears at 90° to the truck frame are not acceptable)	X		
e.	The rear of the push tube shall be attached to the rear push tube brace with a ½" grade 2 bolt that will act as the shear point for the wing. The rear push tube brace shall allow the push tube to fall away if bolt shears	X		
f.	Heavy duty 3½" O.D. ¼" wall thickness outer pipe, 2½" O.D. ¼" wall thickness inner pipe rear push tube with bracing mounted behind rear axles	X		
i.	The push tube shall have a 3/8" weep hole drilled at the top and bottom of both ends of the tube to allow moisture to escape	X		
ii.	The push tube spring shall have a minimum of 4 braces	X		
iii.	Push tube length adjustment to be secured with bolt and lock nut. Hitch pin with hair pin not acceptable.	X		
g.	Adjustable heavy duty push tube as close as possible to 90° angle to the moldboard not to exceed maximum 18" from the outside end of the moldboard	X		
h.	Close-in transport position 24" maximum to outside of wing, push tube shall rest against a T-brace type stop with a rubber cushion bumper when wing is in transport position	X		
i.	T-brace type stop shall be located below the bottom of the box height so not to strike the box or interfere with the box operation	X		
j.	Wing drift safety chain mounted to T-brace stop, fixed at the cab (front) end and loose at the box (back) end	X		
k.	Wing drift chain mounted to front post with a fixed and loose end	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

COMPLY
YES NO

SPECIFICATION
DEVIATIONS

- I. Grease bank to combine grease points for lift into one location. The grease hose tubing shall be Parker Paraflex Hytron HLB02, 1/8" ID, 3,000 PSI rated or equal. The fittings shall be 1/8" straight and/or 1/8" swivel from Parker or equal. High pressure grease hose to be connected to all wing lift grease locations. Any locations not accessible with hose must have adequate length or angled zerk for easy access.

X

2. Weight of complete assembly, minimum 1,600 lbs maximum 2,200 lbs

X

3. Wing plow warning light, Whelen TIR3 Super LED, WPLOW1A

- a. Shall be wired to the truck rear amber warning light switch

X

- b. Wiring on the wing shall be routed through conduit or in an acceptable manner to protect wire from being damaged, if the wiring can be routed through existing moldboard supports, it shall be secured in an acceptable manner using Waytek button head ties part no. 21087, or equal. Any holes that the wiring runs through must be Grommited

X

- c. Wing warning light shall have a weatherproof connection and be capable of being unplugged at the front wing post

X

4. Reflective tape shall be placed on the top of the toe cylinder (Note: see picture for location)

X

5. Manuals, as applicable

- a. Two operator's manuals

X

- b. Two lubrication schedules

X

- c. Two parts books

X

- d. Two Technical Repair Manual

X

6. Paint

Moldboard to be powder coated and painted orange. Mounting brackets, push tube, and other hardware to be powder coated and painted black

X

7. Warranty

one year

One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period

X

The snow wing shall be delivered mounted on the truck and ready for immediate use. The snow wing shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

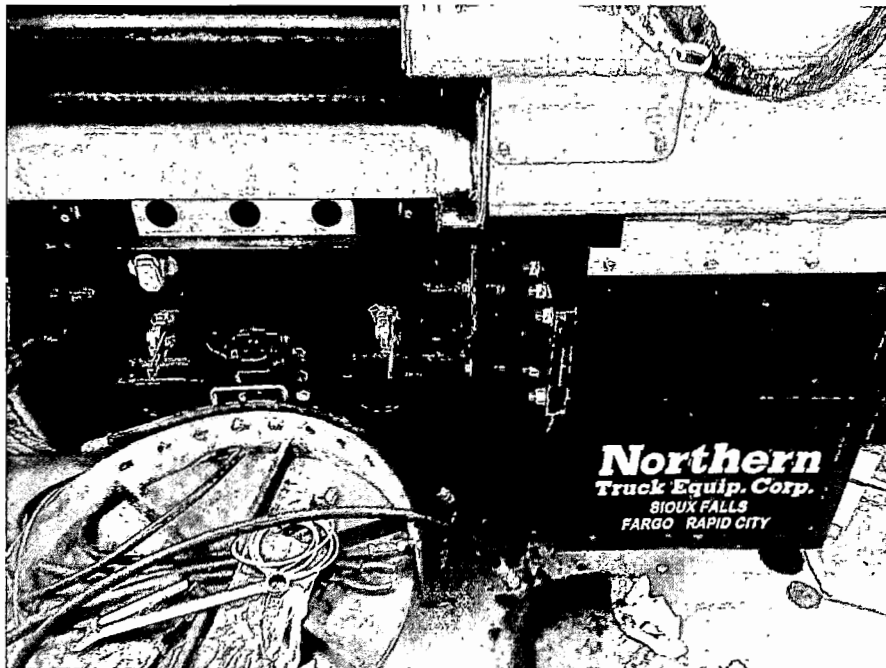
MAKE: Monroe MODEL: 10' DFWMB-Paraglide-ND

PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Eq TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56580

BIDDER: _____

These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



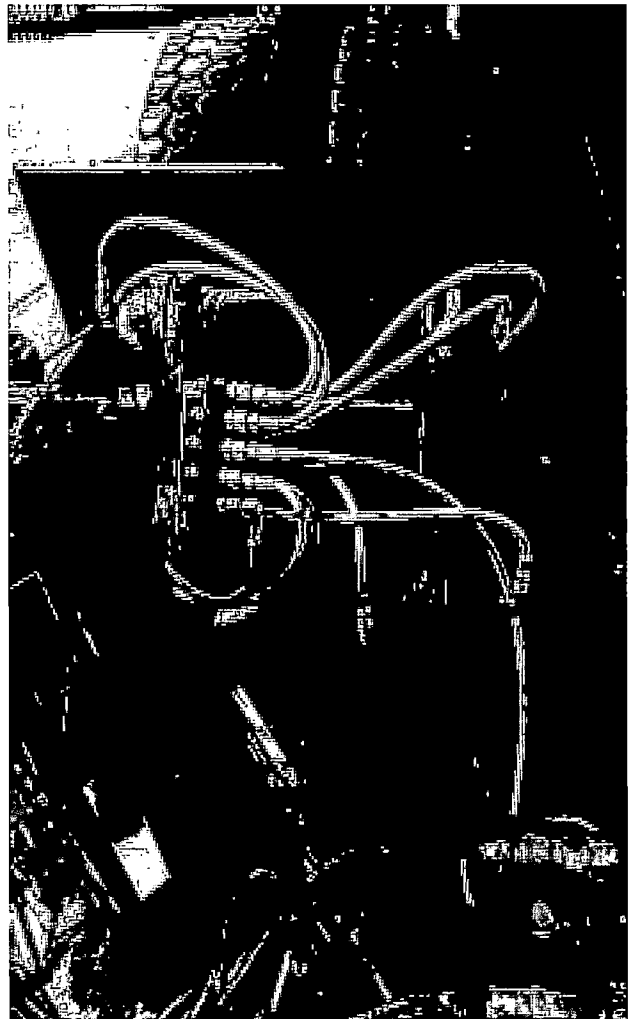
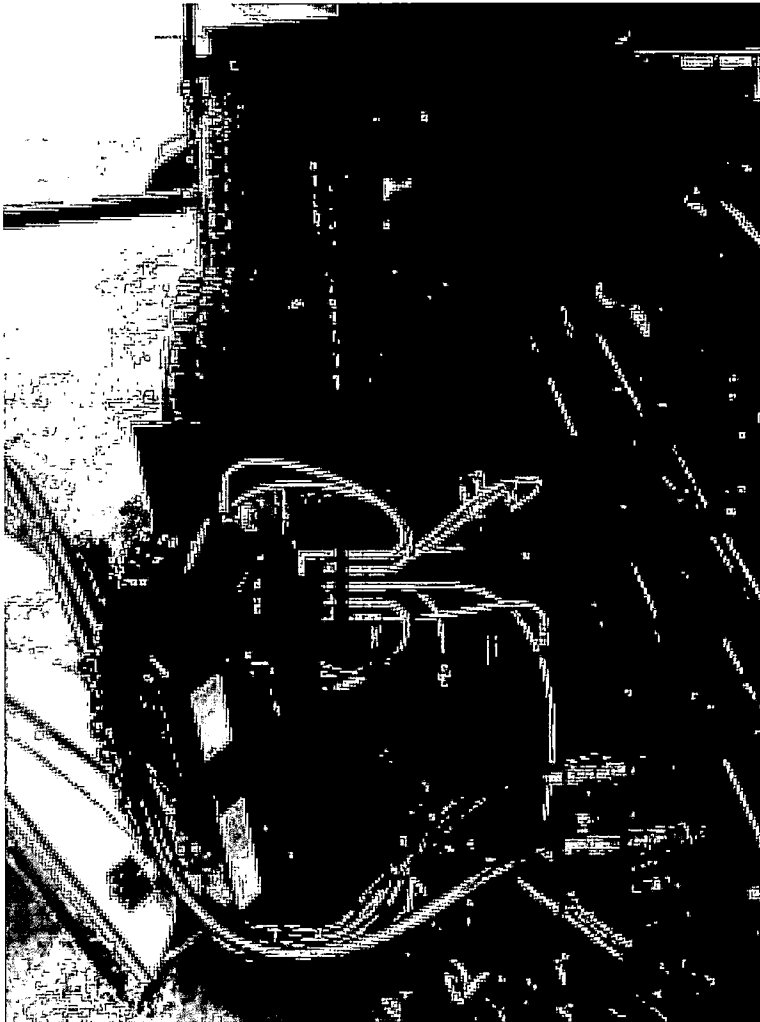
Example of rear wing brace tube and disconnect flange



Example of reflective tape on wing toe cylinder

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____



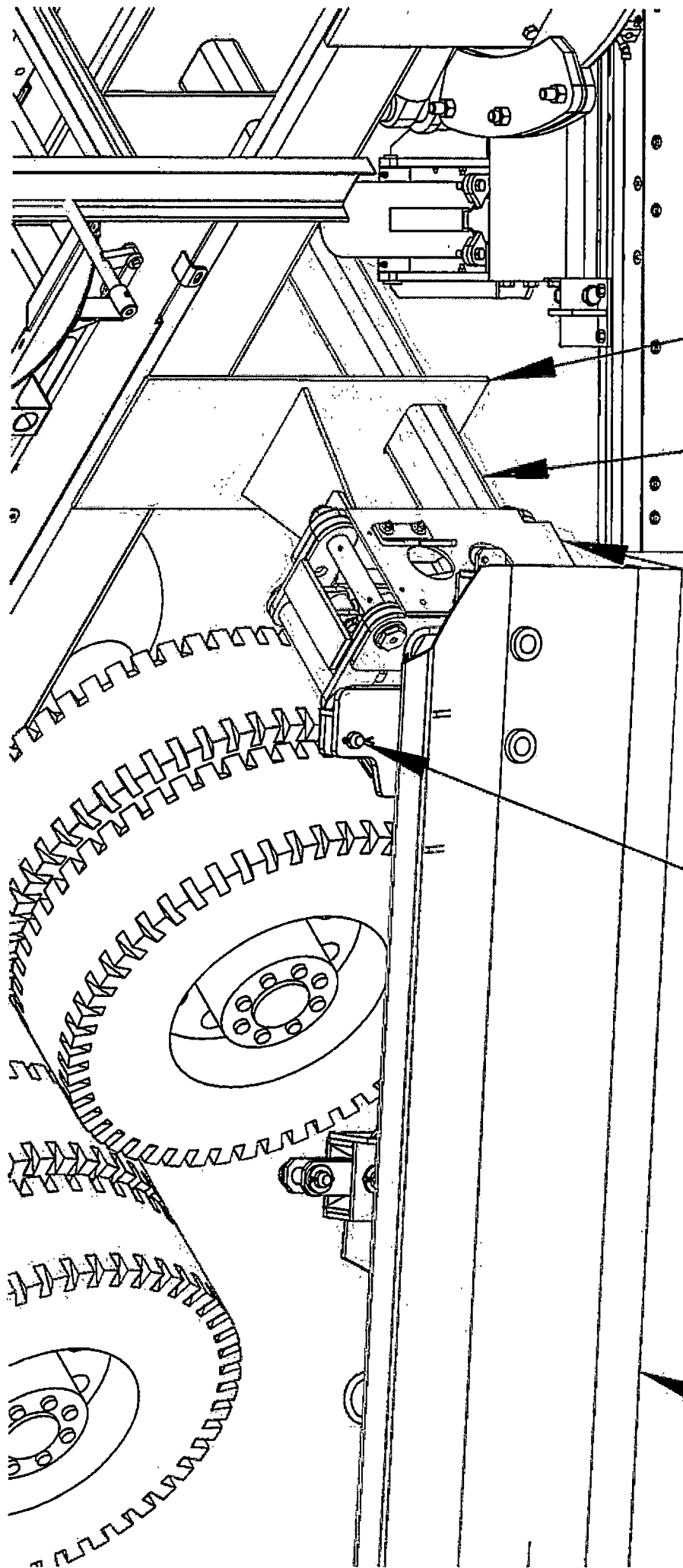
Example of grease bank and hose for toe lift.

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

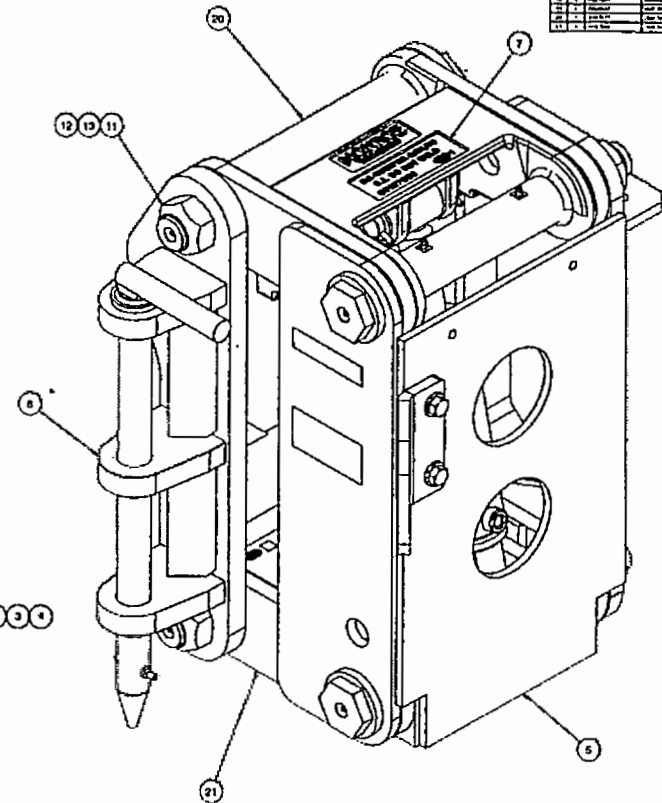
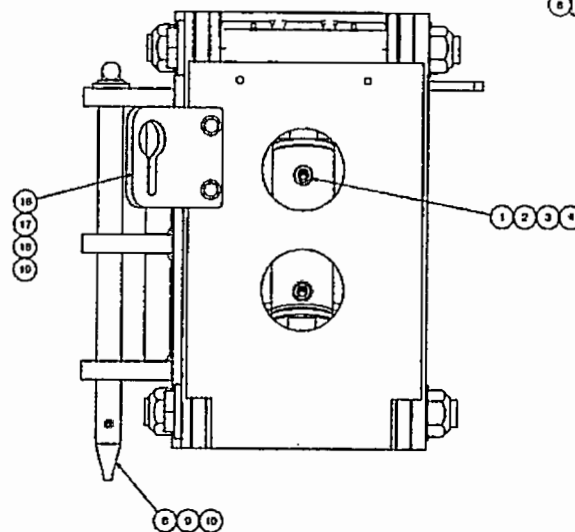
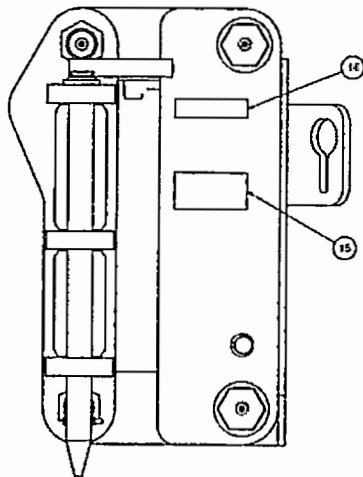
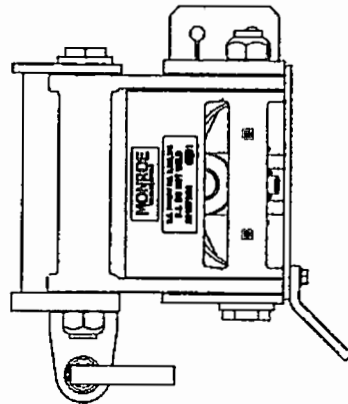
(RH)

1-A



1-B

RH

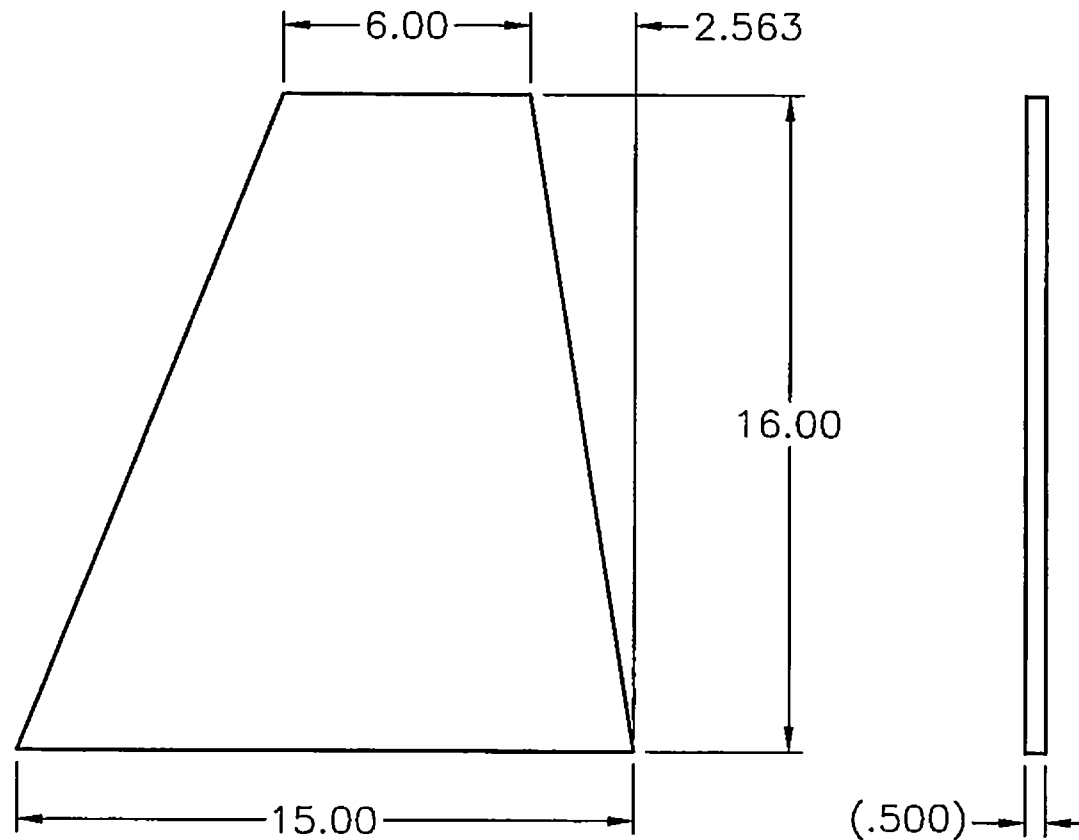


NOTE: COMPLETELY REMOVE PLUGS FROM CYLINDER BEFORE INSTALLING. REINSTALL PLUGS AFTER ASSEMBLY IS COMPLETE.

Part No.	Description	Qty.
1	Wink Post Assembly	1
2	Wink Post Assembly	1
3	Wink Post Assembly	1
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6	Wink Post Assembly	1
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8	Wink Post Assembly	1
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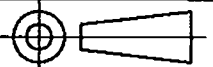
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1-C

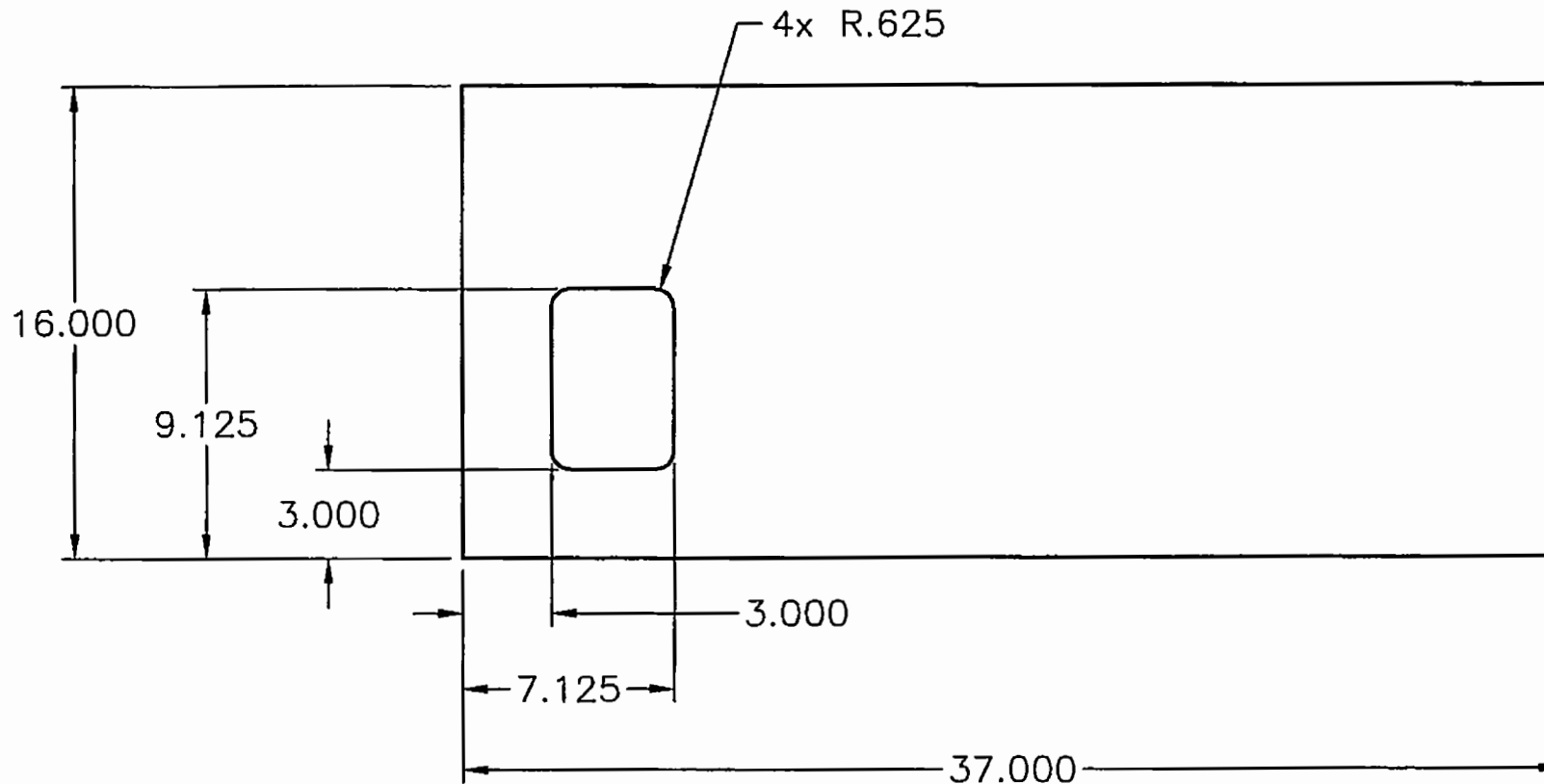


- REMOVE ALL BURRS AND SHARP EDGES.
- DIMENSIONS SHOWN IN () ARE REFERENCE ONLY.

MATERIAL: PLATE,MS,.500,HR A36 TP


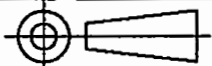
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				CHECKED BY: MNB		8/6/2013								
				APPROVED BY:										
				SQ FT: 1.166		LBS: 24								
			ANGULAR ±1°	THIRD ANGLE PROJECTION		MFG CODE		TITLE SUPPORT PL,POST,WING,PARA ND,2013						
						D								
RELEASED,PR#9560			TLC	X	8/6/2013		REV. NO:	This drawing is the property of Monroe Truck Equipment and is loaned subject to the condition that it is not to be used in whole or part to assist in the making of drawings, prints, apparatus, or parts thereof without written permission.			SIZE	SCALE	PART NUMBER	SHEET
REVISION			INITIALS	DATE	0		A	.2"=1"		00152442	1 of 1			

1--0



NOTE: 1. DIMENSIONS SHOWN IN () ARE REFERENCE ONLY.

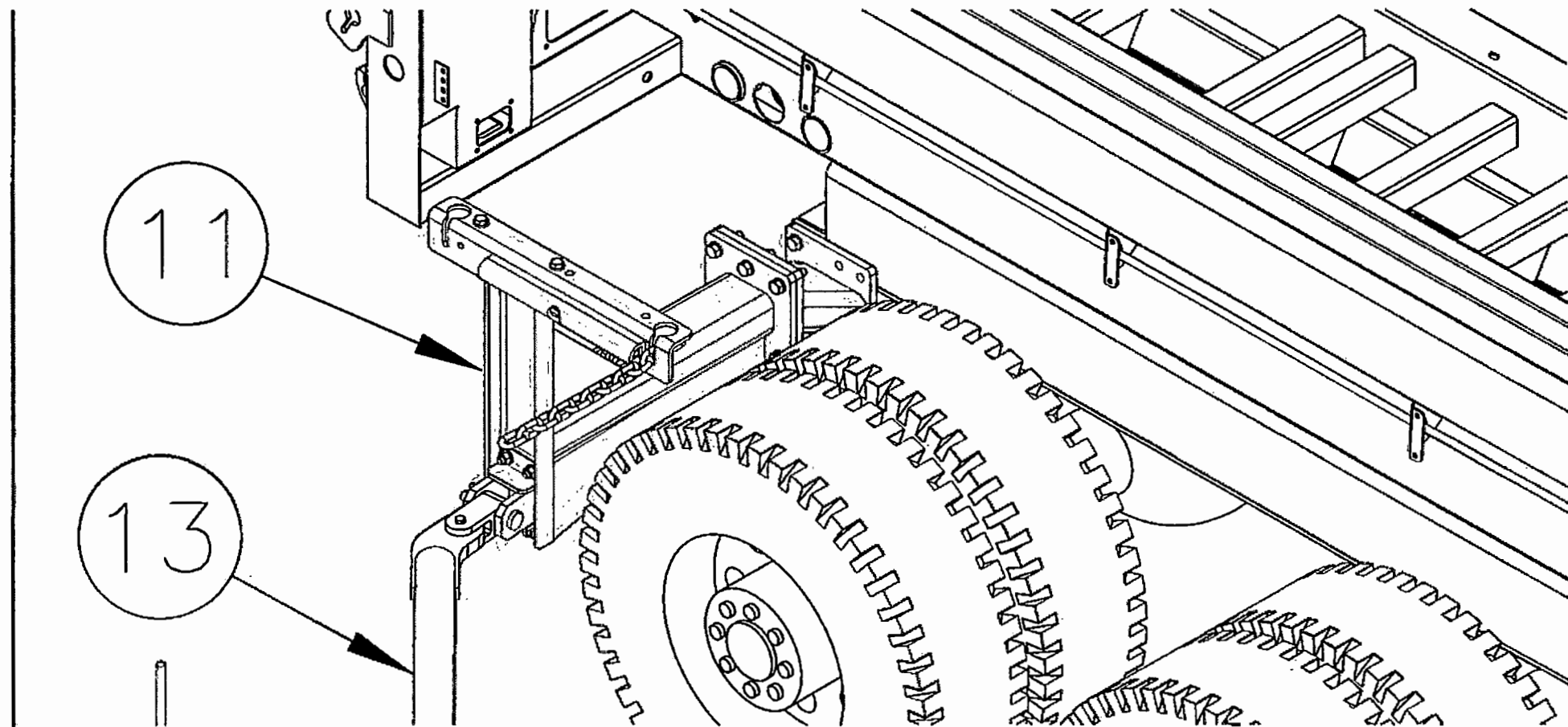
MATERIAL: PL .500

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5						CHECKED BY: JTC	7/19/2004	
4						APPROVED BY:		
3					MACHINED ±0.005	ENGINEERED BY:		<p>TITLE</p> <p>SIDE PL, REAR, ND 2004</p>
2						THIRD ANGLE PROJECTION	MFG CODE	
1					ANGULAR ±1°		D	
0	RELEASED	DRT	X	07-19-2004	<p>This drawing is the property of Monroe Truck Equipment and is loaned subject to the condition that it is not to be used in whole or part to assist in the making of drawings, prints, apparatus, or parts thereof without written permission.</p>			<p>SIZE</p> <p>A</p>
REVISION		INITIALS		DATE	<p>SCALE</p> <p>.15"=1"</p>		<p>PART NUMBER</p> <p>00026449</p>	<p>SHEET</p> <p>1 of 1</p>

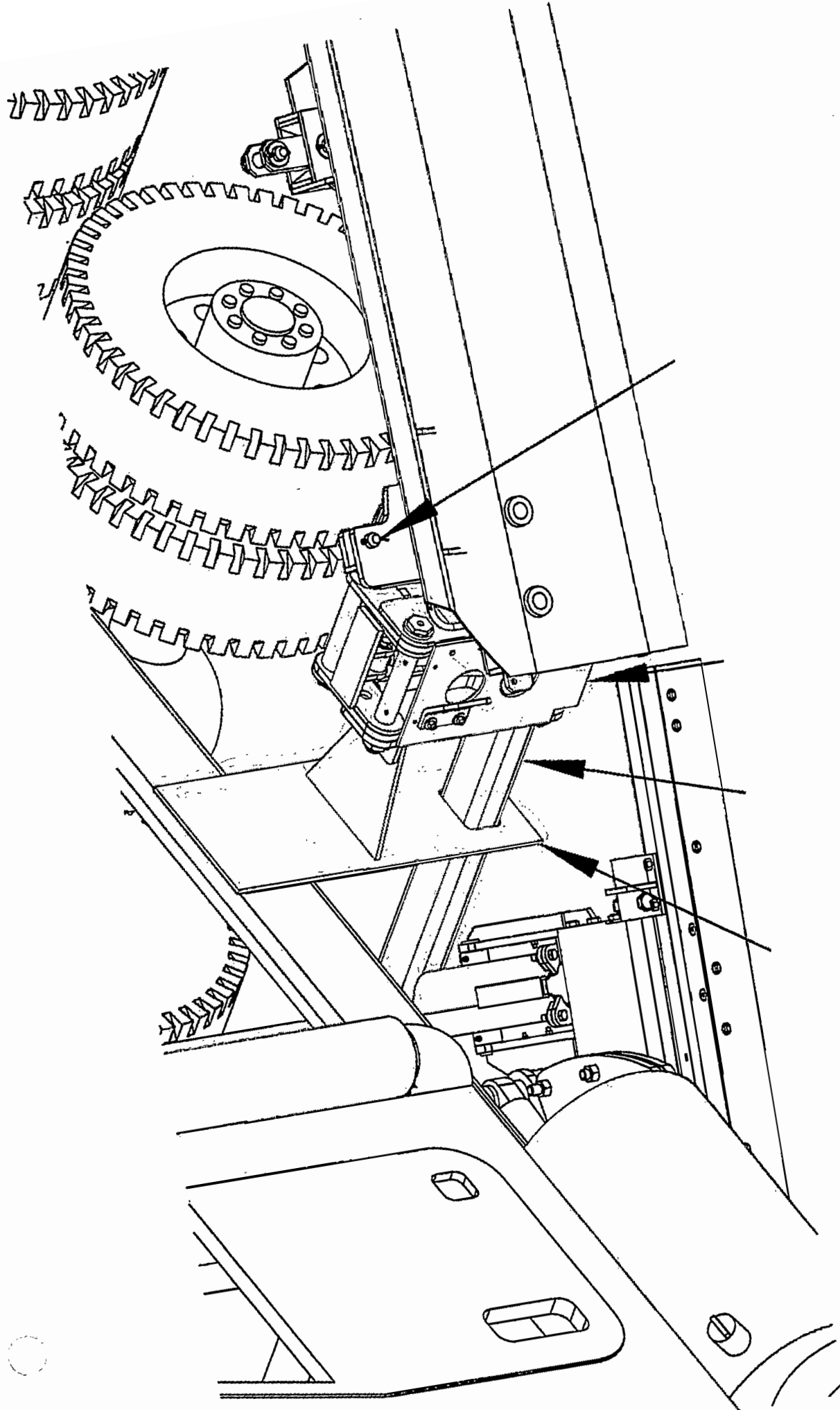


-E

RH

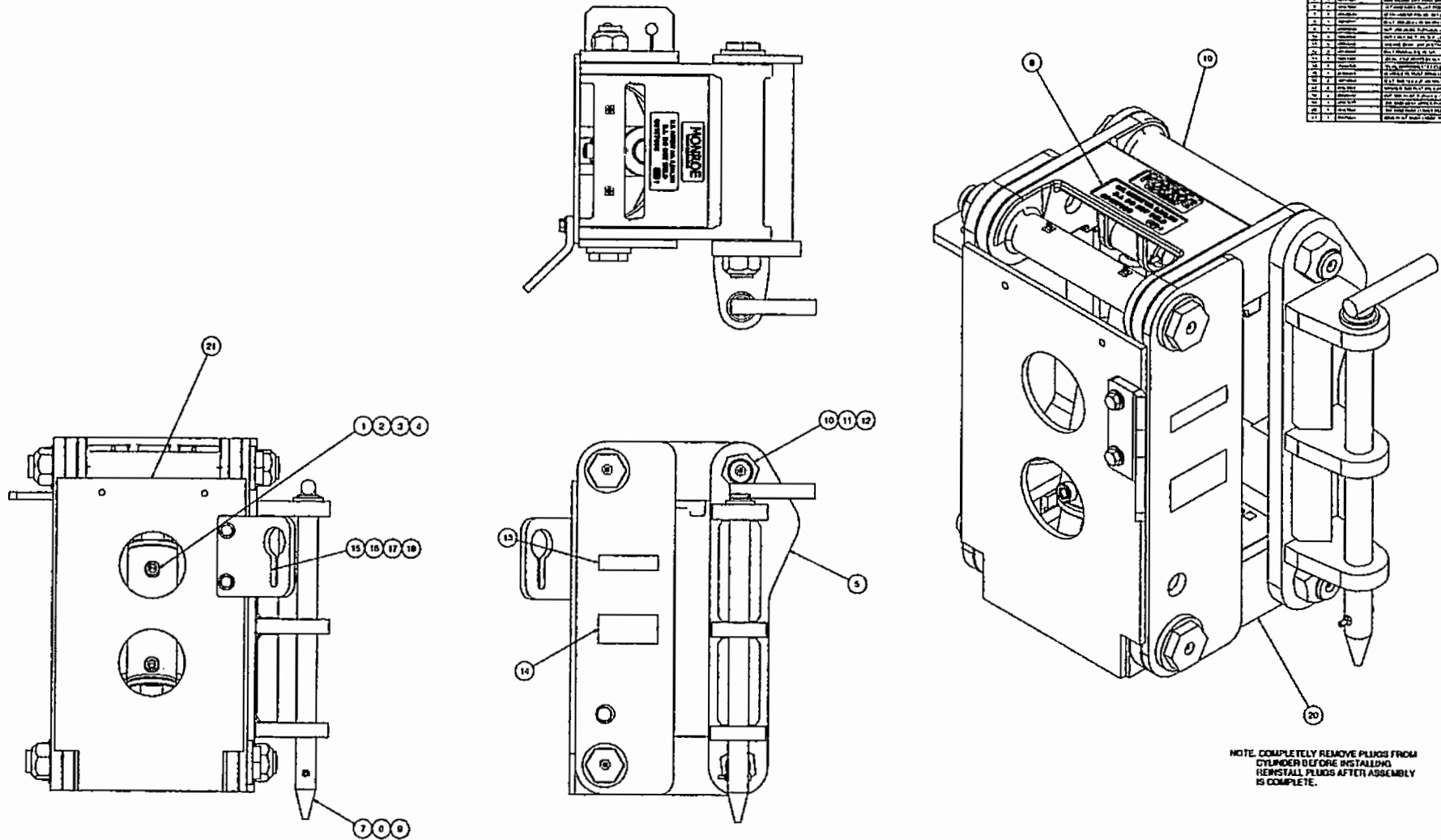


2-A



2-B

LH



Part No.	Description	Qty
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6	Mounting bracket	1
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18	Mounting bracket	1
19	Mounting bracket	1
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21	Mounting bracket	1

NOTE: COMPLETELY REMOVE PLUGS FROM CYLINDER BEFORE INSTALLING. REINSTALL PLUGS AFTER ASSEMBLY IS COMPLETE.

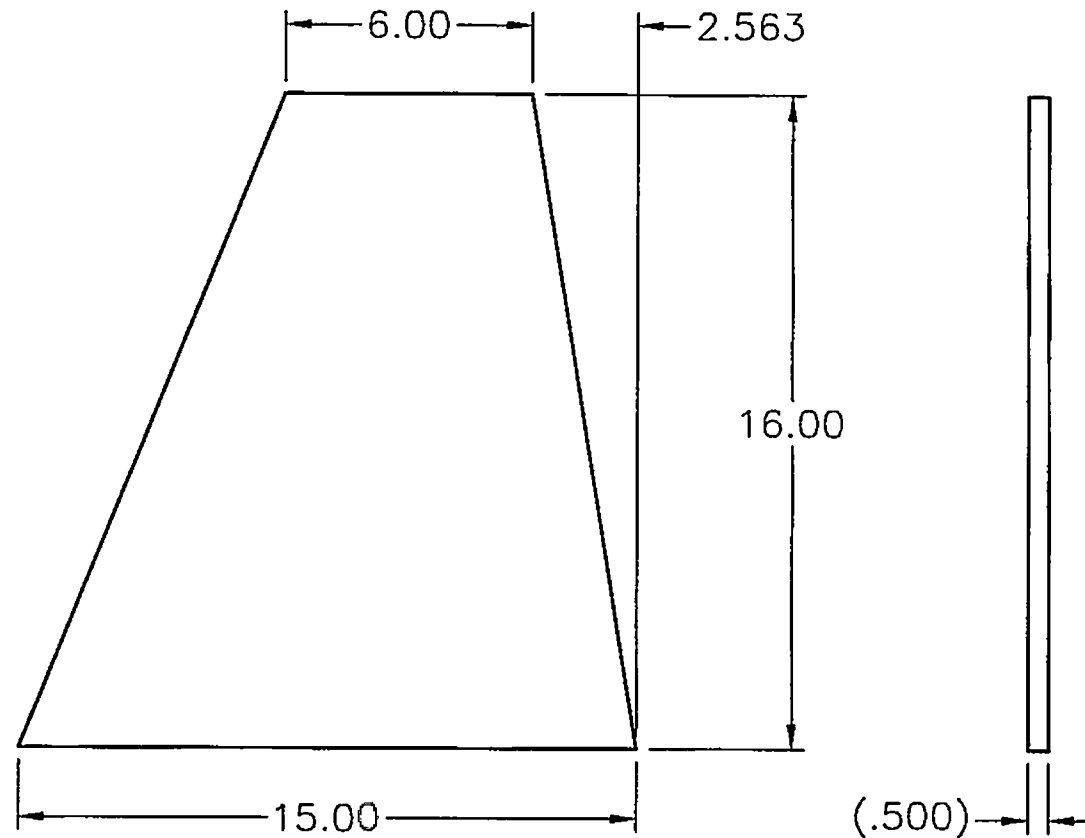
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ECR 11173	REJ 71C	0407014	DATE	03/2011	
ECR 11174	REJ 71C	0407014	DATE	03/2011	
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HYD POST ASSY LH BLADE PARA


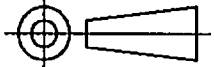
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2-C



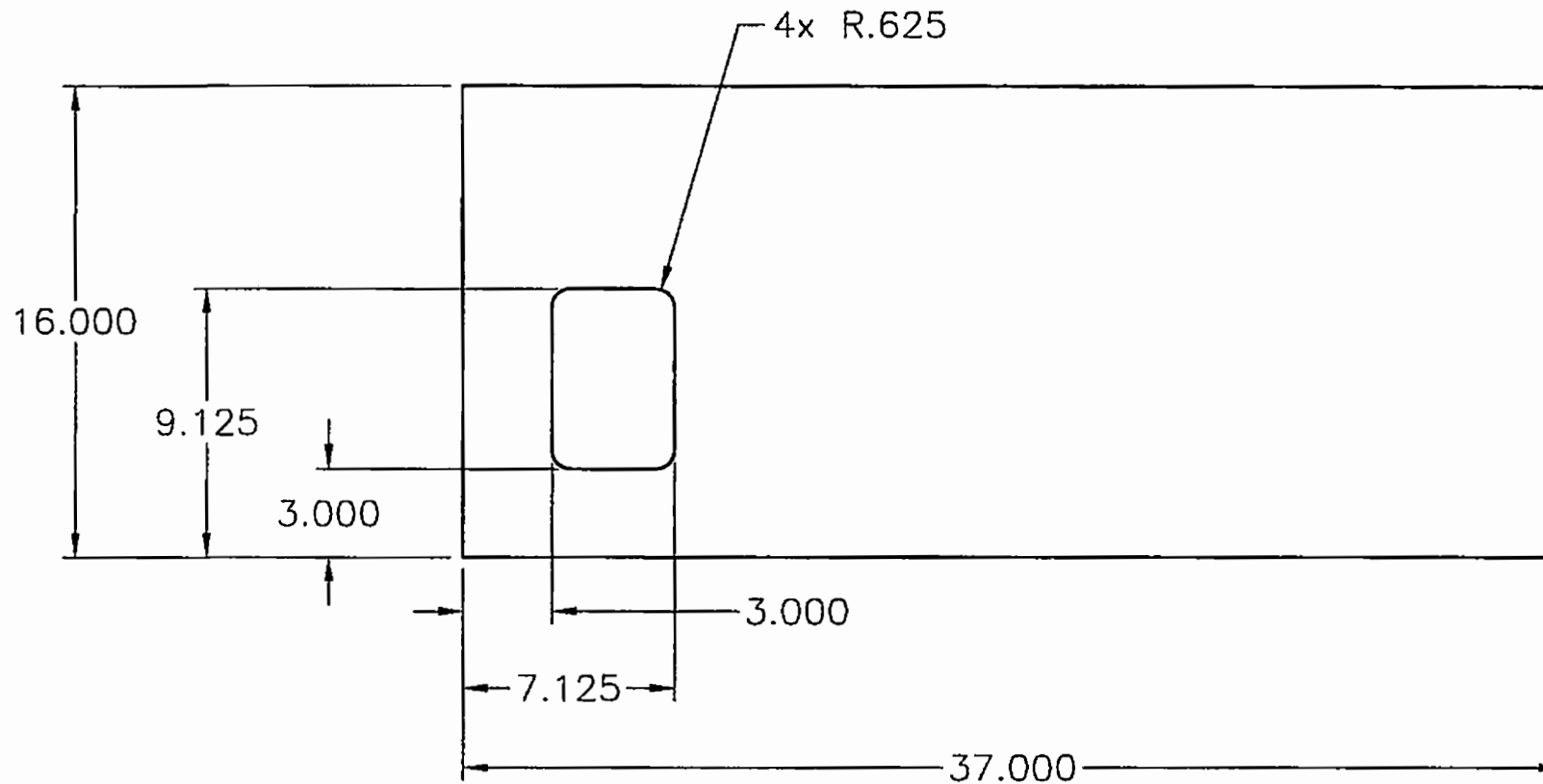
- REMOVE ALL BURRS AND SHARP EDGES.
- DIMENSIONS SHOWN IN () ARE REFERENCE ONLY.

MATERIAL: PLATE,MS,.500,HR A36 TP

				TOLERANCES UNLESS OTHERWISE INDICATED DECIMALS .XX ± .06 .XXX ± .031	AUTHORIZATION		DATE		1051 West 7th Street Monroe, WI 53566-9100 608/328-8127			
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					CHECKED BY: MNB		8/6/2013					
					APPROVED BY:							
					SQ FT: 1.166		LBS: 24	TITLE SUPPORT PL,POST,WING,PARA ND,2013				
				THIRD ANGLE PROJECTION		MFG CODE						
						D						
				ANGULAR ±1°								
RELEASED,PR#9560				TLC	X	8/6/2013						
REVISION				INITIALS		DATE		SIZE A		SCALE .2"=1"	PART NUMBER 00152442	SHEET 1 of 1


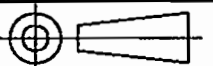
This drawing is the property of Monroe Truck Equipment and is loaned subject to the condition that it is not to be used in whole or part to assist in the making of drawings, prints, apparatus, or parts thereof without written permission.

2-D



NOTE: 1. DIMENSIONS SHOWN IN () ARE REFERENCE ONLY.

MATERIAL: PL .500

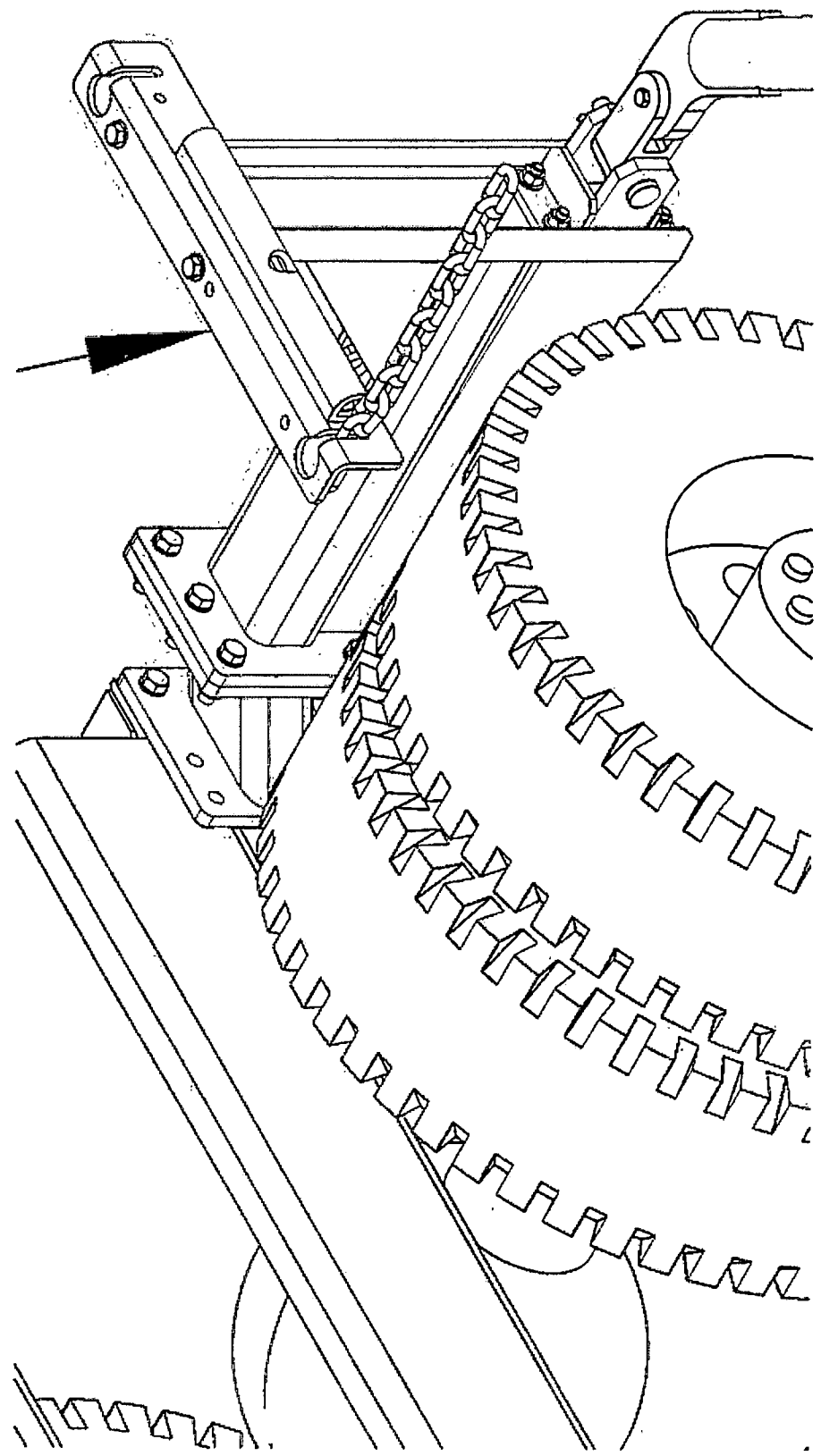
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△					FABRICATED ±0.060	DRAWN BY: DRT	7/19/2004	
△						CHECKED BY: JTC	7/19/2004	
△						APPROVED BY:		
△					MACHINED ±0.005	ENGINEERED BY:		<p>TITLE</p> <p>SIDE PL, REAR, ND 2004</p>
△						THIRD ANGLE PROJECTION	MFG CODE	
△					ANGULAR ±1°		D	
△	RELEASED	DRT	X	07-19-2004	This drawing is the property of Monroe Truck Equipment and is loaned subject to the condition that it is not to be used in whole or part to assist in the making of drawings, prints, apparatus, or parts thereof without written permission.			SIZE A
NUM	REVISION	INITIALS	DATE					SCALE .15"=1"
								PART NUMBER 00026449
								SHEET 1 of 1

27-LH

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○

2-E



13	14	15	16	17	18
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Falls SOL-10A-PL
Post Less wing

(04-19-17)

SSP-95-4200-23

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS

FOR

REAR MOUNT SNOW WING, 10'

(FALLS SDL-10, MONROE 10-DFWMB/ND, HENDERSON HWS-10, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a 10' rear mounted patrol snow wing to be furnished and installed on a 58,000 GVW tandem axle truck. The wing will be installed on the same chassis with an underbody scraper. The wing shall work in combination with the 11' underbody scraper and receive material from the underbody and discharge the material without leaving a ridge between the wing and underbody. The wing shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The wing shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications.

Installation: The snow wing shall be installed according to the manufacturer's instructions and to the acceptance of the NDDOT. The wing post shall be installed in front of the tandem axles under the truck box and shall not be out beside the box. The rear push tube brace assembly shall be installed behind the rear axles on 6" of after frame behind the spring assembly. **The rear push tube brace shall be installed directly to trucks rear hitch plate using manufacturers approved bracketry.** Steel plates that extend down from the truck frame that hold the rear push tube brace are not acceptable. All connections to the truck frame shall be bolted connections using grade 8 frame bolts, meeting SAE J-429 specifications. The wing brace tube shall be capable of being removed without having to disconnect from frame or removing hitch. The disconnect point shall be on the wing side and shall be bolt together plates at this disconnect point, welded to the cross tube and shall be bolted together with a minimum of four 3/4" G8 bolts. For sample see photo. The final design shall be approved by the NDDOT Maintenance & Engineering Services Division, Shawn Hauck, (701) 328-2565

The wing shall be installed to allow the moldboard toe to fully float taking account for truck sag due to loading. The moldboard toe shall not apply any down pressure. The hydraulic hoses shall have swivel couplers and 37° JIC fittings where applicable and be quick coupled. The couplers shall be located up as high as possible to limit their contact with road material. A fluorescent orange tubular plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing. The tubular marker shall have a weep hole drilled into the base of the marker to allow moisture to seep out. The wing LED warning light mounting location shall be approved by the NDDOT and shall be wired to the same in cab control switch as the amber body warning lights. Any questions and weekly updates shall be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ 701-328-2565.

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
1. Stored/folded-up clearance			
a. Front 13"	X		meets or Exceed spec's
b. Rear 90"	X		
2. Lift			see Attached Drawings
a. Cab-controlled hydraulic lift cylinder	X		
i. Cylinder rods to be nitrated rods	X		
b. All hydraulic front post slide mechanism (Note: tube in tube type slide with cable is not acceptable)	X		

REAR MOUNT SNOW WING, 10'
23

SSP-95-4200-

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
c. Heel lift	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Floatation both heel and toe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Wing Loc or equal outboard lift cylinder hydraulic locking device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Moldboard			
a. 50,000 PSI 10-gauge EX-TEN 50 (MILD STEEL NOT ACCEPTABLE)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Overall moldboard length 10'	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. 100% continuously welded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. 3/4" thick frog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Frog to be square hole punched and spaced according to AASHTO standards to accept two 3' (one on each end) and one 4' (in the center) tungsten carbide cutting edges secured with 5/8" bolts, there shall be sufficient holes in the frog so all of the holes in the cutting edge can be used (cutting edges furnished by NDDOT)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Full length top and bottom supports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Height at front 29"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Height at rear 29"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Spring-cushioned push tube with shear pin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j. Push tube pin location, pinned 18" from outside end maximum	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k. Weight of moldboard minimum 600 lbs maximum 1550 lbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l. 28" high fluorescent orange tubular plow marker kit, Buyers or Catco model 1308105 or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m. Wing lift eye/pick point, 2 each mounted so that the wing can be lifted evenly when being removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
n. Moldboard must be compatible of mounting to Monroe ParaGlide® wing lift mechanism. Retrofit plates will be allowed to make this attachment but must allow full function of parallel lift system and be approved by NDDOT.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Mount			
a. Right or Left side, rear mount to be flange mounted for easy removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
a. Parallel-lift style mount allowing full floatation of moldboard toe. Monroe brand Para-Glide® lift mechanism required. Similar operating style parallel-lifting mechanisms must be field tested minimum one year and pre-approved by NDDOT before being accepted as equal to Para-Glide® Sliding plate style front mount not accepted. Front mount assembly positioned in front of the rear axles with adequate pipe bracing positioned to stabilize the mount from forward-backward and side to side motion, two pipe braces minimum, where applicable, bracing to be approved on prototype truck by NDDOT representative.	X		
b. Front post cross brace to both frame rails shall allow clearance for the drive shaft	X		
c. If applicable, The pivot shaft top plate(s) shall be 100% welded top and bottom	X		
d. The ears on the rear push tube brace that the push tube pins to shall be in line with the push tube (Note: ears at 90° to the truck frame are not acceptable)	X		
e. The rear of the push tube shall be attached to the rear push tube brace with a ½" grade 2 bolt that will act as the shear point for the wing. The rear push tube brace shall allow the push tube to fall away if bolt shears	X		
f. Heavy duty 3½" O.D. d" wall thickness outer pipe, 2½" O.D. d" wall thickness inner pipe rear push tube with bracing mounted behind rear axles	X		
i. The push tube shall have a 3/8" weep hole drilled at the top and bottom of both ends of the tube to allow moisture to escape	X		
ii. The push tube spring shall have a minimum of 4 braces	X		
iii. Push tube length adjustment to be secured with bolt and lock nut. Hitch pin with hair pin not acceptable.	X		
g. Adjustable heavy duty push tube as close as possible to 90° angle to the moldboard not to exceed maximum 18" from the outside end of the moldboard	X		
h. Close-in transport position 24" maximum to outside of wing, push tube shall rest against a T-brace type stop with a rubber cushion bumper when wing is in transport position	X		
i. T-brace type stop shall be located below the bottom of the box height so not to strike the box or interfere with the box operation	X		
j. Wing drift safety chain mounted to T-brace stop, fixed at the cab (front) end and loose at the box (back) end	X		
k. Wing drift chain mounted to front post with a fixed and loose end	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 58560

COMPLY
YES NO

SPECIFICATION
DEVIATIONS

1. Grease bank to combine grease points for lift into one location. The grease hose tubing shall be Parker Paraflex Hytron HLB02, 1/8" ID, 3,000 PSI rated or equal. The fittings shall be 1/8" straight and/or 1/8" swivel from Parker or equal. High pressure grease hose to be connected to all wing lift grease locations. Any locations not accessible with hose must have adequate length or angled zerk for easy access. X
2. Weight of complete assembly, minimum 1,600 lbs maximum 2,200 lbs X
3. Wing plow warning light, Whelen TIR3 Super LED, WPLOW1A
 - a. Shall be wired to the truck rear amber warning light switch X
 - b. Wiring on the wing shall be routed through conduit or in an acceptable manner to protect wire from being damaged, if the wiring can be routed through existing moldboard supports, it shall be secured in an acceptable manner using Waytek button head ties part no. 21087, or equal. Any holes that the wiring runs through must be Grommited X
 - c. Wing warning light shall have a weatherproof connection and be capable of being unplugged at the front wing post X
4. Reflective tape shall be placed on the top of the toe cylinder (Note: see picture for location) X
5. Manuals, as applicable
 - a. Two operator's manuals X
 - b. Two lubrication schedules X
 - c. Two parts books X
 - d. Two Technical Repair Manual X
6. Paint

Moldboard to be powder coated and painted orange. Mounting brackets, push tube, and other hardware to be powder coated and painted black X
7. Warranty

One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period X

Three year warranty

The snow wing shall be delivered mounted on the truck and ready for immediate use. The snow wing shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

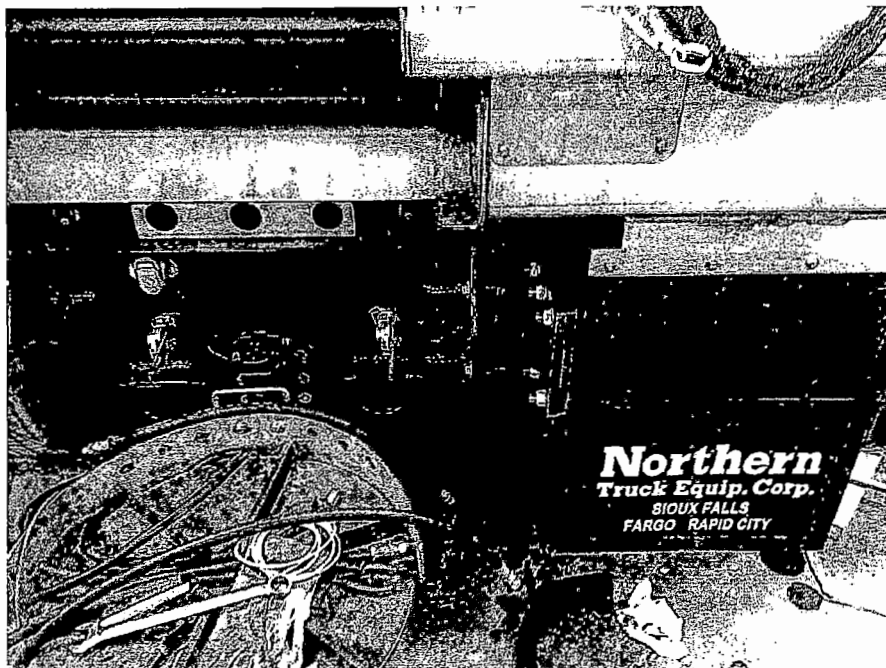
MAKE: Falls MODEL: SOL-10A-PL - Postless wing

PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Eq. TELEPHONE: 800-232-3787

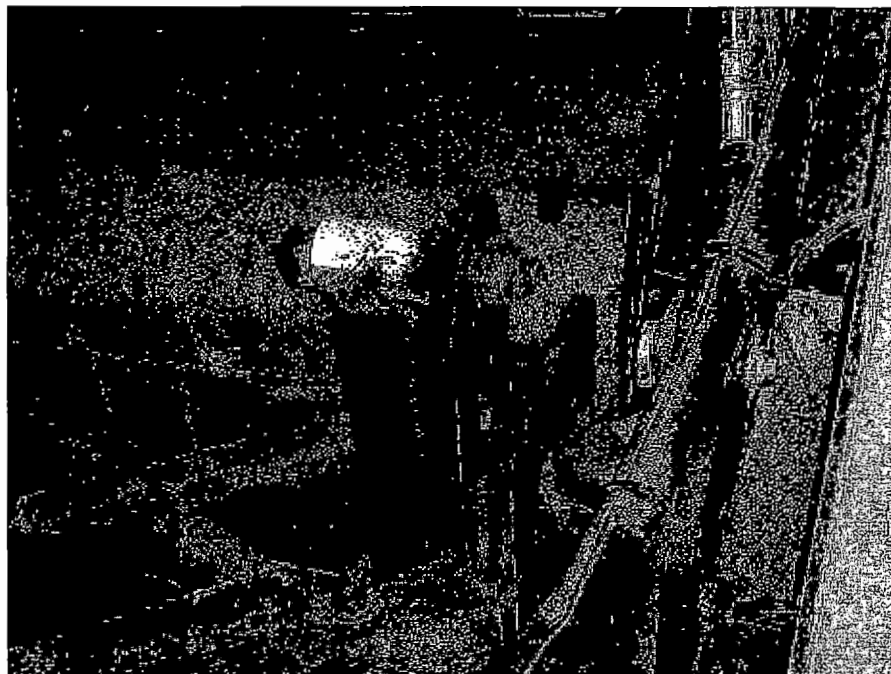
Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56580

BIDDER: _____

23
These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



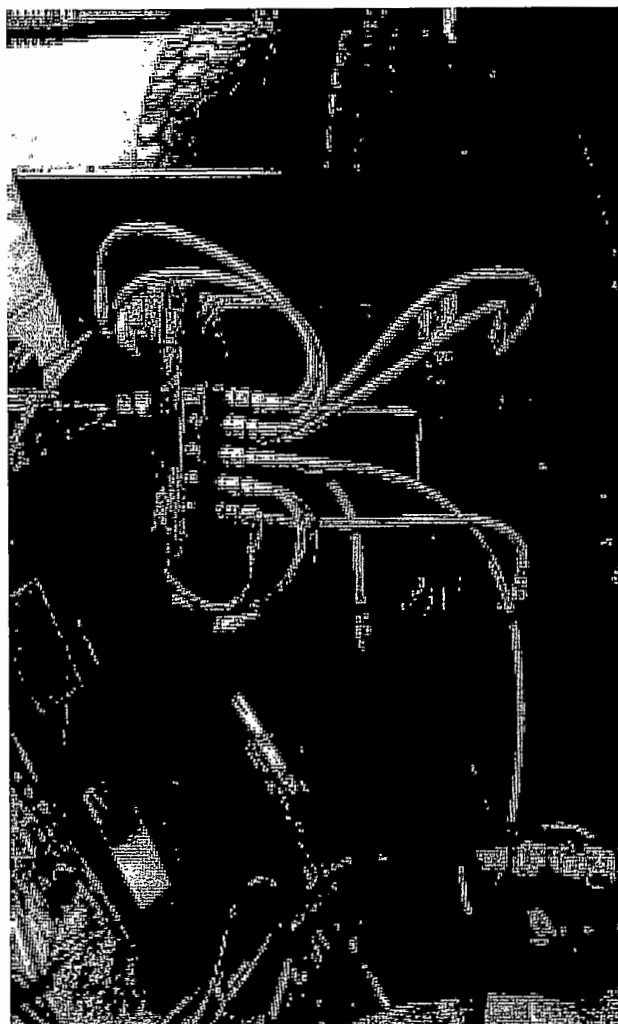
Example of rear wing brace tube and disconnect flange



Example of reflective tape on wing toe cylinder

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____



Example of grease bank and hose for toe lift.

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

Monroe - Fall Postless wing
Monroe Paraglide Lift
Falls Moldboard

(04-19-17)

SSP-95-4200-23

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR

REAR MOUNT SNOW WING, 10'

(FALLS SDL-10, MONROE 10-DFWMB/ND, HENDERSON HWS-10, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a 10' rear mounted patrol snow wing to be furnished and installed on a 58,000 GVW tandem axle truck. The wing will be installed on the same chassis with an underbody scraper. The wing shall work in combination with the 11' underbody scraper and receive material from the underbody and discharge the material without leaving a ridge between the wing and underbody. The wing shall be of all steel fabrication, of rugged construction, and properly braced and reinforced. The wing shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications.

Installation: The snow wing shall be installed according to the manufacturer's instructions and to the acceptance of the NDDOT. The wing post shall be installed in front of the tandem axles under the truck box and shall not be out beside the box. The rear push tube brace assembly shall be installed behind the rear axles on 6" of after frame behind the spring assembly. **The rear push tube brace shall be installed directly to trucks rear hitch plate using manufacturers approved bracketry.** Steel plates that extend down from the truck frame that hold the rear push tube brace are not acceptable. All connections to the truck frame shall be bolted connections using grade 8 frame bolts, meeting SAE J-429 specifications. The wing brace tube shall be capable of being removed without having to disconnect from frame or removing hitch. The disconnect point shall be on the wing side and shall be bolt together plates at this disconnect point, welded to the cross tube and shall be bolted together with a minimum of four 3/4" G8 bolts. For sample see photo. The final design shall be approved by the NDDOT Maintenance & Engineering Services Division, Shawn Hauck, (701) 328-2565

The wing shall be installed to allow the moldboard toe to fully float taking account for truck sag due to loading. The moldboard toe shall not apply any down pressure. The hydraulic hoses shall have swivel couplers and 37° JIC fittings where applicable and be quick coupled. The couplers shall be located up as high as possible to limit their contact with road material. A fluorescent orange tubular plow marker shall be attached to the top of the wing moldboard heel to delineate the outside edge of the wing. The tubular marker shall have a weep hole drilled into the base of the marker to allow moisture to seep out. The wing LED warning light mounting location shall be approved by the NDDOT and shall be wired to the same in cab control switch as the amber body warning lights. Any questions and weekly updates shall be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck @ 701-328-2565.

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
1. Stored/folded-up clearance			Meets or
a. Front 13"	X		Exceeds
b. Rear 90"	X		specifications
2. Lift			
a. Cab-controlled hydraulic lift cylinder	X		
i. Cylinder rods to be nitrated rods	X		
b. All hydraulic front post slide mechanism (Note: tube in tube type slide with cable is not acceptable)	X		

REAR MOUNT SNOW WING, 10'

23

SSP-95-4200-

COMPLY		SPECIFICATION DEVIATIONS
YES	NO	

- | | | | |
|--|-------------------------------------|--|--|
| c. Heel lift | <input checked="" type="checkbox"/> | | |
| d. Flootation both heel and toe | <input checked="" type="checkbox"/> | | |
| e. Wing Loc or equal outboard lift cylinder hydraulic locking device | <input checked="" type="checkbox"/> | | |

3. Moldboard

- | | | | |
|---|-------------------------------------|--|--|
| a. 50,000 PSI 10-gauge EX-TEN 50 (MILD STEEL NOT ACCEPTABLE) | <input checked="" type="checkbox"/> | | |
| b. Overall moldboard length 10' | <input checked="" type="checkbox"/> | | |
| c. 100% continuously welded | <input checked="" type="checkbox"/> | | |
| d. 3/4" thick frog | <input checked="" type="checkbox"/> | | |
| e. Frog to be square hole punched and spaced according to AASHTO standards to accept two 3' (one on each end) and one 4' (in the center) tungsten carbide cutting edges secured with 5/8" bolts, there shall be sufficient holes in the frog so all of the holes in the cutting edge can be used (cutting edges furnished by NDDOT) | <input checked="" type="checkbox"/> | | |
| f. Full length top and bottom supports | <input checked="" type="checkbox"/> | | |
| g. Height at front 29" | <input checked="" type="checkbox"/> | | |
| h. Height at rear 29" | <input checked="" type="checkbox"/> | | |
| i. Spring-cushioned push tube with shear pin | <input checked="" type="checkbox"/> | | |
| j. Push tube pin location, pinned 18" from outside end maximum | <input checked="" type="checkbox"/> | | |
| k. Weight of moldboard minimum 600 lbs maximum 1550 lbs | <input checked="" type="checkbox"/> | | |
| l. 28" high fluorescent orange tubular plow marker kit, Buyers or Catco model 1308105 or equal | <input checked="" type="checkbox"/> | | |
| m. Wing lift eye/pick point, 2 each mounted so that the wing can be lifted evenly when being removed | <input checked="" type="checkbox"/> | | |
| n. Moldboard must be compatible of mounting to Monroe ParaGlide® wing lift mechanism. Retrofit plates will be allowed to make this attachment but must allow full function of parallel lift system and be approved by NDDOT. | <input checked="" type="checkbox"/> | | |

4. Mount

- | | | | |
|---|-------------------------------------|--|--|
| a. Right or Left side, rear mount to be flange mounted for easy removal | <input checked="" type="checkbox"/> | | |
|---|-------------------------------------|--|--|

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
a. Parallel-lift style mount allowing full floatation of moldboard toe. Monroe brand Para-Glide® lift mechanism required. Similar operating style parallel-lifting mechanisms must be field tested minimum one year and pre-approved by NDDOT before being accepted as equal to Para-Glide® Sliding plate style front mount not accepted. Front mount assembly positioned in front of the rear axles with adequate pipe bracing positioned to stabilize the mount from forward-backward and side to side motion, two pipe braces minimum, where applicable, bracing to be approved on prototype truck by NDDOT representative.	X		
b. Front post cross brace to both frame rails shall allow clearance for the drive shaft	X		
c. If applicable, The pivot shaft top plate(s) shall be 100% welded top and bottom	X		
d. The ears on the rear push tube brace that the push tube pins to shall be in line with the push tube (Note: ears at 90° to the truck frame are not acceptable)	X		
e. The rear of the push tube shall be attached to the rear push tube brace with a ½" grade 2 bolt that will act as the shear point for the wing. The rear push tube brace shall allow the push tube to fall away if bolt shears	X		
f. Heavy duty 3½" O.D. ¼" wall thickness outer pipe, 2½" O.D. ¼" wall thickness inner pipe rear push tube with bracing mounted behind rear axles	X		
i. The push tube shall have a 3/8" weep hole drilled at the top and bottom of both ends of the tube to allow moisture to escape	X		
ii. The push tube spring shall have a minimum of 4 braces	X		
iii. Push tube length adjustment to be secured with bolt and lock nut. Hitch pin with hair pin not acceptable.	X		
g. Adjustable heavy duty push tube as close as possible to 90° angle to the moldboard not to exceed maximum 18" from the outside end of the moldboard	X		
h. Close-in transport position 24" maximum to outside of wing, push tube shall rest against a T-brace type stop with a rubber cushion bumper when wing is in transport position	X		
i. T-brace type stop shall be located below the bottom of the box height so not to strike the box or interfere with the box operation	X		
j. Wing drift safety chain mounted to T-brace stop, fixed at the cab (front) end and loose at the box (back) end	X		
k. Wing drift chain mounted to front post with a fixed and loose end	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 58560

COMPLY
YES NO

SPECIFICATION
DEVIATIONS

1. Grease bank to combine grease points for lift into one location. The grease hose tubing shall be Parker Paraflex Hytron HLB02, 1/8" ID, 3,000 PSI rated or equal. The fittings shall be 1/8" straight and/or 1/8" swivel from Parker or equal. High pressure grease hose to be connected to all wing lift grease locations. Any locations not accessible with hose must have adequate length or angled zerk for easy access. X
2. Weight of complete assembly, minimum 1,600 lbs maximum 2,200 lbs X
3. Wing plow warning light, Whelen TIR3 Super LED, WPLOW1A
 - a. Shall be wired to the truck rear amber warning light switch X
 - b. Wiring on the wing shall be routed through conduit or in an acceptable manner to protect wire from being damaged, if the wiring can be routed through existing moldboard supports, it shall be secured in an acceptable manner using Waytek button head ties part no. 21087, or equal. Any holes that the wiring runs through must be Grommited X
 - c. Wing warning light shall have a weatherproof connection and be capable of being unplugged at the front wing post X
4. Reflective tape shall be placed on the top of the toe cylinder (Note: see picture for location) X
5. Manuals, as applicable
 - a. Two operator's manuals X
 - b. Two lubrication schedules X
 - c. Two parts books X
 - d. Two Technical Repair Manual X
6. Paint

Moldboard to be powder coated and painted orange. Mounting brackets, push tube, and other hardware to be powder coated and painted black X
7. Warranty

One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period X

one year warranty

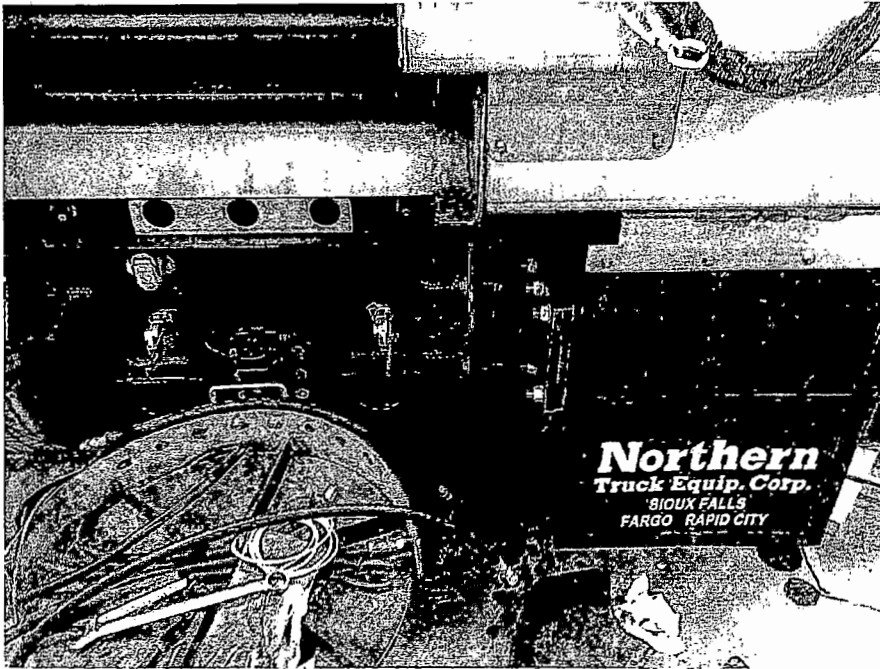
The snow wing shall be delivered mounted on the truck and ready for immediate use. The snow wing shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: BTE-Falls/Mouroe MODEL: Fall-Mouroe-SPL-10A
 PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Eq. TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
 3804 Hwy 75 N
 Moorhead, Mn 56580

BIDDER: _____

These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



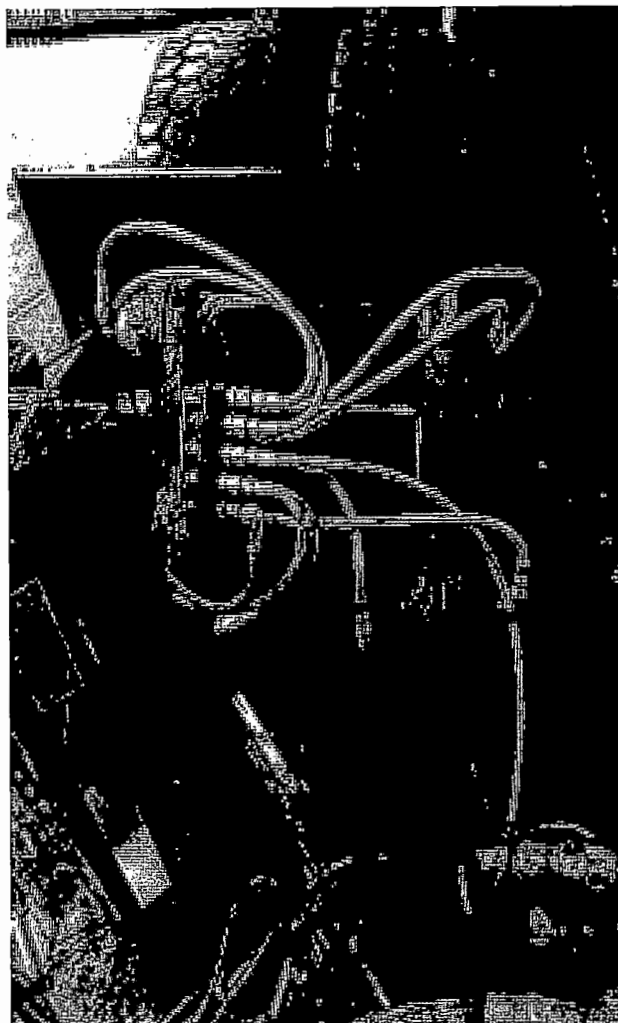
Example of rear wing brace tube and disconnect flange



Example of reflective tape on wing toe cylinder

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____



Example of grease bank and hose for toe lift.

Bert's Truck Equip. of Mhd
3304 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

**Confidential
Technical Drawings**

Because the following drawings are the manufacture's Technical drawings that relate to specific Specifications set forth by the North Dakota Department of Transportation, Bert's Truck Equipment request that the State deem the following drawings **CONFIDENTIAL**

Sincerely

Jim McLaughlin

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

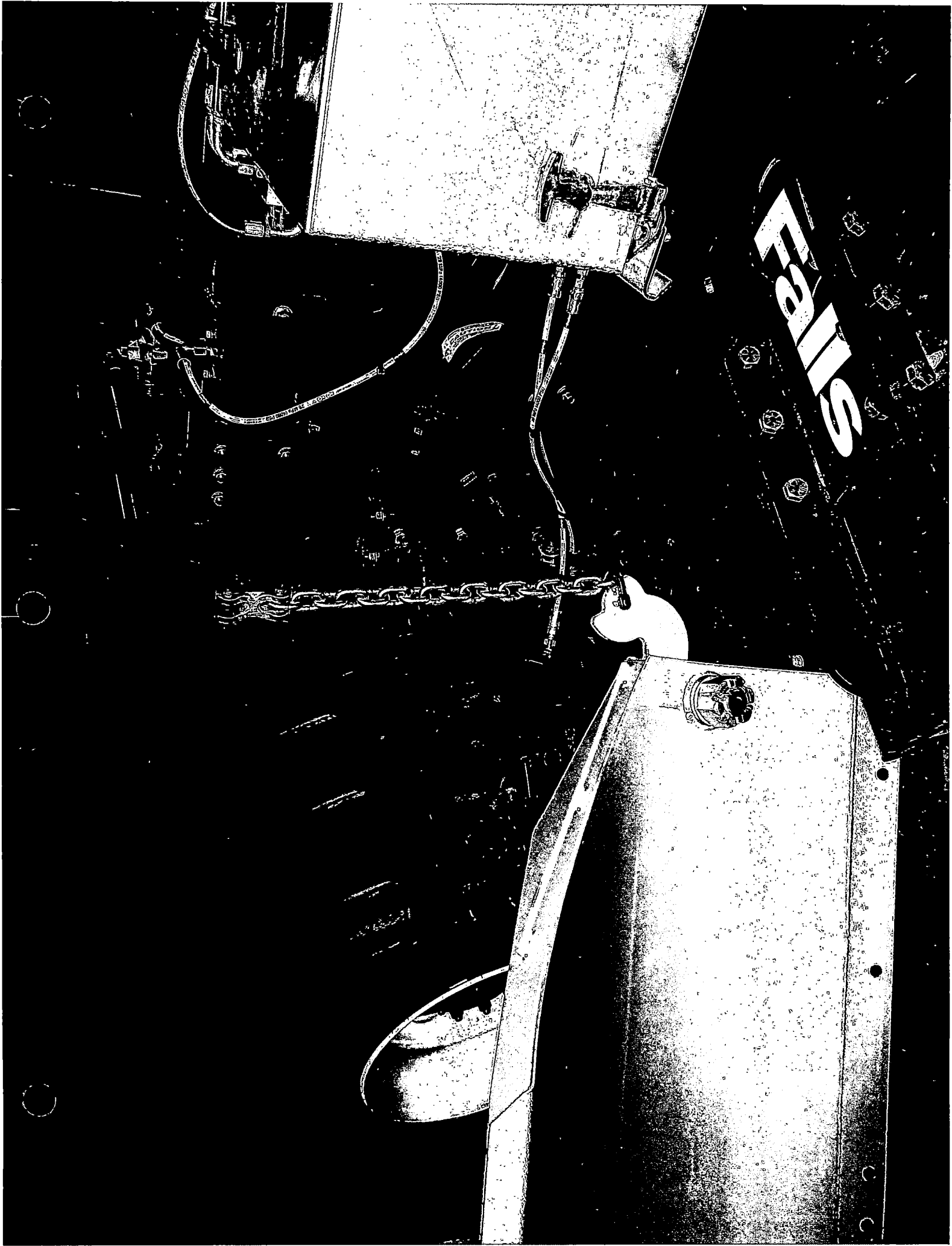
FAX (218) 233 9548

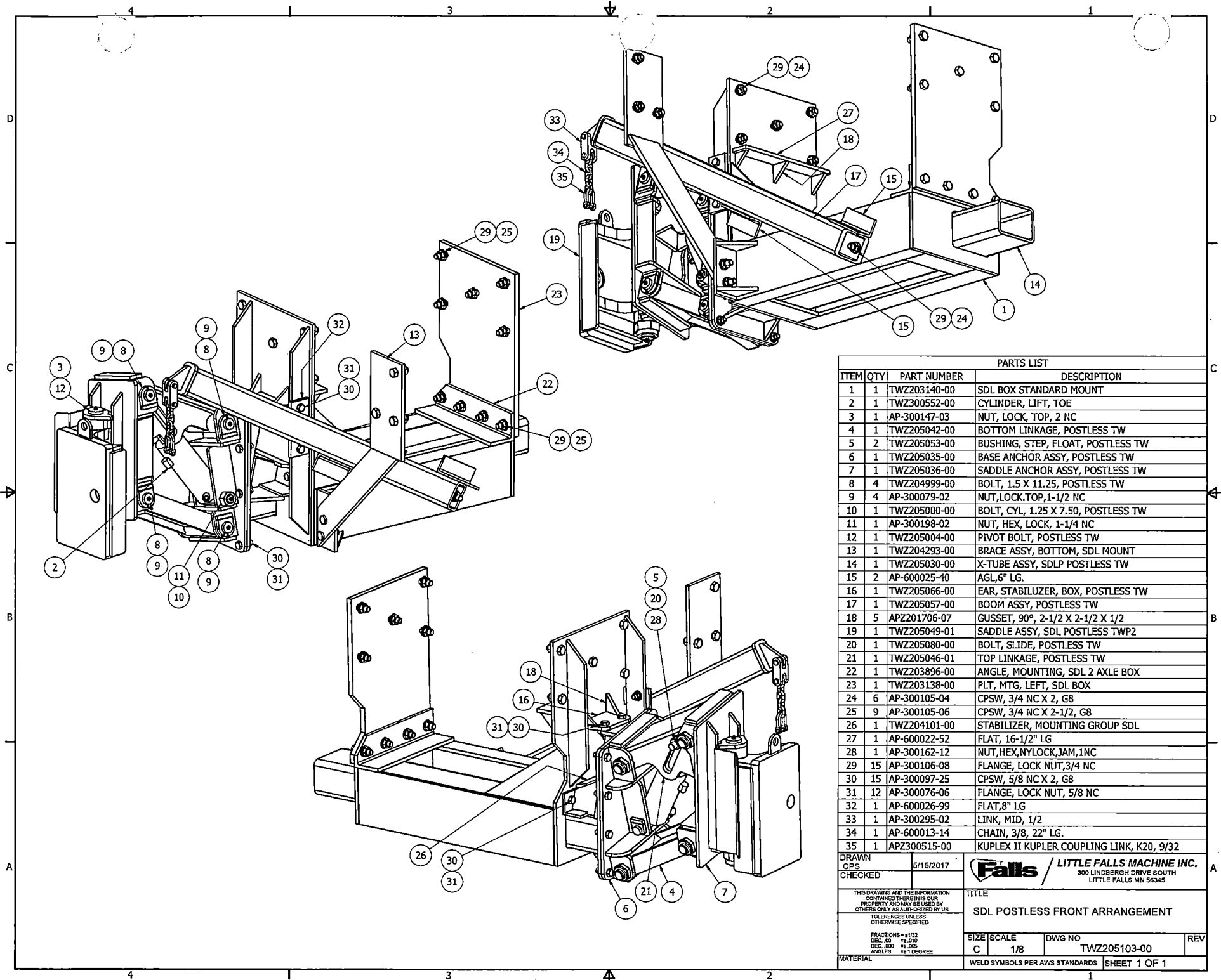
1-800-232-3787

3804 HWY 75 NORTH

MOORHEAD, MN 56560

jimmc@bertsonline.com





PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TWZ203140-00	SDL BOX STANDARD MOUNT
2	1	TWZ300552-00	CYLINDER, LIFT, TOE
3	1	AP-300147-03	NUT, LOCK, TOP, 2 NC
4	1	TWZ205042-00	BOTTOM LINKAGE, POSTLESS TW
5	2	TWZ205053-00	BUSHING, STEP, FLOAT, POSTLESS TW
6	1	TWZ205035-00	BASE ANCHOR ASSY, POSTLESS TW
7	1	TWZ205036-00	SADDLE ANCHOR ASSY, POSTLESS TW
8	4	TWZ204999-00	BOLT, 1.5 X 11.25, POSTLESS TW
9	4	AP-300079-02	NUT, LOCK, TOP, 1-1/2 NC
10	1	TWZ205000-00	BOLT, CYL, 1.25 X 7.50, POSTLESS TW
11	1	AP-300198-02	NUT, HEX, LOCK, 1-1/4 NC
12	1	TWZ205004-00	PIVOT BOLT, POSTLESS TW
13	1	TWZ204293-00	BRACE ASSY, BOTTOM, SDL MOUNT
14	1	TWZ205030-00	X-TUBE ASSY, SDLP POSTLESS TW
15	2	AP-600025-40	AGL, 6" LG.
16	1	TWZ205066-00	EAR, STABILIZER, BOX, POSTLESS TW
17	1	TWZ205057-00	BOOM ASSY, POSTLESS TW
18	5	APZ201706-07	GUSSET, 90°, 2-1/2 X 2-1/2 X 1/2
19	1	TWZ205049-01	SADDLE ASSY, SDL POSTLESS TWP2
20	1	TWZ205080-00	BOLT, SLIDE, POSTLESS TW
21	1	TWZ205046-01	TOP LINKAGE, POSTLESS TW
22	1	TWZ203896-00	ANGLE, MOUNTING, SDL 2 AXLE BOX
23	1	TWZ203138-00	PLT, MTG, LEFT, SDL BOX
24	6	AP-300105-04	CPSW, 3/4 NC X 2, G8
25	9	AP-300105-06	CPSW, 3/4 NC X 2-1/2, G8
26	1	TWZ204101-00	STABILIZER, MOUNTING GROUP SDL
27	1	AP-600022-52	FLAT, 16-1/2" LG
28	1	AP-300162-12	NUT, HEX, NYLOCK, JAM, 1NC
29	15	AP-300106-08	FLANGE, LOCK NUT, 3/4 NC
30	15	AP-300097-25	CPSW, 5/8 NC X 2, G8
31	12	AP-300076-06	FLANGE, LOCK NUT, 5/8 NC
32	1	AP-600026-99	FLAT, 8" LG
33	1	AP-300295-02	LINK, MID, 1/2
34	1	AP-600013-14	CHAIN, 3/8, 22" LG.
35	1	APZ300515-00	KUPLEX II KUPLER COUPLING LINK, K20, 9/32
DRAWN CPS 5/15/2017			
CHECKED			
THIS DRAWING AND THE INFORMATION CONTAINED THEREIN IS OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY US. TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONS = 1/32 DEC. 00 = 0.010 DEC. 000 = 0.005 ANGLES = ± 1 DEGREE			
MATERIAL			
WELD SYMBOLS PER AWS STANDARDS			
SHEET 1 OF 1			

Falls / LITTLE FALLS MACHINE INC.
300 LINDBERGH DRIVE SOUTH
LITTLE FALLS MN 56345

TITLE
SDL POSTLESS FRONT ARRANGEMENT

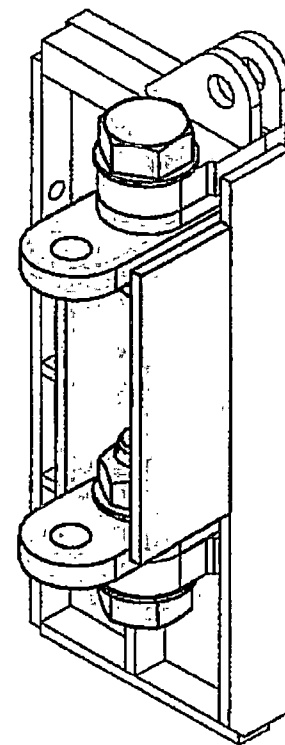
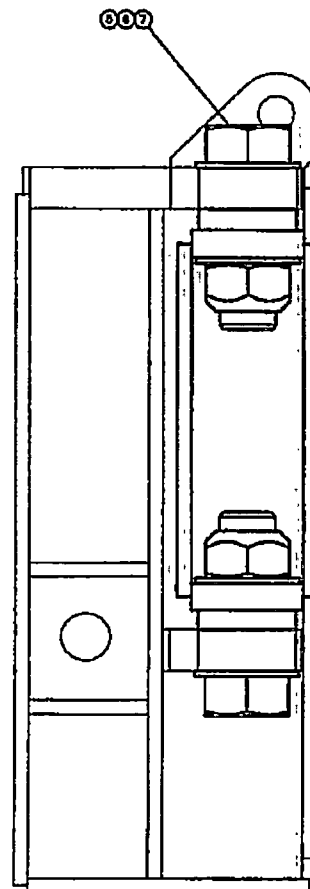
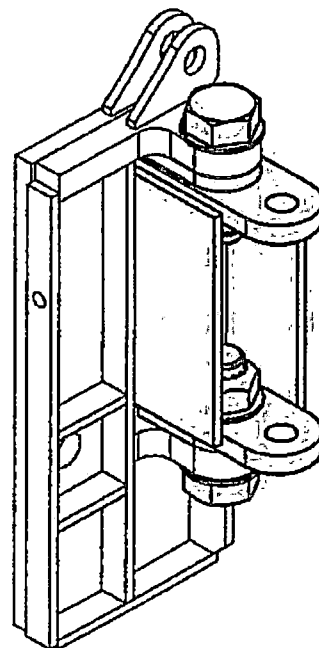
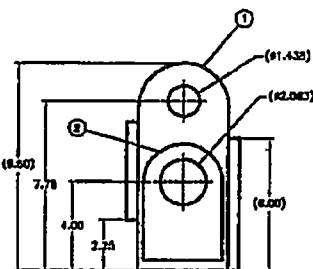
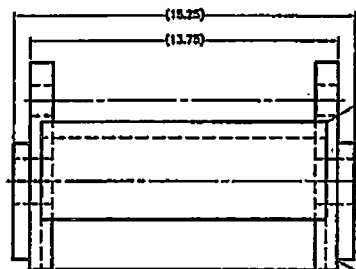
SIZE SCALE DWG NO REV
C 1/8 TWZ205103-00

(WILL NEED PIN / ^{IS} WITH POST)

(min-PARA 00135810)



ALL PARTS SHIPPED LOOSE, WELDED AT TIME OF INSTALL.
THESE PARTS SHIP UNPAINTED.

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Kit #

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR
SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL
DIRECT DRIVE, SINGLE AUGER, SINGLE SPINNER
(MONROE MS9, SWENSON SB9, HENDERSON TGS9-ND, OR PRE-APPROVED EQUAL)**

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a #304 stainless steel tailgate spreader to be furnished and installed. The tailgate spreader shall mount on the rear of a truck dump box below the regular tailgate in a manner to allow use of the dump body with the spreader attached. The tailgate spreader shall be standard production of the latest model with standard accessories and in addition meet **or exceed** the following minimum specifications:

Installation: The tailgate spreader shall be installed according to the manufacturer's instruction and to the acceptance/approval of the NDDOT, Maintenance & Engineering Office. The hydraulic hoses shall be routed under the tailgate area and down along the spinner hanger bracket and secured allowing full operation of the cover plate, clean out door, and spinner without needing to disconnect hoses. All hydraulic hoses shall be quick coupled, including the return lines. The spinner hoses shall be run independent of the auger hoses up to the truck to allow for easy removal. The spinner return must be quick coupled using a 1/2" coupler. The auger return must be quick coupled using a 3/4" coupler. All hardware mounted to the spreader shall be stainless steel or other non-corrosive material and approved by the NDDOT. The spreader shall be calibrated to apply 0 - 3,000 pounds/mile by use of the in cab ground speed spreader control. Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

	COMPLY YES	NO	SPECIFICATION DEVIATIONS
1. Auger			
a. Single auger	X		
b. 9" diameter	X		
c. 1 1/2" shaft	X		
d. 3/8" flight thickness	X		
e. Greaseable, sealed, self-aligning bearings	X		
i. Four bolt flange	X		
f. Direct drive	X		
i. Low speed, high torque hydraulic motor directly coupled to auger	X		
ii. Non-corrosive bushing for auger attachment	X		

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Min 56560

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SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

SSP-95-2400-

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COMPLY
YES NOSPECIFICATION
DEVIATIONS

- iii. Integral feedback sensor/speed sensor capable of 100 pulses per revolution. The sensor shall be mounted internally in the motor housing and have a rigid 4-pin connector mounted externally on the housing. This sensor shall be compatible with the DOT closed loop system Force America 6100 controller

X

2. Spreader Trough

- a. 7 gauge #304 stainless steel body
- b. 7 gauge #304 stainless steel cover plate
- c. 1/4" #304 stainless steel end plates
- d. Full-width, hinged-bottom, clean-out panel
- e. Lock--unlock latches without use of tools
- f. Easy remove anti-flow shields
- g. Hopper to accommodate 84" inside box width
- h. Overall length 102" maximum

X

X

X

X

X

X

X

X

- i. Side shields shall be 1/4" stainless steel. The side shields shall serve both as a material spill shield as well as a tailgate prop. The side shield shall be attached and removed without the need for tools or special equipment. The top pin shall be welded to the truck box and the shield shall slide onto the pin and be clipped on. Provisions must be made to keep the side shields rigid to the tailgate without movement. The side shield design shall be approved by the NDDOT. See photo for example.

X

3. Spinner Assembly

- a. All metal components shall be #304 stainless steel, **NO EXCEPTIONS**
- b. Mounted independent of clean-out panel
- c. Mounted on opposite side of wing
- d. 18" spinner
- i. Molded one-piece polyurethane as manufactured by C.U.E. #P0652, Thombert #1001357, or approved equal
- ii. Bolt on hub
- iii. 1/2" thick disc

X

X

X

X

X

X

X

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SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

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		COMPLY		SPECIFICATION DEVIATIONS
		YES	NO	
iv.	1" high vanes	X		
v.	Direct mount to motor	X		
e.	Motor mounted under spinner	X		
f.	Adjustable spread patterns--right, left, and center--one, two, or three lanes	X		
g.	Self-leveling	X		
h.	10 gauge #304 stainless steel guards and deflectors	X		
i.	Spinner shield to keep material off truck undercarriage	X		
j.	Removable assembly	X		
4.	Hydraulic components	X		
a.	All hydraulic hoses, connections, and quick couplers, 1/2" pressure and 3/4" return line for auger and all 1/2" for spinner	X		
i.	Hydraulic hoses routed as stated above in the installation instructions	X		
ii.	All hydraulic hoses shall have a tethered cap or plug to prevent any contamination	X		
iii.	Quick coupled to truck hydraulics	X		
iv.	Spinner pressure and return hydraulic hose must be independently routed and attached to the truck box to allow for easy removal of spinner (location of couplers to be approved on first truck)	X		
b.	Low speed, high torque hydraulic auger motor	X		
c.	Low speed, high torque hydraulic spinner motor	X		
5.	Mounting	X		
a.	Quick disconnect mounting pins. Pins must be supported on inside of body corner and welded on exterior to prevent from pulling off body	X		
b.	Mounting hardware, shall be non-corrosive or stainless steel	X		
c.	Convenient chain lifting slots	X		
6.	Manuals, as applicable			
a.	Two operator's manuals	X		

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SAND AND CHEMICAL TAILGATE SPREADER, #304 STAINLESS STEEL

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	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
b. Two lubrication schedules	<u>X</u>		
c. Two parts books	<u>X</u>		
d. Two Technical Repair Manual	<u>X</u>		
7. Standards			
Unit shall meet OSHA standards	<u>X</u>		
8. Warranty			
One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<u>X</u>		

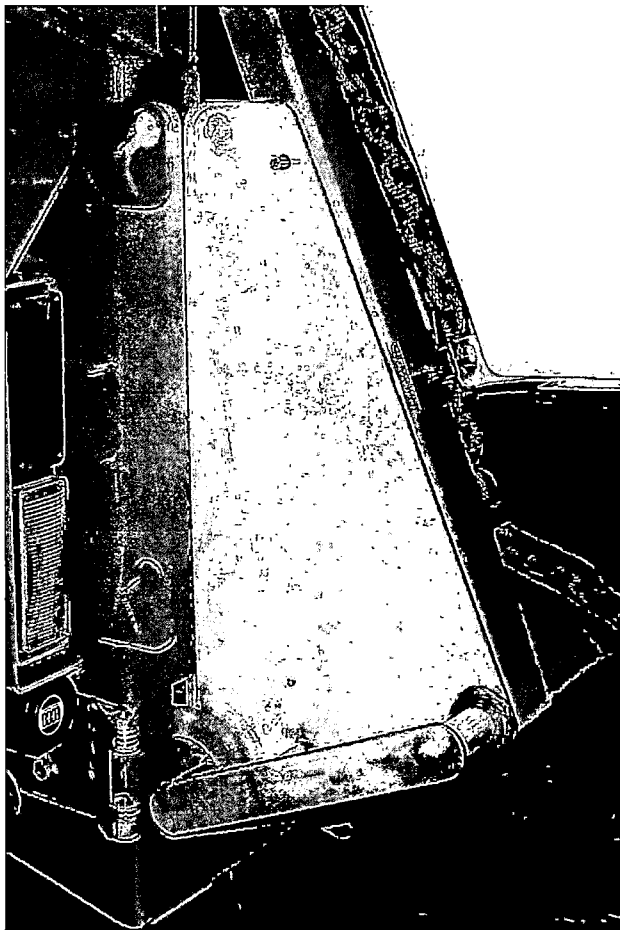
The tailgate spreader shall be delivered mounted on a truck dump box. The tailgate spreader shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Swenson MODEL: SB0-9-304SS

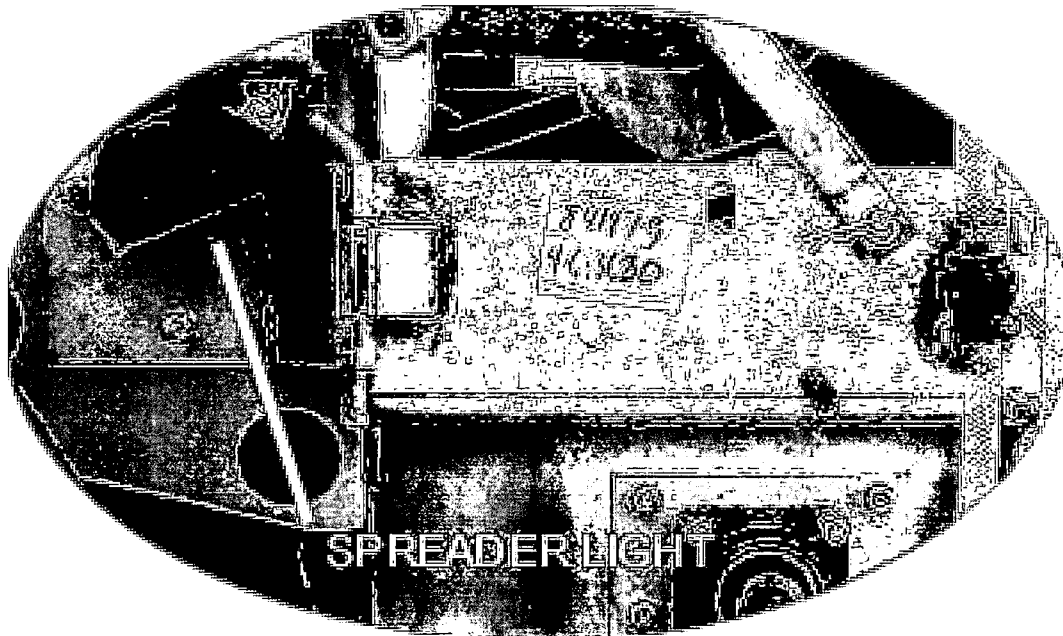
PARTS/SERVICE DEALER/WARRANTY: Bert's Truck Eq. TELEPHONE: 800-232-3787

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____



These are sample images for informational purposes only, actual products are to be approved by the NDDOT, Maintenance & Engineering Division



NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR

LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW
(FORCE VB-150-GF-PFD, MONROE VERSA-COAT, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a gravity flow liquid pre-wet system for the application of de-icing solution directly onto the material being spread by the spreader. The pre-wet system shall be compatible with a variety of de-icing solutions including sodium chloride, calcium chloride, magnesium chloride, potassium acetate, CMA, and Ice Ban. The pre-wet system shall be capable of being mounted on a single axle or tandem axle truck. The tanks shall fit over a rigid body mounted fender. The fender shall have no raised edges to trap material and openings in the front and rear inboard corners to allow accumulated material to escape. The tanks may rest on skids that hold the tanks 1" above the fender to clean around the tank and fender, or rest directly on top of rubber mat on top of fender. Either option shall provide space on all sides, except bottom, of tank to allow debris to fall or be washed away. The pre-wet system shall come complete with all the hardware that is required to apply liquid de-icing solution to granular material at the spreader spinner. The pre-wet system shall be standard production of the latest model with standard accessories and in addition meet the following minimum specifications:

Installation: The pre-wet system shall be installed according to the manufacturer's instruction and to the acceptance/approval of the NDDOT. A 1" schedule 80 stainless steel threaded pipe nipple or equal non-corrosive fitting shall be properly attached to the spreader spinner assembly. A 1" poly 90° elbow shall be threaded into the pipe nipple. A 1" Banjo quick coupler with cover caps shall be plumbed in line to quick disconnect the poly braid hose from the spreader spinner assembly. The tanks shall be positioned for easy access to the fill ports.

The system shall be calibrated to apply 3 gallons per minute by means of in-line ball valve with ½" supply hose with filled tanks for head pressure. All electrical and plumbing connections shall be secured so they will not fail with heavy snow and ice build up on them. There shall be an additional ball valve installed between the two tanks so that they can be filled equally. This ball valve shall be installed on the fill side of the truck between the fill port and tank. See photo. **The vendor must use flanged fittings with SS clamps wherever possible for all plumbing rather than threaded fittings.** Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

		COMPLY YES	NO	SPECIFICATION DEVIATIONS
1.	Liquid Reservoir			
a.	2 - polyethylene rotationally molded or equal tanks, one for each side of the spreader body	X		
b.	Tank capacity drivers side – 200 gallon minimum, or similar approved size	X		270 gallon
c.	Tank capacity passenger (wing) side – 200 gallon minimum or similar approved size	X		270 gallon
d.	Trapezoidal, triangular type shape that fills the void created by the bottom of the spreader body	X		
e.	UV stabilized	X		
f.	⅜" wall thickness or design liquid rating of 14.5 lbs per gallon	X		

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	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
g. Anti-slosh baffle built into top of tank at the opening(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. fill port with spin on lids and rubber gaskets, or threaded steel cap	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Spin on lids, if applicable , shall be tethered to prevent being separated from tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j. 1¼" minimum , bottom quick fill port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k. 1" suction port (Note: if the 1¼" port is used for discharge, the port must be necked down to 1")	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l. 1" vent at top of tank, or largest available from manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Tank Vent and lid to be located on forward of LH and RH tanks to prevent spillage when body is raised	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Hardware			
a. All parts in contact with the de-icing solution shall be of non corrosive material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Three #304 stainless steel mounting brackets per tank without a cradle that are lined with rubber or equal belting material to prevent tank wear due to vibration (preferred) OR two 3" and 15,000 lb web breakage rating UV stabilized nylon straps per tank secured to the fender with 1,000 lb rated and 3,000 lb breakage triangle eye with bolted connections and lock nuts to the fender. #304 stainless steel skids may be mounted under tanks to insure the tanks are mounted 1" above the fixed stainless steel fender with no raised edges. Tanks may rest on full coverage rubber mat and lye directly on fender as long as there are no raised areas to collect water and debris and space exists between body side and tank sides to prevent wear on tanks and allow debris to be flushed away clean all around tank.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. The tanks shall not stick out beyond the side of the steel fender. The fender shall be sturdy enough to serve as a bump rail from small impacts from a loader tractor or pay loader.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Tanks shall be plumbed to fill and dispense together	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. 1½" plumbing and 2" male cam lock fitting with female cover cap for quick bottom fill plumbed opposite side of the wing. Adequate reinforcement shall be made to support the fill side plumbing from falling when connected to the supply line. Stainless steel or other non-corrosive hardware shall be used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Glass reinforced polyethylene fittings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Clear 1" polyester braid reinforced plastic discharge hose for cold weather use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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	COMPLY YES	NO	SPECIFICATION DEVIATIONS
h. Remote control electric ball valve, 1" full port flanged fittings with ss clamps	X		
i. Spray Systems Co. model 344BEC-24-C (NO EXCEPTIONS)	X		
ii. 1" flanged connections w/ss clamps	X		
iii. Single pole double throw switch (3 wire)	X		
iv. Wetted parts of nylon, teflon, polypropylene, or viton	X		
v. Tank low level sensor	X		
vi. Cab control switch and indicator light provided in spreader control or switch bank	X		
i. 3-1½" standard ball valve with flanged fittings	X		
i. Polypropylene	X		
j. 1" standard ball valve with flanged fittings	X		
i. Polypropylene	X		
k. 1" schedule 80 mild steel threaded pipe nipple or equal non-corrosive fitting	X		
l. 1" poly 90° elbow	X		
m. 1" Banjo or equal quick coupler with cover caps	X		
3. Manuals, as applicable			
a. Two operator's manuals	X		
b. Two parts books	X		
4. Warranty			
One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	X		

The pre-wet system shall be delivered mounted onto the truck chassis rear fenders. The pre-wet system shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Bonuell MODEL: 540-NDDOT

Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

LIQUID PRE-WET SYSTEM, RADIUS DUMP FENDER MOUNT, GRAVITY FLOW

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PARTS/SERVICE/WARRANTY DEALER: Bert's Truck Eq TELEPHONE: 800-232-3787

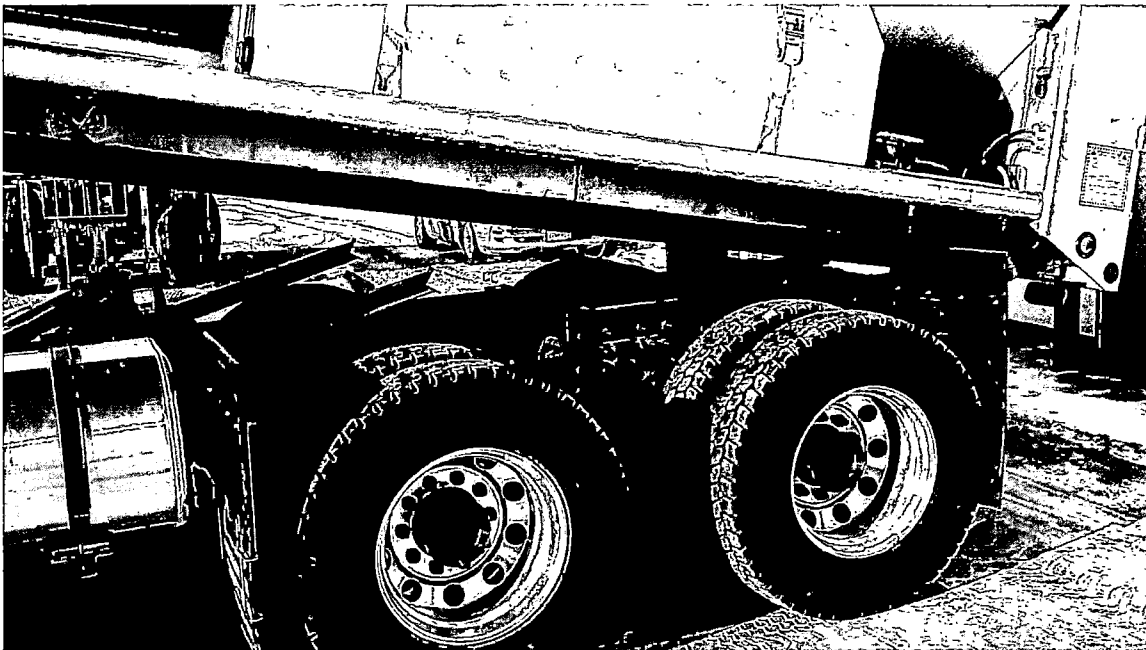
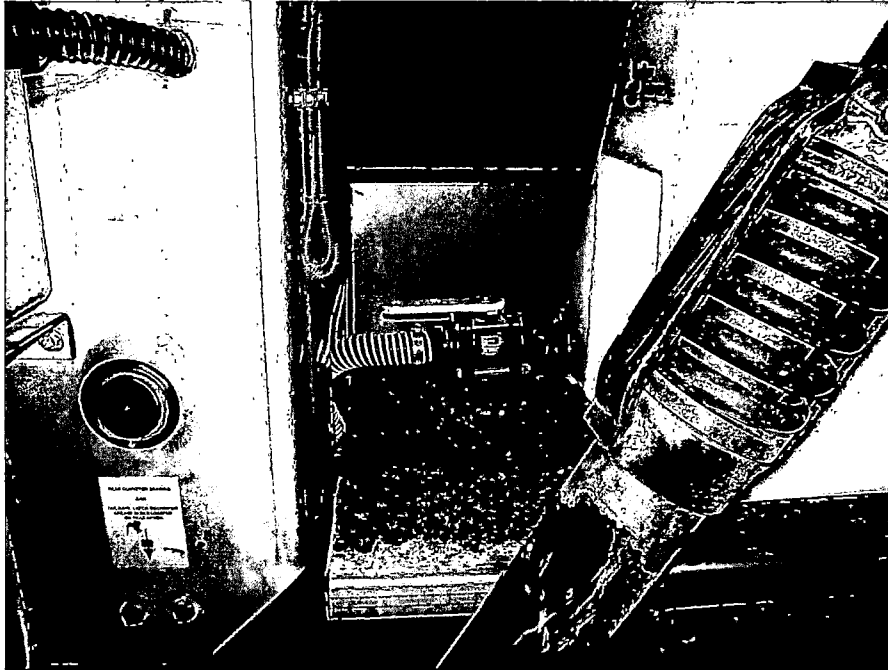
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BIDDER: _____

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Bert's Truck Equip. of Mhd
3804 Hwy 75 N
Moorhead, Mn 56560

BIDDER: _____

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS
FOR

LIQUID PRE-WET SYSTEM, TAILGATE MOUNT, GRAVITY FLOW
(FORCE TG-150-EGF, MONROE TAILGATE, SWENSON LSSF-T, OR PRE-APPROVED EQUAL)

Bidder's Instructions: Indicate compliance to the specifications on the "COMPLY YES/NO" line by each specification. Indicate any deviations from the specifications whether the minimum specifications are met or not on the "SPECIFICATION DEVIATIONS" line. Failure to comply with bid specifications may result in rejection of the bid. The state reserves the right to waive minor deficiencies or technical variances.

The intent of this specification is to describe a gravity flow liquid pre-wet system to be furnished and installed for the application of de-icing solution directly onto the material being spread by the tailgate spreader. The pre-wet system shall be compatible with a variety of de-icing solutions including sodium chloride, calcium chloride, magnesium chloride, potassium acetate, CMA, and Ice Ban. The liquid reservoir tank shall be mounted on the tailgate of a tandem axle truck dump box and be sized as specified. The pre-wet system shall come complete with all the hardware that is required to apply liquid de-icing solution to granular material at the spreader trough at the discharge side. The pre-wet system shall be standard production of the latest model with standard accessories and in addition meet or exceed the following minimum specifications:

Installation: The pre-wet system shall be installed according to the manufacturer's instruction and to the acceptance of the NDDOT. The hose dispensing the liquid shall be routed not to interfere with the spreader operation and supported to maintain liquid application to the spreader trough at the discharge side. A ¾" stainless steel threaded pipe nipple or equal non corrosive fitting shall be properly attached to the spreader discharge end side plate. A ¾" poly 90° elbow shall be threaded into the pipe nipple. A ¾" Banjo quick coupler with cover caps shall be plumbed in line to quick disconnect the poly braid hose from the spreader. The tank shall be mounted to overhang the truck tailgate and positioned for easy access to the fill ports. The tank shall be mounted as low as possible on the tailgate and high enough not to interfere with the operation of the spreader cover plate. The mounting structure shall be a rigid connection to the tailgate, fixed not to fall off, and extend a minimum of 70" wide across the back of the tailgate to distribute the load along the entire tailgate. The tank's mounting structure shall not require the use of tools to remove from the tailgate. The bottom of the mounting structure shall be fastened by a pin type clip and not bolted into the tailgate. The tailgate shall be reinforced where the mounting structure meets the tailgate. The mounting of the tailgate prewet mounting structure shall be approved by the NDDOT, Maintenance and Engineering Office. The system shall be calibrated to apply 3 gallons per minute with a ½ discharge hose with filled tank for head pressure. All electrical and plumbing connections shall be secured so they will not fail with heavy snow and ice build up on them. The wiring for the electric ball valve shall be long enough to extend to the side of the truck box for connection to the power lead. The switch and wiring must allow for the ball valve to be activated by both the individual brine switch and also through the sander standby button on the Force 5100 controller. **The vendor must use flanged fittings with SS clamps wherever possible for all plumbing rather than threaded fittings.** Any questions and weekly updates should be referred to NDDOT, Maintenance and Engineering Services Division, Shawn Hauck phone: (701)328-2565.

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
1. Liquid Reservoir			
a. Polyethylene rotationally molded or fiberglass tank	X		
b. Trapezoidal, rectangular, or "D" shaped (oval or cylindrical is not acceptable)	X		
c. Tank capacity - minimum 135 gallon, maximum 150 gallon	X		150 Gallon
d. UV stabilized	X		
e. 3/8" wall thickness or design liquid rating of 14.5 lbs per gallon	X		

	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
f. Rectangular or "D" shaped tanks shall be horizontal mount	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Anti-slosh baffle built into top of tank at the opening(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. 3" fill port with spin on lid and rubber gaskets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Spin on lids shall be tethered to prevent being separated from tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j. 1½" bottom quick fill port located on both sides of the tank for right or left side fill, ports should be molded into the tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k. 1" suction port located on both sides of the tank for right or left side discharge (Note: if the 1½" port is used for discharge, the port must be necked down to 1")	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l. 1" vent at top of tank, or largest available from manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m. Maximum 84" wide	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Hardware			
a. All parts in contact with the de-icing solution shall be of non corrosive material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. #304 stainless steel cradle to support the full weight of the tank with two #304 stainless steel mounting brackets without a cradle that are lined with rubber or equal belting material to prevent tank wear due to vibration (preferred) OR two 3" and 15,000 lb web breakage rating UV stabilized nylon straps secured to the cradle with 1,000 lb rated and 3,000 lb breakage triangle eye bolted connections with lock nuts to the cradle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. 1½" plumbing and 2" male cam lock fitting with female cover cap for quick bottom fill with flanged fittings and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Glass reinforced polypropylene fittings with flanged fittings and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Clear 1" polyester braid reinforced plastic discharge hose for cold weather use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Remote control electric ball valve, 1" full port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i. Spray Systems Co. model 344BEC-24-C (NO EXCEPTIONS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ii. 1" flanged connections and ss clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iii. Single pole double throw switch (3 wire)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
iv. Wetted parts of nylon, teflon, polypropylene, or viton	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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LIQUID PRE-WET SYSTEM, TAILGATE MOUNT, 150 GAL, GRAVITY FLOW

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	COMPLY		SPECIFICATION DEVIATIONS
	YES	NO	
v. Tank low level sensor	<input checked="" type="checkbox"/>		
vi. Cab control switch and indicator light provided in spreader control or switch bank	<input checked="" type="checkbox"/>		
vii. Wiring from control valve shall be long enough to reach the side of the truck box for connection	<input checked="" type="checkbox"/>		
g. 1½" standard ball valve with flanged fittings	<input checked="" type="checkbox"/>		
i. Polypropylene	<input checked="" type="checkbox"/>		
h. 1" standard ball valve with flanged fittings	<input checked="" type="checkbox"/>		
i. Polypropylene	<input checked="" type="checkbox"/>		
i. 1" stainless steel threaded pipe nipple or equal non corrosive fitting	<input checked="" type="checkbox"/>		
j. 1" poly 90° elbow	<input checked="" type="checkbox"/>		
k. 1" Banjo or equal quick coupler with cover caps	<input checked="" type="checkbox"/>		
3. Manuals, as applicable			
a. Two operator's manuals	<input checked="" type="checkbox"/>		
b. Two parts books	<input checked="" type="checkbox"/>		
4. Warranty			
One-year full unconditional warranty, manufacturer's warranty shall apply if for a longer period	<input checked="" type="checkbox"/>		

The pre-wet system shall be delivered mounted onto the truck tailgate. The pre-wet system shall be delivered free of any defects due to shipping or workmanship. Any defects identified shall be remedied immediately at no additional cost to the NDDOT. Product literature shall be submitted with the bid.

MAKE: Varitech MODEL: LDS-TG150-EGF-ND
 PARTS/SERVICE/WARRANTY DEALER: Bert's Truck Eq. TELEPHONE: 800-232-3787

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 3804 Hwy 75 N
 Moorhead, Mn 56560

BIDDER: _____



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

Past Experience and Future Guarantee

Bert's Truck Equipment has unprecedented experience and knowledge when it comes to building "turnkey" plow trucks. In just the last 19 years we have built over 500 plow trucks for municipalities, counties and state agencies, including over 150 units over the last seventeen years for the North Dakota Department of Transportation.



Our past history with the Department of Transportation speaks for itself. In the past, we have consistently produced quality units of all types and delivered them on time. Additionally, we have a deep commitment to customer satisfaction ensuring the products installed meet the specifications and perform as expected.

Our highly experienced technicians know the importance of performing high quality installations and delivering trucks ready to work. We take pride in our products and more importantly pride in our workmanship and customer service.

As our past projects proved, we have always taken the necessary steps and procedures to ensure that the final products that are delivered meet not only the ND DOT standards but also our standards. Our quality is exemplified time and time again in our workmanship and it shows in the final products we deliver.

Bert's Truck Equipment has assembled a team of professionals who take great pride in their work and have the best possible knowledge in the industry when it comes to building plow trucks. It is what they do, and they do it to the highest standard each and every time.

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

Bert's Truck Equipment realizes that besides selling quality products, excellent product support and parts availability is crucial to our customers.

On average we stock over one million dollars of parts inventory and supplies. Because of our close proximity to our major suppliers, we are able to supply non-stocked parts in a timely manner, usually in one to two business days. Parts such as hydraulic cylinders, conveyor chains, spinner assemblies and other items that may be needed on short notice will also be supplied in a timely manner, usually in one to five business days.

In addition and specifically for the ND DOT, we will constantly review and work with the ND DOT to make sure the parts you need are available in a timely manner. By doing this, almost any parts needed would be available in one to two days and in many cases the same day.

In addition we realize that excellent communication is important. We will make routine visits to the ND DOT facilities in Fargo and Bismarck, and a minimum of one visit a year to each of the other districts. Also, the representatives from the manufactures represented in this proposal will periodically make visits to ensure any issues that may occur are handled in a timely manner.

Parts and Service Locations

Bert's Truck Equipment, Inc

3804 Hwy. 75 North
Moorhead, MN 56560
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax

Key Contacts:

Service Department:

Jeremy Gregoire, Vice President and
Operations Manager
Barry Berg, Shop Foreman and Body Shop
Manager
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: jeremy@bertsonline.com

Parts Department

Dan Bentley, Parts Manager and Purchasing
Coordinator
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: danb@bertsonline.com

Sales Department

Jim McLaughlin, Commercial, Fleet and
Government, Sales
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
701-361-1847 (Jim's Mobile Number)
Email: jimmc@bertsonline.com

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681

FAX (218) 233 9548

1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com



TRUCK EQUIPMENT

"Celebrating 78 years 1939-2017"

The Bert's Truck Equipment Team!

Jeremy Gregoire



President and Operations Manager: 23 years truck equipment experience. Jeremy serves as President and Operations Manager for the past 13 years. His duties include overseeing daily operations and coordinating all contract projects.

Barry Berg



Shop Forman: 24 years body shop and general shop experience management and plow truck design and installation. Barry works hands on with his technicians and works closely with the end user to make sure that specifications and installations are correct and are the highest quality of products and installation.

Andy Anderson:



Installation Technician: 18 years truck equipment experience. Andy specializes in Pre-wet system installation as well as electrical and hydraulic installation and plumbing of snowplow truck equipment.

Pat Hiller:



Installation Technician: 11 years truck equipment experience. Pat specializes in custom steel, aluminum and stainless steel fabrications and equipment installation.

Jesse Stowers:



Painter and Installation Technician: 18 years truck equipment experience. Jesse specializes in paint preparation and finish painting. He also assists with wiring and final detail.

Dan Paquin:



Installation Technician: 26 years truck equipment experience. Dan specializes in custom fabrication, Hydraulics and equipment installation.

Jim McLaughlin



Commercial, Fleet and Government Sales: 27 years truck equipment sales experience. Jim handles commercial, fleet and government Sales for Bert's and works with our suppliers and manufactures to ensure the specifications are correct and prepares the necessary RFP's and bid documents.

Dan Bently:

Parts Department Manager/Purchasing: 22 years parts and Hydraulic components Sales experience. Dan orders all necessary parts and equipment and well as processes as well as coordinates all warranty requests.

Jim Owens

Regional Sales manager for Falls Plows

Doug Loyes:

Outside Sales Representative Force America: 30 years hydraulic systems sales and service experience related to snow and ice control: Doug has served as the territorial manager for Forces America for the past six years. Doug specializes in system design and onsite training. Doug also does on site problem analysis and trouble shooting.

Joe Bonnell

President of Bonnell Industries. Bonnell Ind. Inc is a Family owned business. 58 years in Service. Currently in third generation ownership. The current owner, Joe Bonnell purchased Bonnell Ind. Inc. in 2009. Bonnell Ind. is a manufacturer of snow and ice control equipment. Bonnell also does truck equipment installation. Bonnell believes the difference in being successful is listening to the customer and building products that help the customer find value in ownership. Bonnell takes pride in quality and customer service. The company mission statement says it all. "We are committed to manufacturing, distributing, installing and servicing the best and most innovative solutions for our customers in the truck and road equipment industry, constantly striving to improve industry standards and to exceed the customer's expectations." Bonnell Ind. Inc. believes taking the path of quality and integrity is not always the easiest path to take – however Bonnell has always found success in treating people right.

YOUR TRUCK EQUIPMENT HEADQUARTERS

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Warranty Parts & Service Locations

Warranty Parts and Service available at:

Bert's Truck Equipment, Inc

3804 Hwy. 75 North

Moorhead, MN 56560

218-233-8681

800-232-3787 (toll free)

218-233-9548 Fax

Key Contacts:

Service Department:

Jeremy Gregoire, President and Operations Manager

Barry Berg, Plow Shop Forman and Body Shop Manager

218-233-8681

800-232-3787 (toll free)

218-233-9548 Fax

Email: jeremy@bertsonline.com

Parts Department

Dan Bentley, Parts Manager and Purchasing Coordinator

218-233-8681

800-232-3787 (toll free)

218-233-9548 Fax

Email: danb@bertsonline.com

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Bonnell parts availability.

May 18th, 2015

Reference: State of North Dakota contract. (Bert's Truck Equipment)

Bonnell Ind. Inc. manufacture snow and ice control equipment here in Dixon Illinois. The Commander MCR-14 is a current production body. All the components used to manufacture this body – are current model design and in production. Many of the components used to manufacture the Commander Body – are available from several sources. As for Bonnell Performance - we stock parts here in Dixon Illinois and are capable of direct shipping parts where needed. Bonnell currently has over 2.8 million dollars of inventory. If notified before 2:00PM Bonnell can Next day ship stock parts – that same day.

Bonnell Service and Parts Dept.



TRUCK EQUIPMENT

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Warranty Policies Summaries'

Major Manufactures Warranty Policies Summaries (See manufacture Warranty statements for complete policies)

Bonnell Industries

Two year Limited warranty on Commander Series Bodies and Pre-wet systems

Mailhot Cylinders

Two year limited warranty on Mailhot Cylinders.

Falls Snow and Ice Control Products

Two year Limited Warranty on Plows, Plow wings, Scrapers, sanders, and hitch assemblies. This is an Additional One year Warranty for ND DOT Fleet!

Falls SDL-10-PL Post Wing will carry a three year limited warranty (see attached information)

Monroe Paraglide Wing Assembly, One year limited warranty

Hydraulic Components-Force America

One year Limited Warranty on Pump, Valve Assemblies, Reservoir, Controls, and miscellaneous components.

Whelen Light Systems

Two year limited Warranty on lighting components. Five year limited warranty on LED Light heads.

Swenson Manufacturing Warranty

One year limited warranty on spreaders

Bert's Truck Equipment Installation and Fabrication

One year limited warranty for fabricated parts and installation procedures performed by Bert's Truck Equipment on material defects or faulty installation

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TRUCK EQUIPMENT

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Warranty Procedures

All request for warranty repairs or replacement should be made through Bert's Truck Equipment. Warranty repairs made by a third party should be pre-approved by Bert's Truck equipment before repairs are performed and should include a written estimate. In Most cases, the "Manufactures Standard Warranty Policies" do not cover transportation cost related to the repair only the necessary parts and labor to correct the issue.

The State, at their discretion, may elect to perform necessary warranty repairs at their facilities. Warranty claims for such repairs should be pre-approved by Bert's Truck Equipment. Emergency repairs preformed by the State, which may fall under warranty related policies, will be handled the same as a pre-approved warranty claim. Unless prior approved, all reimbursement to the State will be done at "manufacture to distributor net warranty reimbursements rates.

Request for warranty repairs or replacement should be made to the following parties

Service Department:

Jeremy Gregoire, President and Operations Manager
Barry Berg, Shop Forman and Body Shop Manager
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: jeremy@bertsonline.com

Parts Department

Dan Bentley, Parts Manager and Purchasing Coordinator
218-233-8681
800-232-3787 (toll free)
218-233-9548 Fax
Email: danb@bertsonline.com

All warranty requests and repairs will be handled promptly to ensure least amount of down time for the state.

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(218) 233-8681
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1-800-232-3787

3804 HWY 75 NORTH
MOORHEAD, MN 56560

jimmc@bertsonline.com

Crysteel Manufacturing Incorporated

5 Year

Customer Satisfaction Pledge

Crysteel's Customer Satisfaction Pledge is designed to be the most comprehensive warranty in the truck equipment industry. This pledge covers new products for a period of five (5) years, and is not restricted by vehicle mileage or when product is invoiced to our distributors. Our warranty begins when our product is put into service by the final customer.

This warranty covers our products for defective material and/or workmanship at a rate of 100 % for the first (3) years and at a rate of 50 % for years 4 and 5. This warranty covers:

- Crysteel manufactured product
- OEM Products purchased by Crysteel as part of our product
- The repair of warranted product
- The replacement of warranted product
- Labor to replace warranted product
- Freight for replacement product
- Warranted product return freight (if required)

This warranty is limited to product supplied under the Crysteel Mfg. name and does not cover distributor modifications. Primer warranty is limited to adherence to metal surfaces only and does not include the inside or understructure of dump bodies. Crysteel will not assume responsibility for travel, loss of use, or downtime expenses. This warranty is void if the product has been obviously abused or subjected to other than normal usage.

Procedures For Warranted Product:

1. Identify the serial number for the dump body, hoist, and/or warranted component's package and establish the vehicle's in-service date (vehicle's invoice date).
2. Contact Crysteel Customer Contact personnel to receive an authorization (RA) to return warranted product.
3. The Customer Contact person will create an order to replace the warranted product and determine the labor credit amount. The part(s) will then be shipped "no charge".
4. The Customer Contact person will create and mail a separate RA letter for each product being returned. The RA letter will contain shipping instructions.
5. If required, the distributor will affix the provided shipping label on the part to be returned and ship immediately as instructed on RA letter.
6. In order to receive credit for labor, the distributor must fax a copy of the shipping bill of lading to Crysteel. Fax #: 507-726-2490
7. After 30 days, Crysteel will invoice the distributor for any unreturned parts.



WARRANTY

Issued: January 1, 1998

Bonnell Industries, Inc. warrants to the original purchaser that if any part of the product proves to be defective in workmanship or material within one year of the date of original installation and is returned to us freight prepaid within 30 days after such defect is discovered and notification thereof is provided Bonnell, we will either replace or repair the defective part (our option). This warranty does not apply to damage resulting from neglect, misuse, accident or improper installation or maintenance. Charges for field service, labor, or other expenses not previously authorized and approved in writing by Bonnell Industries, Inc. will not be accepted. This warranty is exclusive and in lieu of all other warranties whether expressed or implied. Bonnell Industries, Inc. neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with this warranty, and will not be liable for consequential damages. This warranty applies only to products made and/or supplied by Bonnell Industries, Inc. and does not apply to other products not made or supplied by us and to which our products may be attaches, such as trucks. We accept no responsibility for damages to such other products, even if our product is alleged to have contributed to the damage of the other product.

Hydraulic, electrical, or other components furnished by other manufacturers and used with our products are warranted by that manufacturer and not by Bonnell Industries, Inc. the manufacturer's own warranty will apply to these parts. Hydraulic or electrical components are not to be disassembled without the express written permission of Bonnell Industries, Inc.

All defective parts returned from an end user must include the unit model, serial number, date installed, and dealer from whom purchased.

Bonnell Industries, Inc. reserves the right to make changes or improvements to its products without incurring any liability or obligation and without being required to make corresponding changes or improvements to products manufactured or sold prior to those changes or improvements.

The Bonnell Industries, Inc. Warranty Policy is subject to change without notice.



High Performance Snow Equipment
Since 1939!

Little Falls Machine, Inc.

300 Lindbergh Drive South

Little Falls, MN 56345

Toll-Free: 1.800.772.7569

Fax: 1.320.632.3484

www.fallsplovs.com

5/9/17

Jim McLaughlin
Bert's Truck Equipment

Jim,

Little Falls Machine, Inc. will extend the warranty on our "Postless" front wing post from 1 year to 3 years for the state of ND 2017-18 build.

This extended warranty is for the front post assembly only and does not affect the rest of the equipment on the truck. All other Falls assemblies and products will be covered by our standard ¹/₂ year warranty.

If you have any questions, please let me know.

Thank you,

Chris Schulte



Product Warranty

FORCE America Inc. warrants to the original purchaser of its products that the products are free of defects in materials and workmanship, when operated under normal conditions and in accordance with accepted FORCE America and/or industry recommended practices. The standard warranty period is 12 months from the date the product is first put into service but not to exceed 18 months from the date of shipment. Products must be returned, freight prepaid, to the FORCE America Service Center from which it was shipped, for inspection. A Returned Goods Authorization (RGA) number must be obtained from that service center before shipment is made, and clearly indicated on the shipping package. Product must be received by FORCE America Inc. within 3 months of the claim as per the requirements of FORCE America's Returned Goods Policy, which is considered to be part of the warranty. FORCE America reserves the right to repair or replace any product found to be under warranty. This warranty policy does not provide for a refund or credit for defective material.

This warranty is null and void if in the judgment of FORCE America, the part had been used in the wrong application, damaged, improperly maintained or repaired, subjected to inappropriate environmental and operating conditions, repaired by a non-FORCE America party without prior authorization from FORCE America, not used in accordance with FORCE America operational and service recommendations, or repaired with other than FORCE America approved parts.

This warranty is in lieu of all other warranties, express or implied and may be varied only by a separate agreement signed by a duly authorized representative of FORCE America Inc. FORCE America makes no warranty of merchantability or fitness for a particular purpose. The foregoing states FORCE America's entire and exclusive liability and buyer's exclusive and sole remedy in connection with the sale of the parts hereunder. In no event shall FORCE America be liable for any special, incidental, or consequential damages whatsoever including loss of use or travel, labor or material costs to remove or reinstall the product. Under no circumstances will FORCE America's liabilities exceed the original repair cost for the products for which liability claimed.

For further information please consult factory.

"The Leading Innovator in Mobile Hydraulic Solutions"



TRUCK EQUIPMENT

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References

Hydraulics by Force America

Blaine Laaveg

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Randy Huot

Polk County Highway Dept
820 Old Hwy 75 S
Crookston, MN 56716
218-470-8267

Brian Friedrich

Clay County Highway Dept.
2951 41 1/2 Street South
Moorhead, MN 56560
218-299-5099

Herb McCormick

Hubbard County Highway Dept
101 Crocus Hill Street
Park Rapids, MN 56740
218-732-3302
218-252-6170 (Mobile)

Bonnell Manufacturing (Commander Body)

Steve Moore

City of Moorhead Public Works
700 15th Ave North
Moorhead, MN 56560
218-299-5421

Scott Duerre

Mountrail County Highway Dept
8103 61st Street SW
Stanley, ND 58784
701-639-2390

CITY OF DIXON

121 West Second Street
Dixon, IL 61021
Contact: Jeff Kuhn
Phone: 815-440-2364

BOONE COUNTY HIGHWAY DEPT

9759 Illinois Route #76
Belvidere, IL 61008
Contact: Scott Sell
Phone: 815-509-4723

ROAD DISTRICT OF GRAFTON TOWNSHIP

10109 Vine Street
Huntley, IL 60142
Contact: Tom Poznanski
Phone: 847-669-5070

MARENGO TOWNSHIP

4010 North Route #23

Marengo, IL 60152

Contact: Dave Schirmer

Phone: 815-568-8636

VILLAGE OF HUNTLEY

10987 Main Street

Huntley, IL 60142

Contact: Dan Ruggles

Phone: 847-669-3450

Crysteel Dump Bodies**Bob Ramstad**

Norman County Highway Dept

814 East Main

Ada, MN 56510

218-784-7126

Randy Huot

Polk County Highway Dept

820 Old Hwy 75 S

Crookston, MN 56716

218-470-8267

Herb McCormick

Hubbard County Highway Dept

101 Crocus Hill Street

Park Rapids, MN 56740

218-732-3302

218-252-6170 (Mobile)

Swenson Products**Charlie Charboneau**

MN DOT-Detroit Lakes

1000 Highway 10 West

Detroit Lakes, MN 56501

218-846-3654

Blaine Laaveg

Cass County Highway Dept

1201 Main Avenue West

West Fargo, ND 58078

701-298-2370

Allan Erickson

City of Fargo, Central Shop

402 23rd Street North

Fargo, ND 58102

701-241-1459

Falls Snow and Ice Control Equipment**Bob Ramstad**

Norman County Highway Dept

814 East Main

Ada, MN 56510

218-784-7126

Rich Sieg

Cass County Highway Dept

1201 Main Avenue West

West Fargo, ND 58078

701-298-2370

Clay County Highway Dept.
2951 41 ½ Street South
Moorhead, MN 56560
218-299-5099

Randy Huot

Polk County Highway Dept
820 Old Hwy 75 S
Crookston, MN 56716
218-470-8267

Pre-wet systems By Varitech Industries

Allan Erickson

City of Fargo, Central Shop
402 23rd Street North
Fargo, ND 58102
701-241-1459

Brian Friedrich

Cass County Highway Dept
1201 Main Avenue West
West Fargo, ND 58078
701-298-2370

Al Gavlouski

Beltrami County Highway Dept.
2493 Adam Ave NW
Bemidji, MN 56601
218-333-8173

Note: All Products and manufactures are currently being or have been used by ND Dot

YOUR TRUCK EQUIPMENT HEADQUARTERS

(218) 233-8681
FAX (218) 233 9548
1-800-232-3787

3804 HWY 75 NORTH
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jimmc@bertsonline.com

May 21st 2017

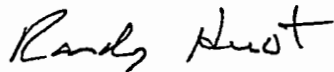
To whom it may concern:

We have been doing business with Bert's Truck Equipment of Moorhead for over 24 years. In that time they have up-fitted over 24 plow trucks for us as well as numerous other projects including, sign trucks, survey crew trucks, platforms, and dump bodies for cab and chassis's

We have always found that their staff to be professional and knowledgeable and that their workmanship, dedication to quality, and overall customer service to be outstanding.

We would highly recommend them for any project you may be considering them for.

Sincerely,



Randy Huot
Polk County Highway Department
218 470-8267



NORMAN COUNTY HIGHWAY DEPARTMENT

814 EAST MAIN STREET
ADA, MINNESOTA 56510-1318

OFFICE PHONE: (218) 784-7128
COUNTY GARAGE: (218) 784-4728
FAX: (218) 784-3430

May 23, 2017

To Whom It May Concern,

The Norman County Highway Department has been having Bert's Truck equipment of Moorhead, do the installs of their new Snow Plow Equipment for approximately the last seventeen years. Previously the Norman County Highway Department worked with Little Falls Machine in Little Falls, Mn. Falls Equipment did wonderful work, but the distance we had to take our equipment for the installs and or repairs took up a lot of time and required two people to drop off a truck and pick it up. When we decided to contract with Bert's, one of the main reasons was the close proximity to Norman County. When our trucks are having the equipment installed, it is very easy for myself or our shop foreman to drop in and look at how the install's are going, and if we see something we don't like, we can make changes before the unit is completed.

The staff at Bert's has been very helpful over the years. They are very knowledgeable about the equipment they are selling and do a wonderful job at explaining different types of equipment available and how it works in the field. When drawing up the specifications for the new equipment, we primarily work with Jim McLaughlin. He knows the equipment he is selling us and goes above and beyond the call of duty if we are having any trouble with our units shortly after we put them into service, and also years down the road. I am proud to say that Bert's Truck Equipment is in it for the long haul, and service to their customers is their number one priority.

In closing, I would like to say that the Norman County Highway Department has purchased a new Snow Plow Truck for 2017, and will be having Bert's Truck Equipment do all of the install's of the Snow Plow Equipment, Dump box, Lighting and Hydraulics. We are very satisfied with the work that Bert's has done for us in the past. The Equipment they sell and the installations they have done for us, is giving us years of service from our equipment.

Thank you for your time.

Sincerely,

Bob Ramstad
Maintenance Superintendent
Norman County Highway Department