

State of West Virginia **Centralized Request for Quote** Equipment

Proc Folder:

1294516

Doc Description: ADDENDUM NO_3 Truck Mounted Culvert Cleaner

Reason for Modification:

Addendum No 3

Vendor Questions and Responses

Proc Type:

Central Master Agreement

Date Issued **Solicitation Closes** Solicitation No. Version 2023-10-13 2023-10-23 13:30 CRFQ 0803 DOT2400000023

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

2023 OCT 23 AMH: 48

VENDOR

Vendor Customer Code:

000000204452

Vendor Name:

West Virginia Tractor Company

Address:

PO Box 473

Street:

214 Virginia Street West

City:

Charleston

State:

WV

Country:

US

Zip: 25322

Principal Contact:

Gary Grady

Vendor Contact Phone:

304-346-5301

Extension:

FOR INFORMATION CONTACT THE BUYER

John W Estep 304-558-2566

john.w.estep@wv.gov

Vendor Signature X

FEIN#

550621655

10-17-23

All offers subject to all terms and conditions contained in this solicitation

Date Printed: Oct 13, 2023

Page: 1

FORM ID: WV-PRC-CRFQ-002 2020/05

ADDITIONAL INFORMATION

ADDENDUM NO 3

Addendum No_3 issued to publish and distribute the attached information to the Vendor Community.

REQUEST FOR QUOTATION:

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways, Department of Transportation to establish an open-end contract for a (WVDOH Class 813) Truck Mounted Culvert Cleaner Vactor Ramjet or Equal. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO .	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD GROSSING
BUCKHANNON WV US	BUCKHANNON WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Truck Mounted Culvert Cleaner	10.00000	EA		1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3

Comm Code	Manufacturer	Specification	Model #	
25101935				

Extended Description:

Truck Mounted Culvert Cleaner

SCHEDUL	LE OF EVENTS	
<u>Line</u>	Event	Event Date
1	Pre-Bid Equipment Division Buckhannon @ 11:00am	2023-10-05
2	Tech Questions due by 10:00am	2023-10-12

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ DOT2400000023

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

[x]	Addendum No. 1	[]	Addendum No. 6
[x]	Addendum No. 2	[]	Addendum No. 7
[X]	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
[]	Addendum No. 5	٢	1	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

1	Company
Toutre	A
10-17-23	Authorized Signature

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name a	ınd Title) Gar	ry Grady	Presiden	it
PO (Address)	Box 473 Cl	narleston	WV 25322	
(Phone Number) / (Fax Number	304-346	-5301	304-346-5305
(email address)	wvtracto	r@msn.com		

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn: that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

(Company)

(Signature of Authorized Representative)

Gary Grady President

(Printed Name and Title of Authorized Representative) (Date)

304-346-5301 304-346-5301

(Phone Number) (Fax Number)

wvtractor@msn.com

REQUEST FOR OUOTATION

(WVDOH CLASS 813) Truck Mounted Culvert Cleaner Vactor Ramjet Or Equal.

- 7.1.4 Failure to remedy deficient performance upon request.
- 7.2 The following remedy shall be available to Agency upon default.
 - 7.2.1 Immediate cancellation of the contract.
 - **7.2.2** Immediate cancellation of one or more release orders issued under this Contract.
 - **7.2.3** Any other remedies available in law or equity.

8. MISCELLANEOUS:

- 8.1 No Substitutions: Vendor shall supply only Contract Items submitted in Response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.
- 8.2 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.3 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Gary Grady
Telephone Number: 304-346-5301
Fax Number: 304-346-5305
Email Address: wvtractor@msn.com

WV-10 , Approved / Revised 06/08/18

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

		maphodolo.
1.	Application is made for 2.5% vendor prefere Bidder is an individual resident vendor and has resor corporation resident vendor and has maintain Virginia, for four (4) years immediately preceding	sided continuously in West Virginia, or bidder is a partnership, association
~	Bidder is a resident vendor partnership, associ of bidder held by another entity that meets the	ation, or corporation with at least eighty percent of ownership interest applicable four year residency requirement: or.
	Bidder is a nonresident vendor which has an affilia	te or subsidiary which employs a minimum of one hundred state residents
2. ~	Application is made for 2.5% vendor preferer Bidder is a resident vendor who certifies that, du working on the project being bid are residents of V immediately preceding submission of this bid; or	ring the life of the contract, on average at least 75% of the employees
3.	employs a minimum of one hundred state reside completing the project which is the subject of the average at least seventy-five percent of the hidden	inimum of one hundred state residents, or a nonresident vendor which headquarters or principal place of business within West Virginia and ents, and for purposes of producing or distributing the commodities or e bidder's bid and continuously over the entire term of the project, on er's employees or the bidder's affiliate's or subsidiary's employees are ne state continuously for the two immediately preceding years and the
4. 	Application is made for 5% vendor preference Bidder meets either the requirement of both subdi	e for the reason checked: visions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% vendor preferen Bidder is an individual resident vendor who is a veta	ce who is a veteran for the reason checked: eran of the United States armed forces, the reserves or the National Guard or the four years immediately preceding the date on which the bid is
6.	continuously over the entire term of the project of	ce who is a veteran for the reason checked: United States armed forces, the reserves or the National Guard, if, for ties or completing the project which is the subject of the vendor's bid and n average at least seventy-five percent of the vendor's employees are estate continuously for the two immediately preceding years.
	Application is made for preference as a non- dance with West Virginia Code \$54-3-59 and t	resident small women and mine to a sure the
	Application is made for reciprocal preference Bidder is a West Virginia resident and is requestin	g reciprocal preference to the extent that it applies
Bidder u requirem or (b) as the contr	nderstands if the Secretary of Revenue determine lents for such preference, the Secretary may order sess a penalty against such Bidder in an amount n acting agency or deducted from any unpaid baland	es that a Bidder receiving preference has failed to continue to meet the the Director of Purchasing to: (a) rescind the contract or purchase order; of to exceed 5% of the bid amount and that such penalty will be paid to be on the contract or purchase order.
the requi	ission of this certificate, Bidder agrees to disclose as the Department of Revenue to disclose to the Dire red business taxes, provided that such information by the Tax Commissioner to be confidential.	any reasonably requested information to the Purchasing Division and actor of Purchasing appropriate information verifying that Bidder has paid a does not contain the amounts of taxes paid nor any other information
	ereby certifies that this certificate is true and a sything contained within this certificate change sion in writing immediately.	accurate in all respects; and that if a contract is issued to Bidder es during the term of the contract, Bidder will notify the Purchas-
	West Virgiia Tractor Company	Signed: Figure Force
Date: 1	0-17-23	Signed: President



CERTIFICATE OF GARAGE INSURANCE

DATE (MM/DD/YYYY) 04/21/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). PRODUCER CONTACT NAME: Sentry Customer Service Sentry Insurance 1800 North Point Drive PHONE (A/C, No, Ext): 800-473-6879 (A/C, No): 800-514-7191 Stevens Point, WI 54481 EMAIL
ADDRESS: businessproducts_direct@sentry.com **INSURER(S) AFFORDING COVERAGE** NAIC# INSURER A : Sentry Select Insurance Company INSURED 21180 INSURER B West Virginia Tractor Co. PO Box 473 INSURER C: 214 Virginia Street West INSURER D : Charleston, WV 25322 INSURER E : INSURER F : **COVERAGES** PROD / CUSTOMER ID:

CERTIFICATE #: 1311744 **REVISION#:** THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADDL SUBR INSRD WVD POLICY EFF (MM/DD/YYYY) TYPE OF INSURANCE POLICY NUMBER POLICY EXP (MM/DD/YYYY) LIMITS GARAGE LIABILITY HIRED AUTOS Х AUTO ONLY (Ea accident) ANY AUTO \$ 500,000 NON-OWNED AUTOS USED IN GARAGE х Α OWNED A0053698001 04/01/2023 04/01/2024 Х EA ACCIDENT AUTOS ONLY OTHER THAN \$ 500,000 Х AUTO ONLY Scheduled Autos AGGREGATE \$ 2,500,000 **GARAGE KEEPERS LIABILITY** COMP / LEGAL LIABILITY \$ 250 000 SPECIFIED PERILS LOC A0053698001 DIRECT BASIS 04/01/2023 04/01/2024 COLLISION LOC PRIMARY **EXCESS** \$ 250,000 LOC Х COMMERCIAL GENERAL LIABILITY EACH OCCURRENCE \$ 1,000,000 CLAIMS-MADE X OCCUR DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) Α \$ 5,000 Х A0053698005 04/01/2023 04/01/2024 PERSONAL & ADV INJURY \$ 1,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE \$3,000,000 POLICY Х PRODUCTS - COMPIOP AGG \$ 2,000,000 OTHER \$ X UMBRELLA LIAB X OCCUR EACH OCCURRENCE \$ 2,000,000 Х **EXCESS LIAR** CLAIMS-MADE A0053698008 04/01/2023 04/01/2024 AGGREGATE \$ 6.000,000 DED RETENTION \$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY PRODUCTS - COMP/OP AGG \$ 6,000,000 PER STATUTE PTH. ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N N/A E.L. EACH ACCIDENT \$ (Mandatory in NH) E.L. DISEASE - EA EMPLOYEE If yes, describe under \$ REMARKS below E.L. DISEASE - POLICY LIMIT \$ Employee Benefits Occurrence Limit \$ 500 000 Errors & Omissions Annual Aggregate Limit \$ 1,000,000 **ERRORS & OMISSIONS** A0053698004 04/01/2023 Deductible 04/01/2024 \$ 1,000 All Other Errors & Occurrence Limit \$ 250,000 Omissions Annual Aggregate Limit \$ 500,000 Deductible REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) \$ 1,000

Refer to attached

CERTIFICA	TE	HOL	DED
CERTIFICA	IIE.	HUL	.UER

WV DOH 83 Brushy Road Xing PO Box 610 Buckhannon, WV 26201-0610

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE y/an

ACORD 30 (2016/03)

Page 1 of 2

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A0053698 Sentry Select Insurance Company 00001 0000000000 23111 0 N

The ACORD name and logo are registered marks of ACORD

04/21/2023



AGENCY CUSTOMER ID: XXXXXX1655

LOC #:

	ADDITIONAL RE	MAKV2 20HEDULE	Page 2 of 2
AGENCY		NAMED INSURED	
Melanie Rosenbaum		West Virginia Tractor Co.	
POLICY NUMBER		Treat vilginia (Tacio) Co.	
A0053698001			
CARRIER	NAIC CODE		
Sentry Select Insurance Company	21180	EFFECTIVE DATE: 04/01/2023	
A PARISTONAL A DESCRIPTION OF THE PARISTON OF		ET LOTTE DATE. 0-WO 1/2020	1 · ·

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 30 FORM TITLE: Certificate Of Garage Insurance

General Liability

WV DOH AND STATE OF WEST VIRGINIA ARE ADDITIONAL INSURED ON THE GENERAL LIABILITY, PER THE POLICY PROVISIONS IF REQUIRED AS SUCH IN WRITTEN CONTRACCT WITH THE NAMED INSURED. GARAGE LIABILITY INCLUDES THE AUTOMOBILE LIABILITY. ANY AUTO COVERAGE INCLUDED. EXCESS/UMBRELLA LIABILITY FOLLOWS FORM.

Errors and Omissions Liability Coverage:

Policy Number: A0053698004

Effective date: 04/01/2023

Expiration Date: 04/01/2024

Per Occurrence Limit: \$250,000

General Aggregate Limit: \$500,000

Truth-In-Leading and Truth-In-Leading

Odometer Hour Meter and Prior Damage Disclosure Errors and Omissions

Title Errors and Omissions

Phone:

E-mail:

Signature:

Fax:

VENDOR: West Virginia Tractor Co Truck mounted culvert cleaner

wvtractor@msn.com

304-346-5301

304-346-5305

em No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost	
1 Vactor Ramjet truck mounted culvert cleaner or equal		Vactor Ramjet Freightliner M2-106 Plus	10	\$302,758	\$302 , 758	
Total Bid Cost		line and have the market			\$3,027,580	
	Bid V	s				
			Vendor Informat	ion		
	Company Name: West Virg					
	Contact Manager: Gary Grad	У	-			
1	Address: PO Box 47					

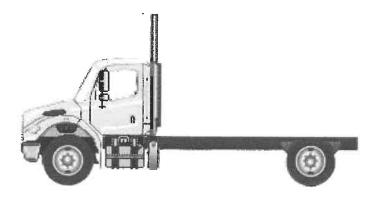
BUCKHANNON, WV 26201 Phone: 304-473-5354 Prepared by:
Brian Conrad
MATHENY MOTOR TRUCK
COMPANY
50 Matheny Lane
Mineral Wells, WV 26150
Phone: 3044854418

A proposal for WEST VIRGINIA DEPT OF HIGHWAYS

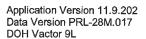
Prepared by MATHENY MOTOR TRUCK COMPANY Brian Conrad

Oct 22, 2023

Freightliner M2 106 Plus



Components shown may not reflect all spec'd options and are not to scale





BUCKHANNON, WV 26201 Phone: 304-473-5354



BUCKHANNON, WV 26201 Phone: 304-473-5354 Prepared by:
Brian Conrad
MATHENY MOTOR TRUCK
COMPANY
50 Matheny Lane
Mineral Wells, WV 26150
Phone: 3044854418

SPECIFICATION PROPOSAL

Data	Code	Description	Weight Front	Weight Rear	
Price Level					
PRL-2	28M	M2 PRL-28M (EFF:MY25 ORDERS)			
Data Version			A 652 2 18 17		Marian V.
DRL-0	017	SPECPRO21 DATA RELEASE VER 017			
Vehicle Conf	igurati	on			
001-1	72	M2 106 PLUS CONVENTIONAL CHASSIS	5,709	3,450	
004-2	25	2025 MODEL YEAR SPECIFIED	.,.	2,123	
002-0	04	SET BACK AXLE - TRUCK			
019-0	04	STRAIGHT TRUCK PROVISION, NON-TOWING			
003-0	01	LH PRIMARY STEERING LOCATION			
General Serv	rice				
AA1-0	02	TRUCK CONFIGURATION			
AA6-0	002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
99D-0	27	EPA EMISSIONS CERTIFICATION FOR REGISTRATION OUTSIDE CARB STATES - EPA CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)			
AF2-9	98	NO STATE/PROVINCE INITIAL REGISTRATION SELECTED			
A85-0	10	UTILITY/REPAIR/MAINTENANCE SERVICE			
A84-1	GM	GOVERNMENT BUSINESS SEGMENT			
AA4-0	02	LIQUID BULK COMMODITY			
AA5-0	02	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
AB1-0	08	MAXIMUM 8% EXPECTED GRADE			
AB5-0	01	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
995-09	91	MEDIUM TRUCK WARRANTY			



BUCKHANNON, WV 26201 Phone: 304-473-5354

D	ata Code	Description	Weight Front	Weight Rear	
Α	.66-99D	EXPECTED FRONT AXLE(S) LOAD: 14600.0 lbs			
А	.68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD: 23000.0 lbs			
Α	.63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 37600.0 lbs			
Truck Sei	rvice				I
Α	A3-034	SEWER/INDUSTRIAL VACUUM BODY			
Α	F3-1DN	VACTOR			
А	F7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES: 32.0 in			
Engine					
10	01-3BM	CUM L9 270 HP @ 2200 RPM; 2200 GOV RPM, 860 LB-FT @ 1200 RPM	640	30	
Electronic	c Paramete	rs			
7:	9A-070	70 MPH ROAD SPEED LIMIT			
79	9B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			
79	9K-005	PTO MODE ENGINE RPM LIMIT - 900 RPM			
79	9M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			
79	9P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			
79	9Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			
79	9S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			
79	9U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			
79	9V-001	FUEL DOSING OF AFTERTREATMENT ENABLED IN PTO MODE-CLEANS HYDROCARBONS AT HIGH TEMPERATURES ONLY			
79	9W-001	ONE REMOTE PTO SPEED			
79	9X-001	PTO SPEED 1 SETTING - 700 RPM			
80	0G-002	PTO MINIMUM RPM - 700			
80	OJ-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			
80	OS-014	PTO 1, NO SWITCH, TEM SUPPLIED REQUEST AND INTERLOCKS, WITH PTO CONNECTIONS, STATIONARY INTERLOCKS			
80	OT-014	PTO 2, NO SWITCH, TEM SUPPLIED REQUEST AND INTERLOCKS, WITH PTO CONNECTIONS, STATIONARY INTERLOCKS			



BUCKHANNON, WV 26201 Phone: 304-473-5354

Data Code	Description	Weight Front	Weight Rear	
Engine Equipment			217.50	100
99C-024	EPA 2010/GHG 2024 CONFIGURATION			
13E-001	STANDARD OIL PAN			
105-001	ENGINE MOUNTED OIL CHECK AND FILL			
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER			
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	10		
290-017	BATTERY BOX FRAME MOUNTED			
281-001	STANDARD BATTERY JUMPERS			
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			
289-001	NON-POLISHED BATTERY BOX COVER			
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	2		
306-015	PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS			
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			
131-013	AIR COMPRESSOR DISCHARGE LINE			
152-040	ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM			
128-076	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20		
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	
28F-014	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER			
239-026	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			



BUCKHANNON, WV 26201 Phone: 304-473-5354 Prepared by:
Brian Conrad
MATHENY MOTOR TRUCK
COMPANY
50 Matheny Lane
Mineral Wells, WV 26150
Phone: 3044854418

	Data Code	Description	Weight Front	Weight Rear
	237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
	23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
	30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
*	43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
		LOCATE DEF TANK AT 3000MM		
*	23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
		237-007 HIGH MTD DEF TANK W/ PUMP MTD AFT OF TANK		
	43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
	242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
*	273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
		273-048 HORTON 2-SPEED DRIVEMASTER ADVANTAGE PO	OLAREXTRE	ME FAN DRIVE
	276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
	110-003	CUMMINS SPIN ON FUEL FILTER		
	118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
	266-101	900 SQUARE INCH ALUMINUM RADIATOR	15	
	103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE- CHARGED SCA HEAVY DUTY COOLANT		
	171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
	172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
	270-016	RADIATOR DRAIN VALVE		
	168-002	LOWER RADIATOR GUARD		
	138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
	140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
	134-001	ALUMINUM FLYWHEEL HOUSING		
	132-004	ELECTRIC GRID AIR INTAKE WARMER		
	155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		
-	TT 1870 12-5 10-15			

Transmission

Application Version 11.9.202 Data Version PRL-28M.017 DOH Vactor 9L



BUCKHANNON, WV 26201 Phone: 304-473-5354

Data Code	Description	Weight Front	Weight Rear	
342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60	
ransmission Equ	ipment			
343-323	ALLISON VOCATIONAL PACKAGE 172 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS			
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84K-002	2ND GEAR ENGINE BRAKE ALTERNATE PRESELECT WITH MODERATE DOWNSHIFT STRATEGY			
84N-011	NEUTRAL AT STOP ENABLED			
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			
84M-001	PUMP MODE INPUT ENABLED 3RD/4TH LOCKUP WIRED ON TCM INPUT AJ/BQ - ALLISON 5TH GEN TRANSMISSIONS			
353-076	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH BLUNTCUTS			



BUCKHANNON, WV 26201 Phone: 304-473-5354

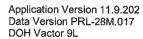
Prepared by: Brian Conrad MATHENY MOTOR TRUCK COMPANY 50 Matheny Lane Mineral Wells, WV 26150 Phone: 3044854418

	Data Code	Description	Weight Front	Weight Rear
	34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
	362-824	(2) CUSTOMER INSTALLED CHELSEA 280 SERIES PTO'S		
	363-011	PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION		
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
	345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
	97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
	370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
	35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front A	xle and Equi	pment		
	400-1A8	DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE	10	
	402-049	MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
	403-002	NON-ASBESTOS FRONT BRAKE LINING		
	419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS		
	427-001	FRONT BRAKE DUST SHIELDS	5	
	409-006	FRONT OIL SEALS		
	408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
	416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
	405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
	536-012	TRW TAS-85 POWER STEERING	40	
	539-003	POWER STEERING PUMP		
	534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
	40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front S	uspension		Takling -	
	620-010	14,600# TAPERLEAF FRONT SUSPENSION	170	



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Data Code	Description	Weight Front	Weight Rear	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION			
410-001	FRONT SHOCK ABSORBERS			
Rear Axle and Equ	Ipment State of the state of th			
420-051	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		180	
421-563	5.63 REAR AXLE RATIO			
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES			
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
433-002	NON-ASBESTOS REAR BRAKE LINING			
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			
451-023	CONMET CAST IRON REAR BRAKE DRUMS			
425-002	REAR BRAKE DUST SHIELDS		5	
440-006	REAR OIL SEALS			
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS			
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS			
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			
Rear Suspension			DIN SHIP	
622-1MJ	23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER		110	
621-001	SPRING SUSPENSION - NO AXLE SPACERS			
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			
Pusher / Tag Equip	ment		ne lines et la	
429-998	NO PUSHER/TAG BRAKE DUST SHIELDS			
Brake System				
018-002	AIR BRAKE PACKAGE			
490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH			





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			Weight	Weight
2	Data Code	Description	Front	Rear
	871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
	904-001	FIBER BRAID PARKING BRAKE HOSE		
	412-001	STANDARD BRAKE SYSTEM VALVES		
	46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
	413-002	STD U.S. FRONT BRAKE VALVE		
	432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
	480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
	483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER		
	479-012	AIR DRYER MOUNTED UNDER HOOD		
*	460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
		MOUNT PASSENGER SIDE AIR TANK HANGERS AT FL F DRIVER SIDE AIR TANK HANGERS AT FL FRAME STATIO DRAWING 504400SA		
	477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
*	485-001	EXTERNAL CHARGING GLADHAND	5	
		485-045 METALLIC AIR MANIFOLD MOUNTED TO BACK FITTINGS	OF CAB CROSS	MEMBER WITH SIX 1/4 INCH

Trailer Connections			
481-998	NO TRAILER AIR HOSE		
476-998	NO AIR HOSE HANGER		
919-063	(1) QUICKFIT PROGRAMMABLE SOLENOID W/STATE RETENTION PLUMBED TO BACK OF CAB		
310-998	NO TRAILER ELECTRICAL CABLE		
Wheelbase & Frame			
545-452	4525MM (178 INCH) WHEELBASE		
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	10	120
552-030	1600MM (63 INCH) REAR FRAME OVERHANG		
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 112.6 in		



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Phone: 3044854418

	Data Code	Description	Weight Front	Weight Rear
	AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 109.6 in		
	AE4-99D	CALC'D FRAME LENGTH - OVERALL: 278.54 in		
	FSS-0LH	CALCULATED FRAME SPACE LH SIDE: 71.53 in		
	FSS-0RH	CALCULATED FRAME SPACE RH SIDE: 79.13 in		
	553-001	SQUARE END OF FRAME		
	550-001	FRONT CLOSING CROSSMEMBER		
	559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
	561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
*	562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
		562-341 STANDARD MIDSHIP #1 CROSSMEMBER MOU CAB	JNTED 1035MM (41 INCH) FROM BACK OF
*	572-001	STANDARD REARMOST CROSSMEMBER		
		572-063 WITH DOUBLE STANDARD CROSSMEMBER S	SPACING	
	565-001	STANDARD SUSPENSION CROSSMEMBER		
Chas	sis Equipme	nt .		
	556-1AN	THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS		
	558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
	574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
	585-998	NO MUDFLAP BRACKETS		
	590-998	NO REAR MUDFLAPS		
	586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
	551-017	GRADE 8/CLASS 10.9 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
	44Z-002	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE		
	605-1AB	D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB		
*	606-294	DRLG PREP FOR SEC PER DWG SEC CHAMPION 32-36 YD, REV 2, 08/17/2018		
		DRLG PREP FOR VACTOR PER DWG 504400SA, REV 0	. 3/17/2016	

Fifth Wheel 578-998

NO FIFTH WHEEL



BUCKHANNON, WV 26201 Phone: 304-473-5354

	Data Code	Description	Weight Front	Weight Rear	
Fuel Ta	nks				
	204-192	50 GALLON/189 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	10	KITEL MININGS IN THE MEN	
	218-005	RECTANGULAR FUEL TANK(S)			
	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			
	212-007	FUEL TANK(S) FORWARD			
	664-001	PLAIN STEP FINISH			
	205-001	FUEL TANK CAP(S)			
	122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	-5		
	216-020	EQUIFLO INBOARD FUEL SYSTEM			
	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
*	221-008	FUEL COOLER MOUNTED LEFT HAND IN RAIL	10		
		221-019 FUEL COOLER MOUNTED RIGHT HAND IN RAIL	AT 3450		
Tires					
	093-994	MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES	50		
	094-1UY	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES		60	
Hubs					
	418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			
	450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			
Wheels					
	502-766	ALCOA ULA18X 22.5X8.25 10-HUB PILOT 5.81 INSET ALUMINUM DISC FRONT WHEELS	-62		
	505-766	ALCOA ULA18X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-124	
	524-001	POLISHED FRONT WHEELS; OUTSIDE ONLY			
	525-001	POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY			
	496-011	FRONT WHEEL MOUNTING NUTS			
	497-011	REAR WHEEL MOUNTING NUTS			
	498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES			





BUCKHANNON, WV 26201 Phone: 304-473-5354

Data Code	Description	Weight Front	Weight Rear	
Cab Exterior				TO BUT SAIR
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		M HIN HERBERT	
650-008	AIR CAB MOUNTING			
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE			
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			
644-004	FIBERGLASS HOOD			
690-002	TUNNEL/FIREWALL LINER			
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK	4		
726-001	SINGLE ELECTRIC HORN			
728-001	SINGLE HORN SHIELD			
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL			
302-047	LED AERODYNAMIC MARKER LIGHTS			
311-019	HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS			
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS			
300-015	STANDARD FRONT TURN SIGNAL LAMPS			
744-1BK	DUAL WEST COAST MOLDED-IN COLOR HEATED MIRRORS WITH LH AND RH REMOTE			
797-001	DOOR MOUNTED MIRRORS			
796-001	102 INCH EQUIPMENT WIDTH			
743-1AP	LH AND RH 8 INCH MOLDED-IN COLOR CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			
74A-001	RH DOWN VIEW MIRROR			
729-001	STANDARD SIDE/REAR REFLECTORS			
275-061	PARK BRAKE REMINDER WARNING SYSTEM			
768-043	63X14 INCH TINTED REAR WINDOW			
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			
654-011	RH AND LH ELECTRIC POWERED WINDOWS			
663-013	1-PIECE SOLAR GREEN GLASS WINDSHELD			



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Phone: 304-473-

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	Data Code		Weight Front	Weight Rear
	659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		
Cab In	terior		11/4/2	
	055-019	RUGGED TRIM PACKAGE		
	707-107	GRAY & CARBON VINYL INTERIOR "RUGGED"		
	70K-020	CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)		
	706-013	MOLDED PLASTIC DOOR PANEL		
	708-013	MOLDED PLASTIC DOOR PANEL		
	772-006	BLACK MATS WITH SINGLE INSULATION		
	785-034	ASH CUP AND (1)LIGHTER, (1)12V POWER OUTLET, (1)DASH MTD DUAL USB-C OUTLET		
	691-001	FORWARD ROOF MOUNTED CONSOLE		
	693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
	738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
	742-007	(2) CUP HOLDERS LH AND RH DASH		
	680-029	M2/SD DASH		
	700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
	701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
	703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
*	689-111	PREP KIT FOR CUSTOMER INSTALLED AUXILIARY HEATER, PLUMBING FROM ENGINE TO BACK OF CAB WITH SHUTOFF VALVES ON LH	25	
		689-804 PREP KIT FOR CUSTOMER INSTALLED AUXILIARY F RAIL UNDER CAB WITH SHUTOFF VALVES	HEATER, PLI	JMBING FROM ENGINE TO
*	170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
		170-019 STANDARD HEATER PLUMBING WITH BALL SHUTOI	FF VALVES	
	130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
	702-002	BINARY CONTROL, R-134A		
	739-033	STANDARD INSULATION		
	285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
	280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		



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Data Code	Description	Weight Front	Weight Rear	
324-1B3	STANDARD LED CAB LIGHTING			
787-998	NO SECURITY DEVICE			
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			
78G-004	KEY QUANTITY OF 4			
655-005	LH AND RH ELECTRIC DOOR LOCKS			
756-338	BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WTIH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30		
760-338	BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WTIH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10	
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8		
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			
763-102	HIGH VISIBILITY ORANGE SEAT BELTS			
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			
540-070	4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS			
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			
Instruments & Cont	rols			
4CH-008	8 EXTRA PROGRAMMABLE SWITCHES/INDICATORS	100		
106-002	ELECTRONIC ACCELERATOR CONTROL			
734-022	FULLY CONFIGURABLE CENTER INSTRUMENT PANELS			
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS			

Application Version 11.9.202 Data Version PRL-28M.017 DOH Vactor 9L

870-002

486-001

840-001



BRIGHT ARGENT FINISH GAUGE BEZELS

AUDIBLE ALARM

PRESSURE GAUGE

LOW AIR PRESSURE INDICATOR LIGHT AND

DUAL NEEDLE PRIMARY AND SECONDARY AIR

BUCKHANNON, WV 26201 Phone: 304-473-5354

Data Code	Description	Weight Front	Weight Rear	
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			
721-001	97 DB BACKUP ALARM		3	
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES			
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			
157-004	MANUAL REMOTE ENGINE STOP/START			
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY			
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY			
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			
844-001	2 INCH ELECTRIC FUEL GAUGE			
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE			
48H-004	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH BLUNTCUTS			
4C0-998	NO ADDITIONAL EXTRA SWITCH ACCUATORS			
48C-003	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH CAP			
163-014	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR			
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER			
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE			
736-998	NO OBSTACLE DETECTION SYSTEM			
72J-998	NO DR ASSIST SYSTEM			
49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL			
73B-998	NO LANE DEPARTURE WARNING SYSTEM			
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			



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Data Code	Description	Weight Front	Weight Rear	
35M-010	QUICKFIT PROGRAMMABLE INTERFACE MODULE	10		
1U1-002	TOP OF DASH RAM MOUNT WITHOUT POWER OR GROUND, FOR CUSTOMER FURNISHED DEVICE			
746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939			
747-001	DASH MOUNTED RADIO			
750-002	(2) RADIO SPEAKERS IN CAB			
753-998	NO AM/FM RADIO ANTENNA			
75W-002	SHARKFIN MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, SDAR/SIRIUSXM, GNSS/GPS			
74D-006	STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS			
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			
817-001	STANDARD VEHICLE SPEED SENSOR			
812-001	ELECTRONIC 3000 RPM TACHOMETER			
813-1C8	DETROIT CONNECT PLATFORM HARDWARE			
8D1-303	3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT			
6TS-009	(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL (1) CENTER OF BACKWALL/PASSENGER SIDE BAGGAGE COMPARTMENT			
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			
81Y-006	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS AND SERVICE BRAKES			
264-030	(1) OVERHEAD MOUNTED LANYARD CONTROL FOR DRIVER AIR HORN			
883-998	NO TRAILER HAND CONTROL BRAKE VALVE			
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS			



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	Data Code	Description	Weight Front	Weight Rear
	882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
	299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
	298-046	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY		
Desig	jn			
	065-000	PAINT: ONE SOLID COLOR		
Color				
	980-5F6	CAB COLOR A: L0006EY WHITE ELITE EY		
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
	964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
	969-998	NO CAB/BODY EXTERIOR DECALS		
	963-003	STANDARD E COAT/UNDERCOATING		
Certif	ication / Com	pliance		
	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
Sales	Programs			
N	PMY-3G1	BUSINESS QUOTE SALES PROGRAM		

Weight Summary			
	Weight	Weight	Total
	Front	Rear	Weight
Factory Weight ⁺	6990 lbs	3929 lbs	10919 lbs
Total Weight ⁺	6990 lbs	3929 lbs	10919 lbs

TOTAL VEHICLE SUMMARY

Extended Warranty



BUCKHANNON, WV 26201 Phone: 304-473-5354 Prepared by:
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WAG-074 TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$750 CAP FEX APPLIES

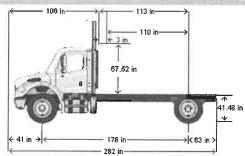
- (+) Weights shown are estimates only.

 If weight is critical, contact Customer Application Engineering.
- (***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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COMPANY
50 Matheny Lane
Mineral Wells, WV 26150
Phone: 3044854418

DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	
Wheelbase (545)	4525MM (178 INCH) WHEELBASE
Rear Frame Overhang (552)	1600MM (63 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPERCAB
	OUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY

TABLE SUMMARY - DIMENSIONS



BUCKHANNON, WV 26201 Phone: 304-473-

5354

Prepared by:
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Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Front Axle to Back of Cab (AC)	65.6
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	112.6
Effective Back of Cab to Centenine of Rear Axle(s) (Effective CA)	109.6
Back of Cab Pretrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	175.6
Cab Height (CH)	67.5
Wheelbase (WB)	1781
Frame Overhang (OH)	63.0
Overall Frame Length	278.5
Overall Length (OAL)	281.9
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	41.5

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



BID SPEC

Ramjet

Truck Mounted Sewer Cleaner

For

WVDOT-Highways US Rt 33 83 Brushy Rd Crossing Buckhannon WV 26201 US





Detailed Specifications

For Ramjet

		CON	IPLY
		YES	NO
1.0	INTENT		
1.01	The intent of this specification is to provide for the purchase or lease of one (1) new and unused single-engine sewer cleaner used for removing blockages caused by stones, bottles, cans, grease, sludge and other debris from sanitary sewer and/or storm drain lines by the flushing action of high pressure water. The unit shall consist of a hydraulically driven high pressure water pump and equipped with a self-contained water supply as the source for the water pump system. The machine shall be capable of being operated by one person with all operating controls for high pressure water and hose reel located at the operator's station of the machine. (Submit horsepower requirements of all systems on unit)		
1.02	This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality, performance and overall cost of ownership against which all equipment bid will be compared. In comparing proposals, consideration will be given to life cycle cost guarantees whereby bidder shall provide all pertinent information to evaluate long-term cost. Contract will be awarded for the product which best serves the interests of considering long-term maintenance cost, parts availability, product support and service cost as well as guaranteed buyback value of bidders equipment. reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. Award shall be to the bidder showing most favorable life cycle costing while meeting the requirements of these specifications.		
2.0	EQUIVALENT PRODUCT		



2.01	Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the Purchasing and Public Services Director.	
2.02	Bidder shall demonstrate a reasonable likeness of the equipment being offered within a reasonable time of request. Equipment demonstrated shall be equipped with all accessories and components required in this specification to ascertain equivalence.	
2.03	A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.	
3.0	BIDDER REFERENCES	
3.01	To ensure adequate local availability of parts and competent service from experienced suppliers, bids are preferred from local vendors who have sold and serviced at least 30 units of same manufacturer within service area of is preferred and should include contacts with phone numbers.	
4.0	SERVICE AND SUPPORT	
4.01	Location of warranty service center and amount of inventory shall be noted which may be verified and inspected.	
4.02	Amount of OEM parts at this facility: \$	
4.03	Years of servicing equipment being bid: Years	
4.04	Number of factory qualified service technician(s):	
5.0	GENERAL	
5.01	The specification herein states the minimum requirements of the . All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the to make a reasonable determination of compliance to the specification will be considered "non-responsive" and grounds for rejection.	
8.0	WATER TANK	
8.01	The water tank shall have a minimum capacity of 1500 gallons.	



8.02	The water tank shall be constructed from stainless steel; Type 304.	
8.03	The water tank shall be round in cross section with domed ends to maximize the structural integrity and minimize corner stress	
8.04	concentrations found in rectangular flat sided tanks. The water tank shall incorporate a domed water tank baffling system that will maximize hydrodynamic dampening.	
8.05	The water tank shall be located for the lowest possible center of gravity while providing 100 % of water to gravity feed water pump to maximize volumetric efficiency and eliminate the potential for water pump damage due to cavitation	
8.06	A water level sight tube gauge shall be located on the street side and the curb side.	
8.07	The water tank shall come equipped with an anti-siphon device and 25 feet of 2-1/2 " hydrant fill hose with a quick disconnect cam lock fitting.	
8.08	A water tank filling connection shall be provided on the street side and the curb side.	
8.09	The water tank shall be adequately vented to provide complete filling.	
8.10	A 3 inch "Y" strainer with 80 mesh stainless steel filter screen shall be located in the water tank fill.	
8.11	A low water alarm with indicator at the operator station shall alert operator when water capacity is at 150 gallons.	
8.12	A drain valve shall be provided to allow complete draining of the water tank.	
8.13	The water tank base shall be constructed from stainless steel; type 304. The water tank base shall extend the entire length of the water tank for maximum support. The water tank base shall be bolted to the chassis frame at the rear and spring mounted at the front to allow chassis flexure.	
8.14	The stainless steel water tank and base shall have a ten (10) year warranty against defects in workmanship, corrosion, cracking, UV degradation and other forms of fatigue. Warranty shall not be prorated.	
8.15	An air purge system utilizing the chassis air system shall be provided to assist displacing of residual water out of the high-	



	pressure water system. System shall utilize the truck chassis air compressor to fill a 14-gallon auxiliary air storage chamber with pressure gauge and pressure protection valves to isolate the holding tank from the chassis compressor. System shall be equipped with ball valve and all necessary high pressure piping hoses, couplings and controls.	
8.16	An ASME coded and safety stamped 2.5 gallon capacity, nitrogen charged bladder type accumulator shall be supplied to eliminate the cycle pulsation action and provide smooth operation at the nozzle when desired. The accumulator system shall have a 1" ball valve shut off to allow the water pump system to operate with pulsation action or smooth flow operation at the nozzle.	
8.17	An extreme cold weather recirculation system - minimum 25 GPM via transmission PTO at chassis engine idle speed.	
8.18	A continuous water fill system shall be provided at the water tank inlet including an air operated valve which opens when the water level in the tanks are low. This water start and stop levels shall be operator set on control screen.	
9.0	WATER PUMP SYSTEM	
9.01	The high pressure dual acting single piston water pump shall be hydraulically driven that directly converts hydraulic oil pressure into water pressure.	
9.02	The hydraulic pump(s) used to power the water pump shall be engaged/disengaged independently from the water pump eliminating unnecessary high pressure ball valve bypass and to help reduce water pump wear.	
9.03	The hydraulic system shall contain a direct acting relief valve. For added protection, the high pressure water system shall also contain a direct acting relief valve.	
9.04	The high pressure water pump shall have a maximum rated flow capacity of 100 GPM and a maximum rated output pressure of 3000 PSI.	
9.05	The high pressure water pump system shall be certified to deliver 0 to 80 GPM at a variable pressure up to 2500 PSI at the hose reel. Full flow and pressure ranges shall be achieved without diverting high pressure water back to the water tank. Variable flow systems diverting or relieving water back to the water tank to achieve full flow range (0 to 80 GPM) are not considered equal	



	due to additional wear and horsepower/fuel consumption. Any deviation from this requirement shall have full explanation of horsepower consumption.	
9.06	The water system shall be power demand matched to chassis to optimize performance and fuel economy. The high pressure water system shall have hose reel mounted controls for operation.	
9.07	The water pump and associated water suction plumbing shall be located below the water storage tank. With the water pump located below the water tank, 100 % of the water will gravity feed to the pump to optimize water pump volumetric efficiency and eliminate the potential for water pump damage due to cavitation.	
9.08	The water pump and associated plumbing shall be easily accessed from ground level.	
9.09	This water pump cycle shall provide a pulsation action to assist the nozzle in navigating difficult lines or breaking through obstructions/blockages. Pulsation surge wave shall allow nozzle to punch forward 2" to 18" depending on flow dynamics and length of hose in sewer pipe. There shall be no interruption in the system water flow at the nozzle when this event occurs.	
9.10	The water pump shall use a single water piston that provides a relatively slow pump stroke (as compared to triplex piston/plunger type pumps) that provides minimal wear and allows the pump to run at normal operating conditions or speed without water for thirty minutes.	
9.11	In order to maintain an optimized oil temperature for the hydraulic oil system, an oil to water shell and tube type oil cooler shall be provided in the water pump suction plumbing.	
9.12	A 3 inch "Y" strainer with 80 mesh stainless steel filter screen shall be located in the water pump suction between the water tank and water pump. A 3 inch gate valve shall be provide in the water pump suction to isolate the water tank and provide the ability to inspect/clean the 80 mesh stainless steel filter screen with water in the water tank.	
9.13	A compliment of drain valves and drain plugs shall be provided that allows the water pump and water tank system to be easily drained at ground level.	
9.14	The water pump shall have a two (2) year warranty.	



9.15	Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.	
9.16	Handgun shall come equipped with quick connect coupler and 3/8" x 35' hose.	
9.17	A mid-ship quick disconnect with shut off valve shall be provided.	
9.18	Low Water Alarm with Water Pump Flow Indicator	
9.19	A nozzle rack accommodating (3) nozzles shall be provided in a toolbox. The nozzles shall be labeled on storage rack for pipe size/flow and application.	
9.20	Digital Water Pressure Gauge	
9.21	Front and rear quick disconnect handgun couplers shall be provided.	
9.22	The water pump enclosure shall keep the water pump and plumbing enclosed and protected from the elements.	
9.23	The water pump enclosure shall be constructed of aluminum to provide maximum corrosion protection.	
9.24	The water pump enclosure shall have two aluminum doors with full length stainless steel hinges and doors shall allow complete access to the water pump and plumbing from ground level.	
9.25	The water pump enclosure doors shall be secured with a lockable system providing three latching points from a single point of actuation.	
9.26	When equipped with a water pump enclosure, there shall be two (2) 1/2" high pressure ball valves provided for draining the water pump and flushing sediment from the bottom of the water pump.	
9.27	The water pump enclosure shall be heated with a 20,000 BTU heater.	
9.28	Shut off valves shall be provided to isolate heater from chassis engine coolant when heat is not required.	
9.29	An additional 1" water relief valve shall be provided.	
9.30	The water pump shall provide precise 0-80 GPM controlled flow at variable pressure up to 2500 PSI.	
9.31	An additional 1" water relief valve shall be provided.	
12.0	HOSE REEL (REAR)	
12.01	Hydraulic Extending Hose Reel - 900' capacity of 1" hose shall be provided.	



10.00		
12.02	The hose reel assembly shall mount to a heavy duty slewing bearing mounted to a stationary, independent frame bolted between the chassis frame rails.	
12.03	In order to optimize functionality of the hose reel assembly, the hose reel assembly shall be mounted such that the outer edge of the reel spool is approximately 7" above the top of the chassis frame.	
12.04	The hose reel assembly shall rotate on a greaseable heavy duty slewing bearing a total of 180 degrees, 90 degrees to curb side and 90 degrees to street side providing direct alignment to manholes.	
	In order to equally optimize functionality of the hose reel assembly to both curb side and street side, the hose reel assembly shall be mounted at the rear in the center of the chassis frame rails. The hose reel assembly shall rotate about the slewing bearings vertical centerline such that the hose reel assembly shall never extend beyond the width of the truck.	
12.06	The rotation of the hose reel assembly through the 180 degree working range will require minimal effort and shall not require any power assist complexity.	
12.07	The rotation of the hose reel assembly shall have a dual locking mechanism to positively lock the hose reel assembly in any position through the 180 degree operating range.	
12.08	In order to facilitate serviceability and reduce wear, all hoses and electrical cables used to control the hose reel assembly shall be routed above the hose reel assembly.	
12.09	In order to eliminate the movement and potential for damage of the high pressure water feed line to the hose reel assembly, a rotating swivel joint that is adjustable and rebuildable shall be used at both the vertical and horizontal rotation points of the hose reel assembly.	
12.10	The hose reel spool shall be manufactured our of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.	
12.11	The hose reel spool shall be powered in both directions by a hydraulic motor and an adjustable double roller chain/sprocket assembly.	



10.40		
12.12	In order to optimize performance and fuel economy, the hose reel	
	hydraulic system shall be supplied by a load sensing/pressure	
	compensated variable displacement hydraulic pump. The operator	
	input to precisely control the hose reel direction and the pay in/out	
	rate shall be through an electro proportional joystick and a	
	variable speed switch mounted in the hose reel control panel.	
12.13	The hose reel control panel shall be located to the right of the	
	hose reel spool and shall provide convenient access to all	
	necessary operating controls.	
12.14	The hose reel control panel shall be mounted to the hose reel	
	frame and shall rotate with the hose reel assembly.	
12.15	10' Leader Hose	
12.16	Primary operator station shall be located at the hose reel.	
12.17	Station shall include: truck engine throttle, water pump on/off,	
	water pump mode, water pump multiflow control, hose reel pay	
	in/out joystick, hose reel speed control, water pressure gauge, low	
	water indicator, alarm on/off, rotating hose reel lock control, LCD	
	monitor, and E-Stop.	
12.18	500' x 1" Piranha Sewer Hose / 2500 Psi shall be provided	
12.19	Digital footage counter displaying absolute and relative footage	
	values shall be provided. System must be capable of resetting	
	relative value to ensure operator safety.	
12.20	Must have accuracy to within one percent of actual distance.	
12.21	Will include an easy to read LCD screen	
12.22	A manual hose level wind guide shall be provided for rewinding of	
	jet hose onto the reel.	
12.23	An air actuated 1? ball valve shall be installed in lieu of the	
	manual 1? ball valve. This air actuated ball valve will have the	
	switch mounted on the ball valve plate at the side of the unit.	
18.0	SHROUD PACKAGE	
18.01	The rear hose reel shroud package shall keep the hose reel,	
	water pump, and associated plumbing enclosed and protected	
	from the elements.	
18.02	The rear hose reel shroud package shall be constructed of	
	aluminum to provide maximum corrosion protection.	
18.03	The rear hose reel shroud package shall consist of a rotating	
	cylindrical enclosure with welded in floor with fixed top cover for	



	the hose reel, an enclosure for the water pump and a storage cabinet that connects the two.	1
18.04	The cylindrical enclosure shall rotate on the same vertical axis as the hose reel assembly.	
18.05	The cylindrical enclosure/hose reel assembly vertical axis shall lie in the center of the chassis frame rails.	
18.06	The overall width of the cylindrical enclosure shall be at least 14 inches narrower on both sides than the widest point of the truck jetter providing improved driver rear vision with side mirrors over truck jetter shrouds that are as wide as the overall unit.	
18.07	The cylindrical enclosure shall rotate a total of 180 degrees, 90 degrees to the curb side and 90 degrees to the passenger side.	
18.08	The cylindrical enclosure shall have a fixed top cover that protects the hose reel and associated plumbing from the elements at all times; in road mode or work mode.	
18.09	There shall be two lockable sliding doors at nearly the same radius as the cylindrical enclosure that allow the hose to pay off the reel into the sewer.	
18.10	Brush type seals shall be used to seal the cylindrical rotating enclosure.	
18.11	The rotation of the cylindrical enclosure/hose reel assembly through the 180 degree working range will require minimal effort and shall not require any power assist complexity.	
18.12	The rotation of the cylindrical enclosure/hose reel assembly shall have a dual locking mechanism to positively lock the cylindrical enclosure/hose reel assembly in any position through the 180 degree operating range	
18.13	There shall be two large access panels provided on either side of cylindrical enclosure for easy access for service.	
18.14	The water pump enclosure shall have two aluminum doors with full length stainless steel hinges that provide complete access to the water pump and plumbing from ground level.	
18.15	The water pump enclosure doors shall be secured with a lockable system providing three latching points from a single point of actuation.	



18.16	When equipped with a water pump enclosure, there shall be two	
i	(2) 1/2" high pressure ball valves provided for draining the water	
	pump and flushing sediment from the bottom of the water pump.	
18.17	A storage cabinet shall be provided that connects the water pump	
10.17	enclosure to the rear cylindrical enclosure area.	
18.18		
10.10	Rodder pump, accumulator, recirculation system quick coupler	
	shall be mounted in an insulated, heated aluminum storage	
17.0	cabinet located at the curb side of vehicle.	
19.0	ELECTRICAL & SAFETY LIGHTING	
19.01	All electrical connections shall be void of exposed wires or	
	terminals nor should they be painted. Paint process shall be	
	completed prior to installation of electrical wiring and components.	
19.02	Harnessed wiring shall be color coded and labeled by function for	
	easy troubleshooting.	
19.03	The entire system shall be vapor sealed to eliminate moisture	
10100	damage, "NEMA 4" type or equal.	
19.04	All power cables coming from the chassis batteries shall be fuse	
10.04	protected at the battery to provide maximum system protection.	
19.05	Individual circuits shall be protected with reactively	
19.00	Individual circuits shall be protected with resettable circuit	
	breakers housed in a conveniently located sealed junction box	
40.00	accessible from ground level.	
19.06	For serviceability, major components shall contain a Deutsch or	
	Weather Pack type sealed connector within the wiring harness.	
19.07	Unit shall be equipped with a high quality, weatherproof, color	
	LCD monitor at the operator station	
19.08	The LCD monitor shall have the ability to display the following	
,	standard features:	
19.09	* Chassis Engine: Actual Engine RPM, Desired Engine RPM,	
	Engine Coolant Temp, Engine Oil Temp, Engine Oil Pressure,	
	Engine Hours, Fuel Rate, and Actual Engine Load (%).	
19.10	* RamJet Module: PTO Status, Mode (Stationary, E-Stop),	
10.10	Hydraulic Oil Temp, Chassis Engine RPM, and Low Water	
	Indicator.	
19.11		
19.11	LED lights shall be provided: clearance, back-up, stop, tail/turn.	
	Rear work lights shall be provided	
19.13	L.E.D. Lights, Clearance, Stop, Tail & Turn shall be provided.	



19.14	L.E.D. Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.	
19.15	Handheld, Pistol Grip LED Spot light with rechargeable Lithium Ion battery.	
20.0	SAFETY EQUIPMENT	
20.01	An E-stop shall be located at the operator station.	
20.02	The E-stop shall turn off water pump, disengage hydraulic PTO's/ Pumps and set chassis engine speed to idle.	
20.03	The electrical system controls shall be configured to allow for single point operation only. Upon engagement of controls at a specific location, additional/optional controls shall be disabled.	
20.04	The electrical system shall enable a self-check to ensure all switches are in home position prior to critical function engagement. Electrical system shall lock out function when control switch is not in home position.	
20.05	The electrical system shall display the hydraulic oil temperature. The electrical system shall display a message and shall have an indicator if the hydraulic oil temperature reaches 180 degrees F. The hydraulic system shall be disabled if the hydraulic oil temperature reaches 200 degrees F.	
20.06	(1) Road side hazard kit.	
20.07	(1) 5# Fire extinguisher.	
20.08	A rear back up color camera with 130 degree viewing area shall be provided. The back up camera shall have automatic activation when the chassis transmission is shifted to reverse.	
21.0	SEWER TOOLS AND ACCESSORIES	
21.01	Hydrant wrench	
21.02	Hose Guide with Tie-off rope	
21.03	(1) P-15 Penetrator	
21.04	(1) Power Cleaner	
21.05	(1) Super Flusher	
21.06	(1) 1" Small finned nozzle pipe skid	
23.0	CHASSIS EQUIPMENT AND STORAGE	
23.01	Two (2) front tow hooks shall be provided.	
23.02	Two (2) rear tow hooks shall be provided.	
24.0	MODULE FINISH	





24.01 Hose reel and components not constructed from aluminum or stainless steel shall be painted or powder coated black



Quote Number: 2023-69757 End User Name: Gary Grady

Date: 10-23-2023