

**Meeting Date:** 5/19/2015

**Report Type:** Consent

**Report ID:** 2015-00393

**Title: Cooperative Purchase Agreement: Sewer/Storm Drain Cleaning Trucks  
(Published 05/07/2015 for Review)**

**Location:** Citywide

**Recommendation:** Pass a Resolution 1) authorizing the City Manager or the City Manager's designee to increase the expenditure and revenue budgets in the Department of Public Works FY2014/15 operating budget (Fleet Fund, Fund 6501) in the amount of \$496,190; 2) approving the use of the Houston Galveston Area Council (HGAC) cooperative purchase agreement with Vac-Con, Inc. (Contract No.SC01-15) for the purchase of two replacement, and one additional, sewer/storm drain cleaning trucks in an amount not to exceed \$1,399,772; and 3) authorizing the City Manager or the City Manager's designee to execute the purchases specified above.

**Contact:** Iseña Garcia, Program Specialist, (916) 808-1163; Steve Barker, Interim Fleet Manager, (916) 808-6289, Department of Public Works

**Presenter:** None

**Department:** Public Works Department

**Division:** Fleet Management

**Dept ID:** 13001211

**Attachments:**

1-Description/Analysis

2-Resolution

3-Agreement

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**City Attorney Review**

Approved as to Form

Kourtney Burdick

5/6/2015 2:01:26 PM

**Approvals/Acknowledgements**

Department Director or Designee: Jerry Way - 4/30/2015 6:20:45 PM

## Description/Analysis

**Issue Detail:** The Department of Public Works (DPW), Fleet Management Division, has a customer requirement to purchase two replacement, and one additional, sewer/storm drain cleaning trucks for the Department of Utilities (DOU), Operations and Maintenance Division. The additional truck is required to maintain drains and pipes and will support DOU's Drainage System Management Plan.

**Policy Considerations:** The recommendations in this report are in accordance with City Code Chapter 3.56.

**Economic Impacts:** None

### Environmental Considerations:

**California Environmental Quality Act (CEQA):** No environmental review is necessary because the recommendations in this report involve the purchase of vehicles and are not considered to be a project in accordance with Section 15378(b)(2) of the CEQA guidelines.

**Sustainability:** Not applicable

**Commission/Committee Action:** None

### Rationale for Recommendation:

After reviewing the available purchase options, Fleet Management has determined that using the cooperative purchase agreement with HGAC and Vac-Con, Inc. represents the most advantageous purchasing strategy. The agreement was competitively bid nationally, and HGAC receives greater discounts from the manufacturer, due to a higher purchase volume, than the City would receive if issuing its own bid.

In an ongoing effort to maximize cost savings and staff resources, many government agencies share contracting efforts through cooperative purchasing. This procurement approach increases pricing competitiveness and lowers operating costs through volume buying. When comparing the administrative costs of procurement, staff considers product research, source selection, specifications, advertising, staff reports, awarding, protest, and administration of the contract. It is often more cost-effective to eliminate the cost and time spent on these administrative processes and purchase items and services through a cooperative purchasing program.

The City has used both regional and national cooperative purchase agreements to complement its own contracting initiatives. Cooperative purchasing enables City departments to evaluate a broader range of contracting opportunities and to share resources with other jurisdictions. Cooperative purchasing also leverages internal and external resources to maximize cost savings opportunities for the City.

**Financial Considerations:** The recommended purchases will be made from the DPW FY2014/15 operating budget (Fleet Fund, Fund 6501) and charged to DOU's multi-year operating projects (MYOP) for replacement vehicles and equipment. Purchasing the additional sewer/storm drain cleaning truck will require an increase in the DPW expenditure and revenue budgets because this vehicle is an addition to the fleet and is not yet budgeted for purchase in the Fleet Fund. Upon completion of the recommended budget adjustment, sufficient funds will be available in the FY2014/15 DPW operating budget to make purchase. The following table provides the detailed

information for these purchases. Sufficient funding is available in the DOU MYOPs noted below to support these purchases.

Customer	Vehicle	MYOP	Fund Name	Fund No.	Qty	Unit Cost	Total
Wastewater Maintenance	9 YD Truck	I06013141	Wastewater	6006	2	\$451,791	\$903,582
Drainage Collection	12 YD Truck	I06013143	Storm Drainage	6011	1	\$496,190	\$496,190
							<b>\$1,399,772</b>

**Local Business Enterprise (LBE):** Vac-Con, Inc. is not a LBE. The City’s LBE requirements do not apply to the City’s use of cooperative purchase agreements that have been created, evaluated, and awarded by other governmental agencies that may or may not have similar local business enterprise programs.

## **RESOLUTION NO. 2015-**

Adopted by the Sacramento City Council

May 19, 2015

### **COOPERATIVE PURCHASE AGREEMENT: SEWER/STORM DRAIN CLEANING TRUCKS**

#### **BACKGROUND**

- A. The Department of Public Works (DPW), Fleet Management Division, has a customer requirement to purchase two replacement, and one additional, sewer/storm drain cleaning trucks for the Department of Utilities (DOU), Operations and Maintenance Division. The additional truck is required to maintain drains and pipes and will support DOU's Drainage System Management Plan.
- B. The recommended purchases will be made from the DPW FY2014/15 operating budget (Fleet Fund, Fund 6501), however an adjustment to the DPW operating budget is necessary because one of the sewer/storm drain cleaning trucks is an addition to the fleet and is not yet budgeted in the Fleet Fund. Upon completion of the recommended budget adjustment, sufficient funds will be available in the FY2014/15 DPW operating budget to make purchase.
- C. In accordance with City Code Section 3.56.240, the City Manager, where advantageous to the City, may, by cooperative purchase agreements approved by the City Council, purchase supplies or nonprofessional services through legal contracts of other governmental jurisdictions or public agencies without separate competitive bidding by the City.

#### **BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:**

- Section 1. The City Manager or the City Manager's designee is authorized to increase the expenditure and revenue budgets in the DPW FY2014/15 operating budget (Fleet Fund, Fund 6501) in the amount of \$496,190.
- Section 2. Using the cooperative purchase agreement with the Houston Galveston Area Council (HGAC) cooperative purchase agreement with Vac-Con, Inc. (Contract No.SC01-15) for the purchase of two replacement, and one additional, sewer/storm drain cleaning trucks in an amount not to exceed \$1,399,772 is approved.
- Section 3. The City Manager or the City Manager's designee is authorized to execute the purchases specified above.

MAIL ROOM

A CONTRACT BETWEEN  
HOUSTON-GALVESTON AREA COUNCIL  
Houston, Texas  
AND  
VAC-CON, INC.  
Green Cove Springs, Florida

2014 DEC -2 AM 11:30

This Contract is made and entered into by the **Houston-Galveston Area Council of Governments**, hereinafter referred to as **H-GAC**, having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027, AND, **Vac-Con, Inc.**, hereinafter referred to as the **CONTRACTOR**, having its principal place of business at 969 Hall Park Road, Green Cove Springs, Florida 32043.

**ARTICLE 1:**

**SCOPE OF SERVICES**

The parties have entered into a **Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services Contract** to become effective as of January 1, 2015, and to continue through December 31, 2017 (the "Contract"), subject to extension upon mutual agreement of the **CONTRACTOR** and **H-GAC**. **H-GAC** enters into the Contract as Agent for participating governmental agencies, each hereinafter referred to as **END USER**, for the purchase of **Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services** offered by the **CONTRACTOR**. The **CONTRACTOR** agrees to sell **Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services** through the **H-GAC Contract** to **END USERS**.

**ARTICLE 2:**

**THE COMPLETE AGREEMENT**

The Contract shall consist of the documents identified below in order of precedence:

1. The text of this Contract form, including but not limited to, Attachment A
2. General Terms and Conditions
3. Bid Specifications No:SC01-15, including any relevant suffixes
4. **CONTRACTOR's** Response to Bid No:SC01-15, including but not limited to, prices and options offered

All of which are either attached hereto or incorporated by reference and hereby made a part of this Contract, and shall constitute the complete agreement between the parties hereto. This Contract supersedes any and all oral or written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Contract cannot be modified without the written consent of both parties.

**ARTICLE 3:**

**LEGAL AUTHORITY**

**CONTRACTOR** and **H-GAC** warrant and represent to each other that they have adequate legal counsel and authority to enter into this Contract. The governing bodies, where applicable, have authorized the signatory officials to enter into this Contract and bind the parties to the terms of this Contract and any subsequent amendments thereto.

**ARTICLE 4:**

**APPLICABLE LAWS**

The parties agree to conduct all activities under this Contract in accordance with all applicable rules, regulations, directives, issuances, ordinances, and laws in effect or promulgated during the term of this Contract.

**ARTICLE 5:**

**INDEPENDENT CONTRACTOR**

The execution of this Contract and the rendering of services prescribed by this Contract do not change the independent status of **H-GAC** or **CONTRACTOR**. No provision of this Contract or act of **H-GAC** in performance of this Contract shall be construed as making **CONTRACTOR** the agent, servant or employee of **H-GAC**, the State of Texas or the United States Government. Employees of **CONTRACTOR** are subject to the exclusive control and supervision of **CONTRACTOR**. **CONTRACTOR** is solely responsible for employee payrolls and claims arising therefrom.

**ARTICLE 6:**

**END USER AGREEMENTS**

**H-GAC** acknowledges that the **END USER** may choose to enter into an End User Agreement with the **CONTRACTOR** through this Contract and that the term of said Agreement may exceed the term of the **H-GAC Contract**. However this acknowledgement is not to be construed as **H-GAC's** endorsement or approval of the End User Agreement terms and conditions. **CONTRACTOR** agrees not to offer to, agree to or accept from **END USER** any terms or conditions that conflict with or contravene those in **CONTRACTOR's H-GAC contract**. Further, termination of this Contract for any reason shall not result in the termination of the underlying End User Agreements entered into between **CONTRACTOR** and any **END USER** which shall, in each instance, continue pursuant to their stated terms and duration. The only effect of termination of this Contract is that **CONTRACTOR** will no longer be able to enter into any new End User Agreements with **END USERS** pursuant to this Contract. Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any End User Agreements surviving termination of this Contract between **H-GAC** and **CONTRACTOR**.

**ARTICLE 7:**

**SUBCONTRACTS & ASSIGNMENTS**

**CONTRACTOR** agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Contract or any right, title, obligation or interest it may have therein to any third party without prior written notice to **H-GAC**. **H-GAC** reserves the right to accept or reject any such change. **CONTRACTOR** shall continue to remain responsible for all performance under this Contract regardless of any subcontract or assignment. **H-GAC** shall be liable solely to **CONTRACTOR** and not to any of its Subcontractors or Assignees.

**ARTICLE 8:**

**EXAMINATION AND RETENTION OF CONTRACTOR'S RECORDS**

**CONTRACTOR** shall maintain during the course of its work, complete and accurate records of items that are chargeable to **END USER** under this Contract. **H-GAC**, through its staff or its designated public accounting firm, the State of Texas, or the United States Government shall have the right at any reasonable time to inspect copy and audit those records on or off the premises of **CONTRACTOR**. Failure to provide access to records may be cause for termination of this Contract. **CONTRACTOR** shall maintain all records pertinent to this Contract for a period of not less than five (5) calendar years from the date of acceptance of the final contract closeout and until any outstanding litigation, audit or claim has been resolved. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. **CONTRACTOR** further agrees to include in all subcontracts under this Contract, a provision to the effect that the subcontractor agrees that **H-GAC'S** duly authorized representatives, shall, until the expiration of five (5) calendar years after final payment under the subcontract or until all audit findings have been resolved, have access to, and the right to examine and copy any directly pertinent books, documents, papers, invoices and records of such subcontractor involving any transaction relating to the subcontract.

**ARTICLE 9:**

**REPORTING REQUIREMENTS**

**CONTRACTOR** agrees to submit reports or other documentation in accordance with the General Terms and Conditions of the Bid Specifications. If **CONTRACTOR** fails to submit to **H-GAC** in a timely and satisfactory manner any such report or documentation, or otherwise fails to satisfactorily render performance hereunder, such failure may be considered cause for termination of this Contract.

**ARTICLE 10:**

**MOST FAVORED CUSTOMER CLAUSE**

If **CONTRACTOR**, at any time during this Contract, routinely enters into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to **H-GAC** on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to **H-GAC**, **CONTRACTOR** shall notify **H-GAC** within ten (10) business days thereafter of that offering and this Contract shall be deemed to be automatically amended effective retroactively to the effective date of the most favorable contract, wherein **CONTRACTOR** shall provide the same prices, warranties, benefits, or terms to **H-GAC** and its **END USER**. **H-GAC** shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **CONTRACTOR** is of the opinion that any apparently more favorable price, warranty, benefit, or term charged and/or offered a customer during the term of this Contract is not in fact most favored treatment, **CONTRACTOR** shall within ten (10) business days notify **H-GAC** in writing, setting forth the detailed reasons **CONTRACTOR** believes aforesaid offer which has been deemed to be a most favored treatment, is not in fact most favored treatment. **H-GAC**, after due consideration of such written explanation, may decline to accept such explanation and thereupon this Contract between **H-GAC** and **CONTRACTOR** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties, benefits, or terms to **H-GAC**.

The Parties accept the following definition of routine: A prescribed, detailed course of action to be followed regularly; a standard procedure.

*EXCEPTION: This clause shall not be applicable to prices and price adjustments offered by a bidder, proposer or contractor, which are not within bidder's/ proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.*

**ARTICLE 11:**

**SEVERABILITY**

All parties agree that should any provision of this Contract be determined to be invalid or unenforceable, such determination shall not affect any other term of this Contract, which shall continue in full force and effect.

**ARTICLE 12:**

**DISPUTES**

Any and all disputes concerning questions of fact or of law arising under this Contract, which are not disposed of by agreement, shall be decided by the Executive Director of **H-GAC** or his designee, who shall reduce his decision to writing and provide notice thereof to **CONTRACTOR**. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, **CONTRACTOR** requests a rehearing from the Executive Director of **H-GAC**. In connection with any rehearing under this Article, **CONTRACTOR** shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. **CONTRACTOR** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, **CONTRACTOR** shall proceed diligently with the performance of this Contract and in accordance with **H-GAC'S** final decision.

**ARTICLE 13:**

**LIMITATION OF CONTRACTOR'S LIABILITY**

Except as specified in any separate writing between the **CONTRACTOR** and an **END USER**, **CONTRACTOR**'s total liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify **H-GAC** described in Article 14, is limited to the price of the particular products/services sold hereunder, and **CONTRACTOR** agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will **CONTRACTOR** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. **CONTRACTOR** understands and agrees that it shall be liable to repay and shall repay upon demand to **END USER** any amounts determined by **H-GAC**, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Contract.

**ARTICLE 14:**

**LIMIT OF H-GAC'S LIABILITY AND INDEMNIFICATION OF H-GAC**

**H-GAC**'s liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will **H-GAC** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless **H-GAC**, its board members, officers, agents, officials, employees, and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgments, and liens arising as a result of **CONTRACTOR**'s negligent act or omission under this Contract. **CONTRACTOR** shall notify **H-GAC** of the threat of lawsuit or of any actual suit filed against **CONTRACTOR** relating to this Contract.

**ARTICLE 15:**

**TERMINATION FOR CAUSE**

**H-GAC** may terminate this Contract for cause based upon the failure of **CONTRACTOR** to comply with the terms and/or conditions of the Contract; provided that **H-GAC** shall give **CONTRACTOR** written notice specifying **CONTRACTOR**'S failure. If within thirty (30) days after receipt of such notice, **CONTRACTOR** shall not have either corrected such failure, or thereafter proceeded diligently to complete such correction, then **H-GAC** may, at its option, place **CONTRACTOR** in default and the Contract shall terminate on the date specified in such notice. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation was received by **CONTRACTOR**.

**ARTICLE 16:**

**TERMINATION FOR CONVENIENCE**

Either **H-GAC** or **CONTRACTOR** may cancel or terminate this Contract at any time by giving thirty (30) days written notice to the other. **CONTRACTOR** may be entitled to payment from **END USER** for services actually performed; to the extent said services are satisfactory to **END USER**. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation is received by **CONTRACTOR**.

**ARTICLE 17:**

**CIVIL AND CRIMINAL PROVISIONS AND SANCTIONS**

**CONTRACTOR** agrees that it will perform under this Contract in conformance with safeguards against fraud and abuse as set forth by **H-GAC**, the State of Texas, and the acts and regulations of any funding entity. **CONTRACTOR** agrees to notify **H-GAC** of any suspected fraud, abuse or other criminal activity related to this Contract through filing of a written report promptly after it becomes aware of such activity.

**ARTICLE 18:**

**GOVERNING LAW & VENUE**

This Contract shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with this Contract shall lie exclusively in Harris County, Texas. Disputes between **END USER** and **CONTRACTOR** are to be resolved in accord with the law and venue rules of the state of purchase. **CONTRACTOR** shall immediately notify **H-GAC** of such disputes.

**ARTICLE 19:**

**PAYMENT OF H-GAC ORDER PROCESSING CHARGE**

**CONTRACTOR** agrees to sell its products to **END USERS** based on the pricing and other terms of this Contract, including, but not limited to, the payment of the applicable **H-GAC** order processing charge. On notification from an **END USER** that an order has been placed with **CONTRACTOR**, **H-GAC** will invoice **CONTRACTOR** for the applicable order processing charge. Upon delivery of any product/service by **CONTRACTOR** and acceptance by **END USER**, **CONTRACTOR** shall, within thirty (30) calendar days or ten (10) business days after receipt of payment, whichever is less, pay **H-GAC** the full amount of the applicable order processing charge, whether or not **CONTRACTOR** has received an invoice from **H-GAC**. For sales made by **CONTRACTOR** based on this contract, including sales to entities without Interlocal Contracts, **CONTRACTOR** shall pay the applicable order processing charges to **H-GAC**. Further, **CONTRACTOR** agrees to encourage entities who are not members of **H-GAC**'s Cooperative Purchasing Program to execute an **H-GAC** Interlocal Contract. **H-GAC** reserves the right to take appropriate actions including, but not limited to, contract termination if **CONTRACTOR** fails to promptly remit **H-GAC**'s order processing charge. In no event shall **H-GAC** have any liability to **CONTRACTOR** for any goods or services an **END USER** procures from **CONTRACTOR**.

**ARTICLE 20:**

**LIQUIDATED DAMAGES**

Any liquidated damages terms will be determined between **CONTRACTOR** and **END USER** at the time **END USER**'s purchase order is placed.

**ARTICLE 21:**

**PERFORMANCE AND PAYMENT BOND FOR INDIVIDUAL ORDERS**

**H-GAC**'s contractual requirements **DO NOT** include a Performance & Payment Bond (PPB), and offered pricing should reflect this cost saving. However, **CONTRACTOR** must be prepared to offer a PPB to cover any specific order if so requested by **END USER**. **CONTRACTOR** shall quote a price to **END USER** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **END USER**'s purchase order.

**ARTICLE 22:**

**CHANGE OF CONTRACTOR STATUS**

**CONTRACTOR** shall immediately notify **H-GAC**, in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name, and shall also advise whether or not this Contract shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Contract.

**ARTICLE 23:**

**LICENSING REQUIRED BY TEXAS MOTOR VEHICLE BOARD [IF APPLICABLE]**

**CONTRACTOR** will for the duration of this Contract maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Contract period, any **CONTRACTOR'S** license is not renewed, or is denied or revoked, **CONTRACTOR** shall be deemed to be in default of this Contract unless the Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed by their duly authorized representatives.

Signed for **Houston-Galveston**  
Area Council, Houston, Texas:

  
\_\_\_\_\_  
Jack Steele, Executive Director

Attest for **Houston-Galveston**  
Area Council, Houston, Texas:

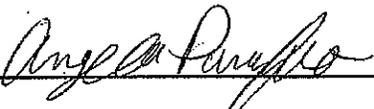
  
\_\_\_\_\_  
Deidre Vick, Director of Public Services  
Date: Nov 9, 2014

Signed for **Vac-Con, Inc.**  
Green Cove Springs, Florida:

  
\_\_\_\_\_  
Todd M. Masley, Sales Manager  
Printed Name & Title: \_\_\_\_\_

Date: November 24, 20 14

Attest for **Vac-Con, Inc.**  
Green Cove Springs, Florida:

  
\_\_\_\_\_  
Angela Passafaro, Sales Coordinator  
Printed Name & Title: \_\_\_\_\_

Date: November 24, 20 14

**Attachment A**  
**Vac-Con, Inc.**  
**Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous**  
**Services**  
**Contract No.: SC01-15**

<b>H-GAC PRODUCT ITEM BASE OFFERING PRICES</b>		
<b>H-GAC Product Code</b>	<b>Description</b>	<b>Base Offered Price 2015</b>
<b>VAC-CON, Inc</b>		
<b>A. Sewer Cleaners, Centrifugal Compressor Fan Type, For Truck Mounting</b>		
A001	Combination Sewer Cleaner, 3 yd Debris Body, Single Engine	\$130,420
A002	Combination Sewer Cleaner, 9 yd Debris Body, Dual Engine	\$144,056
A003	Combination Sewer Cleaner, 9 Yd Debris Body, Single Engine	\$144,130
<b>B. Sewer Cleaners, Positive Displacement Type, For Truck Mounting</b>		
B043	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Single Engine	\$167,017
B044	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Dual Engine	\$165,962
<b>C. Jet Rodders, For Truck &amp; Trailer Mounting</b>		
C102	HS-1000 Truck Mounted Jet Rodding Machine, 1000 Gal	\$86,473
C103	HS-1600 Truck Mounted Jet Rodding Machine, 1600 Gal	\$89,632
<b>D. Hydroexcavators, Truck &amp; Trailer Mounted</b>		
D089	Truck Mounted Hydro-Excavator	\$156,491



LOGIN

- GENERAL PURPOSE & EMERGENCY VEHICLES
- INFRASTRUCTURE EQUIPMENT & SERVICES
- COMMUNICATIONS EQUIPMENT & SERVICES
- GROUNDS FACILITIES & PARKS EQUIPMENT
- PUBLIC WORKS EQUIPMENT
- EMERGENCY EQUIPMENT & SUPPLIES
- CONSULTING LEASING & STAFFING SERVICES
- EMERGENCY PREPAREDNESS & DISASTER RECOVERY
- COOPERATIVE ENERGY PURCHASING

You are here: [Home](#) > Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services - SC01-15

## PUBLIC WORKS EQUIPMENT

### SEWER CLEANING, HYDRO-EXCAVATING, INSPECTION EQUIPMENT & MISCELLANEOUS SERVICES - SC01-15

Contract No.: SC01-15

Effective Date: January 1, 2015 thru December 31, 2017

Note: Contact information on the right side bar will be listed only after the Contractor has fully executed their contract.

#### Categories of Equipment & Services

- A. Sewer/Pipeline Cleaners, Centrifugal Compressor Fan Type, Truck Mounted
- B. Sewer/Pipeline Cleaners, Positive Displacement Type, Truck Mounted
- C. Jet Rodders, Truck & Trailer Mounted
- D. Hydro-Excavators, Truck & Trailer Mounted
- E. Standard Portable Sewer/Pipeline Inspection Systems
- F. Explosion-Proof Portable Sewer/Pipeline Inspection Systems
- G. Sewer/Pipeline Inspection Vans & Trailers
- H. Miscellaneous Sewer Equipment
- I. Miscellaneous Sewer Cleaning Services

- [Aries Industries, Inc](#)
- [CLS Sewer Equipment Co.](#)
- [Optical Robotics LLC dba Cobra Technologies](#)
- [ELXSI /dba CUES](#)
- [Douglas Products & Packaging Co. LLC](#)
- [Duke's Root Control](#)
- [Durand-Wayland, Inc.](#)
- [Economy Drilling Solutions](#)
- [Envirosight, LLC](#)
- [GapVax, Inc.](#)
- [Gradall Industries, Inc.](#)
- [Harben, Inc.](#)
- [Hi-Vac Corporation](#)
- [Infrastructure Technologies, LLC](#)
- [KEG Technologies, Inc.](#)
- [Kinloch Equipment & Supply, Inc.](#)
- [Rausch Electronics USA, LLC](#)
- [Ring-O-Matic, Inc.](#)
- [R.S. Technical Services, Inc.](#)
- [Sewer Equipment Co. of America](#)
- [Super Products, LLC](#)
- [Texas Municipal Equipment, LLC](#)
- [Texas Underground, Inc.](#)
- [Trojan Worldwide Inc.](#)
- [VAC-CON, Inc.](#)

#### Aries Industries, Inc

Contractors: Aries Industries, Inc., Rodders & Jets Supply Co.

#### Categories of Equipment & Services Offered: E, G & H

#### Category E - Standard Portable Sewer/Pipeline Inspection Systems (Aries)

Product Code	Model & Description	Base Price
E001	Saturn III "4.70.34 Portable Mainline Pull System", including: ST930 straight view camera; TR2000 tread drive tractor for 6"-15" lines; Saturn Control Unit (SCU) with integral LCD monitor, VL5000 data display system, and DVR; PR7230 portable reel with 500' multi-conductor cable; maintenance kit; and downhole equipment.	\$33,065
E002	Seeker "SK3200 Portable Pipeline Inspection System", including: ST930 miniature self-leveling inspection camera, Seeker frame with reel and LCD monitor, 200' of push rod cable, camera mounting spring neck with 512Hz locating beacon, and push skids for 3" to 6" pipe.	\$8,107
E003	Pathfinder "4.70.39 Portable Inspection System", including: PE3800 Pathfinder camera; TR3300 Pathfinder tractor for reeled 6" to 24" lines; Saturn Control Unit (SCU) with integral LCD monitor, VL5000 data display system, and DVR; PR3300 Pathfinder reel with 1000' cable; maintenance kit; and downhole equipment.	\$44,233

#### Category G - Sewer/Pipeline Inspection Vans & Trailers (Aries)

G001	Hi-Cube Van Installation "2.02.51 Hi-Cube Mounted Inspection System", including: 16' aluminum hi-cube body; basic hi-cube interior carpentry and outfitting; 5.5kW on-board generator; PE2820 LED pan and tilt camera; rack-mounted Power Control Unit (PCU); VL5000 data display system with 15" LCD monitor; DVD rack mounted recorder, PR1200 reel with 1000' of multi-conductor cable; TR2000 tread drive tractor for 6"-15" lines; maintenance kit; and downhole equipment.	\$106,500
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#### H-GAC CONTACTS

- **Loleta Chappel**  
(P): 713-993-2486  
(F): 713-993-4548  
[loleta.chappel@h-gac.com](mailto:loleta.chappel@h-gac.com)

#### VENDOR CONTACTS

- **Aries Industries, Inc.**  
Mike Burczyk  
(P): 262-446-5631  
(F): 262-446-5690  
[Click here for Email](#)
- **Associated Supply Company, Inc. (ASCO)**  
Don Norton  
(P): 281-987-1990  
(F): 281-987-1393  
[Click here for Email](#)
- **Bell Equipment Company**  
Dan Bell  
(P): 248-370-0000  
(F): 248-370-0011  
[Click here for Email](#)
- **Best Equipment Co., Inc.**  
Jerry Schroeder  
(P): 317-823-3050  
(F): 317-823-3060  
[Click here for Email](#)
- **Bruce Municipal Equipment**  
Dan Gage  
(P): 800-252-4799  
(F): 651-645-6668  
[Click here for Email](#)
- **CLS Sewer Equipment Co. Inc.**  
Jerry Sonnier  
(P): 972-479-1335  
(F): 972-479-1336  
[Click here for Email](#)
- **Douglas Products & Packaging Co., LLC**  
Heather Wallace  
(P): 800-223-3684  
(F): 816-781-1043  
[Click here for Email](#)
- **Duke's Root Control, Inc.**  
Brian Conroy  
(P): 315-472-4781  
(F): 315-475-4203  
[Click here for Email](#)
- **Durand-Wayland, Inc.**  
Jody Purdy  
(P): 800-241-2308  
(F): 706-884-3268  
[Click here for Email](#)
- **Economy Drilling Solutions**  
Curt Pool  
(P): 972-434-4409  
(F): 972-219-8683  
[Click here for Email](#)
- **Elxsi d/h/a Cues**  
Paul Stenzler  
(P): 800-327-7791  
(F): 407-425-1569  
[Click here for Email](#)
- **Environmental Products of Florida, Corp**  
Jeff Haase  
(P): 407-798-0004  
(F): 404-693-9700  
[Click here for Email](#)
- **Environmental Products of Georgia**  
Casey Meehan  
(P): 404-693-9700  
(F): 404-693-9690  
[Click here for Email](#)
- **Envirosight, LLC**  
Tammy Smith

E059	Portable Inspection System 1.5" to 4" Micro Camera, push-rod 100' length cable, 7" LCD display with standard black and white camera (color optional), 512Hz & 874Hz locating antenna, 12 battery, text writer, light control, footage counter, skid, video out, DVR optional.	\$2,395
E060	Portable Inspection System 2" to 6" Mini Camera, push-rod 200' length cable, 7" LCD display with standard black and white camera (color optional), 512Hz & 874Hz locating antenna, 12 battery, text writer, light control, footage counter, skid, video out, DVR optional.	\$3,395

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**VAC-CON, Inc.**

Contractors: VAC-CON, Inc.

Category of Equipment & Services Offered: A, B, C & D

Category C - Jet Rodders, Truck & Trailer Mounted (Vac-Con)

Product Code	Model & Description	Base Price
A001	Combination Sewer Cleaner, 3 yd Debris Body, Single Engine	\$130,420
A002	Combination Sewer Cleaner, 9 yd Debris Body, Dual Engine	\$144,056
A003	Combination Sewer Cleaner, 9 Yd Debris Body, Single Engine	\$144,130

Category B - Sewer/Pipeline Cleaners, Positive Displacement Type, Truck Mounted (Vac-Con)

B043	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Single Engine	\$167,017
B044	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Dual Engine	\$165,962

Category C - Jet Rodders, Truck & Trailer Mounted (Vac-Con)

C102	HS-1000 Truck Mounted Jet Rodding Machine, 1000 Gal	\$86,473
C103	HS-1600 Truck Mounted Jet Rodding Machine, 1600 Gal	\$89,632

Category D - Hydro-Excavators, Truck & Trailer Mounted (Vac-Con)

D089	Truck Mounted Hydro-Excavator	\$156,491
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**CONTRACT PRICING WORKSHEET**  
For Standard Equipment Purchases

Contract No.:

SC01-15

Date Prepared:

3/26/2015

*"This Worksheet is prepared by Contractor and given to End User.*

*If a PO is issued, all documents MUST be faxed to H-GAC @ 713-993-4548. Therefore please type or print legibly.*

**ANY CHANGES TO HGAC OFFER MUST BE MADE BY VAC-CON.**

*Please make Purchase Order out to Vac-Con, Inc. 969 Hall Park Rd., Green Cove Springs, FL 32043*

*Remit to Vac-Con, Inc. at JP Morgan Chase, 24295 Network Place, Chicago, IL 60673-1242*

*or Wire Transfer Funds to Vac-Con Acct #754249605 at JP Morgan Chase ABA 021000021 Swift #CHASUS33 ACH #07100013 "*

Buying Agency:	City of Sacramento, 5730 24th Street, Sacramento, CA 95822	Contractor:	VAC-CON, INC.
Contact Person:	Isena Y. Garcia, CAFM Program Specialist	Prepared By:	ANGELA PASSAFARO
Phone:	916-808-1163	Phone:	904-529-1315
Fax:	916-399-9263	Fax:	904-284-3305
Email:		Email:	angelap@vac-con.com

Product Code:	A002	Description:	DUAL ENGINE FAN COMBINATION UNIT 9 CU YD
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**A. Product Item Base Unit Price Per Contractor's H-GAC Contract:** \$144,056.00

**B. Published Options - Itemize below - Attach additional sheet if necessary - Include Option Code in description if applicable**  
(Note: Published Options are options which were submitted and priced in Contractor's bid.)

Description	Cost
Subtotal Options & Accessories - see attached sheets B1:	\$134,383.00
Subtotal Chassis (Not Available to Customers in the State of TX) see attached sheets B2:	\$87,962.00
Subtotal From Additional Sheet(s):	
<b>FINAL MODEL NUMBER: V350LXHA-O/850</b>	<b>Subtotal B: \$222,345.00</b>

**C. Unpublished Options - Itemize below - Attach additional sheet if necessary**  
(Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
Must be continuous Piranha hose	\$0.00	Expanded metal tray mounted drivers side between fuel tank and water tank, capable of holding 12" baskets	\$350.00
(2) Rear cone racks to be mounted per attached photo	\$0.00	Cone rack mounted on top of drivers side by fuel tank expanded metal tray	\$150.00
(2) Trucks Keyed alike	\$0.00	All Floodlights to be Whelen Micro Pioneer Model MPPBBS	\$1,400.00
Additional tube rack to be mounted behind front hose reel	\$0.00	Rear Arrowstick Whelen part #TA125NF2	\$2,434.00
Trash pump flushout mounted on bun between debris body and pump	\$472.00	Install Customer Supplied Zonar on Dash and City logo and #'s on doors	\$400.00
Inverter hard wired inside cab Cobra Model CPI 880	\$1,000.00	Partner desk, MME to ship	\$1,100.00
ENZ 50.075G	\$4,118.00	Debris body up warning light/alarm dash mounted	\$375.00
Mail slot 14"x20"x5" deep mounted on rear bulkhead behind partner desk	\$175.00	(4) Camera system (back up, 2 side mounts, front hose reel location model zone defense part #cam.313c, cam.313ms	\$3,196.00
ENZ 400.080 BS (jetted 50 gpm)	\$3,300.00	Grote triangles	\$150.00
ENZ 400.060 BS with Bushing (jetted 30 gpm)	\$3,190.00	Level wind light to be Whelen pioneer nano part #NP6BB	\$470.00
ENZ40.075 (jetted 30 gpm)	\$640.00	Forward Facing LED arrowstick Whelen part #TANF85	\$2,265.00
Large round in-cab dome light Whelen part #60U0EJCS	\$285.00	(6) Gromet mounted LED strobes to be mounted 4 corners and midship both sides Whelen part #5VA02ZAR	\$1,870.00

6" Tall expanded metal tray mounted full length and width on top of rear toolboxes and behind cab tool box	\$875.00	Tool box LED rope lighting with separate switch in box	\$457.00
Expanded metal trays 4" tall as long as possible mounted in between rear toolboxes and behind cab tool box	\$675.00	(1) Rear debris body mounted strobe with limb guard Whelen L31HAF	\$650.00
Rack mounted on front of behind cab tool box able to carry 6 sign standards city to approve size and location	\$1,275.00	<b>Subtotal From Additional Sheet(s):</b>	\$10,565.00
Largest possible expanded metal tool tray mounted below passenger side cab door	\$400.00	<b>Subtotal C:</b>	\$42,237.00
<b>Check: Total cost of Unpublished Options (C) cannot exceed 25% of the total of the Base Unit Price plus Published Options (A+B).</b>		<b>For this transaction the percentage is:</b>	12%
<b>D. Total Cost before any other applicable Charges, Trade-Ins, Allowances, Discounts, Etc. (A+B+C)</b>			
<b>Quantity Ordered:</b>	1	<b>X Subtotal of A + B + C:</b>	\$408,638.00 = <b>Subtotal D:</b> \$408,638.00
<b>E. Trade-Ins / Special Discounts / Other Allowances / Freight / Installation / Miscellaneous Charges</b>			
<b>Description</b>	<b>Cost</b>	<b>Description</b>	<b>Cost</b>
Delivery	\$6,350.00		
8.5% Sales Tax	\$34,734.23		
Factory Inspection Trip (1 person per truck)	\$1,448.00		
PERP Permit for Aux. Engine to be processed by MME	\$620.00		
		<b>Subtotal E:</b>	\$43,152.23
<b>Delivery Date:</b>		<b>F. Total Purchase Price (D+E):</b>	\$451,790.23
		<b>G. Total Purchase Price of Two Units (Fx2)</b>	\$903,580.46

**C. Unpublished Options - Itemize below - Attach additional sheet if necessary**  
 (Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
All toolboxes to include condensation and drain vents	\$400.00	(3) 25' Sections of lay flat hose with male female cam locks	\$270.00
Piranha hose 1000' continuous	\$400.00	(4) Sets of Keys	\$400.00
(2) Rear mounted cone racks mounted below deck	\$300.00	Blue Tooth/MP3 Capable Radio Set Governor on Chassis to 65mph	\$300.00
(2) 3" PVC tool racks 6' long mounted where space allows	\$150.00	(1) Standard analog water pressure gauge at front hose reel location	\$500.00
(2) Boom mounted strobes Whelen part#L31HAF	\$1,300.00	Upgrade: John Deere Tier 4 Technology, Model 4045HFC04 EPA Certified 140HP @2400 RPM	\$6,320.00
(3) 3" PVC tool racks 16' long mounted below subframe	\$225.00		
<b>Subtotal of Additional Sheet:</b>			<b>\$10,565.00</b>



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002
Offeror Name:	VAC-CON, INC.	
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous	

H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Offered Price	Qty	Total
A002	A002	Description			
	A002-1	Base Model. Includes the following	V200H/1000		
		Standard Equipment:	DUAL ENGINE FAN COMBINATION UNIT 9 CU YD		

Vacuum System (as specified by Model Number)  
 Vacuum Drive: Hydrostatic Drive  
 3/16" Corten Steel Debris Tank - (size as specified by model number)  
 Full opening rear door  
 5" Butterfly valve with 10' layflat hose  
 Debris tank Dumping: minimum 50 deg., hydraulic scissors lift - power up/power down  
 Polyethylene water tank - 10 year warranty  
 Automatic Vacuum Breaker and overflow protection  
 8" vacuum intake hose  
 Boom travel tie down  
 4 Way hydraulic boom with 270 deg. Rotation and joystick controls  
 Front mounted 600' capacity (1" hose)/hydraulic hose reel  
 60 gpm/2000 psi water pump system  
 Water pump drive: Standard Aux. Engine is WSG-1068 6.8 Litre, 10-Cylinder, Gas Engine 222HP @3200RPM  
 600' high pressure jet rodder hose (1" or 3/4")  
 Manual hose rewind guide  
 Hose guide (Tiger Tail)  
 30' leader hose  
 20 gpm at 600 psi wash down hand gun with 35' of hose and nozzle  
 Sealed and locking tool box (es) (as indicated by model number)  
 1) each sanitary and penetrator nozzles - 3/4" 50 GPM Standard Nozzle, 3/4" 50 GPM Chisel Nozzle  
 20.5' aluminum intake pipe(1-3', 1-5', 1-6', and 1-6.5' nozzle)  
 ICC lighting  
 DuPont Elite Polyurethane Paint  
 Back up alarm  
 Debris Body "Power Flush" System, 8 jets  
 Revolving light with guard, rear debris tank door mounted  
 Hose footage counter (Curb side)  
 10' of handgun hose (35' total)  
 Overspeed warning light for water pump  
 12 month standard warranty - see certificate for details  
 Note: PD Units Include Price for required Hydrostatic Drive Option.  
 5# Fire Extinguisher  
 Set Triangles



Models	Description	Additional Information	Offered Price	Qty	Total
A002-2	250H/650	Includes: 2 Stage Vac-Con Blower, Hydrostatic Drive, 5 CY Debris Tank, 650 Gal H2O, 4X2 and Rolling Bogies	\$2,523.00		
A002-3	350H/650	Includes: 3 Stage Vac-Con Blower, Hydrostatic Drive, 5 CY Debris Tank, 650 Gal H2O, 4X2 and Rolling Bogies	\$12,727.00		
A002-4	250/850	Includes: 2 Stage Vac-Con Blower, 5 CY Debris Tank, 850 Gal H2O, 4X2 and Rolling Bogies	\$1,260.00		
A002-5	250/1000	Includes: 2 Stage Vac-Con Blower, 5 CY Debris Tank, 1000 Gal H2O, 4X2 and Rolling Bogies	\$2,498.00		
A002-6	350/850	Includes: 3 Stage Vac-Con Blower, 5 CY Debris Tank, 850 Gal H2O, 4X2 and Rolling Bogies	\$10,284.00	1	\$ 10,284.00
A002-7	350/1000	Includes: 3 Stage Vac-Con Blower, 5 CY Debris Tank, 1000 Gal H2O, 4X2 and Rolling Bogies	\$11,931.00		
A002-8	290/850	Includes: 2 Stage Vac-Con Blower, 9 CY Debris Tank, 850 Gal H2O, 4X2	(\$1,700.00)		
A002-9	290/1000	Includes: 2 Stage Vac-Con Blower, 9 CY Debris Tank, 1000 Gal H2O, 4X2	\$0.00		
A002-10	390/850	Includes: 3 Stage Vac-Con Blower, 9 CY Debris Tank, 850 Gal H2O, 4X2	\$7,801.00		
A002-11	390/1000	Includes: 3 Stage Vac-Con Blower, 9 CY Debris Tank, 1000 Gal H2O, 4X2	\$9,437.00		
A002-12	211E/850	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$14,637.00		
A002-13	211E/1000	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$15,298.00		
A002-14	211E/1300	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$14,637.00		



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC Product Code		Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
H-GAC 'FORM E' - OPTIONS PRICING				A002		
Offeror Name:		VAC-CON, INC.				
Invitation No.:		SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
	A002-15	211E/1500	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6x4. Cannot be used with High Dump.	\$19,684.00		
	A002-16	311E/850	Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$17,774.00		
	A002-17	311E/1000	Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$19,171.00		
	A002-18	311E/1300	Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$24,020.00		
	A002-19	311E/1500	Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$29,066.00		
	A002-20	212E/850	Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$12,926.00		
	A002-21	212E/1000	Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$14,458.00		
	A002-22	212E/1300	Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$19,593.00		
	A002-23	312E/850	Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$22,371.00		
	A002-24	312E/1000	Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$24,020.00		
	A002-25	312E/1300	Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$28,972.00		
	A002-26	212E/1500	Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$28,972.00		
	A002-27	312E/1500	Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$36,652.00		
	A002-28	216E/1300	Includes: 2 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1300 Gal H2O, 6X4. Consult Factory on Rear Axle Requirements, Extended Frame	\$31,472.00		
	A002-29	316E/1300	Includes: 3 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1300 Gal H2O, 6X4. Consult Factory on Rear Axle Requirements, Extended Frame	\$41,056.00		
	A002-30	216E/1500	Includes: 2 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1500 Gal H2O, Extended Frame, 6X4. Consult Factory on Rear Axle Requirements	\$45,730.00		
	A002-31	316E/1500	Includes: 3 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1500 Gal H2O, Extended Frame, 6X4. Consult Factory on Rear Axle Requirements. Cannot be used with High Dump.	\$55,150.00		
	A002-32	Mounting Charge	Required for Every Vehicle	\$2,416.00	1	\$ 2,416.00
<b>Booms</b>						
		<b>Description</b>	<b>Additional Information</b>			
	A002-33	Fixed Boom - Standard	Standard	\$ -		
	A002-34	6' Aluminum Telescoping Boom with Pendant Control Station		\$ 8,235.00		
	A002-35	10' Aluminum Telescoping Boom with Pendant Control Station		\$ 12,360.00		
	A002-36	6' Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station	10" Boom Inlet, Boom and Elbow with 10" to 8" Adapter & 8" hose	\$ 14,203.00		
	A002-37	10' Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station	10" Boom Inlet, Boom and Elbow with 10" to 8" Adapter & 8" hose	\$ 18,327.00	1	\$ 18,327.00
<b>Blower Drives</b>						
		<b>Description</b>	<b>Additional Information</b>			
	A002-38	Hydrostatic Drive	Option Price	\$ 8,814.00		
	A002-39	Hydrostatic Drive	if included in base price	\$ -	1	\$ -
	A002-40	Split Shaft PTO	Standard	\$ -		
	A002-41	High Volume Hydrostatic Drive Upgrade	Option Price	\$ 10,569.00		



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC Product Code		Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Optional Price if Hydrostatic Drive is included in Base Price		
H-GAC 'FORM E' - OPTIONS PRICING					A002	
Offeror Name:		VAC-CON, INC.				
Invitation No.:		SC01-15 - Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code		Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Optional Price if Hydrostatic Drive is included in Base Price		
		A002-42	High Volume Hydrostatic Drive Upgrade when Hydrostatic is included in base machine price	\$ 1,758.00		
		Hose Reels				
		Description		Additional Information		
		A002-43	Front Mounted, Fixed, Standard	\$ -		
		A002-44	Front Mounted, Fixed, 800' (1") Capacity	\$ 3,150.00		
		A002-45	Front Mounted, Articulating to Driver Side (Std Pivot)	\$ 12,214.00	1	\$ 12,214.00
		A002-46	Front Mounted, Articulating to Driver Side, 800' (1") Capacity	\$ 15,363.00		
		A002-47	Front Mounted, Articulating to Passenger Side (Reverse Pivot)	\$ 12,253.00		
		A002-48	Front Mounted, Articulating to Passenger Side, 800' (1") Capacity	\$ 15,403.00		
		A002-50	Rear Mounted, Articulating Hose Reel	\$ 12,227.00		
		A002-51	Rear Mounted, Articulating Hose Reel, 800' Capacity	\$ 15,363.00		
		A002-52	Front Mounted Swivel Hose Reel, 600' (1") Capacity	\$ 8,780.00		
		A002-53	Rear Mounted Swivel Hose Reel, 600' (1") Capacity	\$ 8,525.00		
		Hose Reel Options				
		Description		Additional Information		
		A002-54	Pivoting Shield / Lexan	\$ 2,500.00		
		A002-55	Hose Reel Shield / Lexan	\$ 1,519.00		
		A002-56	Hose Reel Cage	\$ 1,050.00		
		A002-57	Automatic Power Guide (711-50627), includes electronic footage for either Omnibus or Non-Omnibus units.	\$ 4,903.00		
		A002-58	Electro Magnet for outrigger leg	\$ 4,393.00		
		A002-59	Pinch Roller for Automatic Level Wind	\$ 2,079.00		
		Water Systems				
		Description		Additional Information		
		A002-60	30 gpm/3000 psi Pump - 10 cylinder WSG-1068 Gas	\$ -		
		A002-61	30 gpm/3000 psi Pump - FMC / Hydro-Excavation Package	\$ -		
		A002-62	60 gpm/2000 psi Pump 10-Cylinder WSG-1068 Gas	\$ -		
		A002-63	65 gpm/2000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
		A002-64	60 gpm/2500 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
		A002-65	50 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -	1	\$ -
		A002-66	80 gpm/2000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
		A002-67	80 gpm/2500 psi Pump - 10-Cylinder WSG-1068 Gas	\$ 8,817.00		
		A002-68	60 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
		A002-69	65 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
		A002-70	80 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ 8,817.00		
		A002-71	120 gpm/2000 psi Water System (Includes 500' x 1/4" Hose & 800' Capacity Reel) - 10-Cylinder WSG-1068 Gas	\$ 21,875.00		
		Water Systems Options				
		Description		Additional Information		
		A002-72	Winter Recirculating System for Rodder Hose	\$ 933.00		
		A002-73	Winter Recirculating connection for low pressure circuit.	\$ 234.00		
		A002-74	Winter Recirculating connection for high pressure circuit.	\$ 402.00		
		A002-75	Artic Winter Recirculating System for rodder hose, includes plumbing to upper water tanks.	\$ 1,172.00		
		A002-76	Air Purge System	\$ 755.00	1	\$ 755.00
		A002-77	Drivers Side Hand Gun Connection	\$ 271.00		
		A002-78	Rear Hand Gun Connection	\$ 271.00		
		A002-79	Front Bumper Hand Gun Connection	\$ 315.00		
		A002-80	Pre-Tank Water Filter (In-line)	\$ 315.00		
		A002-81	Pre-Tank Water Filter (Y-type)	\$ 842.00		
		A002-82	2 1/2" Water Drain Gate Valve Assembly (cannot choose both 2-1/2" gate valve and 1/4 turn ball valve, only choose one)	\$ 265.00	1	\$ 265.00
		A002-83	1/4 turn ball valve water drain ( cannot choose both 2-1/2" gate valve and 1/4 turn ball valve, only choose one)	\$ 412.00		
		A002-84	Automatic Continuous Fill System	\$ 1,976.00		
		A002-85	Folding Spray Bar Assembly with In Cab Controls	\$ 3,407.00		
		A002-86	Variable Flow Valve (Valve Only ) - nozzles required	\$ 389.00	1	\$ 389.00
		A002-87	50' Capacity Retractable Hand Gun Hose Reel	\$ 1,851.00	1	\$ 1,851.00
		A002-88	100' Capacity Handgun Hose Reel	\$ 3,253.00		
		A002-89	Water Ring Assembly (inlet mounted)	\$ 2,003.00		
		A002-90	Pulsation Feature for Water Pump	\$ 3,243.00		
		A002-91	Lateral Cleaning Kit w/150' x 1/2" Hose w/Nozzle, Dolly style mounts	\$ 2,874.00		
		A002-92	Lateral Cleaning Kit w/200' x 1/2" Hose w/Nozzle, Permanently Mtd, Electronically Controlled	\$ 5,309.00		
		A002-93	Lateral Cleaning Kit w/400' Hose w/Nozzle, Permanently Mtd, Hydraulically Controlled	\$ 6,641.00		
		A002-94	Hydroexcavation package includes: 50' retractable handgun hose reel with 50' of 1/2" high pressure hose, HP/Quick disconnect, heavy duty HP unloader valve, main control ball valve, 48" x 1/2" stainless steel lance with pistol grip.	\$ 5,349.00	1	\$ 5,349.00



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002				
Offeror Name:	VAC-CON, INC.					
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous					
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)				
	A002-95	Street Flusher, 450 GPM, air actuated spray heads, Includes water and debris tanks tied together	Consult factory for adaptability for Single Engine Design	\$ 30,140.00		
	A002-96	Auxiliary Engine Driven Hydraulics		\$ 4,170.00	1	\$ 4,170.00
	A002-97	Water Pump Remote Oil Drain		\$ 244.00	1	\$ 244.00
	A002-98	1,200,000 BTU Diesel Fired Boiler	667-0030	\$ 21,034.00		
	A002-99	410,000 BTU Diesel Fired Boiler	667-0039	\$ 17,870.00		
	A002-100	FMC Water Pump Option: 30/3000, 60/2000, 65/3000, 80/2000, 80/2500	Replaces standard Giant water pump	\$ 1,957.00		
		<b>Water Systems Accessories</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-101	Hand Gun Assembly, Low Pressure	Hand Gun Only - no hose	\$ 280.00		
	A002-102	Hand Gun Assembly with 25' of 1/2" hose, Low Pressure		\$ 578.00		
	A002-103	10' Hand Gun Hose Extension		\$ 102.00		
	A002-104	25' Hand Gun Hose Extension		\$ 236.00		
	A002-105	30' Hand Gun Hose Extension		\$ 276.00		
	A002-106	50' Hand Gun Hose Extension		\$ 359.00		
	A002-107	Water Ring (Ring Only)		\$ 422.00		
	A002-108	Hand Gun Bracket Assembly		\$ 63.00		
	A002-109	Hand Gun Assembly (2) Handle with Adjustable Spray		\$ 523.00		
	A002-110	Water Cooler Rack		\$ 277.00	1	\$ 277.00
	A002-111	Cam-locks for Water Fill Hose		\$ 216.00		
	A002-112	Cam-locks for Rear Drain Hose		\$ 304.00	1	\$ 304.00
	A002-113	Additional Water Tank Sight Gauge (Drivers Side)		\$ 166.00		
	A002-114	72" x 1/2" Stainless Steel Lance with Adjustable Grip, Single Forward Chisel Jet	711-30902	\$ 1,049.00		
	A002-115	48"x1/2" Stainless Steel Lance with Adjustable Grip, (4) Forward Jet Chisel	711-30901A	\$ 718.00		
	A002-116	72"x1/2" Stainless Steel Lance with Adjustable Grip, (4) Forward Jet Chisel	711-30902A	\$ 740.00		
	A002-117	48"x1/2" Stainless Steel Lance with Adjustable Grip, Turbo "Rotating" Nozzle	711-30901T	\$ 829.00		
	A002-118	72"x1/2" Stainless Steel Lance with Adjustable Grip, Turbo "Rotating" Nozzle	711-30902T	\$ 829.00		
	A002-119	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, Single Forward Jet Chisel	711-30903	\$ 1,159.00		
	A002-120	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, (4) Forward Jet Chisel	711-30903A	\$ 1,131.00		
	A002-121	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, Turbo "Rotating" Nozzle	711-30903T	\$ 1,243.00		
		<b>Jet Rodder Hose</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-122	400' x 3/4" 3000 psi/7500 psi - Standard		\$ -		
	A002-123	500' x 3/4" 3000 psi/7500 psi - 100' extra		\$ 402.00		
	A002-124	600' x 3/4" 3000 psi/7500 psi - 200' extra		\$ 804.00		
	A002-125	700' x 3/4" 3000 psi/7500 psi - 300' extra (non-continuous)		\$ 1,206.00		
	A002-126	800' x 3/4" 3000 psi/7500 psi - 400' extra (non-continuous)		\$ 1,607.00		
	A002-127	1000' x 3/4" 3000 psi/7500 psi - 600' extra (non-continuous)		\$ 2,410.00	1	\$ 2,410.00
	A002-128	400' x 1" 2500 psi/6250 psi - Standard	Standard	\$ -		
	A002-129	500' x 1" 2500 psi/6250 psi - 100' extra		\$ 402.00		
	A002-130	600' x 1" 2500 psi/6250 psi - 200' extra		\$ -		
	A002-131	700' x 1" 2500 psi/6250 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 1,206.00		
	A002-132	800' x 1" 2500 psi/6250 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 1,607.00		
	A002-133	400' x 1" 3000 psi/7500 psi		\$ 581.00		
	A002-134	500' x 1" 3000 psi/7500 psi - 100' extra		\$ 1,163.00		
	A002-135	600' x 1" 3000 psi/7500 psi - 200' extra		\$ 1,715.00		
	A002-136	700' x 1" 3000 psi/7500 psi - 300' extra (non-continuous)	Requires large hose reel	\$ 2,002.00		
	A002-137	800' x 1" 3000 psi/7500 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 2,819.00		
	A002-138	500' x 1 1/4" 2500 psi/6250 psi	Standard on 120 gpm water system	\$ -		
	A002-139	800' x 3/4" continuous 3000 psi/7500 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 3,465.00		
	A002-140	800' x 1" continuous 2500 psi/6250 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 3,465.00		
	A002-141	800' x 1" continuous 3000 psi/7500 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 4,676.00		
		<b>Spare Rolls of Jet Rodder Hose</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-142	400' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 1,616.00		
	A002-143	500' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 2,031.00		
	A002-144	600' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 2,414.00		
		<b>Debris Body Options</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-145	Debris Body "Power Flush" System, 8 jets		\$ -	1	\$ -
	A002-146	Remove Debris Body "Power Flush" System, 8 jets		\$ (1,753.00)		
	A002-147	Flush Out connection for rear door valve		\$ 470.00	1	\$ 470.00



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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:	VAC-CON, INC.				
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
	A002-148	Centrifugal Compressor Fan Flush Out System	\$ 1,086.00		
	A002-149	Hydraulic Rear Door Opener, removes door grabber	Removes door grabber	\$ 3,411.00	
	A002-150	Water & Debris Tanks Tied Together	\$ 2,065.00		
	A002-151	6" Knife Valve, Lower Rear Door Mounted with Cam-Lock	\$ 1,818.00		
	A002-152	6" Knife Valve with lever action, in lieu of 5" Butterfly Valve	\$ 662.00	1	\$ 662.00
	A002-153	8" Knife Valve, Lower Rear Door Mounted	\$ 1,969.00		
	A002-154	6" Air operated knife valve/Front Drivers Side Mounted	\$ 2,192.00		
	A002-155	Debris Tank Inspection Hatch, 8" w/steps & handles	\$ 696.00		
	A002-156	Rear, Hydraulic Pump Off System, 200 GPM w/20' lay flat Hose	\$ 6,382.00		
	A002-157	Rear, Hydraulic Pump Off System, 350 GPM w/20' lay flat Hose	\$ 8,505.00	1	\$ 8,505.00
	A002-158	Rear, Hydraulic Pump Off System, 400 gpm with 20' lay flat hose	\$ 8,505.00		
	A002-159	Rear, Hydraulic Pump Off System, 450 gpm with 20' lay flat hose	\$ 11,485.00		
	A002-160	Rear, Hydraulic Pump Off System, 575 GPM w/20' lay flat Hose	\$ 11,485.00		
	A002-161	Gravity Drain System; plumbing to mid-passenger-side of unit, allowing return of liquids to the manhole	\$ 1,699.00	1	\$ 1,699.00
	A002-162	Front gate valve, for use with Gravity Drain Option	Must Choose Gravity Option	\$ 329.00	1 \$ 329.00
	A002-163	High Dump Option, Single Axle (9 Yard)	Includes: Rear Hydraulic Door Opener	\$ 14,866.00	
	A002-164	High Dump Option, Tandem Axle	Includes: Rear Hydraulic Door Opener	\$ 18,676.00	
	A002-165	Ceramic Coating in Debris Tank, Single Axle	\$ 4,194.00		
	A002-166	Ceramic Coating in Debris Tank, Tandem Axle	\$ 5,593.00		
	A002-167	A Flat Style Rear Door ilo Dome Style Door Including Hydraulic Opener will be Provided	\$ 4,895.00		
	A002-168	Rear splash guard (4 - 8 O'clock) - tank mounted	\$ 1,713.00		
	A002-169	Rear splash guard (3 - 9 O'clock) - tank mounted	\$ 1,887.00		
	A002-170	Rear Splash Shield Diamond Plate Aluminum	\$ 3,333.00		
	A002-171	Water Tank Side Panels, Diamond Plate Aluminum	\$ 1,537.00		
	A002-172	Vacuum Enhancer, Fan or PD, Air Operated	\$ 4,394.00		
	A002-173	Vibrator, Electric	\$ 3,818.00		
	A002-174	Screen assembly over rear drain port in lieu of bar weldments	\$ 402.00		
	A002-175	Wear Plate, Swing Style	\$ 933.00		
	A002-176	Rubber pad on standard deflector	\$ 459.00		
	A002-177	Electric Vibrator	\$ 3,818.00		
	A002-178	Wear Plate to cover entire rear door, with hinge	\$ 905.00		
	A002-179	Built in Body Prop - Rear Boom Support Mounted	\$ 423.00		
<b>Electrical Options</b>					
		<b>Description</b>		<b>Additional Information</b>	
	A002-180	Inspector Cam Camera System with DVR Recording Device	\$ 33,930.00		Includes monitor with sun shield, pivot style, self-leveling camera with 6 in-12 in camera roller skids, 600 ft. of video cable mounted on a hydraulic reel, independent hydraulic circuit for hydraulic camera reel, automatic level wind with footage counter, DVR recording device mounted in monitor, memory card, power cable and scan disc reader, and keyboard for data entry.
	A002-181	Low Water Alarm with Light	\$ 458.00	1	\$ 458.00
	A002-182	Body Load Limit Alarm, Level Indicator	\$ 616.00		
	A002-183	Rear Axle Load Limit Alarm	\$ 834.00	1	\$ 834.00
	A002-184	Front Axle Load Limit Alarm	\$ 834.00		
	A002-185	Auxiliary Engine Kill Switch (Vandalism Protection)	\$ 119.00		
	A002-186	Safety Shut Down Switch for Boom	\$ 159.00		
	A002-187	Vacuum Breaker Override Switch (Vacuum & Drive)	\$ 159.00		
	A002-188	Remote Control (Wireless): Boom, Vacuum Breaker, Throttle & Debris Body (includes HI-Dump, if applicable). Does not include remote cable pendant controls for boom or hi dump.	Replaces Standard Pendant	\$ 4,194.00	
	A002-189	4 Way Pendant Control Station	\$ 461.00		
	A002-190	6 Way Pendant Control Station (Spare)	\$ 461.00		
	A002-191	Grounding Cable with Screw Clamp & 25' of Cable	\$ 460.00		
	A002-192	HI Dump pendant control station with 25' cable	\$ 373.00		
	A002-193	Back Up Alarm	(Standard on Vac-Con 1145D Pool Trucks)	\$ -	1 \$ -
	A002-194	Remove Back Up Alarm	\$ (247.00)		
	A002-195	Back Up camera with color monitor, rear camera head	\$ 1,574.00		
	A002-196	Omnibus-2 Electronic Controller System-Color Monitor	A state-of-the-art Omnibus electronic control system with electronic joystick, and color monitor, will be supplied mounted on hose reel. The system performs numerous functions for boom, auxiliary engine (if supplied), hose reel, and vehicle control, etc. which are electronically monitored on screen.	\$ 3,445.00	1 \$ 3,445.00
	A002-197	Omnibus Footage Counter	For use with Omnibus System	\$ 1,512.00	1 \$ 1,512.00
	A002-198	Omnibus Hydrostatic Electronic Engagement	For use with Omnibus features	\$ 1,172.00	1 \$ 1,172.00
	A002-199	Grounding Mat	\$ 882.00		



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H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:	VAC-CON, INC.				
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
	A002-200	Pole Camera	Trio-vision Portable Pole Camera TVS-10, with laser distance measuring, is designed for fast inspection/diagnosis of industrial tanks, vessels, and pipes. Single-operator, spring-loaded, lightweight, extendable carbon fiber, telescopic pole. Vest houses a control box, MP5 with 4.3" screen and battery pack. Cam zoom is 432:1, high-intensity discharge lighting, waterproof to IP68 and pole goes to a 25 foot depth.	\$ 14,395.00	
	A002-201	Omni-View - Data Logging and Telematics System	Requires Omnibus Option	\$ 8,240.00	
		<b>Lighting Options</b>			
		<b>Description</b>	<b>Additional Information</b>		
	A002-202	Revolving Light with guard, Mirror Mounted	Indicate Driver Side or Passenger Side	\$ 565.00	
	A002-203	Revolving Light with Guard, Rear Debris Tank Door Mounted	Standard	\$ -	
	A002-204	Remove Standard Revolving Light with Guard, Rear Debris Tank Door Mounted	Remove	\$ (565.00)	1
	A002-205	Strobe Light, Mirror Mounted, with Limb Guard	Please Indicate Drivers Side or Passenger Side	\$ 629.00	
	A002-206	Strobe Light with Limb Guard, Rear Debris Tank Door Mounted		\$ 629.00	
	A002-207	Mirror Mounted LED Strobe Light with Limb Guard	Please Indicate Driver Side or Passenger Side	\$ 836.00	
	A002-208	LED strobe with Limb Guard, Rear Debris Tank Mounted		\$ 836.00	
	A002-209	LED 4 Strobes - (2) front bumper / (2) rear bumper		\$ 1,725.00	
	A002-210	LED Arrow Board, Rear Debris Tank Door Mounted		\$ 2,252.00	
	A002-211	Arrow Stick		\$ 1,393.00	
	A002-212	LED Arrow stick		\$ 2,331.00	
	A002-213	Arrow Board, D.O.T., WANCO, Rear Debris Tank Door Mounted		\$ 5,899.00	
	A002-214	Hand Held Spot Light		\$ 408.00	
	A002-215	Hand Held Spot Light with 50' Retractable Cord		\$ 952.00	
	A002-216	Hand Light Connection, Rear Dump Control Location	Reaches entire unit	\$ 109.00	
	A002-217	Boom Mounted Flood Lights		\$ 526.00	
	A002-218	Rear Mounted Flood Lights		\$ 526.00	
	A002-219	Flood Light - Water Pump Work Area		\$ 281.00	
	A002-220	Flood Light - Auxiliary Engine Work Area		\$ 281.00	1 \$ 281.00
	A002-221	Flood Light - Level Wind Guide		\$ 281.00	
	A002-222	Limb Guard for Flood Light - each		\$ 86.00	6 \$ 516.00
	A002-223	ICC - LED Lighting Package		\$ 1,428.00	1 \$ 1,428.00
	A002-224	LED Boom Mounted Flood Lights		\$ 747.00	1 \$ 747.00
	A002-225	LED Rear Mounted Flood Lights		\$ 747.00	1 \$ 747.00
	A002-226	LED Flood Light - Water Pump Work Area		\$ 392.00	1 \$ 392.00
	A002-227	LED Flood Light - Level Wind Guide		\$ 392.00	
		<b>Misc. Machine Options</b>			
		<b>Description</b>	<b>Additional Information</b>		
	A002-228	Heavy Reinforced Elbow "Wear Back"		\$ 1,000.00	1 \$ 1,000.00
	A002-229	Heavy Duty Rubber Hose in lieu of Kanaflex (replace standard)	(Limits Boom Rotation)	\$ 1,164.00	
	A002-230	Auxiliary engine control panel (lockable door)	For use with Deutz Auxiliary Engines	\$ 295.00	
	A002-231	Cyclone Separator, add on for fan units, consult factory for adaptability	Contact factory for adaptability. Standard on PD units.	\$ 4,419.00	
	A002-232	Hydraulic Power Tool Option, front bumper control valve mount location		\$ 3,053.00	
	A002-233	Hydraulic Power Tool Option, Rear Bumper Control Valve Mount Location		\$ 3,496.00	
	A002-234	Long Handle Storage / PVC 12 mounted in storage box under shelf	(or best location)	\$ 455.00	1 \$ 455.00
	A002-235	Hose Footage Counter (Standard - Driver Side)		\$ 522.00	
	A002-236	Hose Footage Counter (Curb Side)	Standard	\$ -	
	A002-237	Remove Hose Footage Counter (Curb Side)		\$ (522.00)	1 \$ (522.00)
	A002-238	Digital electronic footage counter		\$ 3,489.00	
	A002-239	Metric Hose Counter (Driver Side)		\$ 522.00	
	A002-240	Offset Manhole Roller 711-0050		\$ 343.00	
	A002-241	Grate Lifting Hook 711-0474		\$ 401.00	
	A002-242	Cone Storage Rack		\$ 375.00	1 \$ 375.00
	A002-243	Cone Rack, Hinged Style/Deck		\$ 676.00	
	A002-244	Cone Rack, between bogies, tandem		\$ 500.00	
	A002-245	Rear Mounted Tow Hooks		\$ 319.00	1 \$ 319.00
	A002-246	Auxiliary Engine Remote Oil Drain		\$ 250.00	1 \$ 250.00
	A002-247	Remote Boom Grease Zerk Assembly (Ground Level - includes water pump drive)		\$ 2,155.00	1 \$ 2,155.00
	A002-248	Remote Debris Tank Grease Assembly (Ground Level)	Does not include rollers or cams	\$ 2,324.00	1 \$ 2,324.00
	A002-249	Grease Assembly Articulating Hose Reel		\$ 995.00	1 \$ 995.00
	A002-250	Remote HI-Dump Grease Assembly (Single Axle)		\$ 1,704.00	
	A002-251	Remote HI-Dump Grease Assembly (Tandem Axle)		\$ 2,038.00	
	A002-252	Automatic Lube System - in addition to manual remote grease options (Vac-Con Module)		\$ 4,779.00	
	A002-253	Automatic Lube Kit for Centrifugal Compressor	Available on 2-Stage or 3-Stage Blower	\$ 2,497.00	
	A002-254	Hydraulic System Temperature Gauge		\$ 292.00	



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H-GAC 'FORM E' - OPTIONS PRICING		A002		
Offeror Name:		VAC-CON, INC.		
Invitation No.:		SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous		
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)		
	A002-255	Vacuum gauge front bumper location behind reel	\$ 507.00	
	A002-256	Dual Roller Level Wind Guide, plastic (in lieu of single)	\$ 164.00	
	A002-257	Aluminum Single Roller Level Wind Guide, (In lieu of plastic)	\$ 407.00	
	A002-258	Aluminum Dual Roller Level Wind Guide, (in lieu of plastic)	\$ 612.00	1 \$ 612.00
	A002-259	Plastic engraved decals - adhesive type (Ito standard)	\$ 1,545.00	
	A002-260	Vaporooter Commander	\$ 46,971.00	
	A002-261	Chemical Tank (15) Gallons	\$ 2,843.00	
	A002-262	Digital Scale System	\$ 6,396.00	
	A002-263	Anti-Freeze System	\$ 911.00	
	A002-264	Centrifugal Compressor Quiet Silencer, Class 4, 304 Stainless Steel Construction, 14in x 40in with 8in discharge, available 8-1-12	\$ 4,333.00	1 \$ 4,333.00
	A002-265	Spanish Decals	\$ -	
	A002-266	French Decals	\$ -	
	A002-267	John Deere 4 Cylinder Diesel Option 140 HP @ 2400 RPM 275 CID Tier 3 Flex (if available)	\$ 2,678.00	
	A002-268	John Deere 6-Cylinder 185 HP at 2400 rpm 415 CID Tier 3 Flex (if available)	\$ 14,396.00	
	A002-269	Deutz 2012 6-Cylinder 188HP at 2400 rpm 369 CID Tier 3 Flex (if available)	\$ 8,390.00	
	A002-270	Deutz 2012 138HP Tier 2 Aux Engine EXPORT ONLY	\$ -	
	A002-271	John Deere "Interim" Tier 4 Technology, Model: 4045HFC93 EPA Certified, 140	\$ 22,658.00	1 \$ 22,658.00
	A002-272	JCB "Interim" T4 Model: TCAE-108 145HP @ 2200RPM	\$ 18,025.00	
		Misc. Machine Accessories		
		Description	Additional Information	
	A002-273	Hose Guide, spare 665-0004	\$ 162.00	
	A002-274	Catch Basin Retriever 711-0371	\$ 512.00	
	A002-275	Manhole Cover Lifting Hook 681-0084	\$ 96.00	
	A002-276	Cover Shover 681-0143	\$ 587.00	
	A002-277	5# Fire Extinguisher 711-1326 (one is standard), spare	\$ 144.00	
	A002-278	First Aid Kit 690-0500	\$ 88.00	
	A002-279	Triangle Kit 690-0494 (one is standard), spare	\$ 88.00	
	A002-280	Grease Gun 690-0093	\$ 70.00	
	A002-281	Anti-Spill Mud Flaps (rear)	\$ 277.00	
		Vacuum Tubing		
		Description	Additional Information	
	A002-282	3' x 8" Aluminum Pipe Extension 800-0063	\$ 219.00	
	A002-283	4' x 8" Aluminum Pipe Extension 800-0347	\$ 240.00	
	A002-284	5' x 8" Aluminum Pipe Extension 800-0064	\$ 257.00	
	A002-285	6' x 8" Aluminum Pipe Extension 800-0089	\$ 289.00	
	A002-286	7' x 8" Aluminum Pipe Extension 800-0352	\$ 319.00	
	A002-287	8' x 8" Aluminum Pipe Extension 800-0261	\$ 319.00	
	A002-288	10' x 8" Aluminum Pipe Extension 800-0133	\$ 350.00	
	A002-289	6½' x 8" Catch Basin Nozzle with Serrated End 800-0065	\$ 332.00	
	A002-290	7½' x 8" Catch Basin Nozzle with Serrated End 800-0572	\$ 365.00	
	A002-291	Non-conducting Catch Basin Nozzle	\$ 954.00	
	A002-292	Leaf Nozzle, 25" x 8" No Holes 800-0088	\$ 236.00	
	A002-293	8" Adjustable Air Gap	\$ 375.00	
	A002-294	Snorkel Nozzle Kit (includes 1- 3' pipe) 711-0031	\$ 446.00	
	A002-295	5' x 5" Snorkel Pipe Nozzle Extension 800-0127	\$ 144.00	
	A002-296	3' x 8" Clear Demo Tube 711-1255	\$ 520.00	
	A002-297	Circular Operator Handle 711-0172	\$ 240.00	
	A002-298	8" to Double 4" Y Adapter 800-0476	\$ 343.00	
	A002-299	8" Flange to 6" Sleeve Adapter 800-0351	\$ 171.00	
	A002-300	8" Quick Clamp, spare, 680-0015	\$ 36.00	
	A002-301	8" Gasket with Holes 690-0025	\$ 10.00	
	A002-302	8" Rubber Debris Hose / Per Foot 680-0001	\$ 74.00	
	A002-303	8" Hose End 800-0097	\$ 90.00	
	A002-304	8" Power Clamp 680-0016	\$ 102.00	
	A002-305	Rubber Kanaflex hose end for CB Tube/Hydroexcavation	\$ 106.00	
	A002-306	5' x 6" Aluminum Pipe	\$ 257.00	
		6" Intake System		



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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002				
Offeror Name:	VAC-CON, INC.					
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous					
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)				
	A002-307	3' x 6" Aluminum Pipe	6" Intake System	\$ 218.00		
	A002-308	6' x 6" Aluminum Pipe	6" Intake System	\$ 289.00		
	A002-309	6" Quick Clamp	6" Intake System	\$ 48.00		
	A002-310	6" Adjustable Air Gap	6" Intake System	\$ 388.00		
		<b>Pipe Storage Racks (4 standard per unit)</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-311	Additional Pipe Rack(s), specify any requested locations in comments section, otherwise engineering will place in best available locations.	Specify any requested location in comments section	\$ 169.00	1	\$ 169.00
	A002-312	Vertical Pipe Rack (Holds 3 Pipes)		\$ 505.00		
	A002-313	Lazy Susan Pipe Rack (Holds 5 Pipes)		\$ 2,318.00		
	A002-314	Folding Pipe Rack (3), Mtd Rear Door		\$ 2,623.00		
	A002-315	Folding Pipe Rack (3), Tank Mtd, Driver Side		\$ 2,623.00	1	\$ 2,623.00
	A002-316	Folding Pipe Rack (3), Tank Mtd, Curbside		\$ 2,623.00	1	\$ 2,623.00
	A002-317	Additional Side Steps (4 are Standard)		\$ 96.00	2	\$ 192.00
		<b>Tool/Storage Boxes</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-318	Storage Box Behind Cab 16" x 42" x 96"	Std on units with 1300 & 1500 gallons of water and 5 yard units with 1000 gallons	\$ 2,154.00	1	\$ 2,154.00
	A002-319	Aluminum Storage Box Behind Cab 16" x 42" x 96"		\$ 4,626.00		
	A002-320	Aluminum Storage Box Behind Cab in lieu of Standard Steel		\$ 2,472.00		
	A002-321	(2) Roll out shelves for storage box behind cab		\$ 1,441.00	1	\$ 1,441.00
	A002-322	Side Mounted Tool Box 35" x 14" x 24"		\$ 715.00		
	A002-323	35" x 14" x 24" Aluminum Side Mounted Tool Box, ea (ilo steel)		\$ 450.00		
	A002-324	16" x 13" x 72" Aluminum Side Mounted Tool Box, ea (ilo steel)		\$ 1,409.00		
	A002-325	2 ) 24" x 18" x 18" Steel Rear Tool Boxes, mtd each side of extended frame units, 1000 or 1300 gallons only		\$ 880.00		
	A002-326	2 ) 24" x 18" x 18" Aluminum Rear Tool Boxes, mtd each side of extended frame units, 1000 or 1300 gallons only		\$ 1,494.00		
	A002-327	12" x 18" x 96" Steel Tool Box, mounts under storage box behind cab		\$ 998.00		
	A002-328	12" x 18" x 96" Aluminum Tool Box, mounts under storage box behind cab		\$ 1,016.00		
	A002-329	Dry Decking - side tool boxes (8' & 55") - each		\$ 197.00	1	\$ 197.00
	A002-330	Dry Decking - behind cab storage box (96")		\$ 482.00	1	\$ 482.00
	A002-331	16x42x48 Steel Storage Box (Drivers Side Behind Cab)	Consult factory for adaptability on tandem axle units	\$ 1,049.00		
	A002-332	16x42x48 Aluminum Storage Box (Drivers Side Behind Cab)	consult factory for adaptability on tandem axle units	\$ 2,704.00		
	A002-333	24x18x18 Steel Tool Box (Extended Frame Units w/o rear tanks)		\$ 829.00		
	A002-334	(2) 24x18x18 Aluminum Tool Box (Extended Frame Units w/o Rear Tanks)		\$ 1,601.00		
		<b>3/4" Spare Nozzles</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-335	3/4" Nozzle rack		\$ 108.00	2	\$ 216.00
	A002-336	3/4" 30 gpm - Standard Nozzle, spare		\$ 349.00		
	A002-337	3/4" 50 gpm - Standard Nozzle, spare		\$ 349.00		
	A002-338	3/4" 30 gpm Penetrator Chisel - Standard, spare		\$ 399.00		
	A002-339	3/4" 50 gpm Penetrator Chisel - Standard, spare		\$ 399.00		
	A002-340	3/4" Nozzle Pipe Assembly (skid), spare		\$ 91.00		
	A002-341	3/4" 30 gpm Grenade Nozzle		\$ 749.00		
	A002-342	3/4" 50 gpm Grenade Nozzle		\$ 749.00		
	A002-343	Aluminum Storm Nozzle 3/4" 30 gpm		\$ 415.00		
	A002-344	Aluminum Storm Nozzle 3/4" 50 gpm		\$ 415.00		
	A002-345	3/4" Storm Nozzle Pipe Assembly (skid)		\$ 91.00		
	A002-346	3/4" 30 gpm Rotating Spinning Nozzle		\$ 883.00		
	A002-347	3/4" 50 gpm Rotating Spinning Nozzle		\$ 883.00		
	A002-348	3/4" 30 gpm Little Bruce 5" Culvert Nozzle		\$ 1,299.00		
	A002-349	3/4" 50 gpm Little Bruce 5" Culvert Nozzle		\$ 1,299.00		
	A002-350	3/4" Brass Flusher Nozzle		\$ 63.00		
		<b>Spare Nozzles</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-351	Standard nozzle		\$ 349.00		
	A002-352	Rotating Spinning Nozzle		\$ 883.00		
	A002-353	Big Otto culvert nozzle		\$ 1,898.00		
	A002-354	3/4" x 10' Length Leader Hose		\$ 243.00		
		<b>1" Spare Nozzles</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-355	1" Nozzle rack		\$ 108.00		
	A002-356	Aluminum Storm Nozzle 1" 60 gpm		\$ 415.00		
	A002-357	Aluminum Storm Nozzle 1" 70 gpm		\$ 415.00		
	A002-358	Aluminum Storm Nozzle 1" 80 gpm		\$ 415.00		
	A002-359	1" Storm Nozzle Pipe Assembly (skid)		\$ 91.00		
	A002-360	1" 60 gpm Standard Nozzle, spare		\$ 349.00		
	A002-361	1" 70 gpm Standard Nozzle, spare		\$ 349.00		



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002		
Offeror Name:	VAC-CON, INC.			
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous			
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)		
A002-362	1" 80 gpm Standard Nozzle, spare		\$ 349.00	
A002-363	Standard nozzle		\$ 349.00	
A002-364	1" 60 gpm Penetrator Chisel - Standard, spare		\$ 399.00	
A002-365	1" 70 gpm Penetrator Chisel - Standard, spare		\$ 399.00	
A002-366	1" 80 gpm Penetrator Chisel - Standard, spare		\$ 399.00	
A002-367	Penetrator nozzle		\$ 399.00	
A002-368	1" Nozzle Pipe Assembly (skid), spare		\$ 91.00	
A002-369	1" 60 gpm Grenade Nozzle		\$ 749.00	
A002-370	1" 70 gpm Grenade Nozzle		\$ 749.00	
A002-371	1" 80 gpm Grenade Nozzle		\$ 749.00	
A002-372	Grenade nozzle		\$ 749.00	
A002-373	1" 60 gpm Rotating Spinning Style		\$ 883.00	
A002-374	1" 70 gpm Rotating Spinning Style		\$ 883.00	
A002-375	1" 80 gpm Rotating Spinning Style		\$ 883.00	
A002-376	Little Bruce culvert nozzle		\$ 1,898.00	
A002-377	1" 60 gpm Big Otto 8" Culvert Nozzle		\$ 1,898.00	
A002-378	1" 70 gpm Big Otto 8" Culvert Nozzle		\$ 1,898.00	
A002-379	1" 80 gpm Big Otto 8" Culvert Nozzle		\$ 1,898.00	
A002-380	1" Brass Flusher Nozzle		\$ 75.00	
Leader Hose				
Description		Additional Information		
A002-381	1" x 10' Length Leader Hose		\$ 243.00	
A002-382	1-1/4" x 10' Length Leader Hose		\$ 243.00	
A002-383	3/4" x 15' Length Leader Hose		\$ 365.00	
A002-384	1" x 15' Length Leader Hose		\$ 365.00	
A002-385	1-1/4" x 15' Length Leader Hose		\$ 365.00	
A002-386	3/4" x 20' Length Leader Hose		\$ 389.00	
A002-387	1" x 20' Length Leader Hose		\$ 389.00	
A002-388	1-1/4" x 20' Length Leader Hose		\$ 389.00	
A002-389	3/4" x 25' Length Leader Hose		\$ 466.00	1 \$ 466.00
A002-390	1" x 25' Length Leader Hose		\$ 466.00	
A002-391	1-1/4" x 25' Length Leader Hose		\$ 466.00	
A002-392	3/4" x 30" Length Leader Hose, Spare		\$ 115.00	
A002-393	1" x 30" Length Leader Hose, Spare		\$ 115.00	
A002-394	1-1/4" x 30" Length Leader Hose, Spare		\$ 115.00	
Swedge Tools				
Description		Additional Information		
A002-395	Hydraulic Swage Kit		\$ 2,631.00	
A002-396	Manual Swage Kit		\$ 1,725.00	
A002-397	1" Swage End		\$ 70.00	
A002-398	3/4" Swage End		\$ 65.00	
Root Cutters				
Description		Additional Information		
A002-399	Rotating Turbine Chain Scraper 5"-10" with skids & chain 10.125TR6-10		\$ 3,786.00	
A002-400	Rotating Turbine Chain Scraper with skids and Chain 10.125TR8-12 set		\$ 3,966.00	
A002-401	1" to 3/4" Bushing for Chain Scraper		\$ 16.00	
A002-402	1" Bulldog with skid 400.600BS		\$ 3,137.00	
A002-403	3/4" Bulldog 400.060A		\$ 2,859.00	
Manuals				
Description		Additional Information		
A002-404	Electronic Vac-Con Manual (Thumb Drive), spare	One electronic manual standard per unit	\$ 178.00	1 \$ 178.00
A002-405	Paper Vac-Con Manual - No longer standard		\$ 178.00	1 \$ 178.00
Paint Options (Module)				
Description		Additional Information		
A002-406	Paint Module: DuPont Elite White N0006EX (white is standard unless otherwise specified)		\$ -	1 \$ -
A002-407	Paint Module: DuPont Elite School Bus Yellow N0662EX		\$ -	
A002-408	Paint Module: DuPont Elite Safety Yellow N1155EX		\$ -	
A002-409	Paint Module: DuPont Elite Coca Cola Red N0252EX		\$ -	
A002-410	Paint Module: DuPont Elite Candy Apple Red 748727		\$ -	
A002-411	Paint Module: DuPont Elite Medium Blue 748701		\$ -	
A002-412	Paint Module: DuPont Elite Deep Blue 748718		\$ -	
A002-413	Paint Module: DuPont Elite Pepsi Blue N4147-HN		\$ -	
A002-414	Paint Module: DuPont Elite Omaha Orange 748739		\$ -	
A002-415	Paint Module: DuPont Elite Cat Yellow 771861EX		\$ -	
A002-416	Paint Module: DuPont Elite Lime Green 748724		\$ -	
A002-417	Paint Module: DuPont Elite Green 748713		\$ -	
A002-418	Paint Module: DuPont Elite Woodland Green 748708		\$ -	
A002-419	Undercoat - Vac-Con Module & Chassis		\$ 1,885.00	
A002-420	Paint Tool Box/Storage Boxes to match Unit	Standard - Black Powder Coating	\$ 694.00	
A002-421	Metallic paint Option		\$ 2,840.00	
Paint Options (Module Stripe)				
Description		Additional Information		



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002	
Offeror Name:	VAC-CON, INC.		
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous		
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	
	A002-422	Reflective Striping, Other than standard colors	Avail colors: Black, Red, Orange, Yellow, Green, Pink \$ 622.00
	A002-423	Standard Striping Package - White 692-5204-01	\$ -
	A002-424	Standard Striping Package - Blue 692-5204-02	\$ - 1 \$ -
		Paint Options (Chassis)	
		Description	Additional Information
	A002-425	Vac-Con to Paint Cab - Specify Color	\$ 2,928.00
	A002-426	Paint Chassis Hood Flat Black	\$ 694.00
		Paint Options (Chassis Stripe)	
		Description	Additional Information
	A002-427	Cab "2" Striping Package, specify Color	Avail colors: White, Blue, Black, Red, Orange, Yellow, Green \$ 1,125.00
	A002-428	Cab "Small Stripes" Striping Package, Specify Color	Striping on Cab to Match Striping on Body \$ 1,125.00 1 \$ 1,125.00
	A002-429	Cab Painted with Flames	\$ 2,811.00
		Delivery	
		Description	Additional Information
	A002-430	Delivery charges to be determined by final delivery destination	\$ -
	A002-431		
		Chassis Modifications	
		Description	Additional Information
	A002-432	Roll Bogies, Single Axle	\$ 2,445.00
	A002-433	Roll Bogies, Tandem Axle	\$ 3,191.00
	A002-434	Air dryer - Bendix AD-9	\$ 1,394.00
	A002-435	Air dryer - Bendix AD-IP	(Standard on Vac-Con 1145D Pool Trucks) \$ 1,990.00
	A002-436	Air horn - single base	(Standard on Vac-Con 1145D Pool Trucks) \$ 968.00
	A002-437	Air restriction gauge, dash mounted	\$ 627.00
	A002-438	Air seat, passenger	\$ 1,179.00 1 \$ 1,179.00
	A002-439	2-man passenger seat	\$ 1,189.00
	A002-440	Block Heater	\$ 769.00
	A002-441	Metric speedometer	\$ 939.00
	A002-442	Heated motorized mirrors	\$ 2,672.00
	A002-443	Silicone hoses	\$ 644.00
	A002-444	Front Mud Flaps	\$ 122.00
	A002-445	Transmission temperature gauge	\$ 1,251.00
	A002-446	Spare tire & rim 385/65R22.5	\$ 1,451.00
	A002-447	Spare tire & rim 425/65R22.5	\$ 1,808.00
	A002-448	Spare tire & rim 11R22.5	\$ 905.00
	A002-449	Spare front wheel (22.5x12.25)	\$ 513.00
	A002-450	Spare rear wheel (8.25x12.25)	\$ 228.00
	A002-451	12 ton jack & lug wrench	\$ 341.00
	A002-452	Chassis Parts Catalog	\$ 456.00
	A002-453	Chassis Operators Manual	\$ 58.00
	A002-454	Parts Manual on CD-Rom	\$ 456.00 1 \$ 456.00
	A002-455	Service Manual on CD-Rom	\$ 456.00 1 \$ 456.00
	A002-456	Wheel Simulators	\$ 2,275.00
	A002-457	Daytime Running Lights	(Standard on Vac-Con 1145D & IH Pool Trucks) \$ 456.00
	A002-458	Remote Chassis Engine Start Switch	\$ 2,842.00 1 \$ 2,842.00
		Extended Warranties	
		Description	Additional Information
	A002-459	Allison Series 3000 5-year/unlimited mileage	Requires TrandSynd Synthetic Transmission Fluid or TES-295 \$ 1,666.50
	A002-460	Allison Series 4500 5-year/unlimited mileage	Requires TrandSynd Synthetic Transmission Fluid or TES-295 \$ 2,066.46
	A002-461	John Deere auxiliary engine 3 Years/4000 hours (subject to \$250 deductible) extended warranty	\$ 2,206.45
	A002-462	John Deere auxiliary engine 4 Years/5000 hours (subject to \$250 deductible) extended warranty	\$ 2,806.39
	A002-463	John Deere auxiliary engine 5 Years/5000 hours (subject to \$250 deductible) extended warranty	\$ 3,712.96
	A002-464	FR 1145D: 3yrs./200,000 mi. extended warranty, includes towing	Cummins-ISL370 engine 3yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment \$ 8,160.00
	A002-465	FR 1145D: 4yrs./200,000 mi. extended warranty, includes 4yrs. towing	Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295 Cummins-ISL370 engine 4yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment \$ 10,221.00
	A002-466	FR 1145D: 5yrs./200,000 mi. extended warranty, includes 5yrs. Towing	Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295 Cummins-ISL370 engine 5yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment \$ 12,908.12



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

<b>H-GAC 'FORM E' - OPTIONS PRICING</b>		<b>A002</b>
Offeror Name:	VAC-CON, INC.	
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous	

H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
		Allison Series 3000 5-yr./unlimited mileage. Requires TransSynd Synthetic Transmission Fluid or TES-295			
	A002-467	IH 7300 & 7400 ESC: 3yrs./150,000 mi. base vehicle extended warranty, includes 3 yrs./UNL towing	Navistar DT engine 3 yrs. /150,000 mi. extended warranty with Aftertreatment	\$ 7,999.00	
		Allison Series 3000 3 yrs. standard - is Requires TransSynd Synthetic Transmission Fluid or TES-295			
	A002-468	IH 7300 & 7400 ESC: 4yrs./150,000 mi. base vehicle extended warranty, includes 4yrs./UNL towing	Navistar DT engine 4 yrs./150,000 mi. extended warranty - Aftertreatment included for 3 yrs.	\$ 12,118.00	
		Allison Series 3000 5-yr./unlimited mileage. Requires TransSynd Synthetic Transmission Fluid or TES-295			
	A002-469	IH 7300 & 7400 ESC: 5yrs./150,000 mi. base vehicle extended warranty, includes 5 yrs./UNL towing	Navistar DT engine 5 yrs./150,000 mi. extended warranty - Aftertreatment included for 3 yrs.	\$ 14,225.00	
		Allison Series 3000 5-yr./unlimited mileage. Requires TransSynd Synthetic Transmission Fluid or TES-295			
<b>Subtotal:</b>				<b>B1</b>	<b>\$ 134,383.00</b>

		Pool Trucks - Cannot be purchased by entities in the state of Texas			
	Description		Additional Information		
A002-474	Freightliner 108SD 4x2 37000GVWR ISL270 3000RDS	\$ 80,134.00			
A002-475	Freightliner 114SD 4x2 43000GVWR ISL370 3000RDS	\$ 87,962.00	1	\$ 87,962.00	
A002-476	Freightliner 114SD 6x4 60000GVWR ISL370 3000RDS	\$ 95,584.00			
A002-477	Freightliner 114SD 6x4 66000GVWR ISL370 3000RDS	\$ 98,159.00			
A002-478	Freightliner 114SD 6x4 66000GVWR 10 SPD 450HP DD13	\$ 104,236.00			
A002-479	Freightliner 114SD 6x4 66000GVWR DD13 450HP 4500RDS	\$ 116,596.00			
A002-480	Freightliner 75DGE 114SD 4x2 43000GVWR ISL320 3000RDS	\$ 144,200.00			
A002-481	Freightliner 115DGE 114SD 4x2 43000GVWR ISL320 3000RDS	\$ 163,770.00			
A002-482	Freightliner 75DGE 114SD 6x4 60000GVWR ISL320 3000RDS	\$ 151,925.00			
A002-483	Freightliner 115DGE 114SD 6x4 60000GVWR ISL320 3000RDS	\$ 174,791.00			
A002-484	Peterbilt 348 4x2 43000GVWR PX-9 345HP 3000RDS	\$ 93,730.00			
A002-485	Peterbilt 348 6x4 66000GVWR PX-9 345HP 3000RDS	\$ 103,515.00			
<b>Subtotal:</b>				<b>B2</b>	<b>\$ 87,962.00</b>



2360 Harvard Street • Sacramento, CA 95815 • (916) 922-1101 • Fax: (916) 922-1034  
 1913 Nancita Circle • Placentia, CA 92870 • (714) 528-8770 • Fax: (714) 528-8744  
 4750 Caterpillar Rd., Unit D • Redding, CA 96003 • (530) 243-4856 • Fax: (530) 243-1447  
 1930 W. Winton Ave., Suite 8 • Hayward, CA 94545 • (510) 670-0230 • Fax: (510) 670-9003  
 www.source-mme.com • California State Contractor's License #980409

March 26, 2015

City of Sacramento  
 5730 24th Street, Bldg. 20  
 Sacramento, CA 95822

Tel: 916-808-1163  
 Fax: 916-399-9263  
 lygarcia@cityofsacramento.org

Attention: Isena Y. Garcia, CAFM Program Specialist

We are pleased to provide the enclosed contract pricing sheets off the H-GAC, Houston-Galveston Area Council Contract No. SC01-15 (www.hgacbuy.com), for two Vac-Con Model V350LXHA-O/850 Combination Sewer and Storm Drain Cleaners mounted on new Freightliner 4x2 truck chassis for your review.

Summary:	Price Each Unit F.O.B. Sacramento, CA	\$408,638.00
	Quantity Requested	<u>          x 2</u>
	Sub-Total	\$817,276.00
	8.5% Sales Tax	69,468.46
	Delivery \$6,350.00 per unit	12,700.00
	Factory Inspection (1 person per truck) \$1,448.00 per person	2,896.00
	PERP Permit for Aux. Engine to be processed by MME (\$620.00 ea.)	<u>1,240.00</u>
	Total	\$903,580.46

- **City's Purchase Order to be prepared and sent directly to Vac-Con, Inc.**
- Municipal Maintenance Equipment, Inc. is the contracted dealer on HGAC purchases and will provide on-site training, warranty support, and future service for the Vac-Con products.
- After unit completion Vac-Con to supply unladen weight and weight distribution on the chassis' front axle, rear axle and total.
- MME to assist with DMV registration.
- HGAC quotation includes applicable sales tax.
- Delivery 120-150 Days A.R.O
- Terms: per HGAC Program.

Thank you for your interest in this fine product. Should you have any questions or need additional information, please let us know. We look forward to being of service.

Sincerely,  
 Municipal Maintenance Equipment, Inc.

*Frank Wheeler III*

Frank Wheeler III,  
 Vice President

Enclosures: HGAC Contract Pricing Worksheet & List of Inventory

## LIST OF INVENTORY

One (1) Each Vac-Con Model V350LXHA-O/850 complete with the following standard equipment:

- 3-Stage Vacuum System
- 3/16" Corten Steel 5 Yard Debris Tank
- Full Opening Rear Door
- Hydraulic Rear Door Locks, with Door Grabber with Safety Latch
- 10' Layflat Hose
- Debris Tank Dumping: 50 Degree, Hydraulic Scissors Lift – Power Up/Power Down
- Cross-Linked Polyethylene Water Tanks - 850 Gallons
- Automatic Vacuum Breaker and Overfill Protection
- 8" Vacuum Intake Hose
- Boom Travel Tie Down
- 4 Way Hydraulic Boom with 270 Degree Rotation and Joystick Controls
- Front Mounted 600' Capacity (1" Hose)/Hydraulic Hose Reel
- Manual Hose Rewind Guide
- Hose Guide (Tiger-Tail)
- 30" Leader Hose
- 20 gpm at 600 psi Wash Down Hand Gun with 25' of Hose and Nozzle
- Sealed and Locking Tool Boxes
- 1) Each Sanitary and Penetrator Nozzles
- 20.5' Aluminum Intake Pipe (1-3', 1-5', 1-6', and 1-6.5' Nozzle)
- ICC Lighting
- 5# Fire Extinguisher
- Set of Triangles
- DuPont Elite Polyurethane Paint White with Blue Striping Package
- 12 Month Standard Warranty

Complete with the following optional features:

- Blower: Hydrostatic Drive
- Boom: 10 ft. Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station
- Hose Reel: Front Mounted, Articulating to Driver Side, Standard Pivot
- Jet Rodder Hose: 1000' x 3/4" 3000 psi/7500 psi Continuous Piranha Hose – 600' Standard
- Water System: 50 gpm/3000 psi
- Water Pump: Giant
- Auxiliary Engine: John Deer Tier 4 Technology, EPA Certified, 140 HP @ 2400 RPM
- (1) Standard Analog Pressure Gauge at Front Reel Location
- Trash Pump Flushout Mounted on Bun Between Debris Body and Pump
- Cobra Model CPI 880 Inverter, Hard Wired Inside Cab
- ENZ 50.075G Nozzle
- ENZ 400.080 BS (Jetted 50 GPM) Nozzle

- Mail Slot 14" x 20" 5" Deep Mounted on Rear Bulkhead Behind Partner Desk
- ENZ 400.060 BS with Bushing (Jetted 30 GPM) Nozzle
- ENZ 40.075 (Jetted 30 GPM) Nozzle
- Large Round in Cab Dome Light Whelen Part #60U0EJCS
- 6" Tall Expanded Metal Tray Mounted Full Length and Width on Top of Rear Toolboxes and Behind Cab Tool Box
- Expanded Metal Trays 4" Tall as Long as Possible Mounted in Between Rear Toolboxes and Debris Body
- Rack Mounted on Front of Behind Cab Tool Box Able to Carry 6 Sign Standards City to Approve Size and Location
- All Tool Boxes to Include Condensation and Drain Vents
- Largest Possible Expanded Metal Tool Tray Mounted Below Passenger Side Cab Door
- Expanded Metal Tray Mounted Driver's Side Between Fuel Tank and Water Tank Capable of Holding 12" Baskets
- Cone Rack Mounted on Top of Driver's Side By Fuel Tank Expanded Metal Tray
- All Floodlights to be Whelen Micro Pioneer Model MPPBBS
- Blue Stripe on Cab Applied per City Specification
- Rear Arrow Stick Whelen Part #TA125NF2
- Installation of Customer Supplied Zonar on Dash
- Partner Desk
- Debris Body Up Warning Light/Alarm Dash Mounted
- 4 Camera System (Back-Up, 2 Side Mounts, Front Hose Reel Location Model Zone Defense Part #cam.313c,cam.313ms
- Grote Brand Safety Triangles
- Level Wind Light to be Whelen Pioneer Nano Part #NP6BB
- Forward Facing LED Arrow Stick Whelen Part #TANF85
- 6 Grommet Mounted LED Strobes to be Mounted 4 Corners and Midship both Side Whelen Part #5VA02ZAR
- LED Rope Lighting with Separate Switch in Tool Box
- Rear Debris Body Mounted Strobe with Limb Guard Whelen L31HAF
- (2) Rear Cone Racks Mounted Below Deck
- (2) 3" PVC Tool Racks 6' Long Mounted Where Space Allows
- (2) Boom Mounted Strobes Whelen Part #L31HAF
- (3) 3" PVC Tool Racks 16' Long Mounted Below Sub-Frame
- (3) 25' Sections Lay Flat Hose w/Male Female Cam Locks
- (4) Set of Keys
- Debris Body "Power Flush" System, 8 Jets
- Flush Out Connection for Rear Door Valve
- 6" Knife Valve with Center Post and Handle, in Lieu of 5" Butterfly Valve
- Rear, Hydraulic Pump Off System, 350 GPM w/20' Lay Flat Hose
- Gravity Drain System, Plumbing to Mid-Passenger Side of Unit, Allowing Return of Liquids to the Manhole

- Front Gate Valve, For Use with Gravity Drain Option
- Heavy Reinforced Elbow "Wear Back"
- Air Purge System
- 2 ½" Water Drain Gate Valve Assembly
- Variable Flow Valve
- Folding Pipe Racks on Driver & Passenger's Side
- Additional Pipe Rack (Located Behind Front Hose Reel)
- (2) Additional Side Steps (4 Are Standard)
- Storage Box Behind Cab 16" x 42" x 96"
- (2) Roll Out Shelves for Storage Box Behind Cab
- Dry Decking – Side Tool Box (6' & 35") – Each
- Dry Decking – Behind Cab Storage Box (96")
- Long Handle Storage / PVC (2) Mounted in Storage Box Under Shelf
- Cone Storage Rack
- Flood Light – Auxiliary Engine Work Area
- All Flood Lights to Include Limb Guards (Total of 6)
- ICC. – LED Lighting Package
- Low Water Alarm with Light
- Rear Axle Load Limit Alarm
- Back up Alarm
- 50' Capacity Retractable Hand Gun Hose Reel
- Hydroexcavation Package Includes: 50' Retractable Handgun Hose Reel with 50' of ½" High Pressure Hose, HP/Quick Disconnect, Heavy Duty HP Unloader Valve, Main Control Ball Valve, 72" x ½" Schedule 80 Lance with Quick Disconnect, Single Forward Spray Nozzle and Horizontal Handle
- Rear Mounted Tow Hooks
- Auxiliary Engine Remote Oil Drain
- Remote Boom Grease Zerk Assembly (Ground Level – Includes Water Pump Drive)
- Remote Debris Tank Grease Assembly (Ground Level)
- Grease Assembly Articulating Hose Reel
- Aluminum Dual Roller Level Wind Guide
- (2) ¾" Nozzle Racks
- ¾" x 25' Length Leader Hose
- (1) Electronic Vac-Con Manuals (Thumb Drive), Additional
- (1) Paper Vac-Con Manual
- Omnibus-2 Electronic Controller System, Color Monitor
- Omnibus Footage Counter
- Omnibus Hydrostatic Electronic Engagement
- Auxiliary Engine Driven Hydraulics
- Water Pump Remote Oil Drain
- Water Cooler Rack
- Cam-Locks for Rear Drain Hose

March 26, 2015  
City of Sacramento  
Vac-Con Model V350LXHA-O/850 List of Inventory  
Page 4

- Centrifugal Compressor Quiet Silencer, Class 4, 304 Stainless Steel Construction, 14 in. x 40 in. with 8in. Discharge
- LED Boom Mounted Flood Lights
- LED Rear Mounted Flood Lights
- LED Flood Light – Water Pump Work Area
- Factory Inspection for up to (2) Two City Employees at Manufacture's Facility (1 person per truck purchased)

Mounted on a new Freightliner 114 SD 4x2 truck chassis complete with the following features:

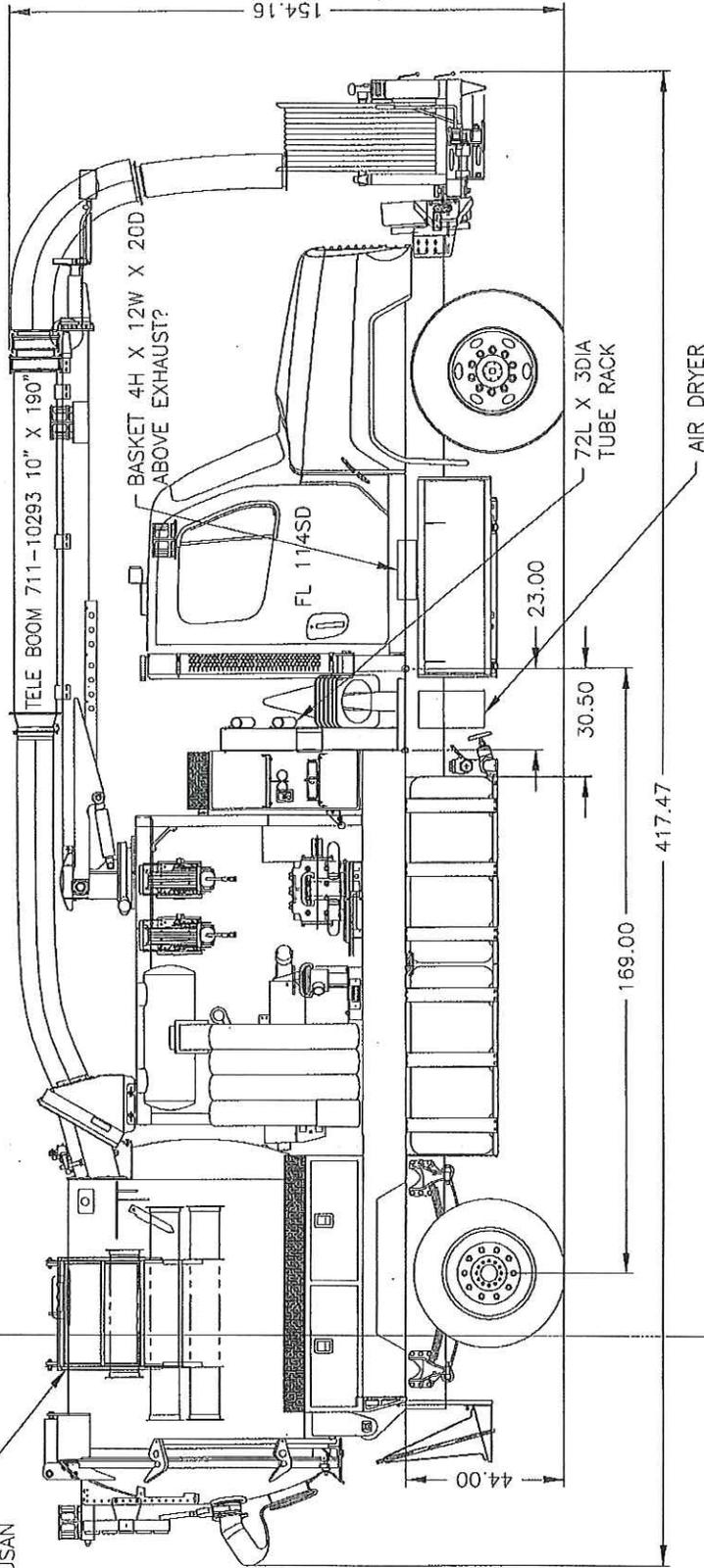
- ISL 370 Engine
- 43,000 GVWR
- Allison 3000 RDS Automatic Transmission
- Driver and Passenger Side Air Seat
- (1) Parts Manual on CD-ROM
- (1) Service Manual on CD-ROM
- Remote Chassis Engine Start Switch
- Air Conditioning
- Blue Tooth / MP3 Capable Radio
- Governed Speed Set at 65 MPH
- Painted White
- Cab "Small Stripes" Striping Package (To Match Body Striping)

LET BY	REVISION	DATE
-	INITIAL RELEASE	01/01/2013

# PRELIMINARY

VERIFY ALL DIMENSIONS, TRUCK TYPE, HOSE REEL CENTER LINE AND BOOM LENGTH. THIS DRAWING IS CREATED AS A REPRESENTATION OF WHAT WE WILL BUILD BASED ON INFORMATION SUPPLIED WITH THE SALES ORDER.

4 PIPE FOLDING HANGER. NO ROOM FOR LAZY SUSAN



 <b>VACCON</b> GREEN COVE SPRINGS, FLORIDA USA PROD CODE: - CONAL CODE: - MANUAL CODE: -	DRAWN: CAG CHECKED: - SCALE: NTS	DATE: 02/05/2015 DATE: - WEIGHT: - LB	CITY OF SACRAMENTO, CA CAG-SAC	TRUCK SPECIFICATIONS CHASSIS: FL 114SD 4 X 2 MODEL: V850LXHA-01850 CA/CT: 156.00 SETBACK: 19.00	TRUCK SPECIFICATIONS FRAME: WEIGHTS (Yes/No): STANDARD (Yes/No):	REFERENCE:	<b>CAG-SAC</b> SHEET 1 OF 1 REV -
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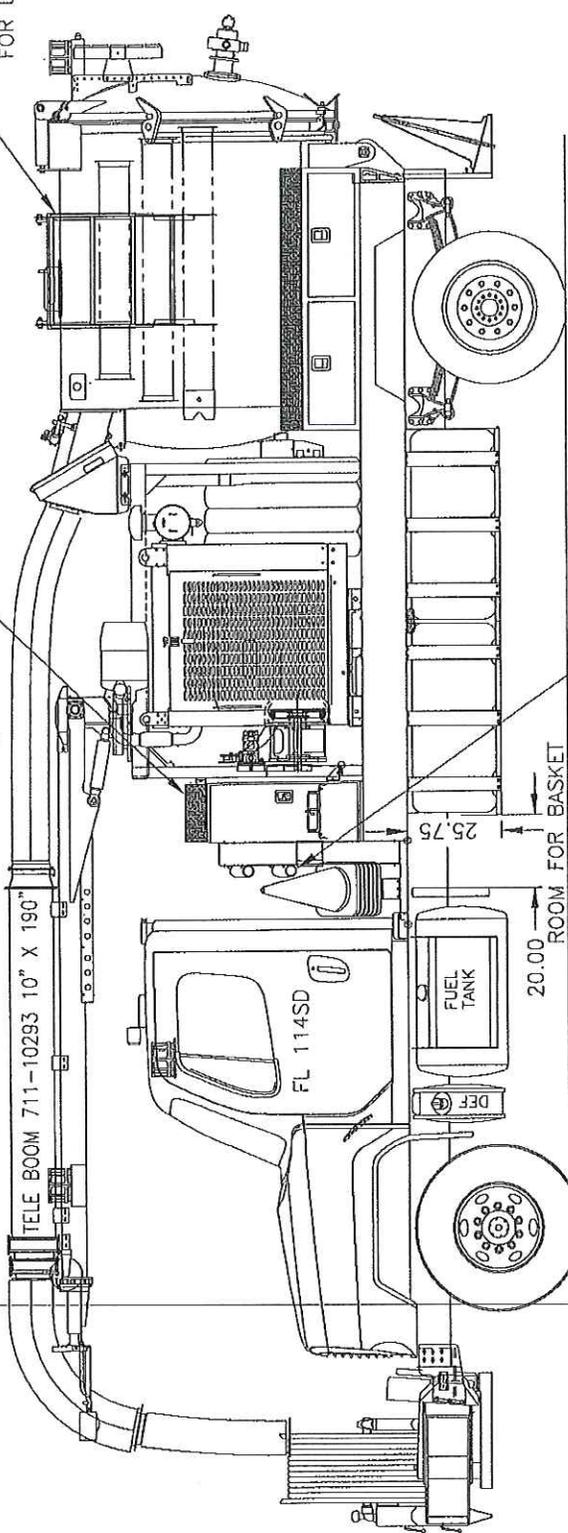
# PRELIMINARY

VERIFY ALL DIMENSIONS, TRUCK TYPE, HOSE REEL CENTER LINE AND BOOM LENGTH. THIS DRAWING IS CREATED AS A REPRESENTATION OF WHAT WE WILL BUILD BASED ON INFORMATION SUPPLIED WITH THE SALES ORDER.

96L X 6H X 16W EXPANDED BASKET

4 PIPE FOLDING HANGER, NO ROOM FOR LAZY SUSAN

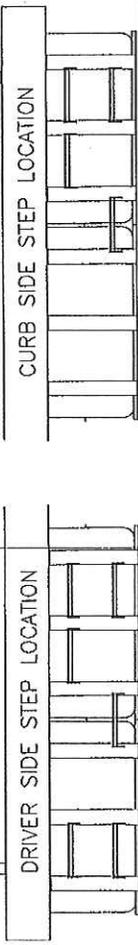
TELE BOOM 711-10293 10" X 190"



72L X 30IA TUBE RACK

20.00 ROOM FOR BASKET

25.75



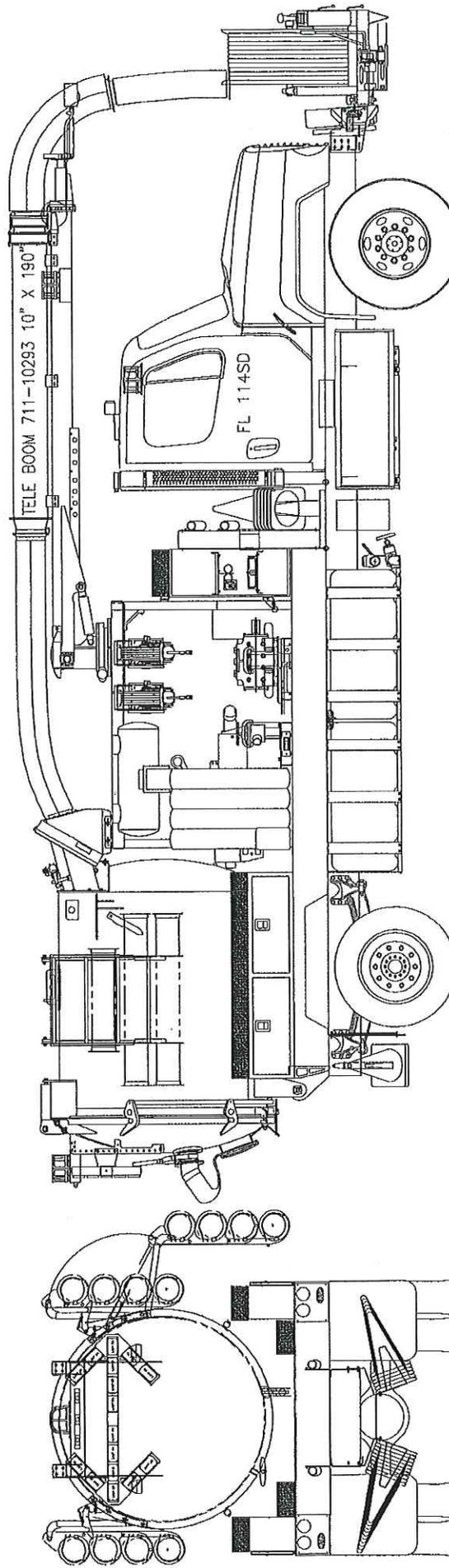
LET. BY	REVISION	DATE
-	INITIAL RELEASE	01/01/2013

<b>VACCON</b>	DRAWN: CAG	DATE: 02/09/2015
GREEN COVE SPRINGS, FLORIDA USA	CHECKED: -	DATE: -
PROJ CODE: -	SCALE: NTS	WEIGHT: -LB
COM CODE: -		
MANUAL CODE: -		

CITY OF SACRAMENTO, CA  
CAG-SAC

TRUCK SPECIFICATIONS	TRUCK SPECIFICATIONS
CHASSIS: FL 114SD 4 X 2	FRAME
MODEL: V350LXPA-01660	WEIGHTS (Yes/No):
CACT: 166.00	STANDARD (Yes/No):
SETBACK: 19.00	

CAG-SAC	REV
SHEET	1 OF 1
	-



Prepared for:  
TOM JODY  
VAC CON INC  
969 HALL PARK DRIVE  
GREEN COVE SPRINGS, FL  
32043  
Phone: 904-284-4200



## 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
<b>Price Level</b>			
PRL-06D	SD PRL-06D (EFF:08/08/13)		
<b>Data Version</b>			
DRL-007	SPECPRO21 DATA RELEASE VER 007		
<b>Vehicle Configuration</b>			
001-177	114SD CONVENTIONAL CHASSIS	8,015	6,640
004-215	2015 MODEL YEAR SPECIFIED		
002-003	SET FORWARD AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1UT	UTILITY BUSINESS SEGMENT		
AA4-002	LIQUID BULK 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		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs		

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Data Code	Description	Weight Front	Weight Rear
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 43000.0 lbs		
<b>Truck Service</b>			
AA3-034	SEWER/INDUSTRIAL VACUUM BODY		
<b>Engine</b>			
101-2XN	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-780	-70
<b>Electronic Parameters</b>			
79A-072	72 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-009	PTO MODE ENGINE RPM LIMIT - 1200 RPM		
79L-011	PTO MODE THROTTLE OVERRIDE - LIMIT TO 1400 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE ONLY ENABLED		
79P-009	PTO RPM WITH CRUISE SET SWITCH - 1200 RPM		
79Q-009	PTO RPM WITH CRUISE RESUME SWITCH - 1200 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-006	PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
79W-002	TWO REMOTE PTO SPEEDS		
79X-009	REMOTE PTO SPEED 1 SETTING - 1200 RPM		
79Y-001	REMOTE PTO SPEED 2 SETTING - 900 RPM		
80F-001	AUTOMATIC MAINTENANCE MONITOR WITH ALERT AT 5% OF INTERVAL REMAINING		
80G-003	PTO MINIMUM RPM - 750		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
<b>Engine Equipment</b>			
99C-013	2013 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		

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Data Code	Description	Weight Front	Weight Rear
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		
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES	-50	-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		
293-060	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTBOARD DRIVER SEAT	8	
* 295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
* 239-200	INTEGRATED STACK AND B-PILLAR PIPE WITH MINIMUM STACK PROTRUSION ABOVE CAB		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
N 23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-40	-20
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		

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Data Code	Description	Weight Front	Weight Rear
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)		
273-048	HORTON 2-SPEED DRIVEMASTER POLAR EXTREME FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20	
103-004	ANTIFREEZE TO -34F, NOAT EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	25	
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

**Transmission**

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-80	-20
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**Transmission Equipment**

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
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		

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Data Code	Description	Weight Front	Weight Rear
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
353-022	VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BACK OF CAB		
* 34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-002	PTO MOUNTING, RH SIDE 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 Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
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	SKF SCOTSEAL PLUS XL 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		
406-001	STANDARD KING PIN BUSHINGS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		

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Data Code	Description	Weight Front	Weight Rear
534-003	4 QUART POWER STEERING RESERVOIR	5	
533-004	OIL/AIR POWER STEERING COOLER MOUNTED ABOVE FRONT CLOSING CROSSMEMBER	5	
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		
<b>Front Suspension</b>			
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
420-051	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		-2,350
421-563	5.63 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-076	MXL 17N MERITOR EXTENDED LUBE MAIN DRIVELINE WITH FULL ROUND YOKES	25	25
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
* 425-002	REAR BRAKE DUST SHIELDS		
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS		
426-074	HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
<b>Rear Suspension</b>			
622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		240
621-006	SPRING SUSPENSION - 2.25" AXLE SPACER		10
431-001	STANDARD U-BOLT PAD		
623-005	FORE/AFT CONTROL RODS		
<b>Brake System</b>			

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Data Code	Description	Weight Front	Weight Rear
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
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		
413-1AA	STANDARD U.S. FRONT BRAKE VALVE WITH ABS VALVES IN RAILS WITH RH HEAT SHIELDING		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-034	BW AD-IP BRAKE LINE AIR DRYER WITH HEATER	15	
* 479-024	AIR DRYER MOUNTED OUTBOARD ON RH RAIL BACK OF CAB, MAXIMUM 20 INCHES BACK OF CAB PROTRUSION		
460-095	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB	15	5
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
485-045	METALLIC AIR MANIFOLD MOUNTED TO BACK OF CAB CROSSMEMBER WITH SIX 1/4 INCH FITTINGS AND 70 PSI PROTECTION VALVE	5	

### Trailer Connections

335-004	UPGRADED CHASSIS MULTIPLEXING UNIT
---------	------------------------------------

### Wheelbase & Frame

545-640	6400MM (252 INCH) WHEELBASE		
* 546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	330	110
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	210	425
552-014	1900MM (75 INCH) REAR FRAME OVERHANG		
55W-007	FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-30	140
549-036	12 INCH INTEGRAL FRONT FRAME EXTENSION	60	-10
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 168.54 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 165.54 in		

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Data Code	Description	Weight Front	Weight Rear
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 366.68		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 168.54 in		
FSS-0LH	FRAME SPACE LH SIDE : 123.25 in		
FSS-0RH	FRAME SPACE RH SIDE : 175.88 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		

#### Chassis Equipment

556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-100	
551-017	GRADE 8 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
* 606-1U6	DRILLING PREP FOR VAC CON PER DRAWING 1893482		

#### Fuel Tanks

204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20	
218-006	25 INCH DIAMETER 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)		
122-084	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP	15	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
* 20E-004	AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
221-001	FUEL COOLER	10	

#### Tires

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Data Code	Description	Weight Front	Weight Rear
093-0TB	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	
094-0DH	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES		28
<b>Hubs</b>			
418-045	CONMET PRE-SET BEARING IRON FRONT HUBS		
450-045	CONMET PRE-SET BEARING IRON REAR HUBS		
<b>Wheels</b>			
502-1H5	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-24	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-132
<b>Cab Exterior</b>			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTS		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
754-002	3-1/2 INCH FENDER EXTENSIONS	15	
678-001	LH AND RH GRAB HANDLES		
646-041	STATIONARY BLACK GRILLE		
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
327-012	SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS		
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
* 294-1A6	GROTE #54332 LED STOP/TAIL/TURN LIGHTS GROMMET MOUNTED WITH SEPARATE GROTE #62401 LED BACKUP LIGHTS		

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 969 HALL PARK DRIVE  
 GREEN COVE SPRINGS, FL  
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Data Code	Description	Weight Front	Weight Rear
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BH	DUAL WEST COAST MOLDED-IN COLOR MIRRORS		
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		
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	TINTED WINDSHIELD		
659-007	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR		

### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		

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Data Code	Description	Weight Front	Weight Rear
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1DC	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT		
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-032	3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

### Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
68J-005	(5) SWITCH CUTOUPS AND BLANKS IN CENTER PANEL		
* 87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE LIGHT AND BUZZER		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-003	PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM		3
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		

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Data Code	Description	Weight Front	Weight Rear
157-007	MANUAL REMOTE ENGINE START/STOP WITH PTO RE-ENGAGE		
811-011	ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3		
160-025	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-071	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
* 33U-004	PREWIRE PACKAGE FOR VAC-CON CONTROL MODULE AND CHASSIS INTERFACE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1A2	AM/FM/WB RADIO WITH FRONT AUXILIARY INPUT	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO MPH AND/OR RPM GRAPH	-5	
* 162-018	IGNITION SWITCH CONTROLLED ENGINE STOP WITH CONTROL MOUNTED AT FIREWALL		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		

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Data Code	Description	Weight Front	Weight Rear
882-018	ONE VALVE PARK BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND 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**

980-5F6 CAB COLOR A: L0006EB WHITE ELITE BC  
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

**Certification / Compliance**

996-001 U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

**Secondary Factory Options**

998-032 CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY

**TOTAL VEHICLE SUMMARY**

**Weight Summary**

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	8599 lbs	5039 lbs	13638 lbs
<b>Total Weight<sup>+</sup></b>	<b>8599 lbs</b>	<b>5039 lbs</b>	<b>13638 lbs</b>

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**ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE**

**Other Factory Charges**

PMT-013 2013 OBD/2010 EPA/CARB/GHG14 ESCALATOR  
STANDARD DELIVERY CHARGE

**Extended Warranty**

WAG-053 TOWING EXTENDED/ROADSIDE SERVICE WARRANTY, 2  
YEAR/UNLIMITED MILES/KM, \$550 CAP

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(\*\*) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

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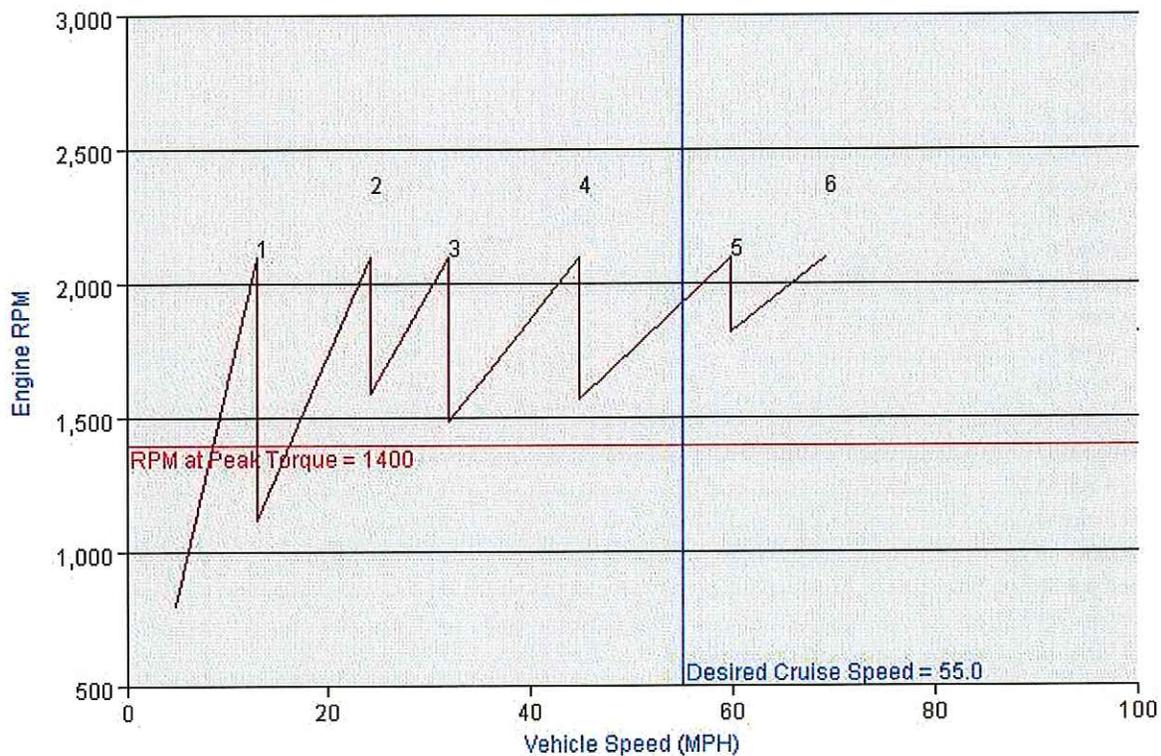
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**SHIFT CHART**



**VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART**

Model .....114SD

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Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph) .....	55.0
Engine (101).....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
RPM at Peak Torque .....	1400
Governed RPM.....	2100
Transmission (342).....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: LL .....	N/A
Gear Ratio: L .....	N/A
Gear Ratio: 1 .....	3.49
Gear Ratio: 2 .....	1.86
Gear Ratio: 3 .....	1.41
Gear Ratio: 4 .....	1
Gear Ratio: 5 .....	0.75
Gear Ratio: 6 .....	0.65
Gear Ratio: 7 .....	N/A
Gear Ratio: 8 .....	N/A
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
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
Low Gear Ratio .....	N/A
High Gear Ratio .....	N/A
Transfer Case (373) .....	NO TRANSFER CASE
Low Gear Ratio .....	N/A
High Gear Ratio .....	N/A
Rear Axle (420) .....	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Number of Speeds .....	1
Rear Axle Gear Ratio(s).....	5.63 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile.....	498



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**TABLE SUMMARY - SHIFT CHART**

Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1	3.49	5.63	19.65	N/A	800	8.6	12.9
2	1.86	5.63	10.47	87.6	1119	16.1	24.2
3	1.41	5.63	7.94	31.9	1592	21.2	31.9
4	1.00	5.63	5.63	41.0	1489	30.0	44.9
5	0.75	5.63	4.22	33.3	1575	39.9	59.9
6	0.65	5.63	3.66	15.4	1820	46.1	69.1

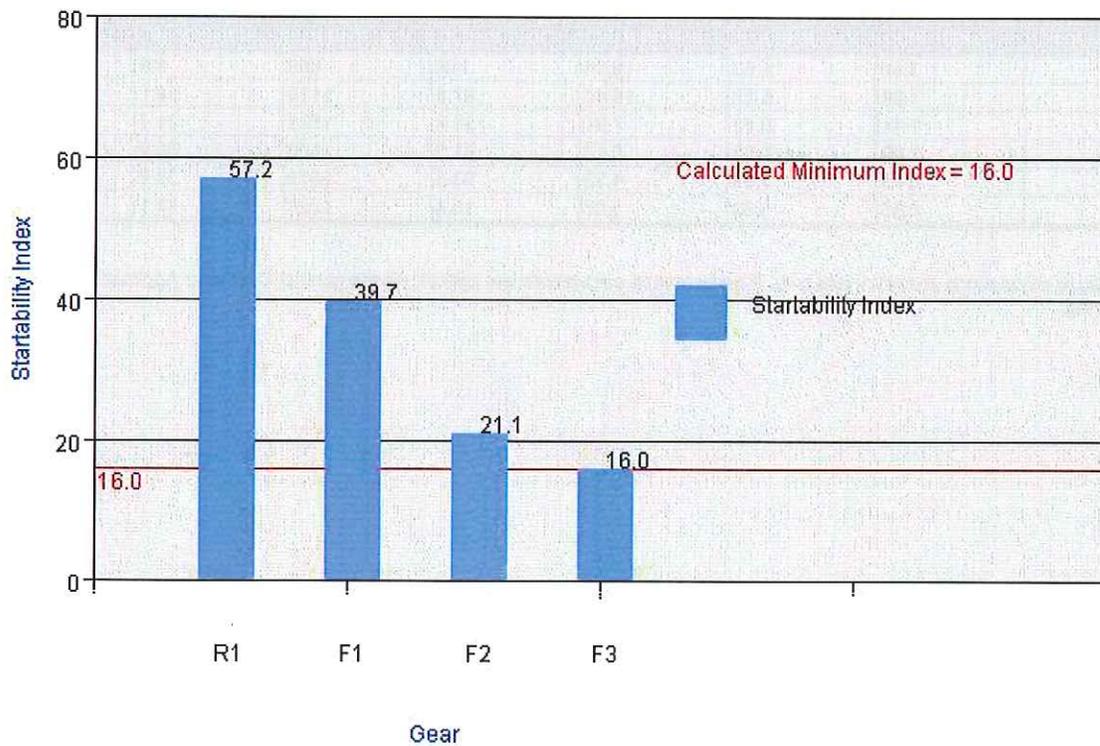
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**STARTABILITY**



**VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY**

Model .....114SD

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Cab Size (829)	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)	20000.0
Expected Pusher Axle(s) Load (lbs)	0.0
Expected Rear Axle(s) Load (lbs)	23000.0
Expected Tag Axle(s) Load (lbs)	0.0
Expected GVW (lbs)	43000
Expected GCW (lbs)	0.0
Engine (101)	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft)	550
Transmission (342)	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1	3.49
Gear Ratio: Forward 2	1.86
Gear Ratio: Forward 3	1.41
Gear Ratio: Reverse 1	5.03
Gear Ratio: Reverse 2	N/A
Gear Ratio: Reverse 3	N/A
Auxiliary Transmission (352)	NO AUXILIARY TRANSMISSION
Low Gear Ratio	N/A
High Gear Ratio	N/A
Transfer Case (373)	NO TRANSFER CASE
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	5.63 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	498
Vehicle Service (A85)	UTILITY/REPAIR/MAINTENANCE SERVICE
Startability Factor	8
Terrain (AA5)	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor	0
Most Severe Grade Expected (AB1)	MAXIMUM 8% EXPECTED GRADE
Startability Factor	8
Road Surface (AB5)	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
Startability Factor	0
Suggested Torque Converter Stall Ratio	1.99



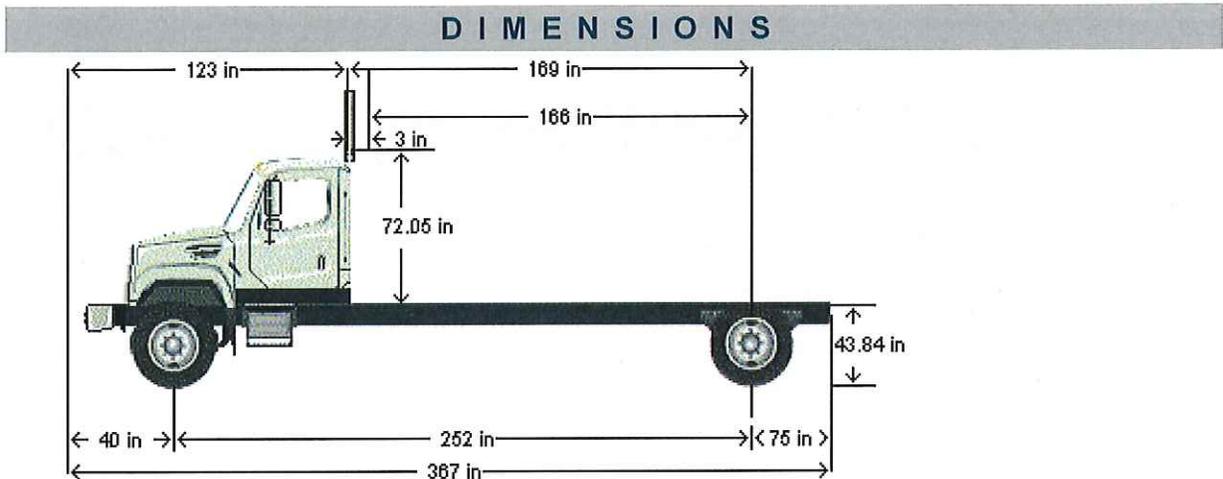
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Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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**VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS**

Model .....	114SD
Wheelbase (545) .....	6400MM (252 INCH) WHEELBASE
Rear Frame Overhang (552).....	1900MM (75 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
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016).....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

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**TABLE SUMMARY - DIMENSIONS**

Dimensions	Inches
Bumper to Back of Cab (BBC)	123.1
Bumper to Centerline of Front Axle (BA)	39.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	168.5
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	165.5
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.6
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	243.5
Cab Height (CH)	72.1
Wheelbase (WB)	252.0
Frame Overhang (OH)	75.0
Overall Length (OAL)	366.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	43.8

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**G V W R**

**VEHICLE SPECIFICATIONS SUMMARY - GVWR**

Model .....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs) .....	20000.0
Expected Pusher Axle(s) Load (lbs) .....	0.0
Expected Rear Axle(s) Load (lbs).....	23000.0
Expected Tag Axle(s) Load (lbs) .....	0.0
Expected GVW (lbs).....	43000
Expected GCW (lbs) .....	0.0
Front Axle (400).....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP 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) ....	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS
Front Tires (093).....	MICHELIN XZY-3 425/65R22.5 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) .....	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622) .....	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
Rear Hubs (450).....	CONMET PRE-SET BEARING IRON REAR HUBS
Rear Disc Wheels (505) .....	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423) .....	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443) .....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626) .....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509).....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095) .....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

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**TABLE SUMMARY - GVWR**

	Front	Rear
<b>Axle Component Weight Ratings</b>		
Axles	20000	23000
Suspension	20000	30000
Hubs	23000	26000
Brakes	20000	23000
Wheels	24600	29600
Tires	22800	23360
Power Steering	22000	N/A
GAWR (per axle)	20000	23000
GAWR (per axle system)	20000	23000
Expected Load (per axle system)	20000	23000
<b>Vehicle GVWR Summary</b>		
<b>Calculated GVWR</b>	43000	
<b>Expected GVWR</b>	43000	
All weights displayed in pounds		

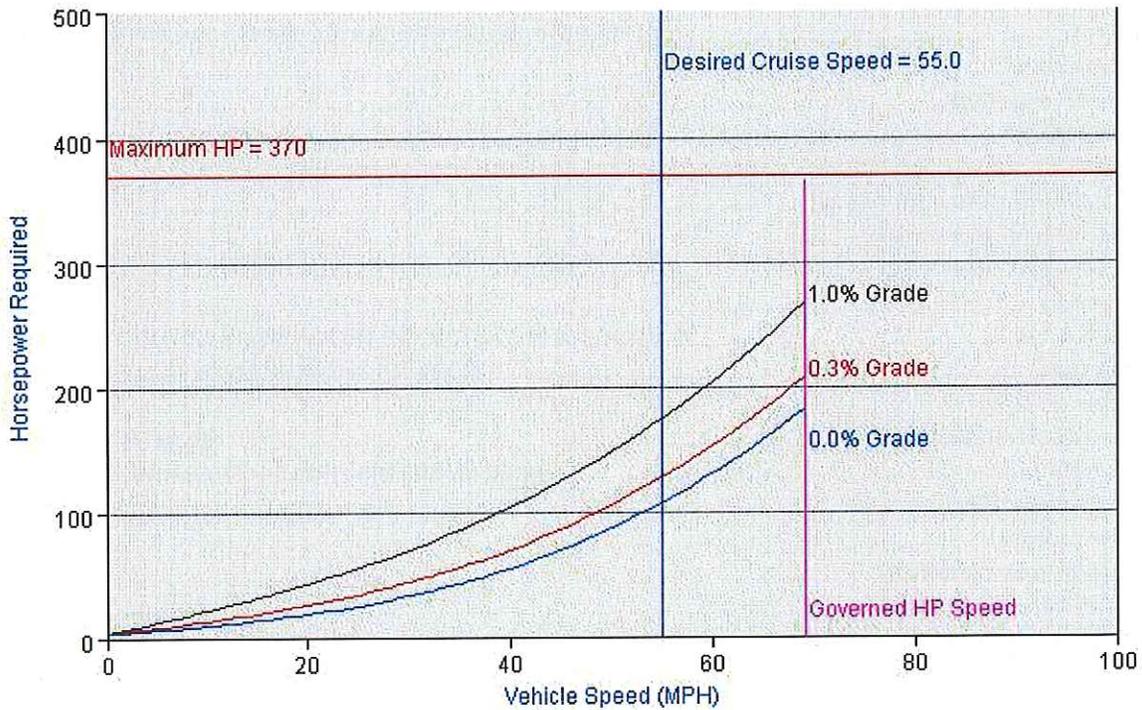
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**SPEEDABILITY**



**VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY**

Model .....114SD

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Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph) .....	55.0
Expected Front Axle(s) Load (lbs) .....	20000.0
Expected Pusher Axle(s) Load (lbs) .....	0.0
Expected Rear Axle(s) Load (lbs).....	23000.0
Expected Tag Axle(s) Load (lbs) .....	0.0
Expected GVW (lbs).....	43000
Expected GCW (lbs) .....	0.0
Engine (101) .....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Governed RPM.....	2100
HP at Governed RPM .....	365
RPM at Max HP.....	2100
Max HP .....	370
HP at Governed RPM (High Torque) .....	370
RPM at Max HP (High Torque).....	2000
Max HP (High Torque).....	370
Multi-torque .....	NO
Transmission (342).....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420) .....	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Number of Speeds .....	1
Rear Axle Gear Ratio(s).....	5.63 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile.....	498
Trailer Width (in).....	0.0
Trailer Height (ground to top) (ft) .....	10.0
Body Width (in) .....	96.0
Body Height (ground to top) (ft) .....	10.0
Roof Mounted Aero Device (784) .....	NO AIR SHIELD OR BRACKETS
Road Surface (AB5) . SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
High Gear Ratio .....	N/A
Low Gear Ratio .....	N/A
Transfer Case (373) .....	NO TRANSFER CASE
High Gear Ratio .....	N/A
Low Gear Ratio .....	N/A



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 Phone: 904-284-4200



**TABLE SUMMARY - SPEEDABILITY**

Top Gear Speedability	At Max Power Speed	At Governed RPM Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	69.1	69.1	55.0
Engine RPM	2100	2100	1671
Gross Power Available (HP)	370	366	N/A
Power (HP) Required for:			
Level Road	183	183	108
0.3% Grade	209	209	128
1.0% Grade	268	268	175
*Blue background represents value input by user.			

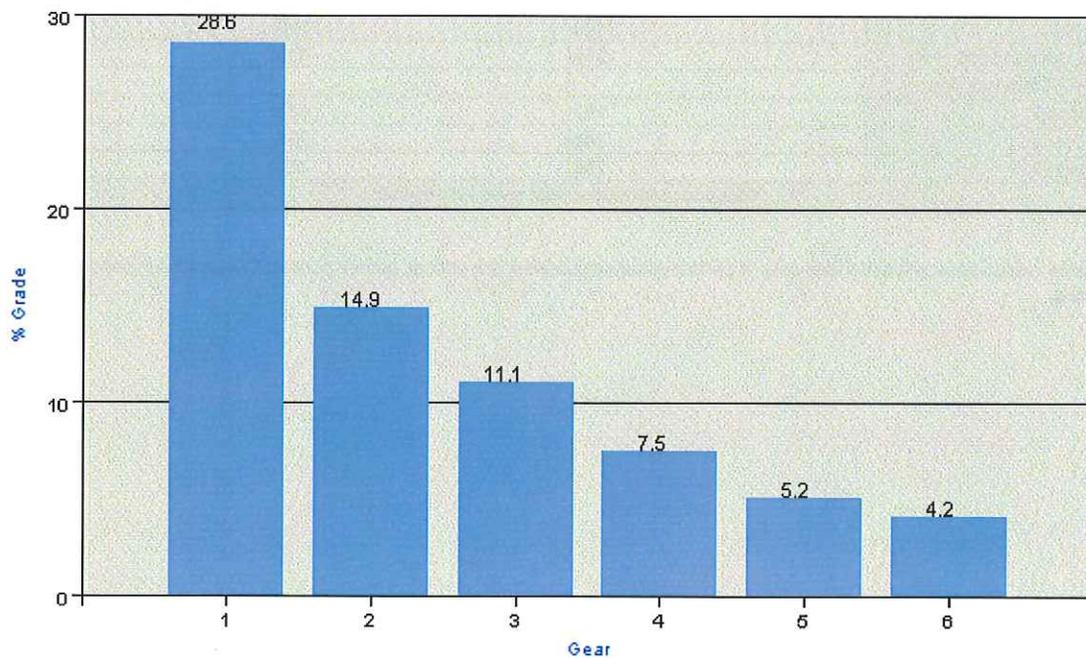
Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



Prepared for:  
 TOM JODY  
 VAC CON INC  
 969 HALL PARK DRIVE  
 GREEN COVE SPRINGS, FL  
 32043  
 Phone: 904-284-4200



**GRADEABILITY**



Desired Gradeability at Peak Torque = 0.5

**VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY**

Model .....114SD

Application Version 8.5.110  
 Data Version PRL-06D.007  
 2015MY 114SD 4X2 43000 ISL370  
 3000RDS



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Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Desired Gradeability at Peak Torque (%).....0.5  
Desired Gradeability at Cruise Speed(%) .....0.3  
Desired Cruise Speed (mph) .....55.0  
Expected Front Axle(s) Load (lbs) .....20000.0  
Expected Pusher Axle(s) Load (lbs) .....0.0  
Expected Rear Axle(s) Load (lbs).....23000.0  
Expected Tag Axle(s) Load (lbs) .....0.0  
Expected GVW (lbs).....43000  
Expected GCW (lbs) .....0.0  
Engine (101).....CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM  
    Peak Torque (lbs-ft) .....1250  
    RPM at Peak Torque .....1400  
    Peak Torque (Multi-torque High) (lbs-ft).....1250  
    RPM at Peak Torque (Multi-torque High).....1400  
    Multi-torque ..... NO  
Transmission (342)..... ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION  
Rear Axle (420) .....RS-23-160 23,000# R-SERIES SINGLE REAR AXLE  
    Number of Speeds .....1  
    Rear Axle Gear Ratio(s).....5.63 REAR AXLE RATIO  
Rear Tires (094) .....MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES  
    Revolutions per Mile.....498  
    Trailer Width (in).....0.0  
Trailer Height (ground to top) (ft) .....10.0  
Body Width (in).....96.0  
Body Height (ground to top) (ft) .....10.0  
Roof Mounted Aero Device (784) ..... NO AIR SHIELD OR BRACKETS  
Road Surface (AB5) .SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE  
Auxiliary Transmission (352).....NO AUXILIARY TRANSMISSION  
    High Gear Ratio .....N/A  
    Low Gear Ratio .....N/A  
Transfer Case (373) ..... NO TRANSFER CASE  
    High Gear Ratio .....N/A  
    Low Gear Ratio .....N/A  
Trailer Configuration (AA2) .....NO TRAILER SPECIFIED



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**TABLE SUMMARY - GRADEABILITY**

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	19.65	8.6	281.3	28.6
2	1.86	10.47	16.1	275.6	14.9
3	1.41	7.94	21.2	270.3	11.1
4	1.00	5.83	30.0	258.2	7.5
5	0.75	4.22	39.9	237.7	5.2
6	0.65	3.66	46.1	220.8	4.2
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			5.83		
Gross HP Available at Peak Torque			333		
RPM at Peak Torque			1400		
*Blue background represents value input by user.					

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	19.65	10.2	300.3	25.6
2	1.86	10.47	19.2	292.6	13.3
3	1.41	7.94	25.4	285.2	9.8
4	1.00	5.83	35.8	267.3	6.5
5	0.75	4.22	47.7	235.9	4.3
6	0.65	3.66	55.0	209.4	3.3
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			55.0		
Rear Axle Ratio			5.83		
Gross HP Available at Cruise Speed			368		
RPM at Cruise Speed			1670		
*Blue background represents value input by user.					

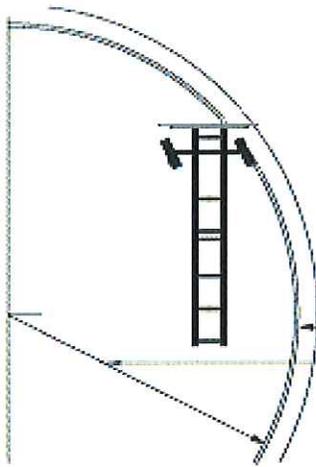
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## TURNING RADIUS



	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	98.4	88.5	+/- 3.0
Curb to Curb Diameter (ft)	95.0	84.6	+/- 3.0
Turning Radius (ft)	46.7	41.6	+/- 1.5

### VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model .....114SD  
 Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
 Wheelbase (545).....6400MM (252 INCH) WHEELBASE  
 Front Tires (093)..... MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES  
 Width (in) .....17.7  
 Front Axle (400)..... DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE  
 Kingpin Intersection (in) .....71  
 Bumper (556)..... OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203  
 Width (in) .....96  
 Bumper Miter to Front Axle (in) .....51.677  
 Primary Steering Location (003)..... LH PRIMARY STEERING LOCATION  
 Steering Gear (536) ..... TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR  
 Dual Steering Gear .....RCH45

Application Version 8.5.110  
 Data Version PRL-06D.007  
 2015MY 114SD 4X2 43000 ISL370  
 3000RDS



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Prepared for:  
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32043  
Phone: 904-284-4200



Ram ..... NONE  
Rear Axle (420) .....RS-23-160 23,000# R-SERIES SINGLE REAR AXLE  
Axle Spacing (624)..... NO AXLE SPACING

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





**CONTRACT PRICING WORKSHEET**  
For Standard Equipment Purchases

Contract No.:

SC01-15

Date Prepared:

3/26/2015

*"This Worksheet is prepared by Contractor and given to End User.*

*If a PO is issued, all documents MUST be faxed to H-GAC @ 713-993-4548. Therefore please type or print legibly.*

**ANY CHANGES TO HGAC OFFER MUST BE MADE BY VAC-CON.**

*Please make Purchase Order out to Vac-Con, Inc. 969 Hall Park Rd., Green Cove Springs, FL 32043*

*Remit to Vac-Con, Inc. at JP Morgan Chase, 24295 Network Place, Chicago, IL 60673-1242*

*or Wire Transfer Funds to Vac-Con Acct #754249605 at JP Morgan Chase ABA 021000021 Swift #CHASUS33 ACH #07100013 "*

Buying Agency:	City of Sacramento, 5730 24th Street, Sacramento, CA 95822	Contractor:	VAC-CON, INC.
Contact Person:	Isena Y. Garcia, CAFM Program Specialist	Prepared By:	ANGELA PASSAFARO
Phone:	916-808-1163	Phone:	904-529-1315
Fax:	916-399-9263	Fax:	904-284-3305
Email:		Email:	angelap@vac-con.com

Product Code:	A002	Description:	DUAL ENGINE FAN COMBINATION UNIT 9 CU YD
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<b>A. Product Item Base Unit Price Per Contractor's H-GAC Contract:</b>	\$144,056.00
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**B. Published Options - Itemize below - Attach additional sheet if necessary - Include Option Code in description if applicable**  
(Note: Published Options are options which were submitted and priced in Contractor's bid.)

Description	Cost
Subtotal Options & Accessories - see attached sheets B1:	\$167,109.00
Subtotal Chassis (Not Available to Customers in the State of TX) see attached sheets B2:	\$95,584.00
Subtotal From Additional Sheet(s):	
<b>FINAL MODEL NUMBER: V312LXHAE-O/1300</b>	<b>Subtotal B: \$262,693.00</b>

**C. Unpublished Options - Itemize below - Attach additional sheet if necessary**  
(Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
Continuous pirahna hose-ONLY	\$0.00		
(2) Rear cone racks to be mounted per attached photo	\$0.00	Trash pump flashout mounted on bun between debris body and pump	\$472.00
Vac-Con to supply truck layout drawings with HGAC quotation per city request	\$0.00	Inverter hard-wired inside cab Cobra Model CPI 880	\$1,000.00
Additional pipe rack to be mounted behind hose reel	\$0.00	ENZ 50.075G	\$4,118.00
(1) Standard analog water pressure gauge at front hose reel location	\$500.00	ENZ 400.080 BS (jetted 80 mpg)	\$3,300.00
Rear arrow stick whelen part #TA 125NF2	\$2,434.00	Mail slot 14"x20"x5" deep mounted on rear bulkhead behind partner desk	\$175.00
Install customer supplied Zonar on dash and city logo and #s on doors	\$400.00	ENZ 400.060 BS (jetted 80 mpg)	\$3,190.00
Partner desk-MME to ship	\$1,100.00	ENZ 40.075 (jetted 80gpm)	\$640.00
Debris-body-up warning light/alarm - dash mounted	\$375.00	Large, round, in-cab dome light Whelen part # 6OUEJCS	\$285.00
(4) Camera System (Back up, 2 side mounts, front hose reel location, model zone defense, part # cam.313c, cam.313ms	\$3,196.00	6" tall, expanded metal tray mounted full length and width on top of behind cab tool box	\$875.00
Grote Triangles	\$150.00	Rack mounted on front of behand cab tool box able to carry 6 sign standards city to approve size and location	\$1,275.00
Level wind guide to be whelen pioneer nano part # NP6BB	\$470.00	Largest possible expanded metal tool tray mounted below passenger side cab door	\$400.00

Forward facing LED Arrowstick Whelen part # TANF85	\$2,265.00	Expanded metal tray mounted drivers side between fuel tank and water tank capable of holding 12" baskets	\$650.00
(6) Gromet mounted LED strobes to be mounted , 4 corners and midship both sides Whelen part # 5VA02ZAR	\$1,870.00	Cone rack mounted on top of drivers side by fuel tank expanded metal tray	\$150.00
Tool box LED rope lighting with separate switch in box	\$457.00	<b>Subtotal From Additional Sheet(s):</b>	\$12,412.96
(1) Rear debris body mounted strobe with limb limb guard Whelen L31HAF	\$650.00	<b>Subtotal C:</b>	\$42,809.96
Check: Total cost of Unpublished Options (C) cannot exceed 25% of the total of the Base Unit Price plus Published Options (A+B).		<b>For this transaction the percentage is:</b>	11%
<b>D. Total Cost before any other applicable Charges, Trade-Ins, Allowances, Discounts, Etc. (A+B+C)</b>			
Quantity Ordered:	1	X Subtotal of A + B + C:	\$449,558.96 = <b>Subtotal D:</b> \$449,558.96
<b>E. Trade-Ins / Special Discounts / Other Allowances / Freight / Installation / Miscellaneous Charges</b>			
<b>Description</b>	<b>Cost</b>	<b>Description</b>	<b>Cost</b>
Delivery	\$6,350.00		
8.5% CA Sales Tax	\$38,212.50		
Factory Inspection Trip (1 person per truck)	\$1,448.00		
PERP Permit for Aux. Engine to be processed by MME	\$620.00		
		<b>Subtotal E:</b>	\$46,630.50
<b>Delivery Date:</b>		<b>F. Total Purchase Price (D+E):</b>	\$496,189.46

**C. Unpublished Options - Itemize below - Attach additional sheet if necessary**

(Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
All floodlights to be Whelen Micro Pioneer Model MPPBBS	\$1,400.00	(4) Sets of Keys	\$400.00
All toolboxes to include condensation and drain vents	\$400.00	Blue Tooth/MP3 Capable Radio - Set governed speed on chassis to 65 mph	\$300.00
(2) Boom mounted strobes whelen part # L31HAF	\$1,300.00	(2) 3" PVC tool racks 6' long mounted where space allows	\$150.00
(2) Rear cone racks mounted below deck (see comments)	\$300.00	Upgrade: John Deere Tier 4 Technology 6-Cylinder Model 6068HFC08	\$7,667.96
(3) 25' sections lay flat hose w/ male, female cam locks	\$270.00		
(3) 3" PVC tool racks 16' long mounted below subframe	\$225.00		
<b>Subtotal of Additional Sheet:</b>			<b>\$12,412.96</b>



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002
Offeror Name:	VAC-CON, INC.	
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous	

H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Offered Price	Qty	Total	
A002	A002	Description				
	A002-1	Base Model, includes the following	V290H/1000	\$ 144,056.00	1	\$ 144,056.00
		Standard Equipment:	DUAL ENGINE FAN COMBINATION UNIT 9 CU YD			

Vacuum System (as specified by Model Number)  
 Vacuum Drive: Hydrostatic Drive  
 3/16" Corten Steel Debris Tank - (size as specified by model number)  
 Full opening rear door  
 5" Butterfly valve with 10' layflat hose  
 Debris tank Dumping: minimum 50 deg., hydraulic scissors lift - power up/power down  
 Polyethylene water tank - 10 year warranty  
 Automatic Vacuum Breaker and overflow protection  
 8" vacuum intake hose  
 Boom travel tie down  
 4 Way hydraulic boom with 270 deg. Rotation and joystick controls  
 Front mounted 600' capacity (1" hose)/hydraulic hose reel  
 60 gpm/2000 psi water pump system  
 Water pump drive: Standard Aux. Engine is WSG-1068 6.8 Litre, 10-Cylinder, Gas Engine 222HP @3200RPM  
 600' high pressure jet rodder hose (1" or 3/4")  
 Manual hose rewind guide  
 Hose guide (Tiger Tail)  
 30' leader hose  
 20 gpm at 600 psi wash down hand gun with 35' of hose and nozzle  
 Sealed and locking tool box (es) (as indicated by model number)  
 1) each sanitary and penetrator nozzles - 3/4" 50 GPM Standard and 3/4" 50 GPM Chisel  
 20.5' aluminum intake pipe(1-3', 1-5', 1-6', and 1-6.5' nozzle)  
 ICC lighting  
 DuPont Elite Polyurethane Paint  
 Back up alarm  
 Debris Body "Power Flush" System, 8 Jets  
 Revolving light with guard, rear debris tank door mounted  
 Hose footage counter (Curb side)  
 10' of handgun hose (35' total)  
 Overspeed warning light for water pump  
 12 month standard warranty - see certificate for details  
 Note: PD Units Include Price for required Hydrostatic Drive Option.  
 5# Fire Extinguisher  
 Set Triangles



Models	Description	Additional Information	Offered Price	Qty	Total
A002-2	250H/650	Includes: 2 Stage Vac-Con Blower, Hydrostatic Drive, 5 CY Debris Tank, 650 Gal H2O, 4X2 and Rolling Bogies	\$2,523.00		
A002-3	350H/650	Includes: 3 Stage Vac-Con Blower, Hydrostatic Drive, 5 CY Debris Tank, 650 Gal H2O, 4X2 and Rolling Bogies	\$12,727.00		
A002-4	250/850	Includes: 2 Stage Vac-Con Blower, 5 CY Debris Tank, 850 Gal H2O, 4X2 and Rolling Bogies	\$1,260.00		
A002-5	250/1000	Includes: 2 Stage Vac-Con Blower, 5 CY Debris Tank, 1000 Gal H2O, 4X2 and Rolling Bogies	\$2,498.00		
A002-6	350/850	Includes: 3 Stage Vac-Con Blower, 5 CY Debris Tank, 850 Gal H2O, 4X2 and Rolling Bogies	\$10,284.00		
A002-7	350/1000	Includes: 3 Stage Vac-Con Blower, 5 CY Debris Tank, 1000 Gal H2O, 4X2 and Rolling Bogies	\$11,931.00		
A002-8	290/850	Includes: 2 Stage Vac-Con Blower, 9 CY Debris Tank, 850 Gal H2O, 4X2	(\$1,700.00)		
A002-9	290/1000	Includes: 2 Stage Vac-Con Blower, 9 CY Debris Tank, 1000 Gal H2O, 4X2	\$0.00		
A002-10	390/850	Includes: 3 Stage Vac-Con Blower, 9 CY Debris Tank, 850 Gal H2O, 4X2	\$7,801.00		
A002-11	390/1000	Includes: 3 Stage Vac-Con Blower, 9 CY Debris Tank, 1000 Gal H2O, 4X2	\$9,437.00		
A002-12	211E/850	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$14,637.00		
A002-13	211E/1000	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$15,298.00		
A002-14	211E/1300	Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$14,637.00		



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002		
Offeror Name: VAC-CON, INC.				
Invitation No.: SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mir's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)		
	A002-15	211E/1500 Includes: 2 Stage Vac-Con Blower, 11 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$19,684.00	
	A002-16	311E/850 Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$17,774.00	
	A002-17	311E/1000 Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$19,171.00	
	A002-18	311E/1300 Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$24,020.00	
	A002-19	311E/1500 Includes: 3 Stage Vac-Con Blower, 11 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$29,066.00	
	A002-20	212E/850 Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$12,926.00	
	A002-21	212E/1000 Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$14,458.00	
	A002-22	212E/1300 Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$19,593.00	
	A002-23	312E/850 Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 850 Gal H2O, 6X4, Extended Frame	\$22,371.00	
	A002-24	312E/1000 Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1000 Gal H2O, 6X4, Extended Frame	\$24,020.00	
	A002-25	312E/1300 Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1300 Gal H2O, 6X4, Extended Frame	\$28,972.00	1 \$ 28,972.00
	A002-26	212E/1500 Includes: 2 Stage Vac-Con Blower, 12 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$28,972.00	
	A002-27	312E/1500 Includes: 3 Stage Vac-Con Blower, 12 CY Debris Tank, 1500 Gal H2O, Extended Frame, 6X4. Cannot be used with High Dump.	\$36,652.00	
	A002-28	216E/1300 Includes: 2 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1300 Gal H2O, 6X4. Consult Factory on Rear Axle Requirements, Extended Frame	\$31,472.00	
	A002-29	316E/1300 Includes: 3 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1300 Gal H2O, 6X4. Consult Factory on Rear Axle Requirements, Extended Frame	\$41,056.00	
	A002-30	216E/1500 Includes: 2 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1500 Gal H2O, Extended Frame, 6X4. Consult Factory on Rear Axle Requirements	\$45,730.00	
	A002-31	316E/1500 Includes: 3 Stage Vac-Con Blower, 16 CY Debris Tank with Flat Style Rear Door, 1500 Gal H2O, Extended Frame, 6X4. Consult Factory on Rear Axle Requirements. Cannot be used with High Dump.	\$55,150.00	
	A002-32	Mounting Charge Required for Every Vehicle	\$2,416.00	1 \$ 2,416.00
<b>Booms</b>				
<b>Description</b>		<b>Additional Information</b>		
A002-33	Fixed Boom - Standard	Standard	\$ -	
A002-34	6' Aluminum Telescoping Boom with Pendant Control Station		\$ 8,235.00	
A002-35	10' Aluminum Telescoping Boom with Pendant Control Station		\$ 12,360.00	
A002-36	6' Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station	10" Boom Inlet, Boom and Elbow with 10" to 8" Adapter & 8" hose	\$ 14,203.00	
A002-37	10' Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station	10" Boom Inlet, Boom and Elbow with 10" to 8" Adapter & 8" hose	\$ 18,327.00	1 \$ 18,327.00
<b>Blower Drives</b>				
<b>Description</b>		<b>Additional Information</b>		
A002-38	Hydrostatic Drive	Option Price	\$ 8,814.00	1 \$ 8,814.00
A002-39	Hydrostatic Drive	if included in base price	\$ -	
A002-40	Split Shaft PTO	Standard	\$ -	
A002-41	High Volume Hydrostatic Drive Upgrade	Option Price	\$ 10,569.00	



HGAC - Contract SC01-15  
January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:		VAC-CON, INC.			
Invitation No.:		SC01-15 - Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous			
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Optional Price if Hydrostatic Drive is included in Base Price		
	A002-42	High Volume Hydrostatic Drive Upgrade when Hydrostatic is included in base machine price	\$ 1,758.00		
		Hose Reels			
		Description	Additional Information		
	A002-43	Front Mounted, Fixed, Standard	\$ -		
	A002-44	Front Mounted, Fixed, 800' (1") Capacity	\$ 3,150.00		
	A002-45	Front Mounted, Articulating to Driver Side (Std Pivot)	\$ 12,214.00		
	A002-46	Front Mounted, Articulating to Driver Side, 800' (1") Capacity	\$ 15,363.00	1	\$ 15,363.00
	A002-47	Front Mounted, Articulating to Passenger Side (Reverse Pivot)	\$ 12,253.00		
	A002-48	Front Mounted, Articulating to Passenger Side, 800' (1") Capacity	\$ 15,403.00		
	A002-50	Rear Mounted, Articulating Hose Reel	\$ 12,227.00		
	A002-51	Rear Mounted, Articulating Hose Reel, 800' Capacity	\$ 15,363.00		
	A002-52	Front Mounted Swivel Hose Reel, 600' (1") Capacity	\$ 8,780.00		
	A002-53	Rear Mounted Swivel Hose Reel, 600' (1") Capacity	\$ 8,525.00		
		Hose Reel Options			
		Description	Additional Information		
	A002-54	Pivoting Shield / Lexan	\$ 2,500.00		
	A002-55	Hose Reel Shield / Lexan	\$ 1,519.00		
	A002-56	Hose Reel Cage	\$ 1,050.00		
	A002-57	Automatic Power Guide (711-50627), includes electronic footage for either Omnibus or Non-Omnibus units.	\$ 4,903.00		
	A002-58	Electro Magnet for outrigger leg	\$ 4,393.00		
	A002-59	Pinch Roller for Automatic Level Wind	\$ 2,079.00		
		Water Systems			
		Description	Additional Information		
	A002-60	30 gpm/3000 psi Pump - 10 cylinder WSG-1068 Gas	\$ -		
	A002-61	30 gpm/3000 psi Pump - FMC / Hydro-Excavation Package	\$ -		
	A002-62	60 gpm/2000 psi Pump 10-Cylinder WSG-1068 Gas	\$ -		
	A002-63	65 gpm/2000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-64	60 gpm/2500 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-65	50 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-66	80 gpm/2000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-67	80 gpm/2500 psi Pump - 10-Cylinder WSG-1068 Gas	\$ 8,817.00		
	A002-68	60 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-69	65 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ -		
	A002-70	80 gpm/3000 psi Pump - 10-Cylinder WSG-1068 Gas	\$ 8,817.00	1	\$ 8,817.00
	A002-71	120 gpm/2000 psi Water System (Includes 500' x 1 1/4" Hose & 800' Capacity Reel) - 10-Cylinder WSG-1068 Gas	\$ 21,875.00		
		Water Systems Options			
		Description	Additional Information		
	A002-72	Winter Recirculating System for Rodder Hose	\$ 933.00		
	A002-73	Winter Recirculating connection for low pressure circuit.	\$ 234.00		
	A002-74	Winter Recirculating connection for high pressure circuit.	\$ 402.00		
	A002-75	Artic Winter Recirculating System for rodder hose, includes plumbing to upper water tanks.	\$ 1,172.00		
	A002-76	Air Purge System	\$ 755.00	1	\$ 755.00
	A002-77	Drivers Side Hand Gun Connection	\$ 271.00		
	A002-78	Rear Hand Gun Connection	\$ 271.00		
	A002-79	Front Bumper Hand Gun Connection	\$ 315.00		
	A002-80	Pre-Tank Water Filter (In-line)	\$ 315.00		
	A002-81	Pre-Tank Water Filter (Y-type)	\$ 842.00		
	A002-82	2 1/2" Water Drain Gate Valve Assembly (cannot choose both 2-1/2" gate valve and 1/4 turn ball valve, only choose one)	\$ 265.00	1	\$ 265.00
	A002-83	1/4 turn ball valve water drain ( cannot choose both 2-1/2" gate valve and 1/4 turn ball valve, only choose one)	\$ 412.00		
	A002-84	Automatic Continuous Fill System	\$ 1,976.00		
	A002-85	Folding Spray Bar Assembly with In Cab Controls	\$ 3,407.00		
	A002-86	Variable Flow Valve (Valve Only) - nozzles required	\$ 389.00	1	\$ 389.00
	A002-87	50' Capacity Retractable Hand Gun Hose Reel	\$ 1,851.00	1	\$ 1,851.00
	A002-88	100' Capacity Handgun Hose Reel	\$ 3,253.00		
	A002-89	Water Ring Assembly (inlet mounted)	\$ 2,003.00		
	A002-90	Pulsation Feature for Water Pump	\$ 3,243.00		
	A002-91	Lateral Cleaning Kit w/150' x 1/2" Hose w/Nozzle, Dolly style mounts	\$ 2,874.00		
	A002-92	Lateral Cleaning Kit w/200' x 1/2" Hose w/Nozzle, Permanently Mtd, Electronically Controlled	\$ 5,309.00		
	A002-93	Lateral Cleaning Kit w/400' Hose w/Nozzle, Permanently Mtd, Hydraulically Controlled	\$ 6,641.00		
	A002-94	Hydroexcavation package includes: 50' retractable handgun hose reel with 50' of 1/2" high pressure hose, HP/Quick disconnect, heavy duty HP unloader valve, main control ball valve, 48" x 1/2" stainless steel lance with pistol grip.	\$ 5,349.00	1	\$ 5,349.00



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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC Product Code		Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Additional Information	Price	Quantity	Total Price
Offeror Name:		VAC-CON, INC.					
Invitation No.:		SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous					
H-GAC Product Code		Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	Additional Information	Price	Quantity	Total Price
		A002-95	Street Flusher, 450 GPM, air actuated spray heads, includes water and debris tanks tied together	Consult factory for adaptability for Single Engine Design	\$ 30,140.00		
		A002-96	Auxiliary Engine Driven Hydraulics		\$ 4,170.00	1	\$ 4,170.00
		A002-97	Water Pump Remote Oil Drain		\$ 244.00	1	\$ 244.00
		A002-98	1,200,000 BTU Diesel Fired Boiler	667-0030	\$ 21,034.00		
		A002-99	410,000 BTU Diesel Fired Boiler	667-0039	\$ 17,870.00		
		A002-100	FMC Water Pump Option: 30/3000, 60/2000, 65/3000, 80/2000, 80/2500	Replaces standard Giant water pump	\$ 1,957.00		
		Water Systems Accessories					
		Description			Additional Information		
		A002-101	Hand Gun Assembly, Low Pressure	Hand Gun Only - no hose	\$ 280.00		
		A002-102	Hand Gun Assembly with 25' of 3/4" hose, Low Pressure		\$ 578.00		
		A002-103	10' Hand Gun Hose Extension		\$ 102.00		
		A002-104	25' Hand Gun Hose Extension		\$ 236.00		
		A002-105	30' Hand Gun Hose Extension		\$ 276.00		
		A002-106	50' Hand Gun Hose Extension		\$ 359.00		
		A002-107	Water Ring (Ring Only)		\$ 422.00		
		A002-108	Hand Gun Bracket Assembly		\$ 63.00		
		A002-109	Hand Gun Assembly (2) Handle with Adjustable Spray		\$ 523.00		
		A002-110	Water Cooler Rack		\$ 277.00	1	\$ 277.00
		A002-111	Cam-locks for Water Fill Hose		\$ 216.00		
		A002-112	Cam-locks for Rear Drain Hose		\$ 304.00	1	\$ 304.00
		A002-113	Additional Water Tank Sight Guage (Drivers Side)		\$ 166.00		
		A002-114	72" x 1/2" Stainless Steel Lance with Adjustable Grip, Single Forward Chisel Jet	711-30902	\$ 1,049.00		
		A002-115	48"x1/2" Stainless Steel Lance with Adjustable Grip, (4) Forward Jet Chisel	711-30901A	\$ 718.00		
		A002-116	72"x1/2" Stainless Steel Lance with Adjustable Grip, (4) Forward Jet Chisel	711-30902A	\$ 740.00		
		A002-117	48"x1/2" Stainless Steel Lance with Adjustable Grip, Turbo "Rotating" Nozzle	711-30901T	\$ 829.00		
		A002-118	72"x1/2" Stainless Steel Lance with Adjustable Grip, Turbo "Rotating" Nozzle	711-30902T	\$ 829.00	1	\$ 829.00
		A002-119	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, Single Forward Jet Chisel	711-30903	\$ 1,159.00		
		A002-120	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, (4) Forward Jet Chisel	711-30903A	\$ 1,131.00		
		A002-121	51"x1/2" Stainless Steel Lance with Adjustable 90 Degree Handle, Turbo "Rotating" Nozzle	711-30903T	\$ 1,243.00		
		Jet Rodder Hose					
		Description			Additional Information		
		A002-122	400' x 3/4" 3000 psi/7500 psi - Standard		\$ -		
		A002-123	500' x 3/4" 3000 psi/7500 psi - 100' extra		\$ 402.00		
		A002-124	600' x 3/4" 3000 psi/7500 psi - 200' extra		\$ 804.00		
		A002-125	700' x 3/4" 3000 psi/7500 psi - 300' extra (non-continuous)		\$ 1,206.00		
		A002-126	800' x 3/4" 3000 psi/7500 psi - 400' extra (non-continuous)		\$ 1,607.00		
		A002-127	1000' x 3/4" 3000 psi/7500 psi - 600' extra (non-continuous)		\$ 2,410.00		
		A002-128	400' x 1" 2500 psi/6250 psi - Standard	Standard	\$ -		
		A002-129	500' x 1" 2500 psi/6250 psi - 100' extra		\$ 402.00		
		A002-130	600' x 1" 2500 psi/6250 psi - 200' extra		\$ -		
		A002-131	700' x 1" 2500 psi/6250 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 1,206.00		
		A002-132	800' x 1" 2500 psi/6250 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 1,607.00		
		A002-133	400' x 1" 3000 psi/7500 psi		\$ 581.00		
		A002-134	500' x 1" 3000 psi/7500 psi - 100' extra		\$ 1,163.00		
		A002-135	600' x 1" 3000 psi/7500 psi - 200' extra		\$ 1,715.00		
		A002-136	700' x 1" 3000 psi/7500 psi - 300' extra (non-continuous)	Requires large hose reel	\$ 2,002.00		
		A002-137	800' x 1" 3000 psi/7500 psi - 400' extra (non-continuous)	Requires large hose reel	\$ 2,819.00	1	\$ 2,819.00
		A002-138	500' x 1 1/4" 2500 psi/6250 psi	Standard on 120 gpm water system	\$ -		
		A002-139	800' x 3/4" continuous 3000 psi/7500 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 3,465.00		
		A002-140	800' x 1" continuous 2500 psi/6250 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 3,465.00		
		A002-141	800' x 1" continuous 3000 psi/7500 psi-400' extra sewer hose, Cobra only	Cobra Rodder Hose	\$ 4,676.00		
		Spare Rolls of Jet Rodder Hose					
		Description			Additional Information		
		A002-142	400' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 1,616.00		
		A002-143	500' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 2,031.00		
		A002-144	600' Spare Roll of Jet Rodder Hose	3/4" 3000 psi or 1" 2500 psi	\$ 2,414.00		
		Debris Body Options					
		Description			Additional Information		
		A002-145	Debris Body "Power Flush" System, 8 jets		\$ -	1	\$ -
		A002-146	Remove Debris Body "Power Flush" System, 8 jets		\$ (1,753.00)		
		A002-147	Flush Out connection for rear door valve		\$ 470.00	1	\$ 470.00



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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:	VAC-CON, INC.				
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
	A002-148	Centrifugal Compressor Fan Flush Out System	\$ 1,086.00		
	A002-149	Hydraulic Rear Door Opener, removes door grabber	\$ 3,411.00		
	A002-150	Water & Debris Tanks Tied Together	\$ 2,065.00		
	A002-151	6" Knife Valve, Lower Rear Door Mounted with Cam-Lock	\$ 1,818.00		
	A002-152	6" Knife Valve with lever action, in lieu of 5" Butterfly Valve	\$ 662.00	1	\$ 662.00
	A002-153	8" Knife Valve, Lower Rear Door Mounted	\$ 1,969.00		
	A002-154	6" Air operated knife valve/Front Drivers Side Mounted	\$ 2,192.00		
	A002-155	Debris Tank Inspection Hatch, 8" w/steps & handles	\$ 696.00		
	A002-156	Rear, Hydraulic Pump Off System, 200 GPM w/20' lay flat Hose	\$ 6,382.00		
	A002-157	Rear, Hydraulic Pump Off System, 350 GPM w/20' lay flat Hose	\$ 8,505.00	1	\$ 8,505.00
	A002-158	Rear, Hydraulic Pump Off System, 400 gpm with 20' lay flat hose	\$ 8,505.00		
	A002-159	Rear, Hydraulic Pump Off System, 450 gpm with 20' lay flat hose	\$ 11,485.00		
	A002-160	Rear, Hydraulic Pump Off System, 575 GPM w/20' lay flat Hose	\$ 11,485.00		
	A002-161	Gravity Drain System; plumbing to mid-passenger side of unit, allowing return of liquids to the manhole	\$ 1,699.00	1	\$ 1,699.00
	A002-162	Front gate valve, for use with Gravity Drain Option	\$ 329.00	1	\$ 329.00
	A002-163	High Dump Option, Single Axle (9 Yard)	\$ 14,866.00		
	A002-164	High Dump Option, Tandem Axle	\$ 18,676.00		
	A002-165	Ceramic Coating in Debris Tank, Single Axle	\$ 4,194.00		
	A002-166	Ceramic Coating in Debris Tank, Tandem Axle	\$ 5,593.00		
	A002-167	A Flat Style Rear Door ilo Dome Style Door Including Hydraulic Opener will be Provided	\$ 4,895.00		
	A002-168	Rear splash guard (4 - 8 O'clock) - tank mounted	\$ 1,713.00		
	A002-169	Rear splash guard (3 - 9 O'clock) - tank mounted	\$ 1,887.00		
	A002-170	Rear Splash Shield Diamond Plate Aluminum	\$ 3,333.00		
	A002-171	Water Tank Side Panels, Diamond Plate Aluminum	\$ 1,537.00		
	A002-172	Vacuum Enhancer, Fan or PD, Air Operated	\$ 4,394.00		
	A002-173	Vibrator, Electric	\$ 3,818.00		
	A002-174	Screen assembly over rear drain port in lieu of bar weldments	\$ 402.00		
	A002-175	Wear Plate, Swing Style	\$ 933.00		
	A002-176	Rubber pad on standard deflector	\$ 459.00		
	A002-177	Electric Vibrator	\$ 3,818.00		
	A002-178	Wear Plate to cover entire rear door, with hinge	\$ 905.00		
	A002-179	Built in Body Prop - Rear Boom Support Mounted	\$ 423.00		
		Electrical Options			
		Description	Additional Information		
	A002-180	Inspector Cam Camera System with DVR Recording Device	\$ 33,930.00		
	A002-181	Low Water Alarm with Light	\$ 458.00	1	\$ 458.00
	A002-182	Body Load Limit Alarm, Level Indicator	\$ 616.00		
	A002-183	Rear Axle Load Limit Alarm	\$ 834.00	1	\$ 834.00
	A002-184	Front Axle Load Limit Alarm	\$ 834.00		
	A002-185	Auxiliary Engine Kill Switch (Vandalism Protection)	\$ 119.00		
	A002-186	Safety Shut Down Switch for Boom	\$ 159.00		
	A002-187	Vacuum Breaker Override Switch (Vacuum & Drive)	\$ 159.00		
	A002-188	Remote Control (Wireless): Boom, Vacuum Breaker, Throttle & Debris Body (includes Hi-Dump, if applicable). Does not include remote cable pendant controls for boom or hi dump.	\$ 4,194.00		
	A002-189	4 Way Pendant Control Station	\$ 461.00		
	A002-190	6 Way Pendant Control Station (Spare)	\$ 461.00		
	A002-191	Grounding Cable with Screw Clamp & 25' of Cable	\$ 460.00		
	A002-192	Hi Dump pendant control station with 25' cable	\$ 373.00		
	A002-193	Back Up Alarm		1	\$
	A002-194	Remove Back Up Alarm	\$ (247.00)		
	A002-195	Back Up camera with color monitor, rear camera head	\$ 1,574.00		
	A002-196	Omnibus-2 Electronic Controller System-Color Monitor	\$ 3,445.00	1	\$ 3,445.00
	A002-197	Omnibus Footage Counter	\$ 1,512.00	1	\$ 1,512.00
	A002-198	Omnibus Hydrostatic Electronic Engagement	\$ 1,172.00	1	\$ 1,172.00
	A002-199	Grounding Mat	\$ 882.00		



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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002				
Offor Name:	VAC-CON, INC.					
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous					
H-GAC Product Code	Offor's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)				
	A002-200	Pole Camera	Trio-vision Portable Pole Camera TVS-10, with laser distance measuring, is designed for fast inspection/diagnosis of industrial tanks, vessels, and pipes. Single-operator, spring-loaded, lightweight, extendable carbon fiber, telescopic pole. Vest houses a control box, MP5 with 4.3" screen and battery pack. Cam zoom is 432:1, high-intensity discharge lighting, waterproof to IP68 and pole goes to a 25 foot depth.	\$ 14,395.00		
	A002-201	Omni-View - Data Logging and Telematics System	Requires Omnibus Option	\$ 8,240.00		
		<b>Lighting Options</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-202	Revolving Light with guard, Mirror Mounted	Indicate Driver Side or Passenger Side	\$ 565.00		
	A002-203	Revolving Light with Guard, Rear Debris Tank Door Mounted	Standard	\$ -		
	A002-204	Remove Standard Revolving Light with Guard, Rear Debris Tank Door Mounted		\$ (565.00)	1	\$ (565.00)
	A002-205	Strobe Light, Mirror Mounted, with Limb Guard	Please Indicate Drivers Side or Passenger Side	\$ 629.00		
	A002-206	Strobe Light with Limb Guard, Rear Debris Tank Door Mounted		\$ 629.00		
	A002-207	Mirror Mounted LED Strobe Light with Limb Guard	Please Indicate Driver Side or Passenger Side	\$ 836.00		
	A002-208	LED strobe with Limb Guard, Rear Debris Tank Mounted		\$ 836.00		
	A002-209	LED 4 Strobes - (2) front bumper / (2) rear bumper		\$ 1,725.00		
	A002-210	LED Arrow Board, Rear Debris Tank Door Mounted		\$ 2,252.00		
	A002-211	Arrow Stick		\$ 1,393.00		
	A002-212	LED Arrow stick		\$ 2,331.00		
	A002-213	Arrow Board, D.O.T., WANCO, Rear Debris Tank Door Mounted		\$ 5,899.00		
	A002-214	Hand Held Spot Light		\$ 408.00		
	A002-215	Hand Held Spot Light with 50' Retractable Cord		\$ 952.00		
	A002-216	Hand Light Connection, Rear Dump Control Location	Reaches entire unit	\$ 109.00		
	A002-217	Boom Mounted Flood Lights		\$ 526.00		
	A002-218	Rear Mounted Flood Lights		\$ 526.00		
	A002-219	Flood Light - Water Pump Work Area		\$ 281.00		
	A002-220	Flood Light - Auxiliary Engine Work Area		\$ 281.00	1	\$ 281.00
	A002-221	Flood Light - Level Wind Guide		\$ 281.00		
	A002-222	Limb Guard for Flood Light - each		\$ 86.00	6	\$ 516.00
	A002-223	ICC - LED Lighting Package		\$ 1,428.00	1	\$ 1,428.00
	A002-224	LED Boom Mounted Flood Lights		\$ 747.00	1	\$ 747.00
	A002-225	LED Rear Mounted Flood Lights		\$ 747.00	1	\$ 747.00
	A002-226	LED Flood Light - Water Pump Work Area		\$ 392.00	1	\$ 392.00
	A002-227	LED Flood Light - Level Wind Guide		\$ 392.00		
		<b>Misc. Machine Options</b>				
		<b>Description</b>	<b>Additional Information</b>			
	A002-228	Heavy Reinforced Elbow "Wear Back"		\$ 1,000.00	1	\$ 1,000.00
	A002-229	Heavy Duty Rubber Hose in lieu of Kanaflex (replace standard)	(Limits Boom Rotation)	\$ 1,164.00		
	A002-230	Auxiliary engine control panel (lockable door)	For use with Deutz Auxiliary Engines	\$ 295.00		
	A002-231	Cyclone Separator, add on for fan units, consult factory for adaptability	Contact factory for adaptability. Standard on PD units.	\$ 4,419.00		
	A002-232	Hydraulic Power Tool Option, front bumper control valve mount location		\$ 3,053.00		
	A002-233	Hydraulic Power Tool Option, Rear Bumper Control Valve Mount Location		\$ 3,496.00		
	A002-234	Long Handle Storage / PVC (2) mounted in storage box under shelf	(or best location)	\$ 455.00	1	\$ 455.00
	A002-235	Hose Footage Counter (Standard - Driver Side)		\$ 522.00	1	\$ 522.00
	A002-236	Hose Footage Counter (Curb Side)	Standard	\$ -		
	A002-237	Remove Hose Footage Counter (Curb Side)		\$ (522.00)		
	A002-238	Digital electronic footage counter		\$ 3,489.00		
	A002-239	Metric Hose Counter (Driver Side)		\$ 522.00		
	A002-240	Offset Manhole Roller 711-0050		\$ 343.00		
	A002-241	Grate Lifting Hook 711-0474		\$ 401.00		
	A002-242	Cone Storage Rack		\$ 375.00	1	\$ 375.00
	A002-243	Cone Rack, Hinged Style/Deck		\$ 676.00		
	A002-244	Cone Rack, between bogies, tandem		\$ 500.00		
	A002-245	Rear Mounted Tow Hooks		\$ 319.00	1	\$ 319.00
	A002-246	Auxiliary Engine Remote Oil Drain		\$ 250.00	1	\$ 250.00
	A002-247	Remote Boom Grease Zerk Assembly (Ground Level - includes water pump drive)		\$ 2,155.00	1	\$ 2,155.00
	A002-248	Remote Debris Tank Grease Assembly (Ground Level)	Does not include rollers or cams	\$ 2,324.00	1	\$ 2,324.00
	A002-249	Grease Assembly Articulating Hose Reel		\$ 995.00	1	\$ 995.00
	A002-250	Remote HI-Dump Grease Assembly (Single Axle)		\$ 1,704.00		
	A002-251	Remote HI-Dump Grease Assembly (Tandem Axle)		\$ 2,038.00		
	A002-252	Automatic Lube System - in addition to manual remote grease options (Vac-Con Module)		\$ 4,779.00		
	A002-253	Automatic Lube Kit for Centrifugal Compressor	Available on 2-Stage or 3-Stage Blower	\$ 2,497.00		
	A002-254	Hydraulic System Temperature Gauge		\$ 292.00		



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H-GAC 'FORM E' - OPTIONS PRICING		A002		
Offeror Name:		VAC-CON, INC.		
Invitation No.:		SC01-15 - Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous		
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)		
	A002-255	Vacuum gauge front bumper location behind reel	\$ 507.00	
	A002-256	Dual Roller Level Wind Guide, plastic (in lieu of single)	\$ 164.00	
	A002-257	Aluminum Single Roller Level Wind Guide, (in lieu of plastic)	\$ 407.00	
	A002-258	Aluminum Dual Roller Level Wind Guide, (in lieu of plastic)	\$ 612.00	1 \$ 612.00
	A002-259	Plastic engraved decals - adhesive type (ilo standard)	\$ 1,545.00	
	A002-260	Vaporooter Commander	\$ 46,971.00	
	A002-261	Chemical Tank (15) Gallons	\$ 2,843.00	
	A002-262	Digital Scale System	\$ 6,396.00	
	A002-263	Anti-Freeze System	\$ 911.00	
	A002-264	Centrifugal Compressor Quiet Silencer, Class 4, 304 Stainless Steel Construction, 14in x 40in with 8in discharge, available 8-1-12	\$ 4,393.00	1 \$ 4,393.00
	A002-265	Spanish Decals	\$ -	
	A002-266	French Decals	\$ -	
	A002-267	John Deere 4 Cylinder Diesel Option 140 HP @ 2400 RPM 275 CID Tier 3 Flex (if available)	\$ 2,678.00	
	A002-268	John Deere 6-Cylinder 185 HP @ 2400 rpm 415 CID Tier 3 Flex (if available)	\$ 14,396.00	1 \$ 14,396.00
	A002-269	Deutz 2012 6-Cylinder 188HP @ 2400 rpm 369 CID Tier 3 Flex (if available)	\$ 8,390.00	
	A002-270	Deutz 2012 138HP Tier 2 Aux Engine EXPORT ONLY	\$ -	
	A002-271	John Deere "Interim" Tier 4 Technology. Model: 4045HFC93 EPA Certified. 140HP @ 2400 RPM	\$ 22,658.00	
	A002-272	JCB "Interim" T4 Model: TCAE-108 145HP @ 2200RPM	\$ 18,025.00	
Misc. Machine Accessories		Additional Information		
	A002-273	Hose Guide, spare 665-0004	\$ 162.00	
	A002-274	Catch Basin Retriever 711-0371	\$ 512.00	
	A002-275	Manhole Cover Lifting Hook 681-0084	\$ 96.00	
	A002-276	Cover Shower 681-0143	\$ 587.00	
	A002-277	5# Fire Extinguisher 711-1326 (one is standard), spare	\$ 144.00	
	A002-278	First Aid Kit 690-0500	\$ 88.00	
	A002-279	Triangle Kit 690-0494 (one is standard), spare	\$ 88.00	
	A002-280	Grease Gun 690-0093	\$ 70.00	
	A002-281	Anti-Sail Mud Flaps (rear)	\$ 277.00	
Vacuum Tubing		Additional Information		
	A002-282	3' x 8" Aluminum Pipe Extension 800-0063	\$ 219.00	
	A002-283	4' x 8" Aluminum Pipe Extension 800-0347	\$ 240.00	
	A002-284	5' x 8" Aluminum Pipe Extension 800-0064	\$ 257.00	
	A002-285	6' x 8" Aluminum Pipe Extension 800-0089	\$ 289.00	
	A002-286	7' x 8" Aluminum Pipe Extension 800-0352	\$ 319.00	
	A002-287	8' x 8" Aluminum Pipe Extension 800-0261	\$ 319.00	
	A002-288	10' x 8" Aluminum Pipe Extension 800-0133	\$ 350.00	
	A002-289	6½' x 8" Catch Basin Nozzle with Serrated End 800-0065	\$ 332.00	
	A002-290	7½' x 8" Catch Basin Nozzle with Serrated End 800-0572	\$ 365.00	
	A002-291	Non-conducting Catch Basin Nozzle	\$ 954.00	
	A002-292	Leaf Nozzle, 25" x 8" No Holes 800-0088	\$ 236.00	
	A002-293	8" Adjustable Air Gap	\$ 375.00	
	A002-294	Snorkel Nozzle Kit (Includes 1- 3' pipe) 711-0031	\$ 446.00	
	A002-295	5' x 5" Snorkel Pipe Nozzle Extension 800-0127	\$ 144.00	
	A002-296	3' x 8" Clear Demo Tube 711-1255	\$ 520.00	
	A002-297	Circular Operator Handle 711-0172	\$ 240.00	
	A002-298	8" to Double 4" Y Adapter 800-0476	\$ 343.00	
	A002-299	8" Flange to 6" Sleeve Adapter 800-0351	\$ 171.00	
	A002-300	8" Quick Clamp, spare, 680-0015	\$ 36.00	
	A002-301	8" Gasket with Holes 690-0025	\$ 10.00	
	A002-302	8" Rubber Debris Hose / Per Foot 680-0001	\$ 74.00	
	A002-303	8" Hose End 800-0097	\$ 90.00	
	A002-304	8" Power Clamp 680-0016	\$ 102.00	
	A002-305	Rubber Kanaflex hose end for CB Tube/Hydroexcavation	\$ 106.00	



HGAC - Contract SC01-15  
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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:	VAC-CON, INC.				
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
A002-306	5' x 6" Aluminum Pipe	6" Intake System	\$ 257.00		
A002-307	3' x 6" Aluminum Pipe	6" Intake System	\$ 218.00		
A002-308	6' x 6" Aluminum Pipe	6" Intake System	\$ 289.00		
A002-309	6" Quick Clamp	6" Intake System	\$ 48.00		
A002-310	6" Adjustable Air Gap	6" Intake System	\$ 388.00		
		Pipe Storage Racks (4 standard per unit)			
		Description	Additional Information		
A002-311	Additional Pipe Rack(s), specify any requested locations in comments section, otherwise engineering will place in best available locations.	Specify any requested location in comments section	\$ 169.00	1	\$ 169.00
A002-312	Vertical Pipe Rack (Holds 3 Pipes)		\$ 505.00		
A002-313	Lazy Susan Pipe Rack (Holds 5 Pipes)		\$ 2,318.00		
A002-314	Folding Pipe Rack (3), Mtd Rear Door		\$ 2,623.00		
A002-315	Folding Pipe Rack (3), Tank Mtd, Driver Side		\$ 2,623.00	1	\$ 2,623.00
A002-316	Folding Pipe Rack (3), Tank Mtd, Curbside		\$ 2,623.00	1	\$ 2,623.00
A002-317	Additional Side Steps (4 are Standard)		\$ 96.00	2	\$ 192.00
		Tool/Storage Boxes			
		Description	Additional Information		
A002-318	Storage Box Behind Cab 16" x 42" x 96"	Std on units with 1000 & 1500 gallons of water and 5 yard units with 1000 gallons	\$ 2,154.00	1	\$ 2,154.00
A002-319	Aluminum Storage Box Behind Cab 16" x 42" x 96"		\$ 4,626.00		
A002-320	Aluminum Storage Box Behind Cab in lieu of Standard Steel		\$ 2,472.00		
A002-321	(2) Roll out shelves for storage box behind cab		\$ 1,441.00	1	\$ 1,441.00
A002-322	Side Mounted Tool Box 35" x 14" x 24"		\$ 715.00		
A002-323	35" x 14" x 24" Aluminum Side Mounted Tool Box, ea (llo steel)		\$ 450.00		
A002-324	16" x 13" x 72" Aluminum Side Mounted Tool Box, ea (llo steel)		\$ 1,409.00		
A002-325	2) 24" x 18" x 18" Steel Rear Tool Boxes, mtd each side of extended frame units, 1000 or 1300 gallons only		\$ 880.00		
A002-326	2) 24" x 18" x 18" Aluminum Rear Tool Boxes, mtd each side of extended frame units, 1000 or 1300 gallons only		\$ 1,494.00		
A002-327	12" x 18" x 96" Steel Tool Box, mounts under storage box behind cab		\$ 998.00		
A002-328	12" x 18" x 96" Aluminum Tool Box, mounts under storage box behind cab		\$ 1,016.00		
A002-329	Dry Decking - side tool boxes (6' & 35") - each		\$ 197.00		
A002-330	Dry Decking - behind cab storage box (96")		\$ 482.00	1	\$ 482.00
A002-331	16x42x48 Steel Storage Box (Drivers Side Behind Cab)	Consult factory for adaptability on tandem axle units	\$ 1,049.00		
A002-332	16x42x48 Aluminum Storage Box (Drivers Side Behind Cab)	consult factory for adaptability on tandem axle units	\$ 2,704.00		
A002-333	24x18x18 Steel Tool Box (Extended Frame Units w/o rear tanks)		\$ 829.00		
A002-334	(2) 24x18x18 Aluminum Tool Box (Extended Frame Units w/o Rear Tanks)		\$ 1,601.00		
		3/4" Spare Nozzles			
		Description	Additional Information		
A002-335	3/4" Nozzle rack		\$ 108.00		
A002-336	3/4" 30 gpm - Standard Nozzle, spare		\$ 349.00		
A002-337	3/4" 50 gpm - Standard Nozzle, spare		\$ 349.00		
A002-338	3/4" 30 gpm Penetrator Chisel - Standard, spare		\$ 399.00		
A002-339	3/4" 50 gpm Penetrator Chisel - Standard, spare		\$ 399.00		
A002-340	3/4" Nozzle Pipe Assembly (skid), spare		\$ 91.00		
A002-341	3/4" 30 gpm Grenade Nozzle		\$ 749.00		
A002-342	3/4" 50 gpm Grenade Nozzle		\$ 749.00		
A002-343	Aluminum Storm Nozzle 3/4" 30 gpm		\$ 415.00		
A002-344	Aluminum Storm Nozzle 3/4" 50 gpm		\$ 415.00		
A002-345	3/4" Storm Nozzle Pipe Assembly (skid)		\$ 91.00		
A002-346	3/4" 30 gpm Rotating Spinning Nozzle		\$ 883.00		
A002-347	3/4" 50 gpm Rotating Spinning Nozzle		\$ 883.00		
A002-348	3/4" 30 gpm Little Bruce 5" Culvert Nozzle		\$ 1,299.00		
A002-349	3/4" 50 gpm Little Bruce 5" Culvert Nozzle		\$ 1,299.00		
A002-350	3/4" Brass Flusher Nozzle		\$ 63.00		
		Spare Nozzles			
		Description	Additional Information		
A002-351	Standard nozzle		\$ 349.00		
A002-352	Rotating Spinning Nozzle		\$ 883.00		
A002-353	Big Otto culvert nozzle		\$ 1,898.00		
A002-354	3/4" x 10' Length Leader Hose		\$ 243.00		
		1" Spare Nozzles			
		Description	Additional Information		
A002-355	1" Nozzle rack		\$ 108.00	2	\$ 216.00
A002-356	Aluminum Storm Nozzle 1" 60 gpm		\$ 415.00		
A002-357	Aluminum Storm Nozzle 1" 70 gpm		\$ 415.00		
A002-358	Aluminum Storm Nozzle 1" 80 gpm		\$ 415.00		
A002-359	1" Storm Nozzle Pipe Assembly (skid)		\$ 91.00		
A002-360	1" 60 gpm Standard Nozzle, spare		\$ 349.00		



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January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002			
Offeror Name:	VAC-CON, INC.				
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous				
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)			
	A002-361	1" 70 gpm Standard Nozzle, spare	\$ 349.00		
	A002-362	1" 80 gpm Standard Nozzle, spare	\$ 349.00		
	A002-363	Standard nozzle	\$ 349.00		
	A002-364	1" 60 gpm Penetrator Chisel - Standard, spare	\$ 399.00		
	A002-365	1" 70 gpm Penetrator Chisel - Standard, spare	\$ 399.00		
	A002-366	1" 80 gpm Penetrator Chisel - Standard, spare	\$ 399.00		
	A002-367	Penetrator nozzle	\$ 399.00		
	A002-368	1" Nozzle Pipe Assembly (skid), spare	\$ 91.00		
	A002-369	1" 60 gpm Grenade Nozzle	\$ 749.00		
	A002-370	1" 70 gpm Grenade Nozzle	\$ 749.00		
	A002-371	1" 80 gpm Grenade Nozzle	\$ 749.00		
	A002-372	Grenade nozzle	\$ 749.00		
	A002-373	1" 60 gpm Rotating Spinning Style	\$ 883.00		
	A002-374	1" 70 gpm Rotating Spinning Style	\$ 883.00		
	A002-375	1" 80 gpm Rotating Spinning Style	\$ 883.00		
	A002-376	Little Bruce culvert nozzle	\$ 1,898.00		
	A002-377	1" 60 gpm Big Otto 8" Culvert Nozzle	\$ 1,898.00		
	A002-378	1" 70 gpm Big Otto 8" Culvert Nozzle	\$ 1,898.00		
	A002-379	1" 80 gpm Big Otto 8" Culvert Nozzle	\$ 1,898.00		
	A002-380	1" Brass Flusher Nozzle	\$ 75.00		
		Leader Hose			
		Description	Additional Information		
	A002-381	1" x 10' Length Leader Hose	\$ 243.00		
	A002-382	1-1/4" x 10' Length Leader Hose	\$ 243.00		
	A002-383	3/4" x 15' Length Leader Hose	\$ 365.00		
	A002-384	1" x 15' Length Leader Hose	\$ 365.00		
	A002-385	1-1/4" x 15' Length Leader Hose	\$ 365.00		
	A002-386	3/4" x 20' Length Leader Hose	\$ 389.00		
	A002-387	1" x 20' Length Leader Hose	\$ 389.00		
	A002-388	1-1/4" x 20' Length Leader Hose	\$ 389.00		
	A002-389	3/4" x 25' Length Leader Hose	\$ 466.00		
	A002-390	1" x 25' Length Leader Hose	\$ 466.00	1	\$ 466.00
	A002-391	1-1/4" x 25' Length Leader Hose	\$ 466.00		
	A002-392	3/4" x 30" Length Leader Hose, Spare	\$ 115.00		
	A002-393	1" x 30" Length Leader Hose, Spare	\$ 115.00		
	A002-394	1-1/4" x 30" Length Leader Hose, Spare	\$ 115.00		
		Swedge Tools			
		Description	Additional Information		
	A002-395	Hydraulic Swage Kit	\$ 2,631.00		
	A002-396	Manual Swage Kit	\$ 1,725.00		
	A002-397	1" Swage End	\$ 70.00		
	A002-398	3/4" Swage End	\$ 65.00		
		Root Cutters			
		Description	Additional Information		
	A002-399	Rotating Turbine Chain Scraper 5"-10" with skids & chain 10.125TR6-10	\$ 3,786.00		
	A002-400	Rotating Turbine Chain Scraper with skids and Chain 10.125TR8-12 set	\$ 3,966.00		
	A002-401	1" to 3/4" Bushing for Chain Scraper	\$ 16.00		
	A002-402	1" Bulldog with skid 400.600B5	\$ 3,137.00		
	A002-403	3/4" Bulldog 400.060A	\$ 2,859.00		
		Manuals			
		Description	Additional Information		
	A002-404	Electronic Vac-Con Manual (Thumb Drive), spare	\$ 178.00	1	\$ 178.00
	A002-405	Paper Vac-Con Manual - No longer standard	\$ 178.00	1	\$ 178.00
		Paint Options (Module)			
		Description	Additional Information		
	A002-406	Paint Module: DuPont Elite White N0006EX (white is standard unless otherwise specified)	\$ -	1	\$ -
	A002-407	Paint Module: DuPont Elite School Bus Yellow N0662EX	\$ -		
	A002-408	Paint Module: DuPont Elite Safety Yellow N1155EX	\$ -		
	A002-409	Paint Module: DuPont Elite Coca Cola Red N0252EX	\$ -		
	A002-410	Paint Module: DuPont Elite Candy Apple Red 748727	\$ -		
	A002-411	Paint Module: DuPont Elite Medium Blue 748701	\$ -		
	A002-412	Paint Module: DuPont Elite Deep Blue 748718	\$ -		
	A002-413	Paint Module: DuPont Elite Pepsi Blue N4147-HN	\$ -		
	A002-414	Paint Module: DuPont Elite Omaha Orange 748739	\$ -		
	A002-415	Paint Module: DuPont Elite Cat Yellow 771861EX	\$ -		
	A002-416	Paint Module: DuPont Elite Lime Green 748724	\$ -		
	A002-417	Paint Module: DuPont Elite Green 748713	\$ -		
	A002-418	Paint Module: DuPont Elite Woodland Green 748708	\$ -		
	A002-419	Undercoat - Vac-Con Module & Chassis	\$ 1,885.00		
	A002-420	Paint Tool Box/Storage Boxes to match Unit	\$ 694.00		
	A002-421	Metallic paint Option	\$ 2,840.00		
		Paint Options (Module Stripe)			



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January 1, 2015

969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002	
Offeror Name:		VAC-CON, INC.	
Invitation No.:		SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous	
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)	
		Description	Additional Information
	A002-422	Reflective Striping, Other than standard colors	Avail colors: Black, Red, Orange, Yellow, Green, Pink \$ 622.00
	A002-423	Standard Striping Package - White 692-5204-01	\$ -
	A002-424	Standard Striping Package - Blue 692-5204-02	\$ - 1 \$ -
		Paint Options (Chassis)	
		Description	Additional Information
	A002-425	Vac-Con to Paint Cab - Specify Color	\$ 2,928.00
	A002-426	Paint Chassis Hood Flat Black	\$ 694.00
		Paint Options (Chassis Stripe)	
		Description	Additional Information
	A002-427	Cab "Z" Striping Package, specify Color	Avail colors: White, Blue, Black, Red, Orange, Yellow, Green \$ 1,125.00
	A002-428	Cab "Small Stripes" Striping Package, Specify Color	Striping on Cab to Match striping on body \$ 1,125.00 1 \$ 1,125.00
	A002-429	Cab Painted with Flames	\$ 2,811.00
		Delivery	
		Description	Additional Information
	A002-430	Delivery charges to be determined by final delivery destination	\$ -
	A002-431		
		Chassis Modifications	
		Description	Additional Information
	A002-432	Roll Bogies, Single Axle	\$ 2,445.00
	A002-433	Roll Bogies, Tandem Axle	\$ 3,191.00
	A002-434	Air dryer - Bendix AD-9	\$ 1,394.00
	A002-435	Air dryer - Bendix AD-IP	(Standard on Vac-Con 114SD Pool Trucks) \$ 1,990.00
	A002-436	Air horn - single base	(Standard on Vac-Con 114SD Pool Trucks) \$ 968.00
	A002-437	Air restriction gauge, dash mounted	\$ 627.00
	A002-438	Air seat, passenger	\$ 1,179.00 1 \$ 1,179.00
	A002-439	2-man passenger seat	\$ 1,189.00
	A002-440	Block Heater	\$ 769.00
	A002-441	Metric speedometer	\$ 939.00
	A002-442	Heated motorized mirrors	\$ 2,672.00
	A002-443	Silicone hoses	\$ 644.00
	A002-444	Front Mud Flaps	\$ 122.00
	A002-445	Transmission temperature gauge	\$ 1,251.00
	A002-446	Spare tire & rim 385/65R22.5	\$ 1,451.00
	A002-447	Spare tire & rim 425/65R22.5	\$ 1,808.00
	A002-448	Spare tire & rim 11R22.5	\$ 905.00
	A002-449	Spare front wheel (22.5x12.25)	\$ 513.00
	A002-450	Spare rear wheel (8.25x12.25)	\$ 228.00
	A002-451	12 ton jack & lug wrench	\$ 341.00
	A002-452	Chassis Parts Catalog	\$ 456.00
	A002-453	Chassis Operators Manual	\$ 58.00
	A002-454	Parts Manual on CD-Rom	\$ 456.00 1 \$ 456.00
	A002-455	Service Manual on CD-Rom	\$ 456.00 1 \$ 456.00
	A002-456	Wheel Simulators	\$ 2,275.00
	A002-457	Daytime Running Lights	(Standard on Vac-Con 114SD & IH Pool Trucks) \$ 456.00
	A002-458	Remote Chassis Engine Start Switch	\$ 2,842.00 1 \$ 2,842.00
		Extended Warranties	
		Description	Additional Information
	A002-459	Allison Series 3000 5-year/unlimited mileage	Requires TrandSynd Synthetic Transmission Fluid or TES-295 \$ 1,666.50
	A002-460	Allison Series 4500 5-year/unlimited mileage	Requires TrandSynd Synthetic Transmission Fluid or TES-295 \$ 2,066.46
	A002-461	John Deere auxiliary engine 3 Years/4000 hours (subject to \$250 deductible) extended warranty	\$ 2,206.45
	A002-462	John Deere auxiliary engine 4 Years/5000 hours (subject to \$250 deductible) extended warranty	\$ 2,806.39
	A002-463	John Deere auxiliary engine 5 Years/5000 hours (subject to \$250 deductible) extended warranty	\$ 3,712.96
	A002-464	FR 114SD: 3yrs./200,000 mi. extended warranty, includes towing	Cummins-ISL370 engine 3yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment \$ 8,160.00
			Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295
	A002-465	FR 114SD: 4yrs./200,000 mi. extended warranty, includes 4yrs. towing	Cummins-ISL370 engine 4yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment \$ 10,221.00
			Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295



HGAC - Contract SC01-15  
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969 Hall Park Road, Green Cove Springs, FL 32043

H-GAC 'FORM E' - OPTIONS PRICING		A002				
Offeror Name:	VAC-CON, INC.					
Invitation No.:	SC01-15 – Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous					
H-GAC Product Code	Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in Specification)				
	A002-466	FR 114SD: 5yrs./200,000 mi. extended warranty, includes 5yrs. Towing	Cummins-ISL370 engine 5yrs/150,000 mi., PP1 W/Aftertreatment, extended warranty PP1 W/Aftertreatment	\$ 12,908.12		
			Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295			
	A002-467	IH 7300 & 7400 ESC: 3yrs./150,000 mi. base vehicle extended warranty, includes 3 yrs./UNL towing	Navistar DT engine 3 yrs./150,000 mi. extended warranty with Aftertreatment	\$ 7,999.00		
			Allison Series 3000 3 yrs. standard - Is Requires TrandSynd Synthetic Transmission Fluid or TES-295			
	A002-468	IH 7300 & 7400 ESC: 4yrs./150,000 mi. base vehicle extended warranty, includes 4yrs./UNL towing	Navistar DT engine 4 yrs./150,000 mi. extended warranty - Aftertreatment included for 3 yrs.	\$ 12,118.00		
			Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295			
	A002-469	IH 7300 & 7400 ESC: 5yrs./150,000 mi. base vehicle extended warranty, includes 5 yrs./UNL towing	Navistar DT engine 5 yrs./150,000 mi. extended warranty - Aftertreatment included for 3 yrs.	\$ 14,225.00		
			Allison Series 3000 5-yr./unlimited mileage. Requires TrandSynd Synthetic Transmission Fluid or TES-295			
				<b>Subtotal:</b>	<b>B1</b>	<b>\$ 167,109.00</b>

Pool Trucks - Cannot be purchased by entities in the state of Texas						
	Description	Additional Information				
A002-474	Freightliner 108SD 4x2 37000GVWR ISL270 3000RDS		\$ 80,134.00			
A002-475	Freightliner 114SD 4x2 43000GVWR ISL370 3000RDS		\$ 87,962.00			
A002-476	Freightliner 114SD 6x4 60000GVWR ISL370 3000RDS		\$ 95,584.00	-1	\$ 95,584.00	
A002-477	Freightliner 114SD 6x4 66000GVWR ISL370 3000RDS		\$ 98,159.00			
A002-478	Freightliner 114SD 6x4 66000GVWR 10 SPD 450HP DD13		\$ 104,236.00			
A002-479	Freightliner 114SD 6x4 66000GVWR DD13 450HP 4500RDS		\$ 116,596.00			
A002-480	Freightliner 75DGE 114SD 4x2 43000GVWR ISL320 3000RDS		\$ 144,200.00			
A002-481	Freightliner 115DGE 114SD 4x2 43000GVWR ISL320 3000RDS		\$ 163,770.00			
A002-482	Freightliner 75DGE 114SD 6x4 60000GVWR ISL320 3000RDS		\$ 151,925.00			
A002-483	Freightliner 115DGE 114SD 6x4 60000GVWR ISL320 3000RDS		\$ 174,791.00			
A002-484	Peterbilt 348 4x2 43000GVWR PX-9 345HP 3000RDS		\$ 93,730.00			
A002-485	Peterbilt 348 6x4 66000GVWR PX-9 345HP 3000RDS		\$ 103,515.00			
				<b>Subtotal:</b>	<b>B2</b>	<b>\$ 95,584.00</b>



2360 Harvard Street • Sacramento, CA 95815 • (916) 922-1101 • Fax: (916) 922-1034  
 1913 Nancita Circle • Placentia, CA 92870 • (714) 528-8770 • Fax: (714) 528-8744  
 4750 Caterpillar Rd., Unit D • Redding, CA 96003 • (530) 243-4856 • Fax: (530) 243-1447  
 1930 W. Winton Ave., Suite 8 • Hayward, CA 94545 • (510) 670-0230 • Fax: (510) 670-9003  
 www.source-mme.com • California State Contractor's License #980409

March 26, 2015

City of Sacramento  
 5730 24th Street, Bldg. 20  
 Sacramento, CA 95822

Tel: 916-808-1163  
 Fax: 916-399-9263  
 lygarcia@cityofsacramento.org

Attention: Isena Y. Garcia, CAFM Program Specialist

We are pleased to provide the enclosed contract pricing sheets off the H-GAC, Houston-Galveston Area Council Contract No. SC01-15 (www.hgacbuy.com), for the Vac-Con Model V312LXHAE-O/1300 Combination Sewer and Storm Drain Cleaner mounted on a new Freightliner 6x4 truck chassis for your review.

Summary:	Price F.O.B. Sacramento, CA	\$449,558.96
	8.5% Sales Tax	38,212.51
	Delivery	6,350.00
	Factory Inspection (1 person per truck)	1,448.00
	PERP Permit for Aux. Engine to be processed by MME.	620.00
	<b>Total</b>	<b>\$496,189.47</b>

- **City's Purchase Order to be prepared and sent directly to Vac-Con, Inc.**
- Municipal Maintenance Equipment, Inc. is the contracted dealer on HGAC purchases and will provide on-site training, warranty support, and future service for the Vac-Con products.
- After unit completion Vac-Con to supply unladen weight and weight distribution on the chassis' front axle, rear axle and total.
- MME to assist with DMV registration.
- HGAC quotation includes applicable sales tax.
- Delivery 120-150 Days A.R.O
- Terms: per HGAC Program.

Thank you for your interest in this fine product. Should you have any questions or need additional information, please let us know. We look forward to being of service.

Sincerely,  
 Municipal Maintenance Equipment, Inc.

*Frank Wheeler III*

Frank Wheeler III,  
 Vice President

Enclosures: HGAC Contract & List of Inventory

## LIST OF INVENTORY

One (1) Each Vac-Con Model V312LXHAE-O/1300 complete with the following standard equipment:

- 3-Stage Vacuum System
- 3/16" Corten Steel 12 Yard Debris Tank
- Full Opening Rear Door
- Hydraulic Rear Door Locks, with Door Grabber with Safety Latch
- 10' Layflat Hose
- Debris Tank Dumping: 50 Degree, Hydraulic Scissors Lift – Power Up/Power Down
- Cross-Linked Polyethylene Water Tanks - 1300 Gallons
- Automatic Vacuum Breaker and Overfill Protection
- 8" Vacuum Intake Hose
- Boom Travel Tie Down
- 4 Way Hydraulic Boom with 270 Degree Rotation and Joystick Controls
- Front Mounted 600' Capacity (1" Hose)/Hydraulic Hose Reel
- Manual Hose Rewind Guide
- Hose Guide (Tiger Tail)
- 30" Leader Hose
- 20 gpm at 600 psi Wash Down Hand Gun with 25' of Hose and Nozzle
- Sealed and Locking Tool Boxes
- 1) Each Sanitary and Penetrator Nozzles
- 20.5' Aluminum Intake Pipe (1-3', 1-5', 1-6', and 1-6.5' Nozzle)
- ICC Lighting
- 5# Fire Extinguisher
- Set of Triangles
- DuPont Elite Polyurethane Paint White with Blue Striping Package
- Cab "Small Stripes" Striping Package (To Match Body Striping)
- 12 Month Standard Warranty

Complete with the following optional features:

- Blower: Hydrostatic Drive
- Boom: 10 ft. Aluminum Telescoping Boom with 10" Inlet and Pendant Control Station
- Hose Reel: Front Mounted, Articulating to Driver Side, Standard Pivot, 800' (1") Capacity
- Jet Rodder Hose: 800' x 1" 3000 psi/7500 psi Continuous Piranha Hose – 400' Standard
- Water System: 80 gpm/3000 psi
- Water Pump: Giant
- Auxiliary Engine: John Deere 6 Cylinder Diesel Tier 4 Technology
- (1) Standard Analog Pressure Gauge at Front Reel Location
- Rear Arrow Stick Whelen Part #TA125NF2
- Installation of Customer Supplied Zonar on Dash & City Logo & Numbers on Doors
- Partner Desk
- Debris Body Up Warning Light/Alarm Dash Mounted

- 4 Camera System (Back-Up, 2 Side Mounts, Front Hose Reel Location Model Zone Defense Part #cam.313c,cam.313ms
- Grote Brand Safety Triangles
- Level Wind Light to be Whelen Pioneer Nano Part #NP6BB
- Forward Facing LED Arrow Stick Whelen Part #TANF85
- 6 Grommet Mounted LED Strobes to be Mounted 4 Corners and Midship both Side Whelen Part #5VA02ZAR
- LED Rope Lighting with Separate Switch in Tool Box
- Rear Debris Body Mounted Strobe with Limb Guard Whelen L31HAF
- Trash Pump Flushout Mounted on Bun Between Debris Body and Pump
- Cobra Model CPI 880 Inverter, Hard Wired Inside Cab
- ENZ 50.075G Nozzle
- ENZ 400.080 BS (Jetted 80 GPM) Nozzle
- Mail Slot 14" x 20" 5" Deep Mounted on Rear Bulkhead Behind Partner Desk
- ENZ 400.060 BS with Bushing (Jetted 80 GPM) Nozzle
- ENZ 40.075 (Jetted 80 GPM) Nozzle
- Large Round in Cab Dome Light Whelen Part #60U0EJCS
- 6" Tall Expanded Metal Tray Mounted Full Length and Width on Top of Rear Toolboxes and Behind Cab Tool Box
- Rack Mounted on Front of Behind Cab Tool Box Able to Carry 6 Sign Standards City to Approve Size and Location
- Largest Possible Expanded Metal Tool Tray Mounted Below Passenger Side Cab Door
- Expanded Metal Tray Mounted Driver's Side Between Fuel Tank and Water Tank Capable of Holding 12" Baskets
- Cone-Rack Mounted on Top of Driver's Side By Fuel Tank Expanded Metal Tray
- All Floodlights to be Whelen Micro Pioneer Model MPPBBS
- All Tool Boxes to Include Condensation and Drain Vents
- (2) Boom Mounted Strobes Whelen Part #L31HAF
- (2) Rear Cone Racks Mounted Below Deck
- (3) 25' Sections Lay Flat Hose w/Male Female Cam Locks
- (3) 3" PVC Tool Racks 16' Long Mounted Below Sub Frame
- (2) 3" PVC Toll Racks 6' Long Mounted Where Space Allows
- (4) Set of Keys
- Debris Body "Power Flush" System, 8 Jets
- Flush Out Connection for Rear Door Valve
- 6" Knife Valve with Center Post and Handle, in Lieu of 5" Butterfly Valve
- Rear, Hydraulic Pump Off System, 350 GPM w/20' Lay Flat Hose
- Gravity Drain System, Plumbing to Mid-Passenger Side of Unit, Allowing Return of Liquids to the Manhole
- Front Gate Valve, For Use with Gravity Drain Option

- Heavy Reinforced Elbow "Wear Back"
- Air Purge System
- 2 ½" Water Drain Gate Valve Assembly
- Variable Flow Valve
- Additional Pipe Rack Located Behind Front Hose Reel
- Folding Pipe Racks (Holds 3 Pipes) on Driver & Passenger's Side
- (2) Additional Side Steps (4 Are Standard)
- Storage Box Behind Cab 16" x 42" x 96"
- (2) Roll Out Shelves for Storage Box Behind Cab
- Dry Decking – Behind Cab Storage Box (96")
- Long Handle Storage / PVC (2) Mounted in Storage Box Under Shelf
- Flood Light – Auxiliary Engine Work Area
- All Flood Lights to Include Limb Guards (Total of 6)
- ICC – LED Lighting Package
- Low Water Alarm with Light
- Rear Axle Load Limit Alarm
- 50' Capacity Retractable Hand Gun Hose Reel
- Hydroexcavation Package Includes: 50' Retractable Handgun Hose Reel with 50' of ½" High Pressure Hose, HP/Quick Disconnect, Heavy Duty HP Unloader Valve, Main Control Ball Valve, 72" x ½" Schedule 80 Lance with Quick Disconnect, Single Forward Spray Nozzle and Horizontal Handle
- Hose Footage Counter (Driver's Side)
- Rear Mounted Tow Hooks
- Auxiliary Engine Remote Oil Drain
- Remote Boom Grease Zerk Assembly (Ground Level – Includes Water Pump Drive)
- Remote Debris Tank Grease Assembly (Ground Level)
- Grease Assembly Articulating Hose Reel
- Aluminum Dual Roller Level Wind Guide
- (2) 1" Nozzle Racks
- 1" x 25' Length Leader Hose
- (1) Electronic Vac-Con Manuals (Thumb Drive), Additional
- (1) Paper Vac-Con Manual
- Omnibus-2 Electronic Controller System, Color Monitor
- Omnibus Footage Counter
- Auxiliary Engine Driven Hydraulics
- Water Pump Remote Oil Drain
- Water Cooler Rack
- Cam-Locks for Rear Drain Hose
- Centrifugal Compressor Quiet Silencer, Class 4, 304 Stainless Steel Construction, 14 in. x 40 in. with 8in. Discharge

March 26, 2015  
City of Sacramento  
Vac-Con Model V312LXHAE-O/1300 List of Inventory  
Page 4

- LED Boom Mounted Flood Lights
- LED Rear Mounted Flood Lights
- LED Flood Light – Water Pump Work Area

Mounted on a new Freightliner 114 SD 6x4 truck chassis complete with the following features:

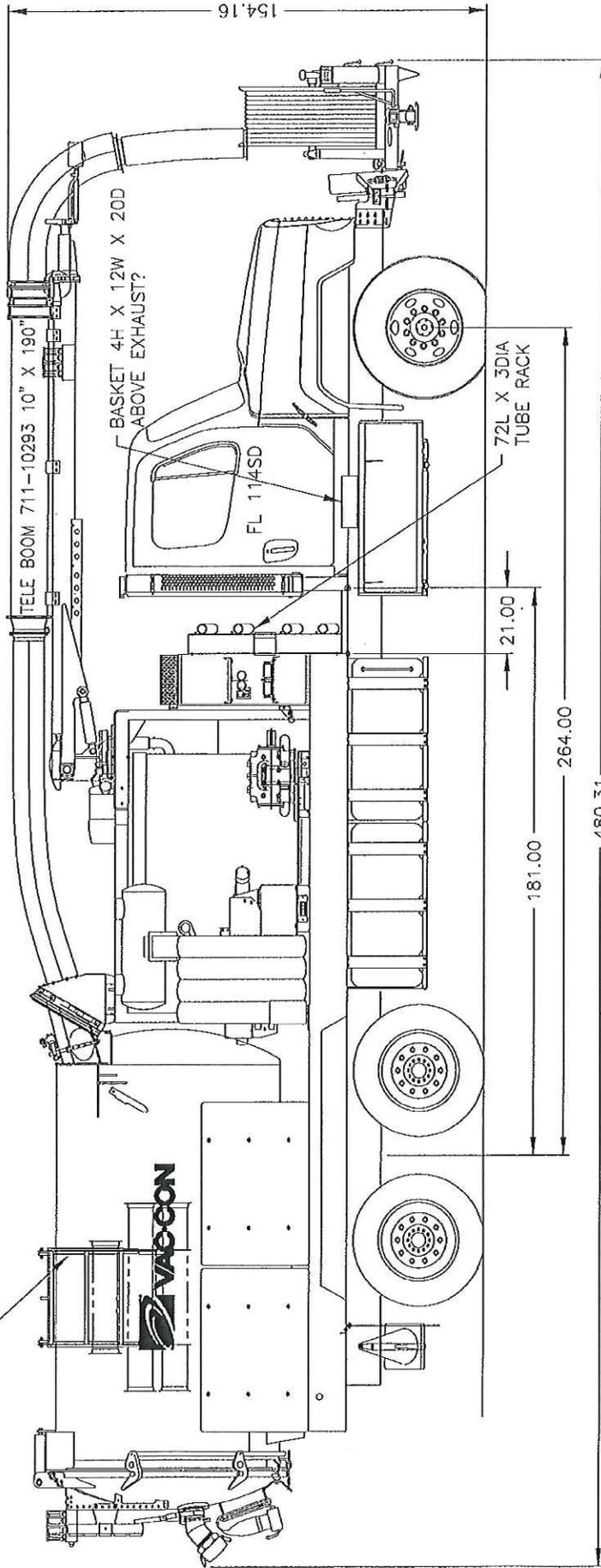
- ISL 370 Engine
- 60,000 GVWR
- Allison 3000 RDS Automatic Transmission
- Driver and Passenger Side Air Seat
- (1) Parts Manual on CD-ROM
- (1) Service Manual on CD-ROM
- Remote Chassis Engine Start Switch
- Air Conditioning
- Blue Tooth / MP3 Capable Radio
- Governed Speed Set at 65 MPH
- Painted White

LET BY:	REVISION	DATE
-	INITIAL RELEASE	01/01/2013

# PRELIMINARY

VERIFY ALL DIMENSIONS, TRUCK TYPE, HOSE REEL CENTER LINE AND BOOM LENGTH. THIS DRAWING IS CREATED AS A REPRESENTATION OF WHAT WE WILL BUILD BASED ON INFORMATION SUPPLIED WITH THE SALES ORDER.

4 PIPE FOLDING HANGER. NO ROOM FOR LAZY SUSAN



<b>VAC-CON</b> GREEN COVE SPRINGS, FLORIDA USA	DRAWN: CAG	DATE: 02/09/2015
PROD CODE: COMM CODE: MANUAL CODE:	CHECKED: -	DATE: -
	SCALE: NTS	WEIGHT: - LB

CITY OF SACRAMENTO, CA  
CAG-SAC

TRUCK SPECIFICATIONS	TRUCK SPECIFICATIONS
CHASSIS: FL 114SD 6 X 4	FRAME
MODEL: V372LWAE-01300	WEIGHTS (Yes/No):
CACT: 181.00	STANDARD (Yes/No):
SETBACK: 21.00	

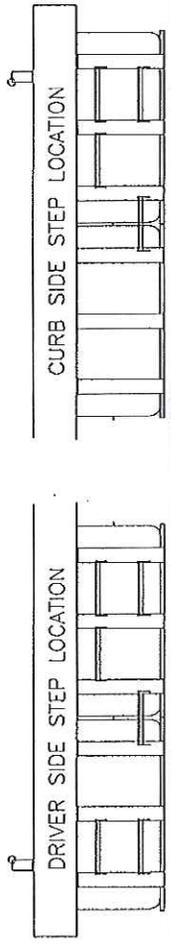
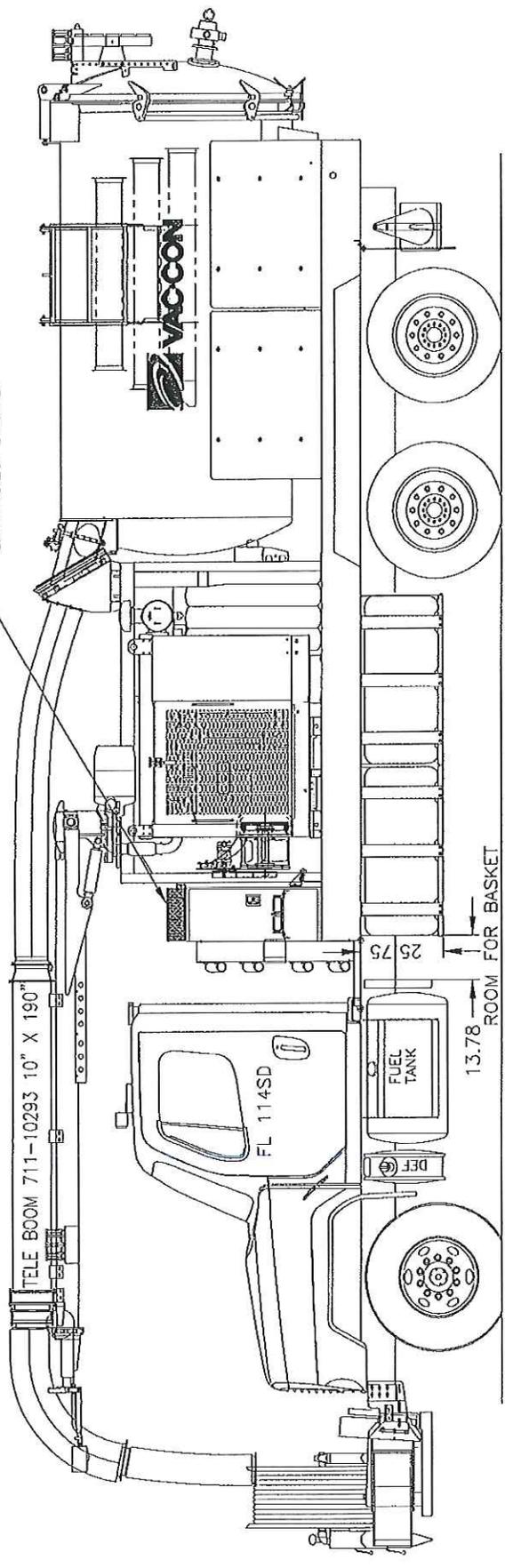
CAG-SAC-12	
SHEET	REV
1 OF 1	-

LET BY	REVISION	DATE
-	INITIAL RELEASE	01/01/2013

# PRELIMINARY

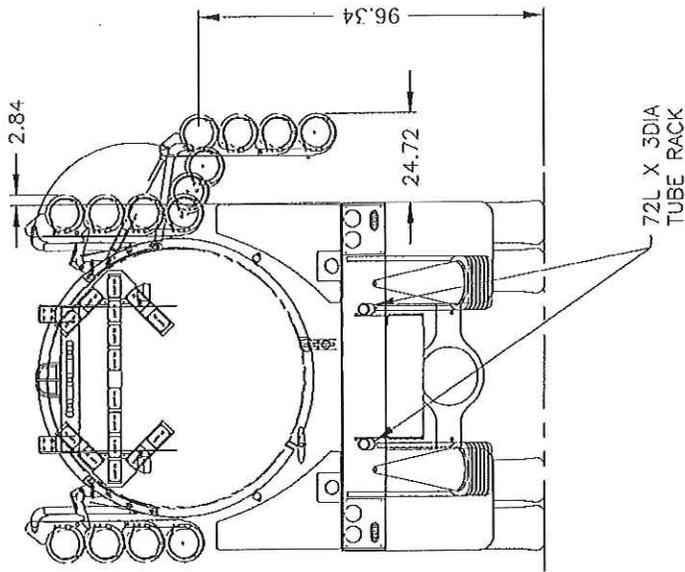
VERIFY ALL DIMENSIONS, TRUCK TYPE, HOSE REEL CENTER LINE AND BOOM LENGTH. THIS DRAWING IS CREATED AS A REPRESENTATION OF WHAT WE WILL BUILD BASED ON INFORMATION SUPPLIED WITH THE SALES ORDER.

96L X 6H X 16W EXPANDED BASKET



 <b>VACCON</b> GREEN COVE SPRINGS, FLORIDA USA PROD CODE: - CONM CODE: - MANUAL CODE: -	DRAWN: CAG CHECKED: - SCALE: NTS	DATE: 02/09/2015 DATE: - WEIGHT: -LB	CITY OF SACRAMENTO, CA CAG-SAC	TRUCK SPECIFICATIONS CHASSIS: FL 114SD 6 X 4 MODEL: V312LXHA-E-01300 CA/CT: 181.00 SETBACK: 21.00	TRUCK SPECIFICATIONS FRAME: WEIGHTS (Yes/No): STANDARD (Yes/No):	REFERENCE: CAG-SAC-12 SHEET 1 OF 1 REV -
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LET BY	REVISION	DATE
-	INITIAL RELEASE	01/01/2013



 <b>VAC-CON</b> GREEN COVE SPRINGS, FLORIDA USA	DRAWN: CAG	DATE: 02/09/2015	CITY OF SACRAMENTO, CA CAG-SAC	TRUCK SPECIFICATIONS CHASSIS: FL 114SD4 X2 MODEL: V250LX1A-Q1850 CA/CT: 156.00 SETBACK: 19.00	TRUCK SPECIFICATIONS FRAME: WEIGHTS (Yes/No): STANDARD (Yes/No):	REFERENCE	<b>CAG-SAC-12</b>
	CHECKED: -	DATE: -	WEIGHT: - LB	SCALE: NTS	SHEET 1 OF 1	REV -	



## W a r r a n t y - Dual Engine Fan

VAC-CON, as seller, warrants all equipment manufactured by it and bearing its name shall be free from defects in material and workmanship, under normal use and service as determined by us, for a period of (12) twelve months from the date of delivery to the first retail purchaser.

Should any equipment or part of such equipment sold hereunder prove to be defective in material or workmanship within said period, and be returned to Seller's factory no later than 15 days after the expiration date of the warranty, transportation charges prepaid by the Buyer, and upon examination be found to be defective, such part will be replaced at the factory by the Seller free of charge, but the Seller shall be under no further liability in respect to such warranty. It is expressly understood that the Seller's liability is limited to furnishing of such replacement parts within a reasonable length of time and that the Seller will not be liable for any damages, losses or expenses arising in connection with the use of or inability to use the unit(s), including but not limited to, injuries to persons or damage to property, loss of profits or anticipated profits, or loss of vehicle use. Buyer shall be responsible for the payment of duties or taxes on warranty parts, if applicable. The Seller shall be under no liability because of normal wear and tear of operation or maintenance contrary to the manufacturer's official Operator's Manual. The Buyer accepts any liability for damage or injury resulting from the removal or alteration of safety guards and safety precautions provided on the unit at the time of delivery. This warranty shall not apply and VAC-CON shall have no liability under it or otherwise if the unit shall have been injured by accident, careless handling or improper applications or if any repairs have been made to the unit by other than VAC-CON, its agents or employees.

Warranties covering major components not of VAC-CON manufacture (power plants, hydraulics, trucks, vacuum compressors, transmissions, electrical components, batteries, tires, etc.) are warranted by their respective manufacturers.

We give no warranty express or implied, as to description, quality, productiveness or any other matter and the Buyer hereby waives the right of refusal and return of the goods which is usually connected with non-warranty.

It is the sole responsibility of the purchaser to use this equipment in an appropriate application and a safe manner. VAC-CON assumes no responsibility or liability for its misuse.

### FIVE (5) YEAR WARRANTY:

VAC-CON warrants that the fans, auxiliary engine water pump drive components (excluding engine and pump) and debris tank shall be free from defects in material and workmanship, under normal use and service as determined by the manufacturer, for a period of sixty (60) months (not pro-rated) from the date the unit is first placed into service.

### TEN (10) YEAR WARRANTY:

VAC-CON warrants that the fresh water tanks shall be free from defects in material and workmanship, under normal use and service as determined by the manufacturer, for a period of one hundred twenty (120) months (not pro-rated) from the date the unit is first placed into service.

This warranty is not transferable.

Prepared for:  
 TOM JODY  
 VAC CON INC  
 969 HALL PARK DRIVE  
 GREEN COVE SPRINGS, FL  
 32043  
 Phone: 904-284-4200



## 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
<b>Price Level</b>			
PRL-06D	SD PRL-06D (EFF:08/08/13)		
<b>Data Version</b>			
DRL-007	SPECPRO21 DATA RELEASE VER 007		
<b>Vehicle Configuration</b>			
001-177	114SD CONVENTIONAL CHASSIS	8,015	6,640
004-215	2015 MODEL YEAR SPECIFIED		
002-003	SET FORWARD AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1UT	UTILITY BUSINESS SEGMENT		
AA4-002	LIQUID BULK 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		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		

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Data Code	Description	Weight Front	Weight Rear
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs		

**Truck Service**

AA3-034	SEWER/INDUSTRIAL VACUUM BODY		
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**Engine**

101-2XN	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-780	-70
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**Electronic Parameters**

79A-072	72 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-009	PTO MODE ENGINE RPM LIMIT - 1200 RPM		
79L-011	PTO MODE THROTTLE OVERRIDE - LIMIT TO 1400 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE ONLY ENABLED		
79P-009	PTO RPM WITH CRUISE SET SWITCH - 1200 RPM		
79Q-009	PTO RPM WITH CRUISE RESUME SWITCH - 1200 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-006	PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		

**Engine Equipment**

99C-013	2013 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
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		

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Data Code	Description	Weight Front	Weight Rear
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES	-50	-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		
293-060	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTBOARD DRIVER SEAT	8	
* 295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
* 239-200	INTEGRATED STACK AND B-PILLAR PIPE WITH MINIMUM STACK PROTRUSION ABOVE CAB		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
N 23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-40	-20
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		

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Data Code	Description	Weight Front	Weight Rear
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)		
273-048	HORTON 2-SPEED DRIVEMASTER POLAR EXTREME FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20	
103-004	ANTIFREEZE TO -34F, NOAT EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	25	
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

#### Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-80	-20
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#### Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
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		
353-022	VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BACK OF CAB		
* 34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		

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Data Code	Description	Weight Front	Weight Rear
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-002	PTO MOUNTING, RH SIDE 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 Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
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	SKF SCOTSEAL PLUS XL 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		
406-001	STANDARD KING PIN BUSHINGS		
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	
533-004	OIL/AIR POWER STEERING COOLER MOUNTED ABOVE FRONT CLOSING CROSSMEMBER	5	
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		

#### Front Suspension

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Data Code	Description	Weight Front	Weight Rear
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		-40
421-586	5.86 REAR AXLE RATIO		
424-003	IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY DUTY AXLE HOUSING		30
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	25	25
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
878-019	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES		
87A-001	BLINKING LAMP WITH EACH MODE SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS		
426-075	HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
<b>Rear Suspension</b>			
622-1CH	HENDRICKSON RT403 REAR SUSPENSION @ 40,000#		710
621-016	HENDRICKSON RT/RTE - 7.19" SADDLE		
431-001	STANDARD U-BOLT PAD		
624-011	52 INCH AXLE SPACING		
628-004	STEEL BEAMS AND RUBBER CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS		

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 2015MY 114SD 6X4 60000 ISL370  
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Data Code	Description	Weight Front	Weight Rear
623-005	FORE/AFT CONTROL RODS		
<b>Brake System</b>			
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
* 871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES PROVIDE EXTRA 6 FT OF LINE TO SPLIT TANK		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-1AA	STANDARD U.S. FRONT BRAKE VALVE WITH ABS VALVES IN RAILS WITH RH HEAT SHIELDING		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-034	BW AD-IP BRAKE LINE AIR DRYER WITH HEATER	15	
* 479-024	AIR DRYER MOUNTED OUTBOARD ON RH RAIL BACK OF CAB, MAXIMUM 20 INCHES BACK OF CAB PROTRUSION		
460-097	STEEL AIR BRAKE RESERVOIRS MOUNTED PERPENDICULAR RH UNDER CAB AND AFT AS POSSIBLE FOR REMAINING TANKS	15	5
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
485-045	METALLIC AIR MANIFOLD MOUNTED TO BACK OF CAB CROSSMEMBER WITH SIX 1/4 INCH FITTINGS AND 70 PSI PROTECTION VALVE	5	
<b>Trailer Connections</b>			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
<b>Wheelbase &amp; Frame</b>			
545-670	6700MM (264 INCH) WHEELBASE		
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	360	120
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	220	435
552-014	1900MM (75 INCH) REAR FRAME OVERHANG		
55W-007	FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-30	140

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Data Code	Description	Weight Front	Weight Rear
549-036	12 INCH INTEGRAL FRONT FRAME EXTENSION	60	-10
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 180.54 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 177.54 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 378.68		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 180.54 in		
FSS-0LH	FRAME SPACE LH SIDE : 84.84 in		
FSS-0RH	FRAME SPACE RH SIDE : 149.68 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		

### Chassis Equipment

556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-100	
551-017	GRADE 8 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
* 606-1U5	DRILLING PREP FOR VAC-CON PER DRAWING#670-30020 REV		

### Fuel Tanks

204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20	
218-006	25 INCH DIAMETER 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)		
122-084	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP	15	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
* 20E-004	AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK		

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Data Code	Description	Weight Front	Weight Rear
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
221-001	FUEL COOLER	10	
<b>Tires</b>			
093-0TB	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	
094-0DH	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES		56
<b>Hubs</b>			
418-045	CONMET PRE-SET BEARING IRON FRONT HUBS		
450-045	CONMET PRE-SET BEARING IRON REAR HUBS		
<b>Wheels</b>			
502-1H5	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-24	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-264
<b>Cab Exterior</b>			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTS		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
754-002	3-1/2 INCH FENDER EXTENSIONS	15	
678-001	LH AND RH GRAB HANDLES		
646-041	STATIONARY BLACK GRILLE		
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
327-012	SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS		
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS		

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Data Code	Description	Weight Front	Weight Rear
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
* 294-1A6	GROTE #54332 LED STOP/TAIL/TURN LIGHTS GROMMET MOUNTED WITH SEPARATE GROTE #62401 LED BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BH	DUAL WEST COAST MOLDED-IN COLOR MIRRORS		
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		
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	TINTED WINDSHIELD		
659-007	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR		

### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR
706-013	MOLDED PLASTIC DOOR PANEL
708-013	MOLDED PLASTIC DOOR PANEL
772-006	BLACK MATS WITH SINGLE INSULATION
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING
694-010	IN DASH STORAGE BIN
742-007	(2) CUP HOLDERS LH AND RH DASH
680-006	GRAY/CHARCOAL FLAT DASH
700-002	HEATER, DEFROSTER AND AIR CONDITIONER
701-001	STANDARD HVAC DUCTING
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
170-015	STANDARD HEATER PLUMBING

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Data Code	Description	Weight Front	Weight Rear
130-033	DENSO HEAVY DUTY AIR CONDITIONER 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		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1DC	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT		
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-032	3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

**Instruments & Controls**

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
68J-005	(5) SWITCH CUTOUPS AND BLANKS IN CENTER PANEL		
* 87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE LIGHT AND BUZZER		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		

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Data Code	Description	Weight Front	Weight Rear
721-003	PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM		3
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		
157-007	MANUAL REMOTE ENGINE START/STOP WITH PTO RE-ENGAGE		
811-011	ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3		
160-025	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-071	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
* 33U-004	PREWIRE PACKAGE FOR VAC-CON CONTROL MODULE AND CHASSIS INTERFACE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1A2	AM/FM/WB RADIO WITH FRONT AUXILIARY INPUT	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO MPH AND/OR RPM GRAPH	-5	

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Data Code	Description	Weight Front	Weight Rear
* 162-018	IGNITION SWITCH CONTROLLED ENGINE STOP WITH CONTROL MOUNTED AT FIREWALL		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-018	ONE VALVE PARK BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND 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**

980-5F6 CAB COLOR A: L0006EB WHITE ELITE BC  
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

**Certification / Compliance**

996-001 U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

**Secondary Factory Options**

998-032 CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY

**TOTAL VEHICLE SUMMARY**

**Weight Summary**

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	8639 lbs	7765 lbs	16404 lbs

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Total Weight <sup>+</sup>	8639 lbs	7765 lbs	16404 lbs
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**ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE**

**Other Factory Charges**

PMT-013 2013 OBD/2010 EPA/CARB/GHG14 ESCALATOR  
STANDARD DELIVERY CHARGE

**Extended Warranty**

WAG-053 TOWING EXTENDED/ROADSIDE SERVICE WARRANTY, 2  
YEAR/UNLIMITED MILES/KM, \$550 CAP

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(\*\*) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

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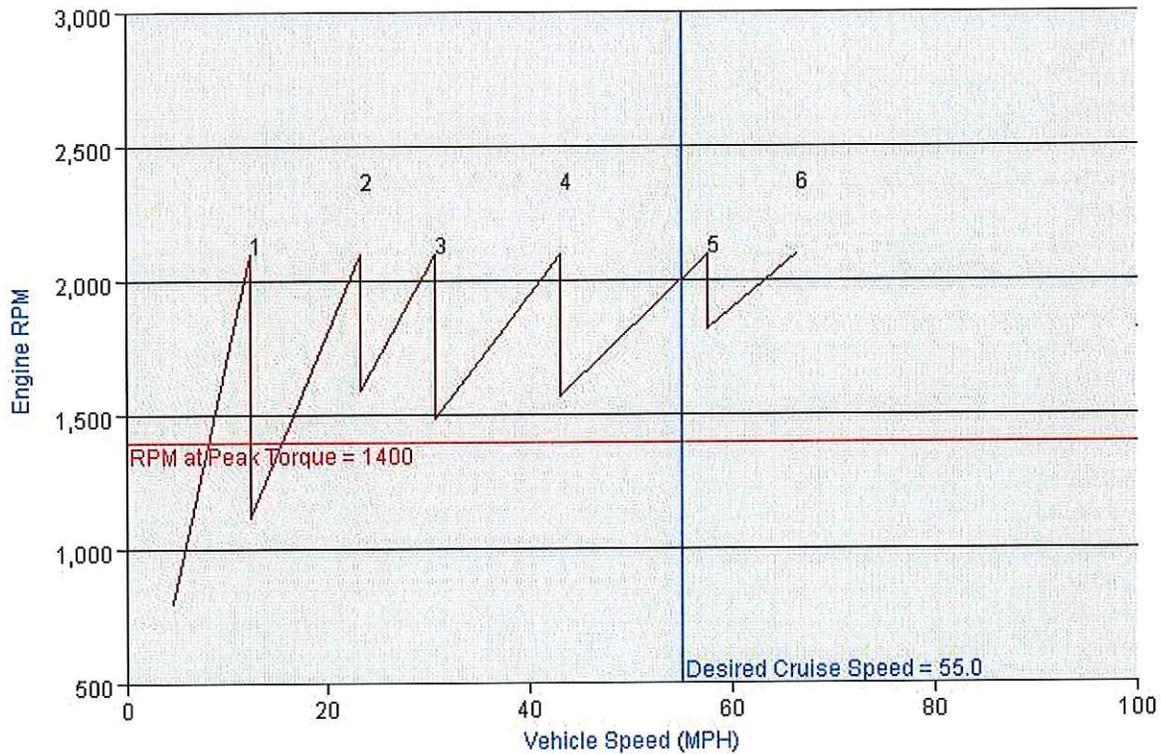
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## SHIFT CHART



### VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model ..... 114SD

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Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph) .....	55.0
Engine (101).....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
RPM at Peak Torque .....	1400
Governed RPM.....	2100
Transmission (342).....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: LL .....	N/A
Gear Ratio: L .....	N/A
Gear Ratio: 1 .....	3.49
Gear Ratio: 2 .....	1.86
Gear Ratio: 3 .....	1.41
Gear Ratio: 4 .....	1
Gear Ratio: 5 .....	0.75
Gear Ratio: 6 .....	0.65
Gear Ratio: 7 .....	N/A
Gear Ratio: 8 .....	N/A
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
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
Low Gear Ratio.....	N/A
High Gear Ratio .....	N/A
Transfer Case (373).....	NO TRANSFER CASE
Low Gear Ratio.....	N/A
High Gear Ratio .....	N/A
Rear Axle (420) .....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds .....	1
Rear Axle Gear Ratio(s).....	5.86 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile .....	498



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**TABLE SUMMARY - SHIFT CHART**

Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1	3.49	5.86	20.45	N/A	800	8.2	12.4
2	1.86	5.86	10.90	87.6	1119	15.5	23.2
3	1.41	5.86	8.26	31.9	1592	20.4	30.6
4	1.00	5.86	5.86	41.0	1489	28.8	43.2
5	0.75	5.86	4.40	33.3	1575	38.4	57.6
6	0.65	5.86	3.81	15.4	1820	44.3	66.4

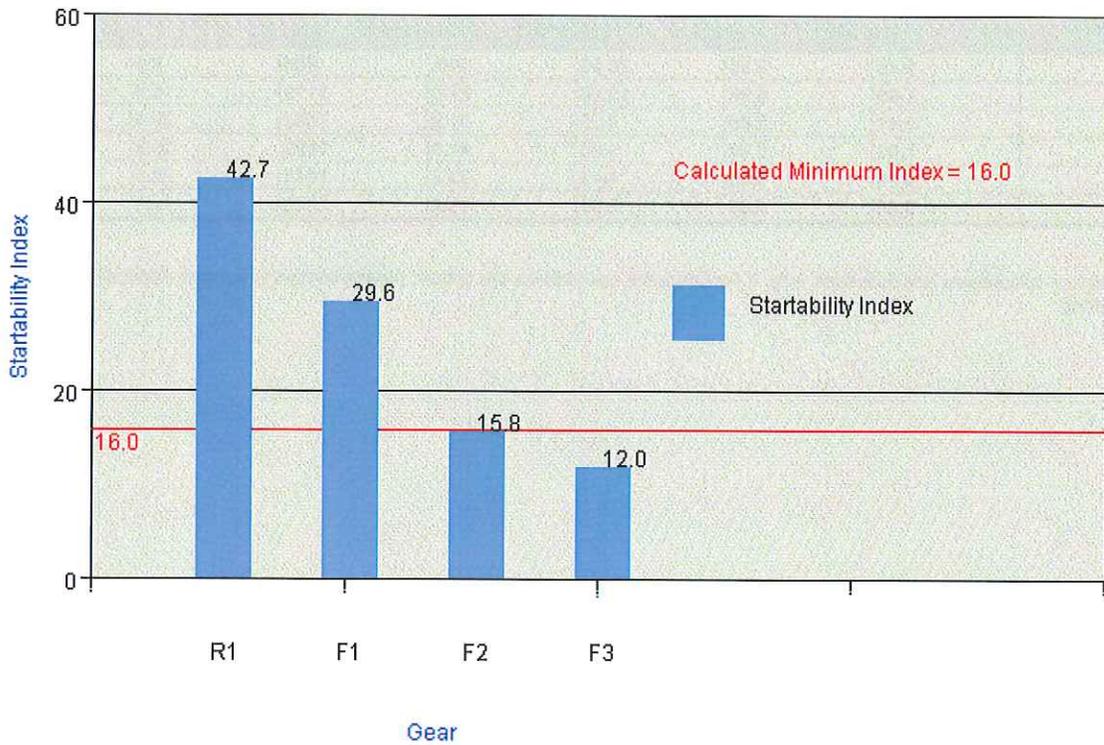
Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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**STARTABILITY**



**VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY**

Model ..... 114SD

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Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	60000
Expected GCW (lbs).....	0.0
Engine (101).....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft).....	550
Transmission (342).....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1.....	3.49
Gear Ratio: Forward 2.....	1.86
Gear Ratio: Forward 3.....	1.41
Gear Ratio: Reverse 1.....	5.03
Gear Ratio: Reverse 2.....	N/A
Gear Ratio: Reverse 3.....	N/A
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Transfer Case (373).....	NO TRANSFER CASE
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Rear Axle (420).....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	5.86 REAR AXLE RATIO
Rear Tires (094).....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile.....	498
Vehicle Service (A85).....	UTILITY/REPAIR/MAINTENANCE SERVICE
Startability Factor.....	.8
Terrain (AA5).....	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor.....	.0
Most Severe Grade Expected (AB1).....	MAXIMUM 8% EXPECTED GRADE
Startability Factor.....	.8
Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Startability Factor.....	.0
Suggested Torque Converter Stall Ratio.....	1.99



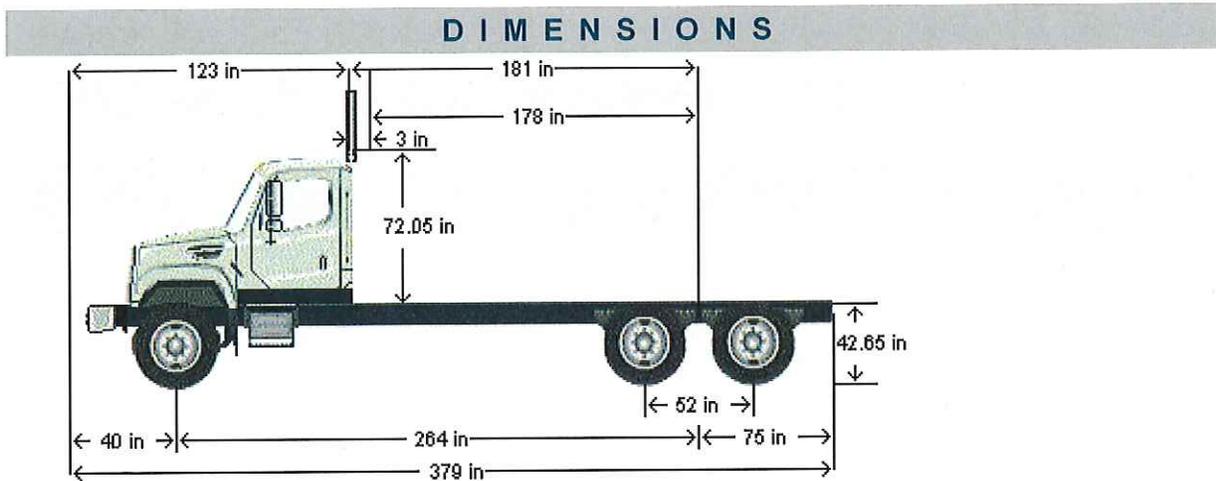
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Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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**VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS**

Model .....	114SD
Wheelbase (545) .....	6700MM (264 INCH) WHEELBASE
Rear Frame Overhang (552) .....	1900MM (75 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
Cab Size (829) .....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPER CAB

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Exhaust System (016) .....RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

**TABLE SUMMARY - DIMENSIONS**

Dimensions	Inches
Bumper to Back of Cab (BBC)	123.1
Bumper to Centerline of Front Axle (BA)	39.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	180.5
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	177.5
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.6
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	255.5
Cab Height (CH)	72.1
Wheelbase (WB)	264.0
Frame Overhang (OH)	75.0
Overall Length (OAL)	378.7
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	42.6

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



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**G V W R**

**VEHICLE SPECIFICATIONS SUMMARY - GVWR**

Model .....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs) .....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs) .....	60000
Expected GCW (lbs).....	0.0
Front Axle (400).....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP 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) ....	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS
Front Tires (093).....	MICHELIN XZY-3 425/65R22.5 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) .....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622).....	HENDRICKSON RT403 REAR SUSPENSION @ 40,000#
Rear Hubs (450).....	CONMET PRE-SET BEARING IRON REAR HUBS
Rear Disc Wheels (505).....	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423) .....	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443) .....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626) .....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509) .....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

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 VAC CON INC  
 969 HALL PARK DRIVE  
 GREEN COVE SPRINGS, FL  
 32043  
 Phone: 904-284-4200



**TABLE SUMMARY - GVWR**

	Front	Rear 1	Rear 2
<b>Axle Component Weight Ratings</b>			
Axles	20000	20000	20000
Suspension	20000	20000	20000
Hubs	23000	26000	26000
Brakes	20000	23000	23000
Wheels	24600	29600	29600
Tires	22800	23360	23360
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	20000	20000
GAWR (per axle system)	20000		40000
Expected Load (per axle system)	20000		40000
<b>Vehicle GVWR Summary</b>			
<b>Calculated GVWR</b>	60000		
<b>Expected GVWR</b>	60000		
All weights displayed in pounds			

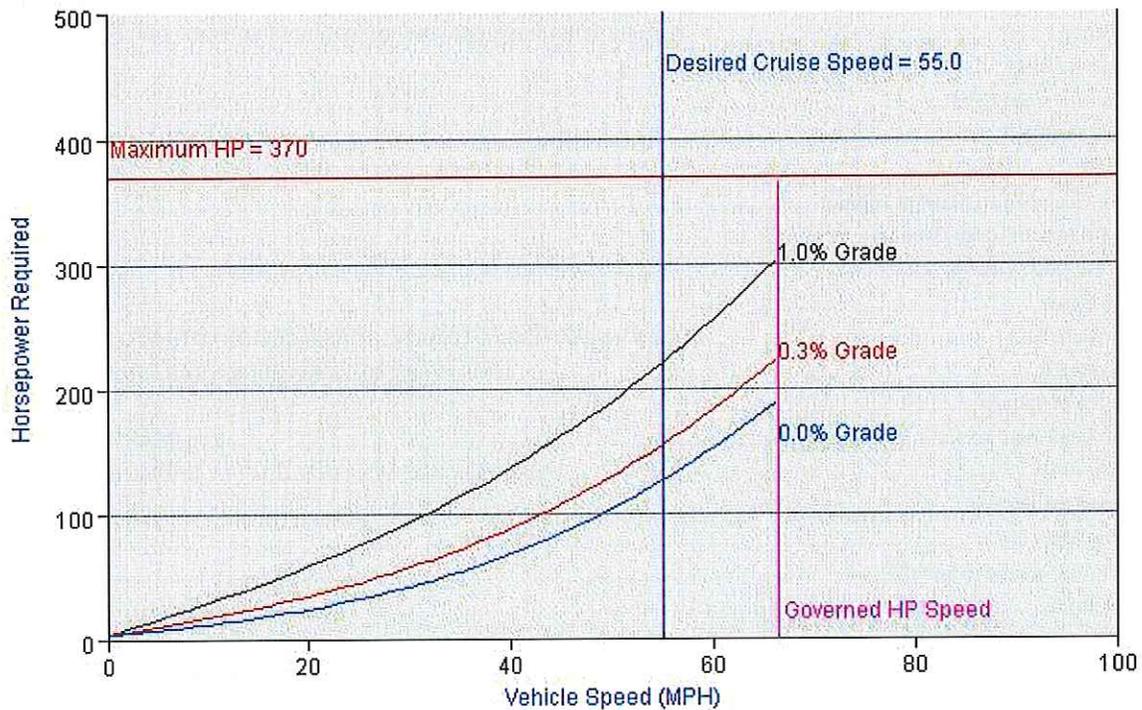
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## S P E E D A B I L I T Y



### VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model ..... 114SD

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Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph) .....	55.0
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs) .....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs) .....	60000
Expected GCW (lbs).....	0.0
Engine (101).....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Governed RPM.....	2100
HP at Governed RPM .....	365
RPM at Max HP .....	2100
Max HP.....	370
HP at Governed RPM (High Torque).....	370
RPM at Max HP (High Torque) .....	2000
Max HP (High Torque).....	370
Multi-torque.....	NO
Transmission (342).....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420) .....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	5.86 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile .....	498
Trailer Width (in) .....	0.0
Trailer Height (ground to top) (ft).....	10.0
Body Width (in) .....	96.0
Body Height (ground to top) (ft).....	10.0
Roof Mounted Aero Device (784).....	NO AIR SHIELD OR BRACKETS
Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Auxiliary Transmission (352).....	NO AUXILIARY TRANSMISSION
High Gear Ratio .....	N/A
Low Gear Ratio.....	N/A
Transfer Case (373).....	NO TRANSFER CASE
High Gear Ratio .....	N/A
Low Gear Ratio.....	N/A



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**TABLE SUMMARY - SPEEDABILITY**

Top Gear Speedability	At Max Power Speed	At Governed RPM Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	66.4	66.4	55.0
Engine RPM	2100	2100	1739
Gross Power Available (HP)	370	366	N/A
Power (HP) Required for:			
Level Road	191	191	127
0.3% Grade	226	226	155
1.0% Grade	305	305	221

\*Blue background represents value input by user.

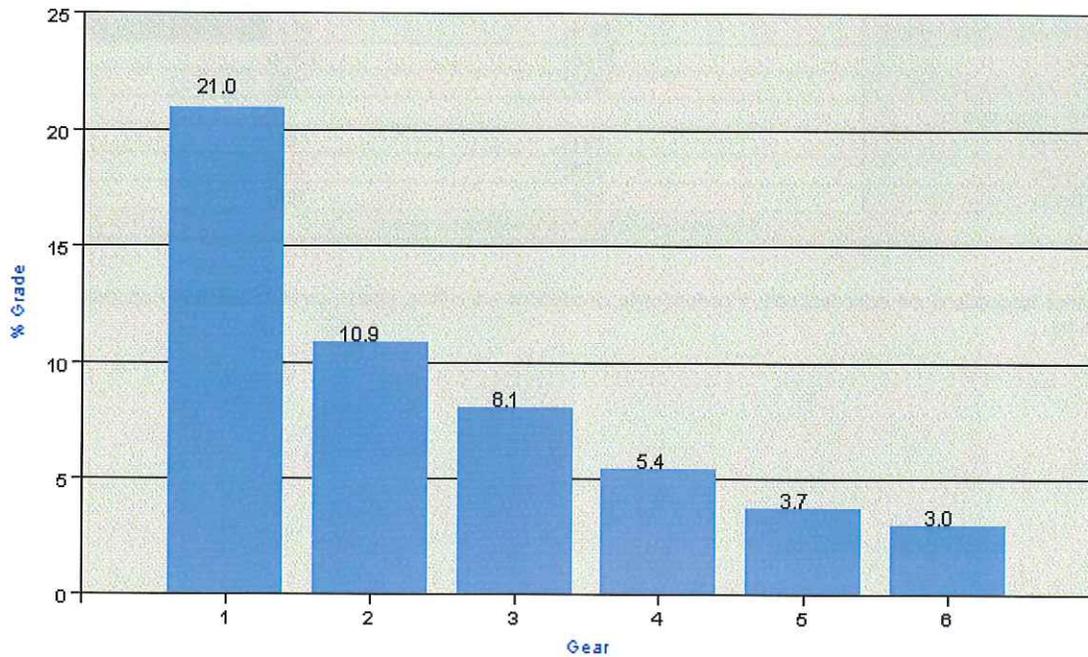
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**GRADEABILITY**



Desired Gradeability at Peak Torque = 0.5

**VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY**

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Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
 Desired Gradeability at Peak Torque (%).....0.5  
 Desired Gradeability at Cruise Speed(%).....0.3  
 Desired Cruise Speed (mph) ..... 55.0  
 Expected Front Axle(s) Load (lbs)..... 20000.0  
 Expected Pusher Axle(s) Load (lbs).....0.0  
 Expected Rear Axle(s) Load (lbs) ..... 40000.0  
 Expected Tag Axle(s) Load (lbs).....0.0  
 Expected GVW (lbs) ..... 60000  
 Expected GCW (lbs).....0.0  
 Engine (101)..... CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM  
     Peak Torque (lbs-ft) ..... 1250  
     RPM at Peak Torque ..... 1400  
     Peak Torque (Multi-torque High) (lbs-ft) ..... 1250  
     RPM at Peak Torque (Multi-torque High) ..... 1400  
     Multi-torque..... NO  
 Transmission (342)..... ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION  
 Rear Axle (420) ..... MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE  
     Number of Speeds.....1  
     Rear Axle Gear Ratio(s).....5.86 REAR AXLE RATIO  
 Rear Tires (094) ..... MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES  
     Revolutions per Mile ..... 498  
     Trailer Width (in) .....0.0  
 Trailer Height (ground to top) (ft)..... 10.0  
 Body Width (in).....96.0  
 Body Height (ground to top) (ft)..... 10.0  
 Roof Mounted Aero Device (784)..... NO AIR SHIELD OR BRACKETS  
 Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE  
 Auxiliary Transmission (352)..... NO AUXILIARY TRANSMISSION  
     High Gear Ratio ..... N/A  
     Low Gear Ratio..... N/A  
 Transfer Case (373)..... NO TRANSFER CASE  
     High Gear Ratio ..... N/A  
     Low Gear Ratio..... N/A  
 Trailer Configuration (AA2) ..... NO TRAILER SPECIFIED



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**TABLE SUMMARY - GRADEABILITY**

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	20.45	8.2	276.9	21.0
2	1.86	10.90	15.5	269.8	10.9
3	1.41	8.26	20.4	263.6	8.1
4	1.00	5.86	28.8	250.0	5.4
5	0.75	4.40	38.4	228.3	3.7
6	0.65	3.81	44.3	210.9	3.0
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			5.86		
Gross HP Available at Peak Torque			333		
RPM at Peak Torque			1400		
*Blue background represents value input by user.					

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	20.45	10.2	291.8	17.8
2	1.86	10.90	19.2	281.9	9.2
3	1.41	8.26	25.4	272.8	6.7
4	1.00	5.86	35.8	251.7	4.4
5	0.75	4.40	47.7	216.1	2.8
6	0.65	3.81	55.0	186.7	2.1
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			55.0		
Rear Axle Ratio			5.86		
Gross HP Available at Cruise Speed			369		
RPM at Cruise Speed			1738		
*Blue background represents value input by user.					

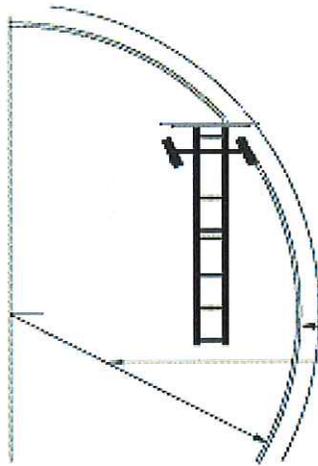
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**T U R N I N G   R A D I U S**



	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	104.8	94.9	+/- 3.0
Curb to Curb Diameter (ft)	101.4	91.0	+/- 3.0
Turning Radius (ft)	49.9	44.8	+/- 1.5

**VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS**

Model ..... 114SD  
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
 Wheelbase (545) ..... 6700MM (264 INCH) WHEELBASE  
 Front Tires (093) ..... MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES  
 Width (in) ..... 17.7  
 Front Axle (400)..... DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE  
 Kingpin Intersection (in) ..... 71  
 Bumper (556) ..... OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203  
 Width (in) ..... 96  
 Bumper Miter to Front Axle (in) ..... 51.677  
 Primary Steering Location (003) ..... LH PRIMARY STEERING LOCATION  
 Steering Gear (536) ..... TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR

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