



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 707EC021

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 JOHN JOHNSTON
 304-558-2402

VENDOR

*117134613 304-204-2435
 WV TRUCK & TRAILER CO INC
 #1 JAIN DRIVE
 CROSS LANES WV 25313

SHIP TO

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/11/2007				

BID OPENING DATE: 07/25/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		065-30	\$132,636 ⁰⁰	\$132,636 ⁰⁰
64,000 GVW CAB & CHASSIS, STAINLESS STEEL DUMP BODY OPEN END CONTRACT TO PROVIDE 64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM AS DESCRIBED IN ATTACHED PROCUREMENT SPECIFICATION 377-2-D THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITOL COMPLEX, BUILDING 15, CONFERENCE ROOM, AT 10:00 AM. ON 7/12/07. FAILURE TO ATTEND THE PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION. QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00PM EST) ON THURSDAY, 6/28/07. SEND YOUR QUESTIONS TO: PURCHASING DIVISION JOHN JOHNSTON 2019 WASHINGTON ST. E. CHARLESTON, WV. 25305 QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL. E-MAIL: JJOHNSTON@WVADMIN.GOV FAX: 304-558-4115 IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402. EXHIBIT 2 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT</p>						

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<p>THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 9/98</p> <p>EXHIBIT 6</p> <p>PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN</p>						

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				<p>A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p>		

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<p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>(✓) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID; OR () BIDDER IS A NONRESIDENT VENDOR EMPLOYING A</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Roger Meadows</i>	TELEPHONE 304-204-2435	DATE 10-17-07
TITLE <i>ASST Gen Mgr</i>	FEIN 55-0677313	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING</p>						

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<p>CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>WV TRUCK & Trailer Co INC</u></p> <p>DATE: <u>10-17-07</u></p> <p>SIGNED: <u>Roger Meadows</u></p> <p>TITLE: <u>ASST General Mgr</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <u>Roger Meadows</u>	TELEPHONE <u>304-204-2435</u>	DATE <u>10-17-07</u>
TITLE <u>ASST Gen Mgr</u>	FEIN <u>55-0677 313</u>	ADDRESS CHANGES TO BE NOTED ABOVE

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09/20/2007				
BID OPENING DATE: 10/17/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.						
BID OPENING DATE AND TIME CHANGED						
FROM: POSTPONE UNTIL FURTHER NOTICE						
TO: 10/17/07 AT 1:30 P.M.						
NO OTHER CHANGES.						
0001	1	EA		065-30	\$132,636 ⁰⁰	\$132,636 ⁰⁰
64,000 GVW CAB & CHASSIS, STAINLESS STEEL DUMP BODY						
***** THIS IS THE END OF RFQ 707EC021 *****						TOTAL: 132,636 ⁰⁰

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Roger Mearns* TELEPHONE: 304-204-2435 DATE: 10-17-07

TITLE: *ASST. Gen. Mgr* FEIN: 55-0677313 ADDRESS CHANGES TO BE NOTED ABOVE

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ADDENDUM #2
707EC021

OPEN END CONTRACT

64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND
PISTON PUMP HYDRAULIC SYSTEM

CHANGES TO BIDDER'S EVALUATION REPORT:

~~FROM:~~

~~X4.2.2 Delivery date of balance of completed units: _____ calendar days after date of purchase agreement~~

TO:

X4.2.1 Guaranteed delivery of balance of completed units in the following quantities:

- 1-25 240 calendar days after receipt of purchase agreement by successful vendor
- 26-50 240 calendar days after receipt of purchase agreement by successful vendor
- 51 and over 240 calendar days after receipt of purchase agreement by successful vendor

~~FROM:~~

~~X4.2.2 Delivery date of completed representative unit _____ calendars after date of purchase agreement~~

TO:

X4.2.2 Delivery date of completed pilot model 150 calendar days after receipt of purchase agreement by successful vendor

NO CHANGE

X8.7.3 Is clutch dual plate ceramic clutch

YES NO

Size: 15 1/2 inch

Kwik adjust (manual feature)

YES NO

Manufacturer and model: EATON EP1552 with 7 spring damper YES NO

NO CHANGE

X8.8.6 Radiator and heater hose manufacturer:

OEM / GATES

NO CHANGE

X8.10.6.1

Truck vendor will provide 4 feet of wiring bundled at the end of the frame for body vendor hook up of tail lights and etc. in the dump bed body

YES NO

~~FROM:
X8.18.3.1~~

~~Front Wheels: Size~~

~~22.5" x 9.00"~~

~~10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES NO~~

~~Rated at 10,000 lbs. at a maximum inflation pressure of 130 PSIG~~

~~Manufacturer and Model: Accuride 29039~~

~~With 0.500 inch thick disc, non standard off set with steel hubs YES NO~~

~~Powder coated with color similar to gray YES NO~~

TO:

X8.18.3.1

Front Wheels: Size

22.5" x 9.00"

10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc

YES NO

Rated at 10,000 lbs. at a maximum inflation pressure of 130 PSIG

Manufacturer and model: Accuride 29039

With 0.500 inch thick disc, non standard off set with steel hubs

YES NO

Powder coated YES NO Gray top coat YES NO

~~FROM:~~
~~X8.18.4.1~~

Rear Wheels: Size _____
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc __ YES __ NO
Rated at _____ lbs. at a maximum inflation pressure of _____ PSIG
Manufacturer and Model: _____
With 0.500 inch thick disc, non standard off set with steel hubs __ YES __ NO
Powder coated with color similar to gray __ YES __ NO

TO:
X8.18.4.1

Rear Wheels: Size 22.5" x 8.25"
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc
 YES NO
Rated at 7500 lbs. at a maximum inflation pressure of 120 PSIG
Manufacturer and model: Accuride 29637
With 0.472 inch thick disc YES NO
Powder coated YES NO Gray top coat YES NO

~~FROM:~~
~~X8.25.1~~

Will a preventive maintenance and operator's training seminar be provided
 YES NO

TO:
X8.25.1

Will a preventive maintenance and operator's training seminar be provided
 YES NO
Manuals (OR) CD

~~FROM:~~
~~X10.3.12~~

Snowplow lift control section is 3 way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder __ YES __ NO

TO:
X10.3.12

Snowplow lift control section is 4 way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder
 YES NO

~~FROM:~~

~~X10.3.14.5~~

Are solenoid valve coils used ___ YES ___ NO

Will they have manual override capabilities ___ YES ___ NO

TO:

X10.3.14.5

Are solenoid valve coils used

YES ___ NO

Will they have manual override capabilities if needed for continued use when coils fail

YES ___ NO

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 377-2-D

OPEN END CONTRACT
64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND
PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 377-2-D, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report.
FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 707 EC 021

Bidder's Name: WEST VIRGINIA TRUCK + TRAILER CO.

Address: 1 JAW DRIVE CROSS LANES WV 25213

Telephone Number: 304 204 2435

Years Bidder has been registered to do business with the State of West Virginia: 19 YRS.

Years Company has been an authorized dealer for proposed unit: 19 YRS.

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 150 Calendar Days After Date of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 240 Calendar Days After Date of Purchase Agreement

NOTE: Vendors can complete Bidder's Evaluation Report at Purchasing's Web Site www.state.wv.us/admin/purchase

The Procurement Specifications does not have to be returned with the bid.

X5.0 AWARD CRITERIA;

X5.1 Prices for quantities of

1-25	\$	<u>132,636⁰⁰</u>	per unit
26-50	\$	<u>132,636⁰⁰</u>	per unit
51 and over	\$	<u>132,636⁰⁰</u>	per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

Freightliner M2-112V 2008 Ye. model
 Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units? YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? YES NO

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training YES NO

Will you conduct training with each purchase order against this open end contract? YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order? YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished directly to Letha Lamb Training Academy prior to the delivery of the pilot? YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training? YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit? YES NO
If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with the minimums in all areas as stated in Section 6.5 of specifications YES NO

Is warranty literature attached? YES NO

Will the equipment have a valid and current state inspection sticker? YES NO

List all extended service contract coverages, published and not published along with a cost as options. Also, provide manufacturers hours vs. miles conversion.

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished? YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included? YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

X8.0 Specifications - Cab and Chassis

Manufacturer: FREIGHT LINER Model: M2-112V

Will a minimum 2 year basic bumper to bumper warranty including parts and labor be furnished? YES NO

X8.1 GVWR Rating: 64000 Lbs.

X8.2 Cab to Axle Dimensions: 126 Inches usable

X8.2.1 After frame length: 60 Inches

X8.3 Wheelbase: 192 Inches set forward design for snowplow application for various plows YES NO

X8.3.1 Have you adjusted wheelbase and CA dimension to provide the optimum legal weight distribution? YES NO

X8.3.2 BBC (Bumper to Back of Cab) 133 Inches excluding frame extension

X8.4 Frame: Does the frame meet or exceed all Federal requirements for GVWR specified that extends forward beyond the grille a minimum of 14 inches? YES NO

X8.4.1 Frame material 129000 PSI yield strength. Is frame extension a "parent rail" material? YES NO

X8.4.2 RBM: 2.59 million Ins/Lb. per rail Single frame rail YES NO

To assure space for installation of spinner chute, are the truck chassis frame rails free of obstruction inside the frame rails and along the left outside frame rail in an area approximately 23 inches from the back of the cab YES NO

X8.4.2.1 Where engine and radiator adjustments are required, 2.59 million in lb. per rail (RBM).

X8.4.3 Is main frame and any required liners straight channel or offset channel, full length

X8.4.4 Is frame RBM approved by manufacturers Engineering Department? YES NO
 Is it bolt on or welded extension? YES NO

X8.4.5 Does front frame accommodate the Department's standard hydraulic PTO shaft and pump, and the plow frame? YES NO

Does it provide easy service accessibility? YES NO

X8.4.5.1 Front frame mounted tow hooks YES NO

X8.4.5.2 Has the factory installed front bumper been omitted YES NO

X8.5 Cab:

Manufacturers standard steel, aluminum and/or fiberglass with premium or manufacturers highest level interior trim with inside noise level rating not to exceed 80 dba in compliance with Federal regulations YES NO

Ambient temperature display for outside temperature YES NO

Is hood a tilt hood YES NO

Fenders steel and/or fiberglass YES NO

Is rear air bag suspension provided YES NO

Are inner fender panels adequate to keep materials from engine compartment YES NO

X8.5.1 Cab door locks, both doors, keyed alike YES NO

X8.5.2 Dual sun visors YES NO

X8.5.3 Arm rests, both sides YES NO

- X8.5.4 Seats: Fully adjustable air ride high back with head rest, cloth covered both left hand and right hand sides YES NO
Clearance between seats 23 inches
- X8.5.5 Floor mats: Rubber floor mats throughout cab area with non-absorbent backing under mats YES NO
- X8.5.6 Turn signals: Manufacturers standard with hazard warning switch YES NO
- X8.5.7 Heater and defroster: Fresh air type, heaviest duty YES NO
- X8.5.8 Windshield wipers and washers: Manufacturer's heaviest duty "artic type" with intermittent feature with manufacturers largest reservoir filled with antifreeze type solvent YES NO
- X8.5.9 Instruments: Are all instruments dash mounted except where specified otherwise? YES NO
Are all standard instruments supplied, including but not limited to the following: YES NO
- X8.5.9.1 Coolant, oil pressure gauges, to have both dial type readout and either an audible or visual alarm to warn operator when safe operating conditions are exceeded YES NO
- X8.5.9.2 Voltmeter or ammeter YES NO
- X8.5.9.3 Engine RPM tachometer YES NO
- X8.5.9.4 Speedometer with odometer YES NO
- X8.5.9.4.1 Are provisions for dual speedometer leads made available YES NO
- X8.5.9.5 Primary air pressure gauge YES NO
- X8.5.9.6 Auxiliary air pressure gauge YES NO
Is it combined with primary air pressure gauge YES NO
- X8.5.9.7 Air filter manufacturers heaviest duty dual element type that meets all requirements of extended engine warranty YES NO
- X8.5.9.8 Does unit have front air intake YES NO
Is an air actuated or cable control valve provided to enable operator to divert air intake to engine compartment while in snow plowing application YES NO
- X8.5.9.9 Is air filter restriction indicator gauge dash mounted YES NO
- X8.5.9.10 Engine hourmeter controlled by engine operation YES NO
- X8.5.9.11 Fuel level reading YES NO

- X8.5.9.12 Parking brake dash controlled with indicator light YES NO 56
- X8.5.9.13 Manufacturers best sound/weather insulation package for proposed cab YES NO
- X8.5.9.14 Outside temperature control with in cab digital read out YES NO
- X8.5.10 Rearview Mirrors:
- X8.5.10.1 West coast type power adjustable with convex spot mirror YES NO
- Size: 16x9
- X8.5.10.2 Both mirrors heated type with stainless steel composite powder coated
 or aluminum hardware with corrosion resistance, heads, and fasteners YES NO
- X8.5.11 Grab Handle: Right hand and left hand sides, internal or external mounting to rear of door opening YES NO
- Are inside handles featured YES NO Is one (1) outside, left, mounted grab handle with non-slip insert for bed aggregate inspection furnished
- X8.5.12 Air horns, with snow shields if cab mounted, with adequate clearance for future installation of body dump cab protector YES NO
- Does it have single air horn used without snow shield if mounted downward on frame rail under hood YES NO
- X8.5.13 Unit includes lockable hand operated throttle control or electronic control for idle up and idle down for hydraulic flow rate YES NO
- X8.5.14 Will manufacturer provide for stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount YES NO
- Is stone/gravel guard provided YES NO
- X8.5.15 Air conditioning: Manufacturers fresh air type heaviest duty with APADS or equal RCD system including replaceable fresh air filter YES NO
- X8.5.16 Radio: AM/FM stereo with weatherband radio feature YES NO
- X8.5.17 Glass: Manufacturers tinted safety glass (all locations) YES NO
- X8.5.17.1 Dual power windows YES NO
- X8.5.18 Manufacturers engine cover or dash mounted extended two (2) cup drink holder YES NO
- X8.5.19 Front mudflaps manufacturers standard for unit bid YES NO

X8.5.20 Emergency triangle warning kit, with hold down stowed (fastened) in the cab YES NO
Manufacturer & Model: N/A

X8.5.21 Manufacturers tilt steering column with cruise control feature YES NO
OR
Locking hand operated throttle steering wheel YES NO
Diameter: _____ inches

X8.5.22 Fire extinguisher – rechargeable with vehicle mount. Mounted in the cab for easy and quick access YES NO
Manufacturer & Model: N/A

X8.5.23 List any accessories not indicated above but are included in the manufacturer’s standard cab

X8.5.24 If you are the successful vendor, will you provide WVDOH with complete list of all filters required for normal maintenance on proposed unit. YES NO

X8.6 Engine:

X8.6.1 Will engine manufacturer make provisions for front mounted hydraulic pump to crankshaft pulley YES NO
Manufacturer & Model: _____

X8.6.1.1 Diesel engine? YES NO
HP: 370 Peak torque 1450 lbs. ft.

X8.6.1.2 In block engine heater 1500 watt YES NO

X8.6.1.2.1 Is electrical cable from the heater to plug one piece and waterproof, located left side under driver door YES NO

X8.6.1.3 Fuel heater/water separator provided inside of engine compartment YES NO

Manufacturer: Alliance

X8.6.1.3.1 Engine fuel system equipped with primer pump YES NO

X8.6.1.4 Exhaust:

X8.6.1.4.1 Single vertical exhaust pipe with underbody muffler that will meet all Federal noise abatement requirements YES NO

Exhaust to the passenger (right) side of unit YES NO

X8.6.1.4.2 Is tail pipe shielded or insulated to protect personnel from burns when entering or exiting the cab YES NO

The shield is 90 degrees to 120 degrees and of non-rustable material such as stainless steel or aluminum YES NO

Manufacturer: OEM

X8.6.1.4.3 Exhaust pipe with rain cap or exhaust turn out YES NO

X8.6.2 Jacob's Engine Brake Cummins C-Brake Mack Power Leash compression and exhaust or equal MB COMP/TURBO BRAKE

X8.6.3 Are engine components facing wheel areas, on both sides, and the areas to the rear of wheels shielded by means of rubber skirts supported by easily removable steel rods YES NO

X8.6.4 Engine oil pan is zinc nickel plated aluminum or non-corrosive coated

X8.7 Clutch:

X8.7.1 Externally lubricated and manually adjusted with torque limiting clutch brake YES NO

X8.7.2 Clutch adjustment set to specifications prior to delivery to the Department YES NO

X8.7.3 Is clutch dual plate ceramic clutch YES NO

Size: 15 1/2 inch Kwik adjust (manual feature) YES NO

Manufacturer and model: Eaton Fuller with 7 spring damper YES NO

X8.7.4 Does clutch meet or exceed peak engine torque YES NO

X8.8 Cooling System: Is it capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation YES NO

X8.8.1. Does the system incorporate a thermostat and bypass for warm up YES NO

Is it filled with permanent type Dex Cool extended life or equal antifreeze rated to a -30° F or lower YES NO

Is it a low silicate type antifreeze for diesel engines only YES NO

X8.8.2 Is it the largest factory available engine cooling capacity compatible with engines and transmission referenced and for continuous high engine output under extreme temperatures and/or operating conditions due to prolonged snow plowing operations in low gears YES NO

- X8.8.3 Is unit fitted with provisions for visually monitoring coolant without necessitating removal of the cap from the radiator or expansion tank YES NO
- X8.8.4 Does the radiator mounting provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft YES NO
- X8.8.5 Distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft to insure adequate clearance for PTO drive shaft: 4-6 inches
- X8.8.6 Radiator and heater hose manufacturer: GATES
- X8.9 Fuel Tanks:
- X8.9.1 Safety type aluminum fuel tanks as required by FMVSS YES NO
- X8.9.2 Single aluminum usable: 60 U.S. gallon; frame mounted YES NO
- X8.9.3 Driver and passenger entrance steps-grated self cleaning safety step YES NO
- X8.9.3.1 Are all edges banded (skirting) on the outer perimeter YES NO
- X8.9.3.2 Top of first step above ground: 18 inches
- X8.9.4 Is a fuel draw system provided that meets all Federal 2007 emission standards YES NO
- X8.10 Electrical System:
- X8.10.1 Type: Manufacturer's 12 volt negative ground system with manufacturers radio interference Suppression YES NO
- X8.10.1.1 Circuit breaker equipped, in easily accessible location, weatherproof YES NO
- X8.10.2 Three (3) or four (4) heavy duty - 12 volt batteries, maintenance free with sealed terminals YES NO
- X8.10.2.1 Reserve capacity: 555 minutes @ 80 degrees F
- X8.10.2.2 Cold crank AMPS: 3400 total @ 0 degrees F
- X8.10.3 Alternator capacity: 160 AMPS with internal regulator YES NO
- X8.10.4 Wiring: Heavy duty hypalon type or equal in heavy duty sheathing, bundled with lacing cords or non-metallic tie straps YES NO
- X8.10.5 Lighting: Are provision made available for all required lighting on completed unit (number, location, and color) to conform to the West Virginia Motor Vehicle Code YES NO
- X8.10.6 Auxiliary snow plow/salt spreader lighting package YES NO

X8.10.6.1 Truck vendor will provide 4 feet of wiring bundled at the end of the frame for body vendor hook up of tail lights and etc. in the dump bed body YES NO

X8.10.7 Will manufacturer or successful vendor make provisions for manufacture approved wiring and weatherproof disconnect plug YES NO

Manufacturer and Model: OEM

seven (7) pin connector YES NO with 3 foot "pigtail" to operate combination left and right turn/park lights/auxiliary headlights YES NO

X8.10.7.1 Are provisions for weatherproof disconnect plug located at lower left front grille-bumper area YES NO

All wiring connections weatherproof with wiring encased in wire looms YES NO

X8.10.7.2 Is a 7 way trailer connection light socket mounted at rear of truck frame YES NO

Manufacturer and Model: OEM

X8.10.7.3 Has manufacturer provided body builder circuit interface capability with connection plug to be located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity YES NO

X8.10.7.4 Has manufacturer provided body builder circuits - three (3) switches YES NO located in the dash instrument panel with one (1) weather protected body builder connection box or module located at the rear under cab YES NO

20 amps per channel, 80 amp maximum output YES NO

Do dash switches control the power module with LED backlighting YES NO

X8.11 Power Train Overview:

Do lubricants for front axle hubs and differentials, manual transmission, transfer cases, and all rear differentials meet or exceed all appropriate MIL and SAE specifications for synthetic lubricants and all plugs identified as synthetic or painted red YES NO

X8.11.1 Transmission: RTO-14908LL transmission oil cooler YES NO

X8.11.1.1 Magnetic drain plug YES NO

X8.11.1.2 Does transmission torque capacity meet or exceed specified engine torque YES NO

X8.12 Driveline:

X8.12.1 Manufacturer and Model: Meritor 18T

X8.13 Rear Axle:

X8.13.1 Manufacturer and Model: Meritor/Rockwell RT-46-160P

X8.13.2 Is each unit equipped with driver controlled main locking differential in forward and rear axle that is manually cab controlled YES NO

X8.13.3 Ratio: Does gear ratio determined give the vehicles the capability of a top speed of approximately 70 MPH YES NO
If not 70 MPH, please specify 71.6 MPH

X8.13.4 Is housing aluminum or other lightweight material YES NO

X8.13.5 Rear wheel seals: CR SCOTSEAL Plus XL

X8.13.6 Drain plug, magnetic YES NO

X8.14 Front suspension:

X8.14.1 Capacity at ground each front spring 10,000 lb.
Total spring capacity 20,000 lb.

X8.14.2 Are the front spring pins or bearings/bushing furnished with 360 degree grease grooves to insure adequate lubricant penetration YES NO

X8.14.3 Are spring hangers heavy castings with sufficient pin and bearing surface to render trouble free service YES NO

X8.15 Rear suspension: Hendrickson RT 463

X8.16 Front Axle:

X8.16.1 Capacity: 18,000 lbs.

X8.16.1.1 Does the front axle, drag links, and tie rods have grease zerks installed YES NO

X8.16.2 Heavy duty shock absorbers YES NO

X8.16.3 Oil lubricated front wheel seals YES NO Manufacturer: CR SCOTSEAL Plus XL

X8.16.4 Does unit provide adequate tire clearance at maximum turning angles YES NO

X8.17 Brakes

X8.17.1.1 Type: Full air, with manufacturers ABS in compliance with the most current FMVSS requirements YES NO

X8.17.2 Compressor: Manufacturer and Model: WABCO 15.5 15.5 cu. ft.

X8.17.3 Service Brake Size:

X8.17.3.1 Front: 16 1/2" x 6" "S" cam OR power front disc brake system providing equal performance

- X8.17.3.2 Quick change type single _____ OR double anchor pin if drum type brakes YES NO 62
- X8.17.3.3 Rear: 16 1/2" x 7 "S" cam with quick change type single _____
OR double pin
- X8.17.3.4 Are all brake chambers sealed brake chambers with epoxy exterior coat on front and rear Chambers YES NO
- Manufacturer: HALDEX
- X8.17.4 Do drum brakes have automatic slack adjusters and are clearance sensing type only, with adjustment on application of the brake YES NO
- X8.17.5 Parking Brake: Rear wheel spring type – severe service spring brakes YES NO
Manufacturer and Model: _____
- X8.17.5.1 Does parking brake provide modulated emergency braking via the foot valve in the event of a rear service system failure YES NO
- X8.17.6 Air dryer with heater 24 inches above road service
Manufacturer and Model: BW-Ad-9
with spin on desiccant cartridge or equal YES NO
- Is the installation made in concurrence with the air compressor manufacturer's recommendations YES NO
- X8.17.6.1 Are all electrical connectors for drain valve and air dryer covered with heat shrink material or have sealed connections YES NO
- X8.17.7 Manufacturer's standard air tanks for service brakes YES NO
Auxiliary tank for parking brake YES NO
- X8.17.8 Low air pressure warning light and buzzer YES NO
- X8.17.9 Rear service brake chambers and spring brake chambers mounted to provide adequate clearance for tire chains and backing into bituminous paving machines YES NO
Factory installed YES NO
- X8.17.10 Brake dust covers installed on all wheels YES NO
- X8.17.11 Unit equipped with hand control valve, tractor protection valve, with provisions for installation of glad hands at rear of truck to enable unit to pull air brake operated equipment trailer YES NO
- X8.17.11.1 Are glad hands recessed as not to stick out past the end of frame rails YES NO

X8.18 Tires and Wheels:

X8.18.1 Truck equipped with hub piloted steel disc wheels for tubeless tires YES NO

X8.18.2 Wheel end equipped with outboard cast brake drums YES NO

15 degree tubeless steel wheels, hub piloted, 10 hole - 285.75mm bolt circle with 220mm two-piece flange nuts YES NO

X8.18.3 Front:

X8.18.3.1

Wheels: Size: 22.5" x 900"
10 hole 285.75 mm bolt circle with 220 mm bore, tubeless steel disc YES NO

Rated at 10,000 lbs. at a maximum inflation pressure of 130 PSIG.

Manufacturer and Model: ACCURIDE 29039
With 0.500 inch thick disc, non standard off set with steel hubs YES NO

Powder coated with color similar to gray YES NO

X8.18.3.2

Tires: 315/80R22.5" Ply 20

X8.18.4

Rear:

X8.18.4.1

Wheels: Size: 22.5 x 8.25
10 hole - 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES NO

Rated at 7500 lbs. at a maximum inflation pressure of 120 PSIG

Manufacturer and Model: ACCURIDE 29637
With 0.472 inch thick disc YES NO

Powder coated with color similar to gray YES NO

X8.18.4.2

Tires: 11R22.5 16PL

X8.18.4.3

Does the dual rear wheel/tire assembly have clearance between the tires, which permits the use of dual tire chains YES NO

X8.18.5

All wheels have wheel separators YES NO

X8.18.6

Radial Tires:

Front Radial Tire: Manufacturer and Model: GY G287

Rear Radial Tire: Manufacturer and Model: GY G244

X8.19 Steering:

X8.19.1

Power steering: Dual integral OR single integral type hydraulic power steering with right wheel power-assist cylinder YES NO

X8.19.2 Steering system: (flow, pressure, relief valve etc): Full Flow
Manufacturer: TRW

X8.19.3 Hydraulic supply pump: Vane type OR roller type with sufficient oil flow to permit one (1) steering wheel revolution per second with front axle loaded to rated capacity, with plow on, in a "park" condition YES NO
Manufacturer and Model: OEM

X8.19.4 Is the pump the integral filter type unit YES NO

X8.19.5 Power steering reservoir: "Remote mounted" YES NO

Capacity: 4 qt. Filter is easy to remove and replace YES NO

X8.19.6 Is the remote filter factory mounted, certified, and engineering approved in conjunction with the appropriate pump YES NO

X8.20 Features considered as standard equipment but not addressed:
ALUMINUM CAB

X8.21 Paint: Describe proposed method of painting:
FACTORY

X8.22 Detail/Decorative Stripes with Logo:

X8.22.1 Width: 4 inches

X8.22.2 Will WVDOH logo area comply with 8.22.2 of specification YES NO

X8.22.3 Does conspicuity striping material provided meet requirements of Section 8.22.3 through 8.22.8 of specification YES NO

X8.23 Does unit offered meet or exceed "Occupational Safety and Health Act of 1970" YES NO

X8.24 Does unit conform to the advertising guidelines YES NO

X8.25 Preventive Maintenance and Operator's Training School

X8.25.1 Will a preventive maintenance and operator's training seminar be provided YES NO

X8.25.2 Will booklets and pamphlets be furnished to be used by the operators YES NO

X8.25.3 Will you furnish all training aids; i.e. videos, projectors, etc. required in conducting the training YES NO

X9.0 SPECIFICATIONS – 304 STAINLESS STEEL COMBINATION DUMP/SPREADER BODY

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Bidder: ACE TRUCK EQUIPMENT CO.

Address: 1130 NEWARK RD. ZANESVILLE, OH 43701

Telephone Number: 740.453.0551

Years company has been an authorized dealer for proposed unit: 12 years

Manufacturer, model, series, and date of manufacture of proposed combination dump/spreader body:

HENDERSON MUNI-WV 07

Is descriptive literature full describing proposed combination dump/spreader body attached to your bid proposal? X YES NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? prior to deliver of unit or WITH EACH UNIT

Does the combination dump/spreader body have a minimum two (2) year basic bumper to bumper Warranty including parts and labor? X YES NO

X9.1 Body capacity: 12.7 cubic yards water level

X9.2 Sideboard pockets and tailgate height provides additional capacities of 2 to 5 cubic yards

X9.3 Front body bulkhead: 3/16" inch 304 stainless steel

X9.4 Does cab shield have sufficient clearance to ensure shield will not hit exhaust when dumping on uneven Terrain X YES NO

X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through bumper X YES NO

X9.6 Dimensions:

X9.6.1 Inside length of body: 174 inches

X9.6.2 Inside width of body: 88 inches wide to maximize capacity and lower the center of gravity

X9.6.3 Outside width of body: 95 at the integral fenders

X9.6.4 Body spacing from cab 4 inch

X9.6.5 Basic side height: 45 inches (measure from the floor to top rail)

X9.6.6 Tailgate height: 53 inches (measure from the floor to top rail)

X9.6.7 Body overhang: 10-18 inches (measure from center of hinge pin)

X9.6.8 Cab protector: 22 inches x 94 inches with adequate clearance for cab mounted air horns

X9.7 Cab protector sloped rearward for drainage purposes X YES NO

X9.8 Construction of the body sides, front, head, and tailgate:

Steel type: 304 STAINLESS STEEL

X9.8.1 Floor: 1/4" inch thickness 304 stainless NO OR abrasion resistant AR400 YES

X9.8.2 Sides: 3/16 inch thickness

X9.8.3 Tailgate plate: 3/16 inch thickness

X9.8.4 Top rail: 3/16 inch thickness

X9.8.5 Cab protector: 10 gauge

X9.8.6 Longitudinal: 10 inch/ 7 gauge 304 stainless steel formed inner/
10 gauge 304 stainless steel formed with internal stainless steel gussets every
30 inches

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks X YES NO

Is the body designed to allow maximum protection to the tanks X YES NO

X9.9 Is all the welding inside the body continuous and not skip welded X YES NO

Are all rails and posts continuous welded X YES NO

X9.10 Are the rear corner posts full length, one (1) piece construction YES NO 67

X9.10.1 Will a rear bolt on spreader apron be provided unless integrated into the rear of the bed YES NO

X9.11 Cab protector sides, formed with gussets, extending forward 22 inches

Clearance above highest point of cab is 3 inches

X9.12 Is body a unibody design - no crossmembers YES NO

X9.12.1 Does the body have one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to conveyor chain YES NO

X9.12.2 The sides of the body slope to the conveyor to facilitate self cleaning of body without raising YES NO

X9.13 The boxed top rail slopes inward to shed debris YES NO

X9.14 Full length 304 stainless steel integral rear fenders are continuously welded and positioned over wheels of the truck chassis YES NO

X9.15 Is there an integrated center conveyor providing the ability of the body to convey granular materials with the body down YES NO

X9.15.1 Does the conveyor have 12 inches or less truck frame to body floor height for lower center of gravity and lower mounting height YES NO

X9.15.1.1 Will wood products be used between truck frame and bed YES NO
N/A CONVEYOR LONG SILLS SIT DIRECTLY ON TRUCK FRAME.

X9.15.2 1/4 inch 304 stainless steel NO conveyor floor OR abrasion resistant steel (AR400)YES

X9.15.3 2 inch diameter front and rear shafts with eight (8) tooth sprockets YES NO

X9.15.4 Drive sprockets are double keyed to shaft YES NO

X9.15.5 Conveyor width: 25 inches

X9.15.6 Is conveyor reversible YES NO

X9.15.7 Is conveyor driven with 25:1 planetary gearbox drives on both the front and rear shafts YES NO

Hydraulic motors 5.0 CIR

Does one (1) motor have an integral conveyor speed sensor YES NO

X9.15.8 Is conveyor chain D667K pintle type (24,500 lb. tensile/strand) YES NO

With 3/8 inch x 1 1/2 inch conveyor crossbars welded to every link

X9.15.9 Is there a 10 gauge 304 stainless steel bolt in pan under the conveyor to keep material off chassis frame YES NO

- X9.16 Does the body have the capability to convey to the front or the rear with a material spinner for distributing material YES NO
- X9.16.1 For front spreading, is there a front feedgate integrated into the head sheet of the body no less than 8 inches x 24 inches with infinite adjustment positions YES NO
- X9.16.2 A 304 stainless steel front spinner chute mounted between chassis frame rails and with the body down be completely enclosed to prevent material from dropping on chassis drive shaft YES NO
- X9.16.3 For rear spreading, a 7 gauge 304 stainless steel 10-12 inch x 24-26 inch Rear feedgate in the body tailgate YES NO
- X9.16.4 Is rear feedgate lever operated YES or screw adjustable NO The feedgate capable of being positively locked into position YES NO
- X9.16.5 Is the front spinner bracket and chute mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets installed by successful vendor YES NO
- X9.16.6 Is the spinner assembly universal and may be used at front or rear YES NO
- X9.16.7 Is the spinner assembly adjustable left to right, and up and down to assure accurate placement of material on spinner disc to facilitate control of spread pattern YES NO
- X9.16.8 Does 10 gauge 20 inch diameter spinner disc have replaceable machined hub YES NO
- X9.16.9 Is spinner disc vanes 409 NO or 304 YES stainless steel
- X9.16.10 If spinner hydraulic motor is mounted on top of spinner disc, the motor is enclosed in a removable material shedding protective cover YES NO
- X9.17 Hydraulic Hoist:
- X9.17.1 Is it a trunnion mount or top lift telescopic hoist
- X9.17.2 Is telescopic hoist no less than N.T.E.A. Class 70 YES NO
- X9.17.3 Is single hoist cylinder trunnion mount or top lift
- X9.17.4 Does hoist cylinder have three (3) stages with 135 inches of stroke with a six (6) inch diameter first stage YES NO
- Manufacturer and model: MAILHOT CS135-6-3
- X9.17.5 Does the cylinder have wear and corrosion resistant nitrided cylinder tubes YES NO

X9.18.12 Air deflector-hood mounted, blue or smoke YES NO 70
 Deflector manufacturer's standard width for truck mode YES NO
 Width: DEPENDS ON CHASSIS MAKE
 Access to front end hood tilt handle YES NO
 Extra handle YES NO

X9.19 Lighting: Weather/shock resistant lights LED type with average amp draw between .045 - .72
 YES NO

Manufacturer and Model: TRUCK LITE MODEL #0

All connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration YES NO

X9.19.1 All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base TRUCK LITE TL10250R YES NO

X9.19.2 All ground wires attached with plated steel fasteners YES NO

X9.19.3 Rear lights shock mounted, recessed oval stop, tail, turn, and recessed oval back up lights mounted in back post TRUCK LITE TL60250R YES NO

Strobe lights marked and switched from dash board location YES NO

Manufacturer and Part #: TRUCK LITE 60360Y

X9.19.4 Center rear I.D. lights three (3) located in truck chassis YES NO

X9.19.5 Two (2) amber oval LED strobe lights mounted at the front corners of the cab protector, and two (2) amber oval LED strobe lights mounted at each outside corner of the cab protector YES NO

Manufacturer and Part # of Both Locations: TRUCK LITE 60360Y

Strobe lights marked and switched at dash board location YES NO

X9.19.6 Auxiliary headlights for snowplowing application shock mounted on fender of unit YES NO

Manufacturer and Part #: TRUCK LITE 80853

X9.19.7 Two (2) oval amber LED strobe lights mounted at top of rear corner posts right and left sides and switched in combination with cab protector strobe YES NO

Manufacturer and Model: TRUCK LITE 60360Y

X9.19.8 Two (2) front frame mounted tow hooks YES NO

X9.19.9 Lighted license plate bracket YES NO

X9.20 Are the following at the front or rear both sides of the body:

- X9.20.1 304 stainless steel fold down ladder that locks into position when either in the down or up position YES NO
- X9.20.2 Two (2) 304 stainless grab handles YES NO
- X9.21 Tailgate (304 stainless steel):
- X9.21.1 Tailgate hinged at top, flame cut hardware, pork chop type off-set hardware to achieve maximum opening of tailgate, but has provision for pivoting at the bottom YES NO
- X9.21.2 Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots YES NO
- X9.21.3 Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel YES NO
- X9.21.4 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates YES NO
- X9.21.5 Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward YES NO
- X9.21.6 Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with perimeter Boxing YES NO
- X9.21.7 7 gauge 304 stainless steel 10-12 inch x 24- 26 inch rear feedgate YES NO
- X9.21.8 Cold roll steel upper pins with grease zerks YES NO
- X9.21.9 Top hinge channel has removable, chain tethered keeper pins YES NO
- X9.21.10 Latching action at the bottom of gate operable by the truck driver without leaving the truck cab YES NO
- X9.21.11 Gate is self aligning YES NO
- X9.21.12 Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter YES NO
- X9.21.13 Body integrated or bolt on 304 stainless steel 15 inch spreader apron YES NO
- X9.22 Design and strength characteristic of the entire body such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload YES NO

9.23 Bumper:

- X9.23.1 Bumper formed out of 1/4 inch roll steel YES NO

Weighs 10.20 lbs. per square foot

X9.23.2 Bumper face covers all of truck frame (12 inches) with two (2) flanges of 2.25 inches top and bottom X YES NO

X9.23.3 Overall width of bumper: 94 inches

X9.23.4 Bumper straight across front from centerline of truck chassis 21 inches each side of Centerline, making bumper straight 42 inches long in center with ends swept back 30 degrees and 27 inches each side.

X9.23.5 Bumper has two (2) access holes for utilization of tow hooks X YES NO

X9.23.6 Upper and lower flanges cut and welded solid at point where bumper is bent and ground off smooth X YES NO

X9.23.7 Bumper mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side X YES NO

X9.23.8 Mount angle 3/8 inch x 3 inches x 8 long with four (4) 5/8 inch holes X YES NO

X9.23.9 Paint on front bumper: BLUE 82-5802

X9.24 Underbody Tool Box:

X9.24.1 One (1) tool box mounted under body on right side frame rail X YES NO

X9.24.2 Tool box 18 inches high, 24 inches wide, 18 inches deep cradled by a heavy steel angle frame attached to the truck frame X YES NO

X9.24.3 Construction 14 gauge, A-60 galvaneal steel with all seams welded X YES NO

X9.24.4 Tool box has horizontal hinged fold down door X YES NO

X9.24.5 Tool box door has cable or chain to hold the door in a horizontal position X YES NO

X9.25 Load covering system electrically or air controlled X YES NO

X9.25.1 Electric motor assembly includes 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker X YES NO

X9.25.2 Pivot arm assembly constructed in a two (2) piece bent arm configuration of 1 1/4 inch 14 gauge steel tubing X YES NO

X9.25.3 Bent arm extensions constructed of 1 inch 14 gauge steel tubing

X9.25.4 Rear cross constructed of 1 1/4 inch 14 gauge steel tubing

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- X9.25.5 Pivot arm rests included YES NO
- X9.25.6 Underbody spring extension spring 12 inches in length attached to base of pivot arm and of body with articulating spring mounting bracket YES NO
- X9.25.7 All steel components finished with manufacturer's recommended rust preventative system with adequate primer and paint YES NO
- X9.25.8 Steel cab protector mounted triple bend wind deflector provided YES NO
- X9.25.9 Load covering system provided with a 18 oz. black vinyl tarp to fit 14 foot 6 inch body YES NO
- X9.25.10 Load covering system supplied with all necessary hardware and delivered to the West Virginia Division of Highways as a complete and operational unit. YES NO

X9.26 Paint: Describe proposed method of painting
 X9.26.1 - X9.26.4

NO PAINT ON STAINLESS

NON STAINLESS BODY PARTS PAINTED ALUMINUM

FRONT BUMPER PAINTED BLUE

X9.27 Detail/Decorative Stripes with Logo:
 Will striping and detailing you provide comply with requirements of Section 9.27.1 through 9.27.7 YES NO

X9.28 All body features considered as standard, but not specifically addressed:

X9.29 Does the proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changes YES NO

X10.1 Pump System:

- X10.1.1 Pump: Variable volume pressure compensated load sensing axial piston type
 YES NO
- X10.1.2 Front mounting flange and main housing/case of cast iron construction YES NO
 Inlet and outlet port section of high strength ductile iron with SAE split flange porting or orb type porting
 YES NO
- X10.1.3 Is suction port and associated plumbing sized to allow for minimum inlet restriction between the pump and the suction port on the reservoir?
 YES NO
 Does installation comply with pump manufacturers allowable inlet condition specifications
 YES NO
 Is suction plumbing equal to or greater than pump inlet or suction size YES NO
- X10.1.4 Is pressure port of the SAE split flange or ORB type side mounted for direct bolt mounting of solenoid shut down valve assembly
 YES NO
- X10.1.5 Case drain and load sense signal ports of the SAE O-ring type YES NO
 Case drain line taken directly to tank without passing through the return line filter
 YES NO
- X10.1.6 Input shaft has a minimum continuous torque rating equal to 200 % of the imposed load when pump is operated at maximum engine rpm, maximum displacement and system pressure
 YES NO
 Is it minimum SAE "C" keyed YES NO
- X10.1.7 Front input shaft bearing heavy duty ball or roller type designed for high axial and radial loading
 YES NO
 Rear shaft bearing of the high speed and load sleeve type design YES NO
 Bearings fully lubricated by flooded case oil YES NO
- X10.1.8 Ramp/swashplate supported by pressure lubricated bearings of the rocker cam or saddle type for high piston load support
 YES NO
 Ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control
 YES NO
- X10.1.9 Adjustable load sense and high pressure compensator control valve assembly of the full cartridge or of bolt on housing design for ease of replacement and repair YES NO

X10.1.9.1 System design and components provide flow, pressure and performance requirements 76 with a maximum operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency.

If pilot control shifted valving is used, is it designed to be fully functional within this pressure range X YES NO

X10.1.9.2 High pressure compensator valve preset to limit the maximum pump output pressure to maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output X YES NO

X10.1.10 Pump Output: Is it capable of providing hoist cylinder extension required X YES NO

Part number MAILHOT MODEL CS 135-6-3 - 15.5 gallons to fully extend but after filling 11 gallons is required to raise the cylinder:

10 GPM flow rate	<u>66</u>	seconds to raise
15 GPM flow rate	<u>44</u>	seconds to raise
20 GPM flow rate	<u>33</u>	seconds to raise
25 GPM flow rate	<u>26</u>	seconds to raise
30 GPM flow rate	<u>22</u>	seconds to raise
35 GPM flow rate	<u>19</u>	seconds to raise
40 GPM flow rate	<u>16</u>	seconds to raise

Part number MAILHOT MODEL CS 135-6-3 - 10.2 gallons to fully extend 1.2 gallons to fill and 9 gallons to extend

5 GPM flow rate	<u>87</u>	seconds to raise
10 GPM flow rate	<u>44</u>	seconds to raise
15 GPM flow rate	<u>29</u>	seconds to raise
20 GPM flow rate	<u>22</u>	seconds to raise
25 GPM flow rate	<u>17</u>	seconds to raise
30 GPM flow rate	<u>15</u>	seconds to raise
40 GPM flow rate	<u>11</u>	seconds to raise

X10.1.11 Is the make and model bid in compliance with overall quality of construction, design, and performance of the pump supplied X YES NO

X10.1.12 Pump: Manufacturer and Model: REXRQTH A10V071 SERIES 31

X10.1.13 Is pump manufacturers standard product release and design X YES NO

X10.1.14 Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump X YES NO

- X10.1.14.1 Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements YES NO
 Manufacturer and Model: SPICER 1310 SERIES
- X10.1.14.2 Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees YES NO
- X10.2 Pump Shutdown System:
- X10.2.1 Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port YES NO
 Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiring YES NO
- X10.2.2 Is valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level YES NO
- X10.2.3 Pressure drop across valve 40 PSI at 40 GPM flow when in the switched open position
 Nominal valve rating 50 GPM at 3500 PSI
- X10.2.4 SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position YES NO
- X10.2.5 Valve designed to protect the pump from damage when the system is shut down at high pressure and flow operation YES NO
- X10.2.6 Valve manufacturer and model: COMPONENT TECHNOLOGY
- X10.2.7 Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown YES NO
- X10.2.8 Warning lamp press-to-test light and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connection YES NO
- X10.2.9 A console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situations YES NO
- X10.3 Directional Control Valve Assembly:
- X10.3.1 Valve stacked section type and of closed center circuit design YES NO

- X10.3.2. Each work section pressure and flow compensated with fully integrated load sense network 78
 YES NO
 Flow output is relative to spool travel with preset maximum flow rate obtained at maximum spool stroke providing feathering control of operated function YES NO
- X10.3.3 Dump body, snowplow lift, and snowplow power angle sections of the manual cable shift type
 YES NO
 Auxiliary circuit section of the electric solenoid shift type YES NO
 Both ends of each section valve spool sealed with weather resistant caps or cable entry bonnets
 YES NO
- X10.3.4 Valve assembly flow capacity rating and pressure drop characteristics sufficient to provide for the required pump output and circuit flow rates at the specified maximum load sense differential pressure settings
 YES NO
- X10.3.5 All valve ports of the SAE o-ring seal type and of sufficient size to handle required section flow rates at stated load sense differential pressure
 YES NO
- X10.3.6 A priority section installed to allow plow to raise in a system over demand situation
 YES NO
- X10.3.7 Main pressure inlet relief valve provided to reduce system pressure shock loads
 YES NO
 Is it preset at pressure so as not to interfere with pump pressure compensator and to prevent premature relief opening at system high demand operation YES NO
- X10.3.8 If pilot pressure reducing valve is required for solenoid section control, design meets operating requirements as set forth in Section 10.1.9.1
 YES NO
 Pilot supply and tank venting internal within the valve assembly section YES NO
- X10.3.9 Load sense network high pressure relief provided and preset to limit system maximum operating pressure
 YES NO
 Set point provides proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability
 YES NO
- X10.3.10 SAE #6 gauge Oport equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing to be installed in an easily accessible location
 YES NO
- X10.3.11 Dump body control section 3-way three (3) position spring centered cylinder spool for operation of a single acting hoist cylinder
 YES NO

X10.3.11.1 Full flow workport relief valve installed in power up port YES NO 79

Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure rating YES NO

X10.3.11.2 Adjustable flow control installed to limit downward speed rate of dump body YES NO

X10.3.12 Snowplow lift control section is 3-way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder YES NO See Adem z

X10.3.12.1 Full flow workport relief valve preset at maximum required unlock pressure installed in power down workport YES NO

Workport relief valve installed in power up workport if maximum system pressure output setting exceeds normal operating pressure limit of plow lift cylinder YES NO

Is a three (3) way valve provided for plow hoist circuit YES NO

X10.3.12.2 Adjustable flow control installed to limit downward speed of snowplow YES NO

Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiency YES NO

Will flow limit be determined at time of pilot model review YES NO

X10.3.13 Snowplow power angle control section is 4 way three (3) position spring centered motor spool for operation of worm gear driven type reversing system YES NO

X10.3.13.1 Flow limiting control system preset for proper plow reversing speed to be supplied to reduce over demand operation and to increase system efficiency YES NO

Will flow limit be determined at time of pilot model review YES NO

X10.3.14 Plow Balance Valve:

X10.3.14.1 Is hydraulic system supplied with a plow balance valve YES NO

X10.3.14.2 Is valve designed to offset a specific (adjustable) plow weight when activated YES NO

X10.3.14.3 Does plow balance system not alter the operation of any other hydraulic function or have an adverse effect on the performance of other hydraulically operated equipment including:

- Wing Plow YES NO
- Body Hoist YES NO
- Plow Hoist or Angle YES NO
- Spreader functions YES NO

Are all normal operations of the plow lift/lower functions maintained without additional tasks YES NO

X10.3.14.4 Will plow lift be immediate to guarantee safe operation of the vehicle YES NO

X10.3.14.5 Are solenoid valve coils used YES NO
Will they have manual override capabilities YES NO

X10.3.14.6 Does manifold valve include a pressure test point for use when checking balance pressures YES NO

X10.3.14.7 Is pressure test point capable of tapping into system at pressures of 5,000 PSI YES NO

X10.3.15 Auxiliary equipment drive circuit control section 3-way three (3) position spring centered solenoid operated motor spool YES NO

Is the circuit separate and distinct from the spreader control system YES NO

X10.3.15.1 Flow limiting control system preset to provide 22 GPM at a system load pressure of 2200 PSI. Pump is capable of supplying this flow rate with engine speed of 1173:67RPM

X10.3.15.2 Is an inline mounted control valve supplied for this operation in place of directional control valve section YES NO

If supplied, is proper interconnections and venting of load sense network system provided YES NO

X10.3.15.3 Is pressure line 3/4" SAE 100R2 hose and manifold mounted at rear of chassis and equipped with Parker Hannifin SH6-62 quick disconnect coupler and protective metal plug YES NO

Is mating nipple SH6-63 with protective cap supplied YES NO

Will mounting location be determined at time of pilot model review YES NO

X10.3.15.4 Manufacturer and model of directional and auxiliary circuit valves:

REXROTH MP-18 SERIES

X10.3.16 Is directional control valve assembly located in a combination tank/valve enclosure assembly to protect the hydraulic tank/valve from the elements YES NO

Capacity of reservoir (tank) 40 gallon

X10.3.17 Pre-Wet Circuit:

- X10.3.17.1 Is a separate circuit provided to control an add-on pre-wet system YES NO
- X10.3.17.2 Is hydraulic valve of the sectional type YES NO OR of the cartridge style contained in a manifold YES NO
- X10.3.17.3 If manifold type valve is supplied, it it attached to the main valve assembly YES NO
- X10.3.17.4 Is all wiring to pre-wet hydraulic circuit provided as part of the system contained in the bid YES NO
- X10.3.17.5 Is wiring to the control console related to the rest of the pre-wet system (low level float, flow meter connection, etc.) provided as part of the pre-wet package at the time of pre-wet system install YES NO

X10.4 Spreader Control Valve Assembly:

- X10.4.1 Are spinner and conveyor solenoid flow controls of the PWM proportional solenoid type and equipped with manual overrides YES NO
- Are overrides manually adjustable over operating flow range in the event of electrical system failure YES NO
- X10.4.2 Flow control circuits are pressure compensated YES NO
- Provides spinner and pre-wet flow rate of 7 GPM and a conveyor flow rate of 15 GPM
- Pressure relief valve system limit circuits to 2200 PSI
- X10.4.3 Load sense circuits connected to directional control valve network for proper pump control YES NO
- Does design prevent improper high pressure load sense signal and pressure line loading when spreader valve is not in use and when spreader quick disconnects are uncoupled YES NO
- X10.4.4 Is PWM solenoid control supplied by microprocessor spreader control system YES NO
- Are solenoids capable of 100% PWM signal without failure YES NO
- X10.4.5 Solenoid operated directional control valve and in-cab mounted electrical switch operates spreader conveyor reverse required for front or rear material discharge selection provided YES NO
- X10.4.6 Is electrical switching and indicator light for spreader clogged indication provided YES NO
- X10.4.7 Manufacturer and model of valve: REXROTH MP18 SERIES

X10.5 Spreader Control System:

- X10.5.1 Dual flow, ground speed oriented spreader control system of the closed loop microprocessor based type with nonvolatile control memory X YES NO
- X10.5.2 Automatic calibration and flexibility of programming X YES NO
- X10.5.3 System is capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and fully functional in both front and rear material discharge selection X YES NO
- X10.5.4 Automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal is provided X YES NO
- X10.5.5 Control console digital readouts capable of displaying actual application rate, vehicle ground speed, distance of spread route driven and total quantity of material spread X YES NO
- X10.5.6 Programming and output cable connection for material and trip information printer and program uploading is provided X YES NO
- X10.5.7 Control unit capable of accumulating display information up to 999,999 miles and 999,999 tons of discharged material X YES NO
- X10.5.8 Console programming capable of selection, calibration and display of four (4) separate spread materials with independent application rates of each material capable of being set to fixed rates or to rate increments of a preset maximum application rate X YES NO
- X10.5.9 A variable digital access code lockout for application rate selection and for system operating parameters is provided X YES NO
- Is it a key switch X YES NO
- X10.5.10 Backlighted switches and LCD screen utilized for on-board programming and for display readout and application rate selection X YES NO
- X10.5.11 Is material spread width selectable by no less than 10 position switch with minimum and maximum spinner speed totally programmable through entire flow range X YES NO
- Is spinner speed capable of linking to ground speed for on-off control X YES NO
- X10.5.12 Does display enunciate error message and sound audio alarm when microprocessor system detects any loss of control or accuracy X YES NO
- X10.5.13 Will system be fully functional at time of delivery X YES NO
- X10.5.14 Is truck speed sensor compatible with type of speedometer drive system supplied on chassis X YES NO
- X10.5.15 Is a built-in ground speed simulator provided either internal to the control or located in the control console X YES NO

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- X10.5.16 Are all components required for proper installation and operation of control system onto truck and spreader units supplied YES NO
- X10.5.17 Manufacturer and model of proposed control system:
COMPONENT TECHNOLOGY SG51 SG53 W/ GL400 CONTROL
- X10.6 Central Control Console:
- X10.6.1 Mounted between seats within easy access of the driver YES NO
- X10.6.1.1 Warning light (bed raised) control console mounted YES NO
- X10.6.2 Will all wiring, valve control cables and electrical harness entry into cab and console sealed with grommets YES NO
- X10.6.3 Are remote control valve levers console mounted YES NO
- Are all levers clearly marked as to function and operation YES NO
- X10.6.3.1 Remote control levers to operate push-pull type cables with .250" diameter stainless steel rod ends YES NO
- X10.6.3.2 Is inner cable member 18-8 stainless steel armor wrapped construction with a low resistance nylon liner and polyethylene covered tempered steel wire conduit YES NO
- X10.6.3.3 Is cable to valve connection of the weather resistant bonneted type YES NO
- X10.6.3.4 Hoist control lever OSHA compliant (hoist interlock) YES NO
- X10.6.4 Are central console or dash mounted rocker switches with indicator lamps provided for strobe lights, spreader light and plow lights isolated from all hydraulic system control circuits YES NO
- X10.6.4.1 Are interconnections and cables installed and ready for operation YES NO
- X10.6.4.2 Is hydraulic system automatic shutdown system and control switching relay controlled YES NO
- X10.6.4.3 Relay(s) mounted within the cab YES NO
- X10.6.4.4 An access plate to internal wiring is provided YES NO
- X10.7 Hydraulic Reservoir:
- X10.7.1 Tank/valve enclosure flex mounted to the chassis frame rail YES NO
- X10.7.2 Tank constructed of 7 gauge 304 stainless steel YES NO
- X10.7.3 Tank equipped with a combination oil level sight glass and thermometer YES NO

- X10.7.4 Tank equipped with a pressurized ten (10) micron filter/breather cap with removable 500 micron Strainer YES NO
- X10.7.5 Is an internal steel baffle provided within the tank YES NO
- X10.7.6 Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil" YES NO
- X10.7.7 Tank level switch connection "SO" type wiring and flange mounted within the tank/valve enclosure to protect it from the elements YES NO
- X10.7.8 Pump supply suction port 2 inches NPT and system report port 1.25 inches NPT
- X10.8 Filtration:
- X10.8.1 Manufacturers standard filtration to adequately protect the hydraulic system from damage YES NO
- X10.8.2 Return line filter isolated from reservoir by a full flow non-restrictive type quarter turn brass ball valve if filter not installed in reservoir YES NO
- X10.8.3 Each filter equipped with a differential pressure switch to indicate filter clogged condition by means of a console mounted indicator lamp YES NO
- X10.8.4 One (1) extra replacement filter for each assembly is provided for each truck YES NO
- X10.8.5 Filter assemblies positioned as close to reservoir as possible and in an easily accessible service location YES NO
- X10.9 Hoses and Fittings:
- X10.9.1 Each hose assembly (hose with hose ends) except for suction hose is fitted with JIC swivel connections on ends where connection to system component is made YES NO
- X10.9.2 All pressure line hoses meet or exceed SAE Specification 100R2 and are equal to Gates high pressure hose, type C2AT for sizes up to and including 1 inch ID YES NO
- X10.9.3 Suction hose 2 inch nominal ID and meet SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings YES NO
- X10.9.4 All hydraulic hoses fully cleaned on interior, installed, and ready for operation YES NO
- X10.9.5 Are grommets used when routing hoses through steel bracketing or frame members YES NO
- X10.9.6 Are Snap-Tite quick disconnects (manifold mounted) supplied for forward and rear spinner 1/2 inch pressure and return lines YES NO
- Is iron or galvanized iron pipe for fittings and connectors used YES NO
- X10.9.7 Are all fittings and connectors steel type designed for high pressure hydraulic system use YES NO

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X10.9.8 Pipe thread ported components and connectors are only used when the specific component is not available with SAE or JIC porting YES NO

X10.9.9 Are all pipe thread connectors used coated with liquid Teflon pipe sealer prior to assembly YES NO

X10.9.10 Hoses that run to the front of truck chassis for snowplow functions are manifold mounted behind the front bumper with sufficient access for pump service and snowplow hitch installation YES NO

X10.9.11 Are snowplow lines equipped with complete 1/2 inch "VH" series Snap-tite quick disconnects (coupler and nipple supplied) and metal caps and plugs YES NO

X10.10 Items not specifically stated but are necessary for proper system installation and operation are supplied and comply with recommended hydraulic industry standards:

X10.11 Will initial servicing and pre-testing of hydraulic system be included for:

X10.11.1 Initial fill of reservoir with a high grade 32 AW hydraulic fluid to approximately 40 gallon level, marked on sight glass YES NO

X10.11.2 Start-up and initial run of hydraulic system, checking for leaks, excessive heat, system efficiency YES NO

Will you replace any defective component YES NO

Will you cover any defects discovered at time of plow installation if equipment is not available at time of initial test of plow circuits YES NO

X10.11.3 Refill reservoir to the 40 gallon operating level YES NO

X10.12 If any hydraulic lines are located within 10 inches of exhaust system are they metal lines and insulated YES NO

X10.13 Are detailed component specifications, product literature, system component layout drawing with bill of materials and full functional hydraulic system schematics in accordance with JIC and ANSI-Y32 format attached with your bid YES NO

X10.14 If successful vendor, will you provide WVDOH with a complete list of all filters required for normal maintenance on proposed unit YES NO

X10.15 Explain your training sessions with each purchase order covering the operation, maintenance, trouble shooting and calibration/programming of the hydraulic system and spreader controls and where will they be held:

THREE ONE DAY TRAINING SESSIONS PER P.O.

AGREEMENT ADDENDUM

In the event of conflict between this addendum and the agreement, this addendum shall control:

1. **ARBITRATION** - Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
2. **HOLD HARMLESS** - Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
3. **GOVERNING LAW** - The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
4. **TAXES** - Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
5. **PAYMENT** - Any references to prepayment are deleted. Payment will be in arrears.
6. **INTEREST** - Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
7. **RECOUPMENT** - Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
8. **FISCAL YEAR FUNDING** - Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
9. **STATUTE OF LIMITATION** - Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
10. **SIMILAR SERVICES** - Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
11. **ATTORNEY FEES** - The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
12. **ASSIGNMENT** - Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
13. **LIMITATION OF LIABILITY** - The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
14. **RIGHT TO TERMINATE** - Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
15. **TERMINATION CHARGES** - Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
16. **RENEWAL** - Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
17. **INSURANCE** - Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
18. **RIGHT TO NOTICE** - Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
19. **ACCELERATION** - Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
20. **AMENDMENTS** - All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:
STATE OF WEST VIRGINIA

Spending Unit: _____

Signed: _____

Title: _____

Date: _____

VENDOR

Company Name: WEST VIRGINIA TRUCK + TRAILER CO

Signed: [Signature]

Title: Sales Rep.

Date: 10/17/07

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: WEST VIRGINIA TRUCK & TRAILER CO

Authorized Signature: 

Date: 10/17/07

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 JOHN JOHNSTON
 State of West Virginia stae road bid
 707EC021
 ROUTE 33
 BUCKHANNON, WI 26201
 Phone: 304 472 1750

Prepared by:
 Dave Meeks
 WEST VIRGINIA TRUCK & TRAILER
 COMPANY
 1 Jain Dr.
 Cross Lanes, WV 25313
 Phone: 304-204-2435

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-72B	M2 PRL-72B (EFF:04/03/07)		
Data Version			
DRL-011	SPECPRO21 DATA RELEASE VER 011		
Vehicle Configuration			
001-174	M2 112V CONVENTIONAL CHASSIS	7,600	6,120
004-208	2008 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (WITH CALIFORNIA)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-010	DIRT/SAND/ROCK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1AE	FREIGHTLINER LEVEL II WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		



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Data Code	Description	Weight Front	Weight Rear
A63-99D	EXPECTED GROSS VEHICLE WGT CAPACITY : 64000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
* AA3-018	FRONT PLOW/END DUMP BODY		
A88-99D	EXPECTED TRUCK BODY LENGTH : 15.0 ft		
AF6-99D	EXPECTED EMPTY BODY CG LOC FROM BODY FRT : 6.5 ft		
AB3-998	NO REAR CROSSMEMBER RECESS LOCATION		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0		
Engine			
101-13X	MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM		
Electronic Parameters			
ED2-99D	ROAD SPEED LIMIT MPH : 70.0		
EC3-99D	MAX CRUISE CONTROL MPH : 70.0		
Engine Equipment			
99C-009	2007 EPA/CARB EMISSION CERTIFICATION		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
133-003	SIX PIECE VALVE COVER		
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER		
124-1DK	DR 12V 160 AMP 24-SI QUADRAMOUNT PAD ALTERNATOR		
292-059	(4) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT MAINTENANCE FREE 3040 CCA THREADED STUD BATTERIES	30	10
290-017	BATTERY BOX FRAME MOUNTED		
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB		
291-001	FRAME GROUND RETURN FOR BATTERY CABLES		
289-001	NON-POLISHED BATTERY BOX COVER		
295-998	NO JUMPSTART POST		
180-033	EATON FULLER 15-1/2" DAMPENED CERAMIC CLUTCH, 2 PLATE, 4 BUTTON, 7 SPRING, LOW RATE, EASY PEDAL		
183-008	TORQUE LIMITING CLUTCH BRAKE		
181-002	ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING		



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Data Code	Description	Weight Front	Weight Rear
182-002	MECHANICAL CLUTCH CONTROL		
107-005	WABCO 15.5 CFM AIR COMPRESSOR		
131-010	STEEL AIR COMPRESSOR DISCHARGE LINE WITH INTEGRAL QUICK CONNECT SYSTEM CHARGING VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-1AE	MERCEDES BENZ STANDARD COMPRESSION/TURBO BRAKE WITH (1) ON/OFF AND (1) LOW/MEDIUM/HIGH BRAKING SWITCH		
016-1BU	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT DEVICE WITH RH CAB MOUNTED VERTICAL TAILPIPE	70	30
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-038	11' 06" (138"+0/-5") EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)		
273-036	BORG WARNER (KYSOR) K26RA REAR AIR ON/OFF ENGINE FAN CLUTCH		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-040	MBE FUEL FILTER		
118-001	FULL FLOW OIL FILTER		
120-998	NO COOLANT FILTER		
266-057	1500 SQUARE INCH ALUMINUM RADIATOR		
* 103-004	ANTIFREEZE TO -34F, TEXACO EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-998	NO RADIATOR DRAINCOCK		
360-016	1310 ADAPTER FLANGE FOR FRONT PTO PROVISION		
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
155-059	mitsubishi 12V 105P55 TYPE STARTER WITH INTEGRATED MAGNETIC SWITCH		



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Data Code	Description	Weight Front	Weight Rear
Transmission			
342-444	EATON FULLER RTO-14908LL TRANSMISSION	80	20
Transmission Equipment			
343-998	NO WRG/ELECTRONICS-TRANSMISSION		
353-023	VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED END OF FRAME		
34C-998	NO AUX/ACC TRANSMISSION WIRING		
347-002	ALUMINUM CLUTCH HOUSING	-50	
362-998	NO MAIN TRANSMISSION MOUNTED PTO		
363-998	NO PTO MOUNTING LOCATION SPECIFIED		
341-017	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN		
345-001	PAINTED SHIFT LEVER, SOLID LINKAGE		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	15	
Front Axle and Equipment			
400-1AB	MFS-18-133A 18,000# FL1 SINGLE FRONT AXLE	250	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-021	CHICAGO RAWHIDE SCOTSEAL PLUS XL FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-008	GUNITE AUTOMATIC FRONT SLACK ADJUSTERS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		
534-003	4 QUART POWER STEERING RESERVOIR	5	
533-001	OIL/AIR POWER STEERING COOLER		
Front Suspension			
620-006	20,000# FLAT LEAF FRONT SUSPENSION	300	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS	50	
Rear Axle and Equipment			



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Data Code	Description	Weight Front	Weight Rear
420-111	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE		490
421-456	4.56 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-015	18T MERITOR MAIN DRIVELINE WITH HALF ROUND YOKES	50	50
388-025	17T MERITOR INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		40
878-023	(1) DCDL FORWARD AND REAR, REAR AXLE VALVE AND (1) INTERAXLE LOCK CONTROL VALVE		
87A-001	BLINKING LAMP WITH EACH MODE SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
87B-005	BUZZER AND BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE		
595-026	MOBIL SYNTHETIC 50W TRANSMISSION OIL AND 75W-90W ALL AXLES		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		20
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-002	HIGH MOUNT CAM BRAKE CHAMBER POSITION WITH AUXILIARY SUPPORT BRACKETS		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-021	CHICAGO RAWHIDE SCOTSEAL PLUS XL REAR OIL SEALS		
426-075	HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-008	GUNITE AUTOMATIC REAR SLACK ADJUSTERS		
Rear Suspension			
622-1CJ	HENDRICKSON RT463 REAR SUSPENSION @ 46,000#		830
621-016	HENDRICKSON RT/RTE - 7.19" SADDLE		
624-011	52" AXLE SPACING		
628-005	STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS		
623-005	FORE/AFT CONTROL RODS		
Brake System			
018-002	AIR BRAKE PACKAGE		



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Data Code	Description	Weight Front	Weight Rear
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL ENHANCEMENT		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
412-001	STANDARD BRAKE SYSTEM VALVES		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	40	
460-001	STEEL AIR BRAKE RESERVOIRS		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
Trailer Connections			
914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK		
296-010	PRIMARY CONNECTOR/RECEPTACLE CENTER PIN POWERED THROUGH IGNITION		
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
Wheelbase & Frame			
545-487	4875MM (192") WHEELBASE		
546-102	7/16" X 3-9/16" X 11-1/8" STEEL FRAME (11.11MM X 282.6MM/.437" X 11.13")120KSI	410	190
552-028	1525MM (60") REAR FRAME OVERHANG		
55W-005	FRAME OVERHANG RANGE: 51" TO 60"		
549-016	24" INTEGRAL FRONT FRAME EXTENSION WITH 0.25" INSERT	250	-30
560-001	UNDERSLUNG CROSSMEMBER		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
572-001	STANDARD REARMOST CROSSMEMBER		
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		
Chassis Equipment			
*	556-997 OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203		
	558-001 FRONT TOW HOOKS - FRAME MOUNTED	15	
*	574-998 NO LICENSE PLATE MOUNTING		



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Data Code	Description	Weight Front	Weight Rear
607-014	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS INSIDE/OUTBOARD AND BELOW		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			
206-998	NO RH FUEL TANK	-45	-10
204-151	60 GALLON/227 LITER ALUMINUM FUEL TANK - LH	80	25
218-001	23" DIAMETER FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
205-001	FUEL TANK CAP(S)		
122-081	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH HEATED BOWL, PRIMER PUMP AND INDICATOR LIGHT		
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-003	REINFORCED NYLON FUEL HOSE		
221-998	NO FUEL COOLER		
Tires			
514-064	315/80R22.5 20 PLY RADIAL FRONT TIRES		
093-0VC	GOODYEAR G287 315/80R22.5 20 PLY RADIAL FRONT TIRES	82	
516-019	11R22.5 16 PLY RADIAL REAR TIRES		
094-1A4	GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES		224
Hubs			
418-045	CONMET PRE-SET BEARING IRON FRONT HUBS		
450-045	CONMET PRE-SET BEARING IRON REAR HUBS		
Wheels			
502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	50	
505-577	ACCURIDE 29637 22.5X8.25 10-HUB PILOT 10-HAND HSLA STEEL DISC REAR WHEELS		-104
* 498-005	NYLON WHEEL GUARDS, ALL INTERFACES REAR WHEELS ONLY		
Cab Exterior			
829-072	112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTS		



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Data Code	Description	Weight Front	Weight Rear
754-008	2-1/2" FENDER EXTENSIONS	10	
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
646-007	PAINTED STATIONARY GRILLE TRIMMED FOR CHASSIS WITH FRONT FRAME EXTENSION		
65X-001	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-097	SINGLE 11" ROUND AIR HORN UNDER DECK		
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-043	INTEGRAL HEADLIGHT/MARKER ASSEMBLY		
302-001	(5) AMBER MARKER LIGHTS		
294-046	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TAIL WIRES TO 4' BEYOND END OF FRAME INCLUDE 8' OF WIRE ILO 4".		-5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102" EQUIPMENT WIDTH		
743-204	LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63"X14" TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-011	RH AND LH ELECTRIC POWERED WINDOWS	4	
663-013	TINTED WINDSHIELD		
659-006	8 LITER WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR
706-013	MOLDED PLASTIC DOOR PANEL
708-013	MOLDED PLASTIC DOOR PANEL
772-027	GRAY VINYL MATS WITH INSULATION



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Data Code	Description	Weight Front	Weight Rear
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
826-998	NO LOWER BUNK		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER	70	
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-031	SANDEN HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-028	EXTREME CLIMATE THERMAL CAB/SLEEPER INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-008	DOMELIGHT WITH 3-WAY SWITCH ACTIVATED BY LH DOOR(S)		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-081	BOSTROM TALLADEGA 910 HIGH BACK AIR SUSPENSION DRIVER SEAT		
760-081	BOSTROM TALLADEGA 910 HIGH BACK AIR SUSPENSION PASSENGER SEAT	30	10
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-025	GRAY MORDURA CLOTH DRIVER SEAT COVER		
761-025	GRAY MORDURA CLOTH PASSENGER SEAT COVER		
763-032	3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-015	4-SPOKE 18" (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls



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Data Code	Description	Weight Front	Weight Rear
870-001	BLACK GAUGE BEZELS		
732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
486-001	LOW AIR PRESSURE LIGHT AND BUZZER		
840-002	2" PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-011	ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3		
160-012	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1587/1708/1939, LOCATED BELOW DASH		
844-001	2" ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
* 867-002	PANASONIC INSIDE/OUTSIDE TEMPERATURE GAUGE WITH BLACK BEZEL AND LCD FAHRENHEIT DISPLAY		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1AF	AM/FM/WB RADIO	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
748-998	NO CB RADIO/PROVISION		
749-998	NO CB RADIO MOUNTING PROVISION		
752-998	NO CB ANTENNA, BRACKET OR LEAD		
78C-998	NO DIGITAL SATELLITE AUDIO RECEIVER ANTENNA		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
* 817-005	STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE		
812-001	ELECTRONIC 3000 RPM TACHOMETER		



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Data Code	Description	Weight Front	Weight Rear
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-012	FOUR EXTRA SWITCHES IN DASH WITH INDICATOR LAMP AND WIRE TO CHASSIS AT BACK OF CAB/SLEEPER		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER BRAKE VALVE, HAND CONTROL		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES		
* 304-002	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND SWITCH AND TERMINALS FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS TIE STRAP CONTROL MODULES TO FRAME.		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

065-000 PAINT: ONE SOLID COLOR

Color

980-3AF CAB COLOR A: N0010EA WHITE ELITE SS
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
 962-974 ACCURIDE PKGRY21 POWDER GRAY (N0020EA) FRONT WHEELS/RIMS
 966-974 ACCURIDE PKGRY21 POWDER GRAY (N0020EA) REAR WHEELS/RIMS

Secondary Factory Options

998-001 CORPORATE PDI CENTER IN-SERVICE ONLY

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary



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	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	9585 LBS	7930 LBS	17515 LBS
Total Weight⁺	9585 LBS	7930 LBS	17515 LBS

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

PMQ-207 2007 ENGINE EMISSIONS ESCALATOR
 DELIVERY & ORDER PROCESSING CHARGE

Extended Warranty

WAH-023 EXTENDED VEHICLE WARRANTY 2 YEARS OR 100,000 MILES/160
 000 KM

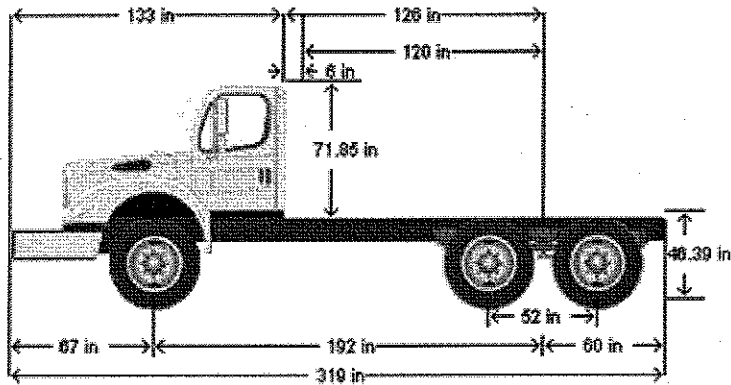
(+) Weights shown are estimates only.
 If weight is critical, contact sales application engineering.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... M2112V
 Wheelbase (545)..... 4875MM (192") WHEELBASE
 Rear Frame Overhang (552)..... 1525MM (60") REAR FRAME OVERHANG



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Maximum Forward Position () N/A
 Maximum Rearward Position () 0
 Amount of Slide Travel () N/A
 Slide Increment () N/A
 Desired Slide Position () 0.0
 Cab Size (829) 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Sleeper (682) NO SLEEPER BOX/SLEEPER CAB
 Exhaust System (016) RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT DEVICE WITH RH CAB MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

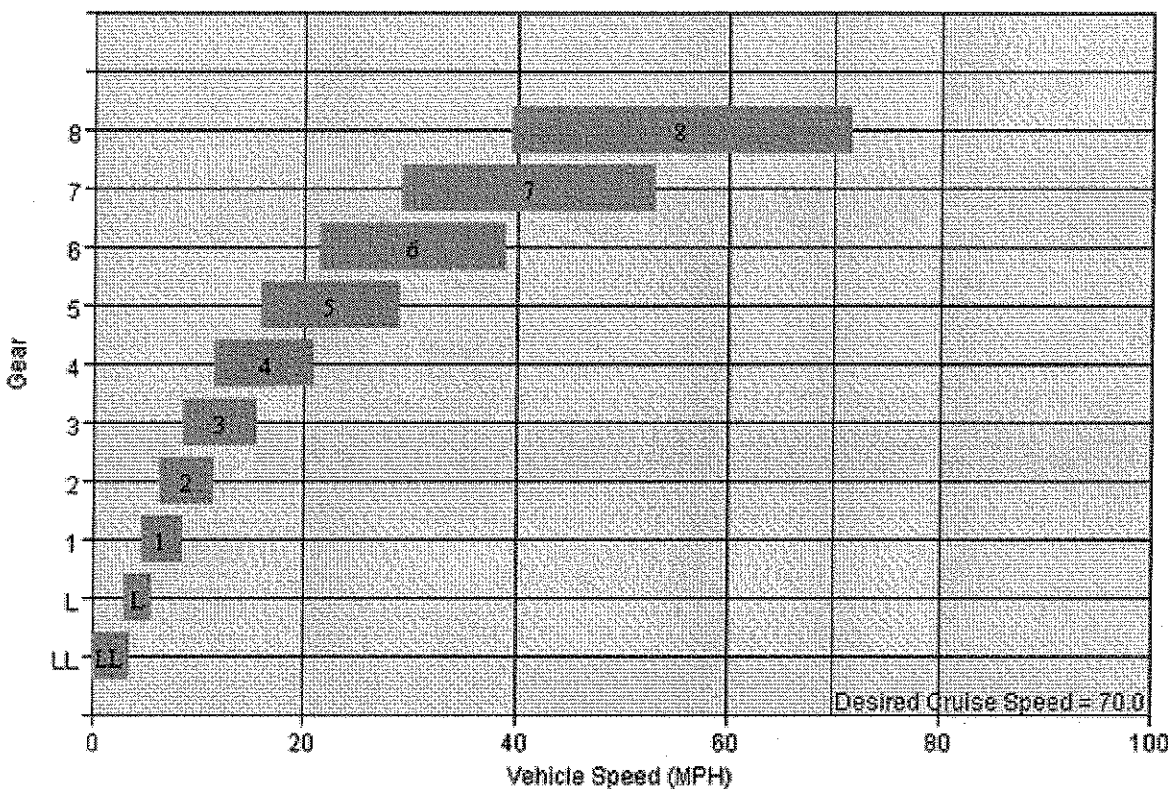
Dimensions	Inches
Bumper to Back of Cab (BBC)	132.9
Bumper to Centerline of Front Axle (BA)	67.3
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	126.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	120.2
Back of Cab Protrusions (Exhaust/Intake) (CP)	6.2
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Clearance (CL)	6.2
Back of Cab to End of Frame	186.4
Cab Height (CH)	71.9
Wheelbase (WB)	192.0
Frame Overhang (OH)	60.0
Overall Length (OAL)	319.3
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	46.4



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OPERATING RANGE



VEHICLE SPECIFICATIONS SUMMARY - OPERATING RANGE

Model..... M2112V
 Cab Size (829)..... 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Desired Cruise Speed (mph)..... 70.0



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Engine (101)	MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM
RPM at Peak Torque	1100
Governed RPM	2000
Transmission (342)	EATON FULLER RTO-14908LL TRANSMISSION
Gear Ratio: LL	14.56
Gear Ratio: L	9.42
Gear Ratio: 1	6.24
Gear Ratio: 2	4.63
Gear Ratio: 3	3.4
Gear Ratio: 4	2.53
Gear Ratio: 5	1.83
Gear Ratio: 6	1.36
Gear Ratio: 7	1
Gear Ratio: 8	0.74
Gear Ratio: 9	N/A
Gear Ratio: 10	N/A
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Low Gear Ratio	N/A
High Gear Ratio	N/A
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.56 REAR AXLE RATIO
Rear Tires (094)	GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	497

TABLE SUMMARY - OPERATING RANGE



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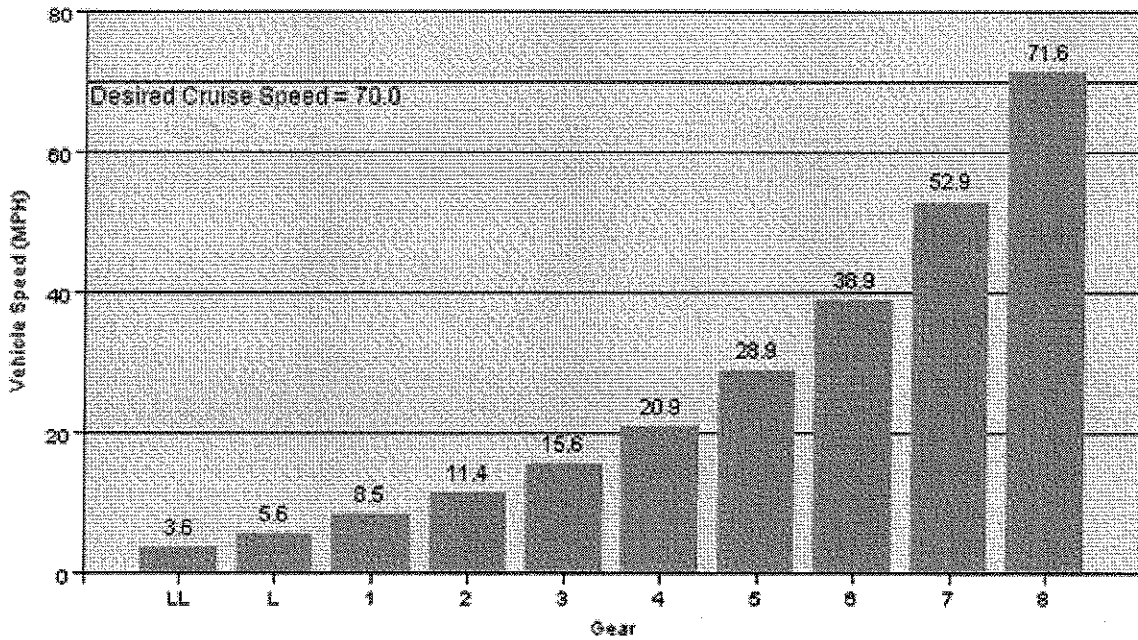
Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Minimum Speed (MPH)	Maximum Speed (MPH)
LL	14.56	4.56	66.39	0	3.6
L	9.42	4.56	42.96	3.1	5.6
1	6.24	4.56	28.45	4.7	8.5
2	4.63	4.56	21.11	6.3	11.4
3	3.40	4.56	15.50	8.6	15.8
4	2.53	4.56	11.54	11.5	20.9
5	1.83	4.56	8.34	15.9	29.9
6	1.36	4.56	6.20	21.4	38.9
7	1.00	4.56	4.56	29.1	52.9
8	0.74	4.56	3.37	39.4	71.8



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OPERATING SPEED



Rear Axle Ratio = 4.56

Engine RPM = 2000

VEHICLE SPECIFICATIONS SUMMARY - OPERATING SPEED

Model..... M2112V
 Cab Size (829)..... 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Top Speed (mph)..... 71.6



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Engine RPM.....2000.0
 Desired Cruise Speed (mph)..... 70.0
 Engine (101).....MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM
 Governed RPM 2000
 Transmission (342)..... EATON FULLER RTO-14908LL TRANSMISSION
 Rear Axle (420)..... RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
 Number of Speeds 1
 Rear Axle Gear Ratio(s)..... 4.56 REAR AXLE RATIO
 Rear Tires (094)..... GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
 Revolutions per Mile..... 497
 High Gear Ratio N/A
 Low Gear Ratio N/A
 High Gear Ratio N/A
 Low Gear Ratio N/A

TABLE SUMMARY - OPERATING SPEED

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)
LL	14.56	66.39	3.6
L	9.42	42.96	5.6
1	6.24	28.45	8.5
2	4.63	21.11	11.4
3	3.40	15.50	15.6
4	2.53	11.54	20.9
5	1.83	8.34	28.9
6	1.36	6.20	38.9
7	1.00	4.56	52.9
8	0.74	3.37	71.6
Desired Cruise Speed (mph)			70.0
Engine RPM			2000
Rear Axle Ratio			4.56

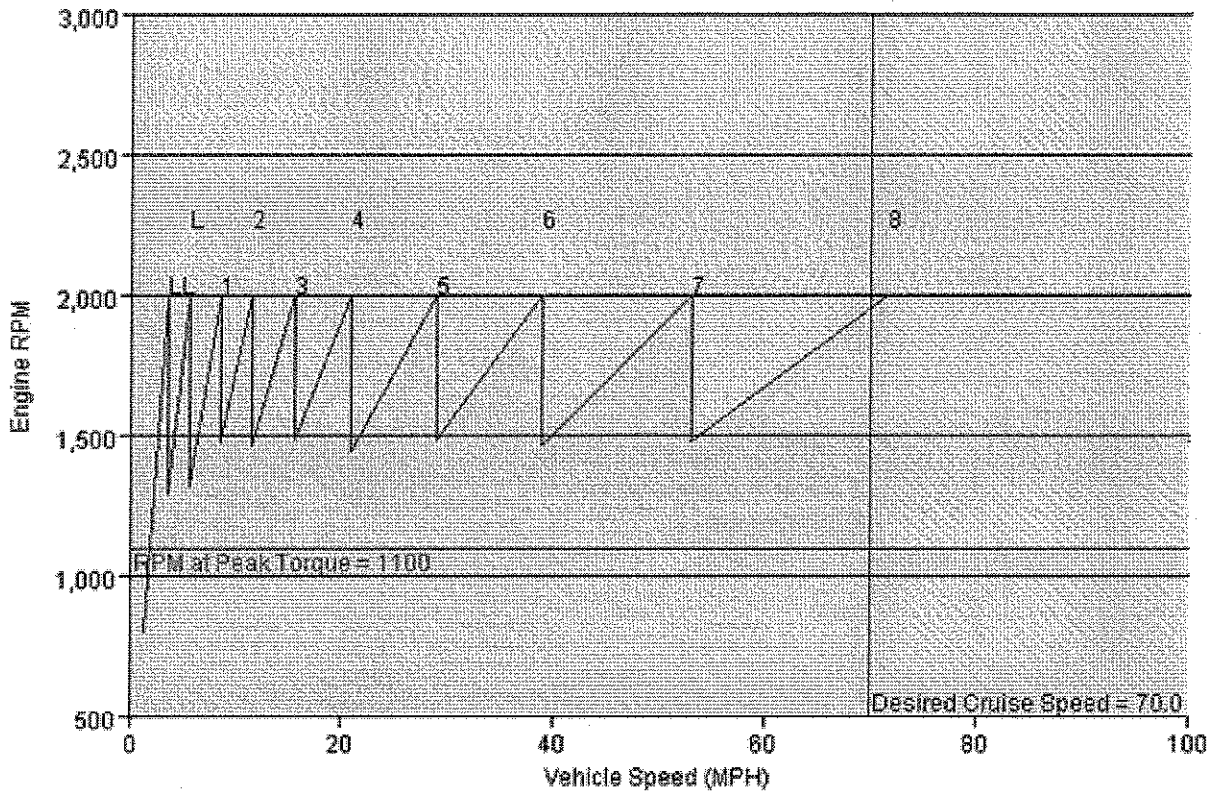
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SHIFT CHART



VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model M2112V
 Cab Size (829) 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Desired Cruise Speed (mph) 70.0



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Engine (101)	MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM
RPM at Peak Torque	1100
Governed RPM	2000
Transmission (342)	EATON FULLER RTO-14908LL TRANSMISSION
Gear Ratio: LL	14.56
Gear Ratio: L	9.42
Gear Ratio: 1	6.24
Gear Ratio: 2	4.63
Gear Ratio: 3	3.4
Gear Ratio: 4	2.53
Gear Ratio: 5	1.83
Gear Ratio: 6	1.36
Gear Ratio: 7	1
Gear Ratio: 8	0.74
Gear Ratio: 9	N/A
Gear Ratio: 10	N/A
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Low Gear Ratio	N/A
High Gear Ratio	N/A
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.56 REAR AXLE RATIO
Rear Tires (094)	GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	497

TABLE SUMMARY - SHIFT CHART



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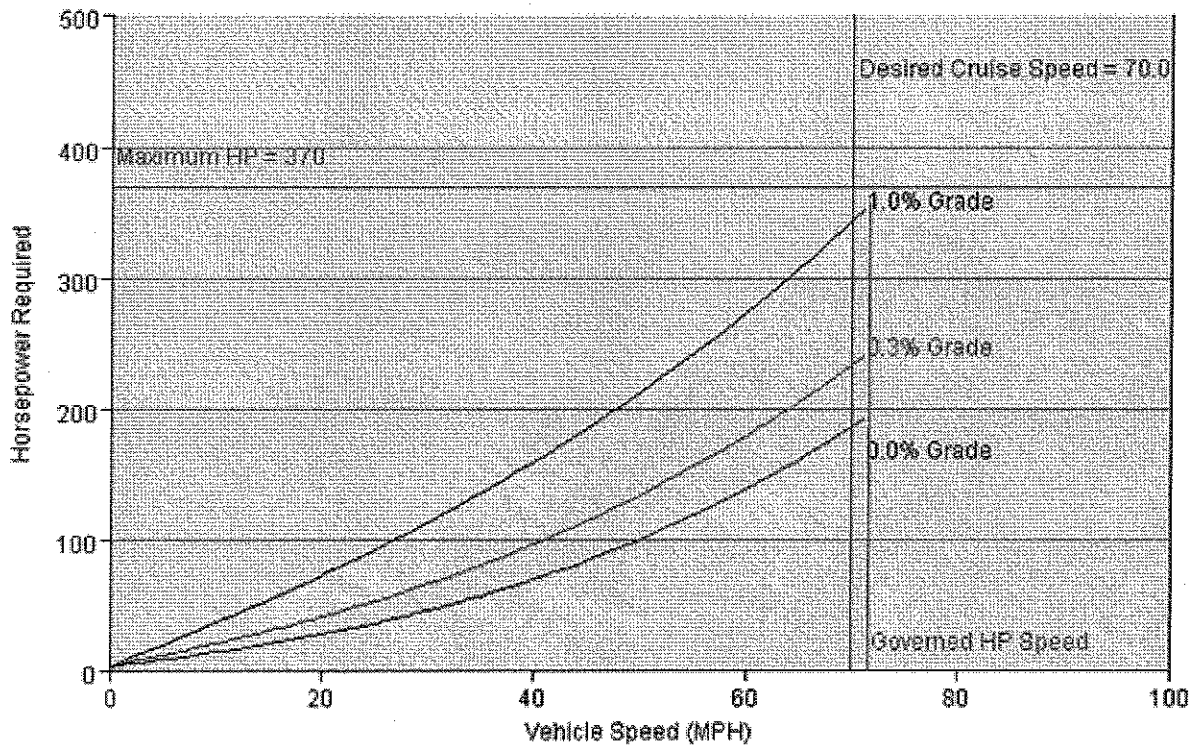
Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
LL	14.56	4.56	66.39	N/A	800	2.0	3.6
L	9.42	4.56	42.96	54.8	1294	3.1	5.8
1	6.24	4.56	28.45	51.0	1325	4.7	8.5
2	4.63	4.56	21.11	34.8	1484	6.3	11.4
3	3.40	4.56	15.50	36.2	1469	8.6	15.6
4	2.53	4.56	11.54	34.4	1488	11.5	20.9
5	1.83	4.56	8.34	38.3	1447	15.9	28.9
6	1.36	4.56	6.20	34.6	1486	21.4	38.9
7	1.00	4.56	4.56	36.0	1471	29.1	52.9
8	0.74	4.56	3.37	35.1	1480	39.4	71.8



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SPEEDABILITY



VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model M2112V
 Cab Size (829) 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Desired Cruise Speed (mph) 70.0



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Expected Front Axle(s) Load (lbs).....	18000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	64000
Expected GCW (lbs).....	80000.0
Engine (101).....	MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM
Governed RPM.....	2000
HP at Governed RPM.....	370
RPM at Max HP.....	1900
Max HP.....	370
HP at Governed RPM (High Torque).....	370
RPM at Max HP (High Torque).....	1900
Max HP (High Torque).....	370
Multi-torque.....	NO
Transmission (342).....	EATON FULLER RTO-14908LL TRANSMISSION
Rear Axle (420).....	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	4.56 REAR AXLE RATIO
Rear Tires (094).....	GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile.....	497
Trailer Width (').....	0.0
Trailer Height (ground to top) (ft).....	0.0
Body Width (').....	96.0
Body Height (ground to top) (ft).....	6.0
Road Surface (AB5).SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
High Gear Ratio.....	N/A
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Low Gear Ratio.....	N/A

TABLE SUMMARY - SPEEDABILITY



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Top Gear Speedability	At Max Power Speed	At Governed RPM Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	68.0	71.8	70.0
Engine RPM	1900	2000	1957
Gross Power Available (HP)	370	358	N/A
Power (HP) Required for:			
Level Road	177	195	187
0.3% Grade	223	244	234
1.0% Grade	329	356	344
*Blue background represents value input by user.			



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TURNING RADIUS

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model M2112V
Cab Size (829) 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545) 4875MM (192") WHEELBASE
Front Tires (093) GOODYEAR G287 315/80R22.5 20 PLY RADIAL FRONT TIRES
Width () 12.4
Front Axle (400) MFS-18-133A 18,000# FL1 SINGLE FRONT AXLE
Kingpin Intersection () 71
Bumper (556) CUSTOM FRONT BUMPER
Width () N/A
Bumper Miter to Front Axle () 67.307
Primary Steering Location (003) LH PRIMARY STEERING LOCATION
Steering Gear (536) TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Dual Steering Gear RCH45
Ram NONE
Rear Axle (420) RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
Rear Axle Spacing (624) 52" AXLE SPACING



FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)..... 4875MM (192") WHEELBASE
 Frame Rails (546)7/16" X 3-9/16" X 11-1/8" STEEL FRAME (11.11MM X 282.6MM/.437" X 11.13")120KSI(546)
 Yield Strength (psi).....120000
 Section Modulus (per rail) (cu in)..... 21.6
 RBM (per rail) (lbf-in).....2590000
 Inner Frame Reinforcement (547) 1/4" (6MM) C-CHANNEL PARTIAL INNER FRAME REINFORCEMENT AT FRONT
 SUSPENSION ONLY FOR SPLAY RAIL

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4875MM (192")
Frame	7/16" X 3-9/16" X 11-1/8" STEEL FRAME
Inner Fram	1/4" (6MM) C-CHANNEL PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION ONLY FOR SPLAY RAIL
Outer Fra	None
Yield Stren	120000
Section Mo	21.60
Frame RB	2590000



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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model M2112V
Cab Size (829) 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs) 18000.0
Expected Pusher Axle(s) Load (lbs) 0.0
Expected Rear Axle(s) Load (lbs) 46000.0
Expected Tag Axle(s) Load (lbs) 0.0
Expected GVW (lbs) 64000
Expected GCW (lbs) 80000.0
Front Axle (400) MFS-18-133A 18,000# FL1 SINGLE FRONT AXLE
Front Suspension (620) 20,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418) CONMET PRE-SET BEARING IRON FRONT HUBS
Front Disc Wheels (502) ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093) GOODYEAR G287 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402) MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536) TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420) RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622) HENDRICKSON RT463 REAR SUSPENSION @ 46,000#
Rear Hubs (450) CONMET PRE-SET BEARING IRON REAR HUBS
Rear Disc Wheels (505) ACCURIDE 29637 22.5X8.25 10-HUB PILOT 10-HAND HSLA STEEL DISC REAR WHEELS
Rear Tires (094) GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
Rear Brakes (423) MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES

TABLE SUMMARY - GVWR

Prepared for:
 JOHN JOHNSTON
 State of West Virginia stae road bid
 707EC021
 ROUTE 33
 BUCKHANNON, WI 26201
 Phone: 304 472 1750

Prepared by:
 Dave Meeks
 WEST VIRGINIA TRUCK & TRAILER
 COMPANY
 1 Jain Dr.
 Cross Lanes, WV 25313
 Phone: 304-204-2435

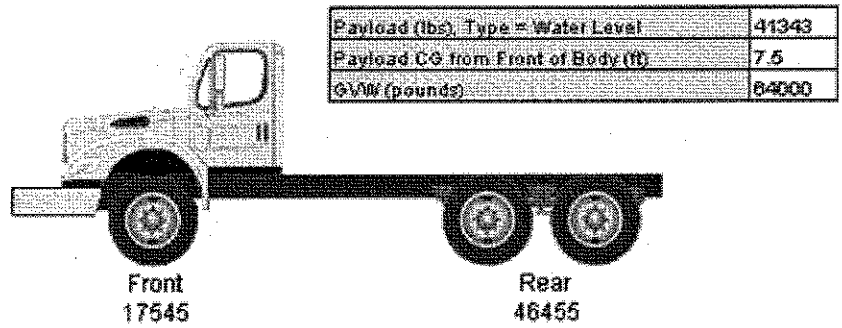
	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	18000	23000	23000
Suspension	20000	23000	23000
Hubs	23000	26000	26000
Brakes	20000	24999	24999
Wheels	20000	29600	29600
Tires	18180	24020	24020
Power Steering	20000	N/A	N/A
GAWR (per axle)	18000	23000	23000
GAWR (per axle system)	18000		46000
Expected Load (per axle system)	18000		46000
Vehicle GVWR Summary			
Calculated GVWR	64000		
Expected GVWR	64000		
All weights displayed in pounds			



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TRUCK WEIGHT



VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

Model..... M2112V
 Cab Size (829).....112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Expected Front Axle(s) Load (lbs).....18000.0



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Expected Pusher Axle(s) Load (lbs)	0.0
Expected Rear Axle(s) Load (lbs).....	46000.0
Expected Tag Axle(s) Load (lbs)	0.0
Expected GVW (lbs).....	64000
Expected GCW (lbs)	80000.0
Wheelbase (545).....	4875MM (192") WHEELBASE
Front Axle to Back of Cab ()	65.551
Cab to Body Clearance ().....	3.0
Front Axle to Body ()	71.771
Type of Truck Body (AA3).....	FRONT PLOW/END DUMP BODY
Body Length (ft).....	15.0
Body Weight (lbs).....	4300.0
Body Horiz CG from Body Front (ft).....	6.5
Body Front to Rear Axle(s) CL (ft)	10.02
Driver Weight (lbs)	200.0
Driver Horizontal CG from Front Axle ().....	30.693
Left-Hand Fuel Tank (204)	60 GALLON/227 LITER ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG ().....	47.852
Right-Hand Fuel Tank (206).....	NO RH FUEL TANK
Right Fuel Tank Horizontal CG ()	0

TABLE SUMMARY - TRUCK WEIGHT



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Item	Front(s)	Rear(s)	Total
Chassis Tare	9607	8130	17737
Fuel / Oil	315	105	420
Driver	168	32	200
Dealer Installed Options	0	0	0
Accessories	0	0	0
Body	946	3354	4300
Truck Tare Weight	11036	11621	22657
Payload	6608	34834	41343
Calculated Axle Loads	17545	46455	64000
Expected Axle Loads / GW	18000	46000	64000
GAWR / GWR	18000	46000	64000
Payload CG From Front of Body		7.5 feet	
Payload CG From Front Axle		13.5 feet	
Payload Distribution		Water Level	
All weights displayed in pounds.			

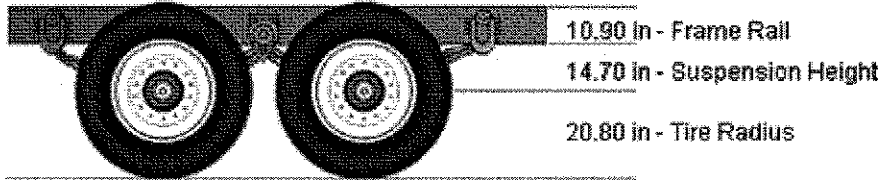


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UNLADEN FRAME HEIGHT

Unladen Height	Requested	Calculated
Frame (in)	N/A	46.40



VEHICLE SPECIFICATIONS SUMMARY - UNLADEN FRAME HEIGHT

Model..... M2112V
 Cab Size (829)..... 112" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Frame Rails (546)..... 11/32" X 3-1/2" X 10-15/16" STEEL FRAME (8.73MM X 277.8MM/.344" X 10.94") 120KSI(546)



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Web Height () 10.9375
Flange Thickness () 0.34375
Rear Suspension (622) HENDRICKSON RT463 REAR SUSPENSION @ 46,000#
Rear Suspension Ride Height (621) HENDRICKSON RT/RTE - 7.19" SADDLE
Axle C/L to Bottom of Frame () 14.699
Rear Tires (094) GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES
Unladen Radius () 20.75
Requested Min Height () 0.0
Requested Max Height () 2
Tow Device Height(588) null
Requested Min Height () 0.0
Requested Max Height () 0.0

