



**COOPERATIVE PURCHASING PROGRAM**  
Houston-Galveston Area Council of Governments  
3555 Timmons, Suite 120, Houston, TX 77027  
Phone: 800-926-0234 Fax: 713-993-4548  
[www.hgacbuy.org](http://www.hgacbuy.org)

INVITATION TO SUBMIT COMPETITIVE:	<input checked="" type="checkbox"/> <b>BIDS</b>	<input type="checkbox"/> <b>PROPOSALS</b>
INVITATION No.: <b>SC01-15</b>	ISSUE DATE: <b>August 7, 2014</b>	
CATEGORY: <b>Sewer Cleaning, Hydro-Excavating, Inspection Equipment and Miscellaneous Services</b>		

**PURPOSE OF THIS INVITATION**

The Cooperative Purchasing Program (**HGACBuy**) of the Houston-Galveston Area Council of Governments is soliciting offerings for the furnishing of products/services as described herein. These products/services may be purchased by any of more than 6,000 member local governments, districts, agencies in 48 states across the nation.

Responses must be submitted in an original and one (1) copy, and shall be subject to the terms, conditions, requirements and specifications detailed in the documents comprising this Invitation. Responses are scheduled to be opened publicly at **H-GAC** offices on the date indicated. For Bid Invitations, responses will be available for public review until 4:00 p.m. CT that day and on subsequent days by appointment only. Any Responses submitted later than 1:00 p.m. on the due date will be returned unopened to the bidder/proposer.

**PROCUREMENT SCHEDULE & DETAILS**

<b>DRAFT SPECIFICATION / INVITATION:</b>	Wednesday, June 4, 2014
<b>PRE-BID/PROPOSAL CONFERENCE:</b>	Wednesday, July 2, 2014 @ 9:00 A.M. CT; Conference Room B
<b>FINAL SPECIFICATION / INVITATION:</b>	Thursday, August 7, 2014
<b>BID/PROPOSAL RESPONSES DUE:</b>	Thursday, September 4, 2014 @ 1:00 P.M. CT; H-GAC Clock
<b>PUBLIC RESPONSE OPENING:</b>	Thursday, September 4, 2014 @ 2:00 P.M. CT; H-GAC Conf Rm B
<b>RECOMMENDATIONS TO BOARD:</b>	Tuesday, November 18, 2014
<b>CONTRACT START DATE &amp; TERM:</b>	January 1, 2015 thru December 31, 2017
The documents comprising this Invitation are available via web download at: <a href="https://www.hgacbuy.org/bids/">https://www.hgacbuy.org/bids/</a>	
For assistance regarding this Invitation, please contact: Name: <b>Aundre Petty</b> Phone: <b>713-993-2453</b> E-mail: <b>Aundre.Petty@h-gac.com</b>	

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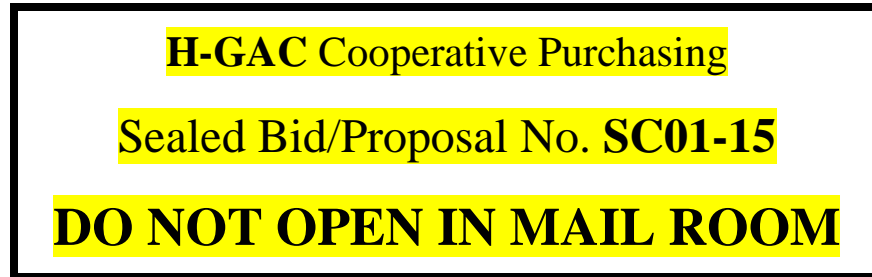
- SECTION A** - General Terms & Conditions
- SECTION B** - Product/Service Specific Requirements & Specifications (Final)
- SECTION C** - **HGACBuy** FORMS (Final)
- SECTION D** - Pro-Forma (Sample) Contract

**This procurement conforms to government requirements for Competitive Procurement.**

## LABELING OF SEALED RESPONSE PACKAGE

### IMPORTANT:

You must affix an identifying label to the outside of your **Sealed Response Package** to ensure proper identification and log-in at **HGACBuy** offices on receipt. **HGACBuy** is not responsible for any response that might be lost or misdirected due to improper or unclear labeling. Your label should look as follows and should be affixed conspicuously to the package.



Responses by E-mail or FAX will not be acceptable. Hard copies, as described herein, plus appropriate electronic media are required.

## NOTICE REGARDING NATIONWIDE SALES POTENTIAL

**HGACBuy** is conducting this procurement with the objective of establishing one or more blanket type contracts for use by our Members. Because our Members are located not only in Texas, but throughout the country, we strongly urge you to participate in the process at the corporate level. If you do not sell direct, your dealer network may still service customers while you handle the administrative functions of providing quotes, accepting purchase orders, and collecting payments. If this is not feasible, we will work with you to subsequently assign your contract to your dealers as necessary to service customers.

Whatever approach you choose to take, there is considerable potential sales value because **HGACBuy** is being used not only in the State of Texas, but **NATIONWIDE**. This means that **HGACBuy** contractors will have a special advantage available to them in promoting sales to government agencies throughout the country... the ability to sell products without the need for the buyer to duplicate the competitive bidding process and expend the associated staff time and taxpayer dollars. We believe an **HGACBuy** contract would enhance your competitive position in the government marketplace, and are eager to work with you to promote the best interests of our participating local governments and qualifying non-profit organizations.

We look forward to your participation in our process. Please contact the **HGACBuy** staff member listed on the cover of this Invitation for additional information.



**SECTION A**  
**GENERAL TERMS & CONDITIONS**  
**FOR BIDS AND PROPOSALS**

**INVITATION No. SC01-15**

**DESCRIPTION: Sewer Cleaning, Hydro-Excavating, Inspection Equipment and Miscellaneous Services**

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## 1. INTRODUCTION

The Houston-Galveston Area Council (**H-GAC**) is a "Government-to-Government" procurement service for States, State Agencies, Local Governments, Districts, Authorities, and qualifying Not-for-Profit Corporations (**End Users**). End Users become **Members** of the **H-GAC** Cooperative Purchasing Program (**HGACBuy**) by executing an Interlocal Contract, which is free of cost and evergreen unless cancelled. **HGACBuy**, acting on behalf of **Members**, is soliciting competitive offerings for the furnishing of products and/or services, as described elsewhere, which MAY be purchased by **Members** during the contract term. **Members** using the Program issue purchase orders directly to **HGACBuy** contractors.

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## 2. DEFINITIONS, ABBREVIATIONS & ACRONYMS

The following definitions, abbreviations and acronyms may be found in these specifications, and shall be interpreted herein as specified below.

### Definitions and Abbreviations:

**Acceptance.** Acceptance takes place when the **End User** agrees with the **Contractor** that the terms and conditions of the contract have been met and verified. Acceptance is not the same as Receipt, and can only occur after intact shipping, inspection by **End User**, and any onsite testing that has been stipulated as part of the order

**Aggregate/Single Occurrence.** The term "*aggregate*" in insurance terms is the sum of all claims against a specific policy for a specific loss incident. The term "*single occurrence*" differentiates between multiple claims and single claims against a specific policy. The inherent value of a policy's aggregate value is less important to an **End User** than is the value of a single claim as stated under "*single occurrence*."

**Approved.** Acceptable to the "authority having jurisdiction."

**ARO.** "After Receipt of Order". Used in conjunction with a defined time period (usually days or weeks) to establish the delivery or lead time pursuant to any individual purchase transaction. In the case of orders for bodies which will be mounted on a customer furnished cab/chassis, the term ARO shall be construed to mean "After Receipt Of Cab/Chassis".

**Authority Having Jurisdiction.** The authority shall be either **H-GAC** or the relevant **End User** based on the requirements as stated in each specification item. Unless specifically stated, the authority shall be **H-GAC**.

**Bidder.** Any entity that submits a competitive bid to this Invitation. (See also "**Offeror**")

**Change Order.** Request by an **End User** for a change in the composition of an already submitted purchase order, for example to change quantity ordered, add or delete items, etc.

**Contract.** Specifically, a contract between **H-GAC** and a successful **Offeror** which is executed based on an award made pursuant this Invitation.

**Contract Pricing Worksheet.** The standard **H-GAC** form to be used by **Contractor** in preparing a quotation to an End User, upon which End User's purchase order will be based. **Contractor** may use another quotation form provided it contains required information, and only if approved by **H-GAC**.

**Contractor.** The contracted business entity responsible for fulfilling a contract executed pursuant to this Invitation.

**Dealer/Distributor.** A duly authorized and/or franchised business entity which sells and services a manufacturer's product in a specified marketing area.

**Defect.** A discontinuity in a part or a failure to function that interferes with the service or reliability for which the part was intended.

**Electronic Media.** As used herein, means computer based media such as 100mb Zip Disk, CDROM, e-mail, e-mail attachment, file downloaded from the web, etc.

**End User.** (See "**Participant**" and "**Member**")

**Listed.** Equipment or materials included in a list published by an organization, acceptable to the "Authority Having Jurisdiction" and concerned with product evaluation, that conducts periodic inspection of production of listed equipment or materials and whose listing states either that the equipment or materials meet appropriate standards or has been tested and found suitable for use in a specified manner. NOTE: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is also labeled. The "authority having jurisdiction" should utilize the system employed by the listing organization to identify a listed product.

**Manufacturer.** The person or persons, company firm, corporation, partnership, or other organization responsible for taking raw materials or components and making a finished product.

**May.** A term indicating a permissive use or an acceptable alternative to a specified requirement.

**Member.** An authorized Participant in the Program. (See "**Participant**" and "**End User**")

**Motor Vehicle.** The meaning of this term shall be based on the legal definition ascribed to it by the laws and/or regulations of the state in which any specific sale made pursuant to a Contract takes place.

**Must.** A term indicating a mandatory requirement.

**Offer or Offering.** Any product or service offered in reply to this Invitation.

**Offeror.** Any entity that submits a competitive bid or proposal in response to this Invitation. Bidder or Proposer.

**Participant.** Generally, any qualifying governmental or non-profit entity which has executed an Interlocal Contract for cooperative purchasing services with **H-GAC**.

**Product Liability Insurance.** Failure of Components and/or assembled equipment resulting in personal injury, disability or death and/or property damage is covered under the product liability insurance provisions.

**Product or Product Item.** Any of the specific goods, materials, equipment or service(s) specified in this Invitation. This term encompasses the base line item itself, and any and all accessories, options, modifications, ancillary services, assembly, testing, etc. that may be included in the delivered Product.

**Proposer.** Any entity that submits a competitive proposal in response to this Invitation. (See also "**Offeror**")

**Purchaser.** The **End User** having responsibility for the specification, requisition, ordering and acceptance of the Product or Service. (See also "**End User**")

**Purchasing Authority.** The agency that has sole responsibility and authority for negotiating, placing and, if necessary, modifying any solicitation, purchase order, or other award issued by a governing body [**H-GAC**].

**Quotation.** See "Contract Pricing Worksheet".

**Receipt.** Receipt takes place when a Product or Service is delivered to an **End User** and a document is executed that establishes that the Product is now in the possession of the **End User** or that the Service has been completed. Receipt DOES NOT connote or imply Acceptance.

**Response.** All or part of any offering submitted in response to this Invitation.

**Shall.** A term indicating a mandatory requirement or action.

**Should.** A term indicating a recommended or advised response to a specified requirement.

**Vendor.** A manufacturer's representative or dealer authorized to make sales and supply parts and service.

#### **Acronyms:**

**ANSI** = **A**merican **N**ational **S**tandards **I**nstitute

**ASTM** = **A**merican **S**ociety for **T**esting and **M**aterials

**ASME** = **A**merican **S**ociety of **M**echanical **E**ngineers

**CFR** = U.S. **C**ode of **F**ederal **R**egulations

**DOJ** = U.S. **D**epartment **O**f **J**ustice

**DOT** = U.S. **D**epartment **O**f **T**ransportation

**EPA** = U.S. **E**nvironmental **P**rotection **A**gency

**FAA** = **F**ederal **A**viation **A**dministration

**FMVSS** = U.S. **F**ederal **M**otor **V**ehicle **S**afety **S**tandards

**H-GAC** = **H**ouston-**G**alveston **A**rea **C**ouncil of Governments

**IEEE** = **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers

**MVD** = **M**otor **V**ehicle **D**ivision of Texas Department of Transportation

**NFPA** = **N**ational **F**ire **P**rotection **A**ssociation

**NHTSA** = **N**ational **H**ighway **T**raffic **S**afety **A**dministration

**NIOSH** = **N**ational **I**nstitute **F**or **O**ccupational **S**afety **A**nd **H**ealth

NIST = National Institute of Standards and Technology  
NTEA = National Truck Equipment Association  
OSHA = U.S. Occupational Safety and Health Admistration  
RRC = Railroad Commission of Texas  
SAE = Society of Automotive Engineers  
TBPC = Texas Building and Procurement Commission (formerly GSC)  
TxDOT = Texas Department Of Transportation  
UL = Underwriter's Laboratories Inc.  
VTCS = Vernon's Texas Civil Statutes

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### 3. NON-BINDING ORAL COMMENTS

No oral comment, utterance or response made by any employee, member, or agent of **H-GAC** or any Member of the Cooperative Purchasing Program shall be considered factual or binding with regard to this Invitation, or any contract awarded as a result of this Invitation. Valid and binding terms, conditions, provisions, changes or clarifications, or requests thereof, shall **ONLY** be communicated written form.

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### 4. STRUCTURE OF RESPONSE

Depending on the Product or Service, market structures and sales practices can differ substantially. For example, dealers may sell into any market or may be restricted to certain territories, manufacturers may sell direct or may be limited by law to selling thru independent dealerships, etc. **H-GAC's** objective is to ensure that **End Users**, no matter where located, can buy contracted products/services and receive quality and timely service and support, while at the same time allowing for the most appropriate and effective response to this Invitation. Therefore, responses to this Invitation will be accepted in conformance with the following scenarios and requirements:

#### **A. Single Respondent Acting Alone Or As "Lead" For A Group:**

**Offeror** shall complete and sign a **Form A** and, if contracted, shall be solely responsible for all contractual requirements including administration, processing of purchase orders and handling of payments for transactions which may involve other dealers who actually deliver the products or services.

#### **B. Multiple Respondents Acting Jointly:**

A single Response shall be submitted, and each party to the Response shall complete and sign a separate **Form A** to be included in the single Response. If the Response is successful each party shall sign a separate contract with **H-GAC** and shall be responsible for compliance with all terms and conditions. Only those which have executed a written contract with **H-GAC** may process purchase orders and payments.

**In any event, Offeror may be a party to one, and only one, response.**

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### 5. BASIC REQUIREMENTS & CONDITIONS

- a. The final requirements and specifications contained herein may be different, perhaps materially, from those in the "Invitation To Attend Pre-Bid / Pre-Proposal Conference", if any. It is **Offeror's** sole responsibility to thoroughly examine and review all documentation associated with this Invitation, including any Addendums, and to insure that any response submitted complies in every respect with all requirements.
- b. Any Addendum to this Invitation which may be required prior to the Response due date will be delivered to those prospective Offerors of record who have previously obtained a copy of this Invitation from **H-GAC**. Prospective Offerors shall be responsible for obtaining all documents relating to submission of a Response.
- c. **Offeror** shall thoroughly examine any drawings, specifications, schedules, instructions and any other documents, supplied as a part of this Invitation, and is solely responsible for understanding and compliance.
- d. **H-GAC** shall not be liable for **Offeror's** incomplete documentation, or for any costs associated with preparation and submission of any Response hereto. Additionally, all components of any Response become the property of **H-GAC**, **and shall be considered to be in the public domain**.
- e. **Offeror** shall make all investigations necessary to become thoroughly informed regarding any plan and/or infrastructure that may be required to support delivery of any Product or Service covered by this Invitation. No plea of ignorance by **Offeror** stemming from failure to investigate conditions that may now or hereafter exist, shall be accepted as a basis for varying **H-GAC's** requirements, or **Offeror's/Contractor's** obligations or entitlements.
- f. Requests for changes to the requirements or specifications herein must be in writing (e-mail, fax, letter) and must be received by **H-GAC** no later than fifteen (15) calendar days prior to the Response Due Date. **H-GAC** will review such requests, but may or may not make changes at its sole discretion. Changes, if any, will only be

made by written Addendum sent to addressees of record. In any event, it is **Offeror's** sole responsibility to insure that any and all Addendums which may have been issued have been received and addressed.

- g. By submission of a response, Offeror expressly understands and agrees that all terms and conditions herein will be part of any subsequent contract that is executed pursuant to this Invitation.
- h. **Offeror** is advised that all **H-GAC** contracts are subject to the legal requirements established in any applicable Local, State or Federal statute.
- i. **Offeror/Contractor** must be in compliance with all licensing, permitting, registration and other applicable legal or regulatory requirements imposed by any governmental authority having jurisdiction. It is **Offeror/Contractor's** responsibility to insure that this requirement is met, and to supply to **H-GAC** upon request, copies of any license, permit or other documentation bearing on such compliance.
- j. Unless otherwise established elsewhere in this Invitation, NO minimum purchase quantities or spending levels are provided or guaranteed by **H-GAC** or any **End User**.
- k. This Invitation is not meant to restrict competition, but rather is intended to allow for a wide range of responses.
- l. Responses which are 'qualified' with conditional clauses or alterations of or exceptions to any of the terms and conditions in this Invitation may be deemed non-compliant at **H-GAC's** sole discretion.
- m. The term '**Offeror**', or derivative thereof, shall become synonymous with '**Contractor**' for any successful **Offeror** recommended for a contract pursuant to this Invitation.
- n. **H-GAC** reserves the right to:
  - Reject any and all offers received in response to this Invitation.
  - Reject any part of an offer received in response to this Invitation.
  - Determine the correct price and/or terminology in the event of any discrepancies in any response.
  - Accept a response from, and enter into agreement with, other than the lowest price **Offeror**.
  - Accept responses and award contracts to as many or as few **Offerors** as **H-GAC** may select.
  - Amend, waive, modify, or withdraw (in part or in whole) this Invitation, or any requirements herein.
  - Hold discussions with **Offerors**, although award may be made without discussion.
  - Request an **Offeror** to give a presentation of the Response at a time and place scheduled by **H-GAC**.
  - Exercise any of these rights at any time without liability to any **Offeror**.
- o. **H-GAC** reserves the right to determine that conditions exist which prevent the public opening of responses on the date and at the time advertised, and to reschedule the public opening for a future date and time. Responses received by **H-GAC** by the original deadline will be secured unopened until the rescheduled opening date and time, and those having timely submitted such responses will be notified.

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## 6. OFFEROR'S AUTHORIZED SIGNATORY

The signatory shall be authorized to sign and contractually bind **Offeror**, and shall sign any and all Response documentation requiring a signature.

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## 7. SURETY FOR INSURANCE

**Contractor** shall be responsible for using a surety company properly licensed by any and all states in which Contractor will do business with Participants. The surety company shall not expose itself to any loss on any one risk in an amount exceeding ten percent (10%) of its surplus to policy holders, provided any risk or portion of any risk shall have been reinsured, and such reinsurance shall be deducted in determining the limitation of risk applicable to **H-GAC's** insurance requirements.

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## 8. CONFIDENTIAL / PROPRIETARY MATERIALS

All documentation submitted as part of **Offeror's** response to this Invitation will be considered to be in the public domain and may be made available to Members and others, after contract award, upon properly submitted request. If **Offeror** submits documents marked "confidential" or "proprietary", the Response may be deemed non-compliant.

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## 9. REFERENCES

- a. **Offeror** shall list the names of at least five government agencies within the continental United States which have purchased from **Offeror** products or services similar to those covered by this Invitation, within the last two years. **H-GAC** reserves the right to determine if such products or services are appropriately similar.
- b. **Offeror** may provide reference information in whatever format desired, but each should include the following specific information:
  - Agency name
  - Contact person name

- Address
  - Phone & Fax numbers
  - Description of product(s) or service(s) and date sold
- c. Other information, including criticism however learned, may be used by **H-GAC** in evaluation of responses.

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## 10. INSURANCE

- a. Unless otherwise stipulated in Section B, **Offeror/Contractor** must have the following insurance and coverage minimums:
- General liability** insurance with a Single Occurrence limit of at least \$1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit.
- Product liability** insurance with a Single Occurrence limit of at least \$1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B – Product Specific of this Invitation.
- Property Damage or Destruction** insurance is required for coverage of **End User** owned equipment while in **Contractor's** possession, custody or control. The minimum Single Occurrence limit is \$500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as part of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.
- b. Insurance coverage shall be in effect for the length of any contract made pursuant to this Invitation, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.
- c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Offeror/Contractor** as the insured and showing coverage and limits for the insurances listed above.
- d. If any Product(s) or Service(s) will be provided by parties other than **Offeror/Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.
- e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

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## 11. OFFEROR CERTIFICATIONS

**Offeror, by submission of a Response hereto, makes the following certifications under penalty of perjury and possible contract termination if any of these certifications are found to be false.**

### Non-Collusive Response

- a. The prices in the Response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other **Offeror** or potential competitor.
- b. The prices which have been quoted in the Response (unless otherwise required by law), have not been knowingly disclosed by **Offeror** and will not be knowingly disclosed by **Offeror** prior to the public response opening, either directly or indirectly, to any other **Offeror** or competitor.
- c. No attempt has been made or will be made by **Offeror** to induce any other person, partnership or corporation to submit or not to submit a response for the purpose of restricting competition.

### Non-Biased Specifications

This Invitation contains no requirements considered to be unduly biased in favor of **Offeror** or any other **Offerors** that may be competing for this procurement.

### No Financial Interest or Other Conflict

- a. No **H-GAC** officer, employee, Board of Directors member or member of any **H-GAC** board or commission, nor family member of any such person, has a financial interest, direct or indirect, in **Offeror** or in any contract **Offeror** might enter into with **H-GAC**.
- b. No economic or employment opportunity, gift, loan, gratuity, special discount, trip, favor or service has been, or will be, offered or given to any officer, employee, Board of Directors member, or member of any **H-GAC** board or commission, nor to any family member of any such person.



### Debarment and Suspension Status

- a. **Offeror** is not currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any government agency, nor is **Offeror** an agent of any person or entity that is currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transaction by any government agency.
- b. **Offeror** has not within a three year period preceding this Invitation been convicted of or had a civil suit judgement rendered against **Offeror** for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property.
- c. **Offeror** is not presently indicted for or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated above.
- d. Offeror has not, within a three year period preceding this Invitation, had any government (federal, state, or local) transactions terminated for cause or default.

### Insurance Coverages

**Offeror** has and will maintain insurance coverage in accordance with the requirements of this Invitation.

### Licensing & Permits

**Offeror(s)** has (have) all licenses and/or permits, required by any and all governmental entities having jurisdiction, to legally sell the products/services offered.

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## 12. HISTORICALLY UNDERUTILIZED BUSINESS (HUB) PARTICIPATION

- a. To satisfy Texas' statutory requirements [Government Code, Chapter 2161, Subchapter D], **H-GAC** requires all **Offerors** to supply information in any bid/proposal response listing (1) the total number of subcontracts and (2) the total number of HUB contracts applicable to the Products or Services offered in the response. Local governments often require this information for their own reporting requirements prior to placing orders through the **H-GAC** Cooperative Purchasing Program.
- b. **Offeror** must complete **Form B** and include subcontracts with HUB's that provide any materials or services related to sales that may be made thru **H-GAC**'s Cooperative Purchasing Program.

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## 13. NON-RESIDENT RECIPROCAL SALES ACT

As required by Texas Civil Statutes in the award of contracts, an offeror which is not a Texas resident business must determine if its state of residence prohibits award of government contracts to Texas resident offerors without penalty. If **Offeror's** resident state DOES penalize Texas offerors, **Offeror** must provide this information along with a copy of its applicable resident state's statute in the Response.

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## 14. TEXAS MOTOR VEHICLE COMMISSION CODE & LICENSING

Sales of motor vehicles in the State of Texas are subject to the Texas Motor Vehicle Commission Code. If this Invitation includes any motor vehicle to be sold in the State of Texas, **Offeror** certifies by submission of a response hereto that all required Texas Motor Vehicle Commission licenses are in place and current, and that copies of all such licenses have been submitted with the Response. Further, it shall be **Contractor's** responsibility to keep current all required Texas Motor Vehicle Commission licensing during the term of the contract, and to furnish license copies at any time on request by **H-GAC**. If **Contractor** does not maintain current licensing, **H-GAC** reserves the right to immediately terminate the contract.

<p><b>NOTE:</b> In accordance with the Texas Motor Vehicle Commission Code, contracts for motor vehicles to be sold within the state of Texas may be made <u>ONLY</u> with properly licensed Texas Motor Vehicle Dealers. Therefore, to be considered for a contract covering Texas End Users, the Response must include a <b>Form A</b> from a licensed Texas Motor Vehicle Dealer</p>
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## 15. INTENT AND SCOPE OF SPECIFICATIONS

- a. The intent of the specifications herein is to provide **Offeror** with sufficient information concerning the Products/Services to be contracted such that **Offeror** can prepare and submit an acceptable Response.
- b. The specifications may be detailed or general in nature with regard to any particular Product/Service. Where not otherwise specified, details of construction, materials, or the way in which services will be provided, are left to the discretion of the **Offeror**, provided only that any offering shall conform, as a minimum, to best Industry standards and practices and to what is currently being sold in the marketplace.

- c. Responses shall be considered only from **Offerors** that have established good reputations in their markets, and who furnish satisfactory evidence of ability to supply the Products/Services specified herein.
- d. **Offeror** shall show proof of ability to provide to **End Users** prompt and competent service, including parts if applicable, for all Products/Services covered by this Invitation, by proper completion of a Service Organization Document as described elsewhere herein.

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## 16. REQUIREMENTS APPLICABLE TO PHYSICAL GOODS

In the case of physical goods (e.g. equipment, material, supplies, as opposed to services), all Products offered must, unless otherwise stipulated in Section B:

- a. Be new, unused, and not refurbished.
- b. Not be a prototype insofar as the general design, operation and performance. This requirement is NOT meant to preclude **Offeror** from offering new models or configurations which incorporate improvements in a current design or add functionality, but which in such new model or configuration may be new to the marketplace.
- c. Include any and all accessories which may or may not be specifically mentioned herein, but which are normally furnished or which are necessary to make a delivered Product ready for its intended use. Such accessories shall be assembled, installed and adjusted such that the Product is ready for continuous operation at time of delivery.
- d. Have assemblies, sub-assemblies and component parts that are standard and interchangeable throughout the entire quantity of a particular Product as may be purchased simultaneously by any individual **End User**.
  - a. Be designed and constructed using current industry accepted engineering and safety practices, and materials.
  - b. Be available for inspection at any time prior to or after procurement.

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## 17. PRODUCT CODES

Unless otherwise addressed in Section B of this Invitation, the following requirements shall apply:

- a. Each Product/Service offered shall be uniquely identified using an **H-GAC** Product Code, which shall be determined as described in Section B of this Invitation. **Offeror** shall offer ONLY ONE Product for any particular Product Code. For example, **Offeror** may wish to submit a bid for Product Code ABC and may have another offering that also meets the requirements for ABC. **Offeror** MAY NOT submit two offerings for ABC. The alternate offering that also meets the requirements for ABC must be offered as an option "upgrade/downgrade" to ABC on **Form E**.
- b. Pricing for optional upgrades or downgrades to base bid items should be quoted as an "adder" or "deduct" amount as appropriate, to be applied to the offered price of the base Product Item listed on **Form D**.
- c. Base bid items and their associated HGACBuy Product Codes are included in the Section B and/or on **Form D**.
- d. Selection of Product Codes for which to submit an offer is at **Offeror**'s sole discretion.

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## 18. SPECIFIC DESCRIPTIVE REFERENCES

Except for Base Product Items listed on **Form D**, any reference to a specific catalog, data sheet, form, brochure, model name or number, etc. used herein to describe an item such as an option or accessory is only descriptive and is not to be considered restrictive unless otherwise noted. Such references are normally used only to indicate a type, general description, level of quality and/or required performance standards.

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## 19. MANUALS

Unless otherwise specified or superceded herein, each Product delivered under an **H-GAC** contract, and if applicable any options thereto, shall be supplied with at least one (1) copy of a safety and operating manual. The cost of any such manuals must be included in the base price for any Product Item offered hereunder. If more detailed and technically orientated parts and maintenance manuals are available for a Product or option, at a cost, they shall be offered as options on the *FORM* designated herein for such options, or elsewhere in the Response as may be directed herein.

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## 20. STANDARD FEATURES & OPTIONS

The following requirements are applicable primarily to physical goods.

### Standard Features

- a. The stated minimum requirements for all Products listed herein include what **H-GAC** considers to be "standard" features. Even though such features might normally be offered as options rather than as standard, they are nonetheless considered to be standard in this Invitation, and must be included in the base price for any Product offered. Such features **SHOULD NOT** be offered as options except as deducts for their omission from the base Product.

- b. If it is unclear in the Response that an **H-GAC** standard feature is included in the base price, it will be assumed that such is the case. If awarded a contract **Offeror** will be expected to sell the Product with all **H-GAC** specified standard features included in the base price.
- c. Any feature or accessory normally offered by manufacturer as "standard" shall be considered a standard feature and shall be included in the base price of any offering, even though not specifically listed as a requirement in **H-GAC's** specifications. Such features **SHOULD NOT be offered as options except as deducts for their omission from the base Product.**

#### **Options - General**

- a. Options are considered to be any features or accessories, other than **H-GAC's** and Manufacturer's "standard" features or accessories.
- b. Options should be offered on the *FORMS* designated for quoting options. Each option should be listed and described on a separate line, and should include any Manufacturer's/Dealer's code number. If no Manufacturer's/Dealer's code number exists, **Offeror** should create one.
- c. Prices for all offered options shall be assumed to include any installation or mounting required to make it a fully functional component of the Product, unless otherwise stated in **Offeror's** response.

#### **Required Options**

- a. Product specifications in this Invitation may include **H-GAC** "Required Options". If so, **Offeror** must quote a price for ALL such options, and, if there is an **H-GAC** Option Code provided in this Invitation for such options, it MUST be used as part of the description.
- b. For any specific "Required Option", **Offeror** may quote an equivalent so long as its design and performance are as good as, or better than, the specified option item. Responses which do not include pricing for Required Options may be considered non-compliant.

#### **Other Options**

- a. "Suggested" or "Other" options may be listed for any particular Product in this Invitation, and **Offeror** is encouraged to quote pricing for such options. The extent of offered options in any response may be taken into consideration as part of the award criteria, at **H-GAC's** sole discretion.
- b. **Offeror** is encouraged to include options for non-equipment items that may be applicable to a sale, such as: Extended Warranties, Maintenance Agreements, Buy-back or Trade-In Agreements, Out-of-state Delivery Charges, Quantity or Special Discounts, Extended Training Classes, etc.

#### **Published & Unpublished Options**

- a. H-GAC Cooperative Purchasing Program (Program) contracts are awarded through a public competitive bid or proposal (RFP) process. Further to that process, Program policy considers an 'option' listed and priced in a bid or RFP Response: (1) To be a "**Published Option**"; (2) To be part of any awarded contract; and (3) To be available for purchase by Program members separately and independently from associated base line items. However, since Published Options may have not been subjected to the same scrutiny as the associated base line items, it cannot be concluded they were directly competed. Therefore, pursuant to Local Government Code 252.021(a), purchase of a published option costing more than \$50,000 shall not be allowed. Furthermore, **H-GAC** reserves the right at its sole discretion to disallow purchase of any Published Option through the Program if deemed contrary to the intent of the law.
- b. Any option that has not been listed and priced in the Response is considered to be an "**Unpublished Option**". Unpublished Options may be sold, but only in connection with the sale of a base Product Item, and only insofar as the total cost of all Unpublished Options remains below twenty five percent (25%) of the total summed cost of the base Product(s) plus any Published Options.
- c. No Published or Unpublished Option may be sold which essentially converts a Product such that it competes with a Product Item awarded to another contractor.

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## **21. WARRANTIES, SALES & SERVICE**

Unless otherwise addressed in Section B, the following requirements shall apply:

- a. Offeror must be a properly franchised dealer authorized to sell and service, including warranty service, all products offered and sold in response to the bid invitation or under any **H-GAC** contract.
- b. **Offeror** shall provide detailed Parts and Labor Warranty information with the Response. If **Offeror** submits a warranty with the Response which does not meet the minimum requirements herein, **Offeror** agrees by submission of a Response that such warranty shall be considered to be amended to meet those minimums.
- c. Warranties shall be manufacturer's standard and shall be inclusive of any other warranty requirements which may be stipulated elsewhere herein.

- d. Any warranties offered by a dealer shall be in addition to the manufacturer's standard warranty, and shall not be a substitute for such. **Offeror's** base price for any Product shall be inclusive of the standard warranty.
- e. Complete warranty information will be supplied to **End User** with each Product sold.
- a. Warranties need not apply to normal maintenance service or adjustments, or to any product reasonably shown to have been repaired or altered in any way so as to affect its stability, or to any product which has been subject to misuse, negligence, or accident.
- f. **Offeror/Contractor** is encouraged to offer extended warranties as an option.
- g. Neither **H-GAC** nor **End User** assume any warranty or liability on **Contractor's** behalf unless made or assumed in writing, initiated by **Contractor**, and agreed to in writing by **H-GAC** or the **End User** respectively.
- h. **Contractor** shall be responsible for the execution and effectiveness of all product warranty, and shall be the sole source for solution to problems arising from warranty claims. **Contractor** agrees to respond directly to correct warranty claims and to ensure reconciliation of warranty claims that have been assigned to a third party.

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## 22. H-GAC ORDER PROCESSING CHARGE

**H-GAC** will levy an Order Processing Charge on **Contractor** for each sale done thru the **H-GAC** contract, with the exception of orders for motor vehicles. Any bid pricing submitted will be considered to include the Charge. The amount of the applicable charge shall be per the most current **H-GAC** schedule. For motor vehicle orders, the Processing Charge shall be levied on and paid by the **End User**.

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## 23. PRE-PAYMENTS AND DISCOUNTS

- a. Progress, pre-payment and special discounts of any kind may be offered and detailed in the Response. Such discounts shall be clearly explained, but shall not be a determining factor in awarding contracts except in the case of tie offerings.
- b. Quantity discounts applicable to similar Products sold to one or more **End User** Departments may be offered. Determination as to product similarity shall rest solely with **Contractor**.
- c. For specific purchases, any proposed quantity, pre-payment or special discounts shall be clearly shown on the Contract Pricing Worksheet.

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## 24. INSPECTION / TESTING

All Products sold pursuant to this Invitation shall be subject to inspection/testing by or at the direction of **H-GAC** and/or the ordering **End User**, either at the delivery destination or the place of manufacture. In the event a Product fails to meet or exceed all requirements of this Invitation, and unless otherwise agreed in advance, the cost of any inspection and/or testing, shall be borne by the **Contractor**.

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## 25. PRODUCT DELIVERY

Unless otherwise addressed in Section B, the following requirements shall apply:

- a. Title to goods, and responsibility and liability for loss and/or damage in shipping pass to **End User** at the delivery destination after receipt and acceptance have taken place. Cost of shipping/delivery shall be paid by **End User** unless otherwise agreed to by **Contractor**. If **Contractor** will be paying for shipping/delivery, shipping terms must be "F.O.B. Destination, Freight Prepaid". If **End User** will be paying for shipping/delivery, shipping terms must be "F.O.B. Destination – Freight Collect".
- b. The details for the application and calculation of shipping and delivery charges must be stated in the Response on **Form E**. Any freight, shipping or delivery charged to **End User** will be prepaid and added to the invoice, and will be clearly shown on any Contract Pricing Worksheet or other quote presented to the **End User**.
- c. The estimated delivery time after receipt of order (ARO), inclusive of Saturdays, Sundays and holidays, for all Products offered must be stated in the Response. Actual delivery for any particular order must be confirmed with **End User** at time of order placement, and must be stated clearly on the Contract Pricing Worksheet.
- d. **Contractor** shall be responsible for delivery and Acceptance according to the requirements of the Contract and the Purchase Order.
- e. **Contractor** shall advise **End User** prior to making any shipment/delivery, and shall make such shipment/delivery in accordance with **End User's** requirements, providing only that such arrangements do not contravene any requirement of the **H-GAC** contract unless agreed to by **Contractor**.
- f. The execution of all required tests, certifications and/or licensing, and costs thereof, shall be the responsibility of **Contractor**. Upon request by **End User** or **H-GAC**, **Contractor** shall provide any documentation or certification related to such tests, certifications or licensing.

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## 26. OFFERED PRODUCT ITEM VARIANCES

Any variance in the specifications or performance of Products offered pursuant to this Invitation shall be acceptable to **H-GAC** only insofar as it **MEETS** or **EXCEEDS** the specifications and requirements of this Invitation.

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## 27. REQUIREMENTS FOR SUBMISSION OF A RESPONSE

Unless otherwise addressed in Section B, the following requirements shall apply:

- a. Responses shall be submitted in two complete printed sets including an Original and one (1) Copy in separate "hard side" three-ring binders. The outer spine of each binder shall be labeled showing this Invitation No., **Offeror** Name, and either "Original" or "Copy", as applicable. The Original printed response will be considered to be the binding Response in case of any conflicts between printed copies and electronic copies. Except for required forms, **H-GAC** Invitation documents should not be included in the Response.
- b. The Original and the Copy shall be submitted complete, except that the Electronic Media should be submitted only with the Copy.
- c. All required **H-GAC FORMS** and documents shall be properly completed, without exception or Offeror's Response may be deemed non-compliant. **Offeror** may not modify the format of any **H-GAC FORM** in any way. **Offeror** may photocopy or print blank **FORMS** as needed. Information submitted on the printed copies of the **FORMS** may not be handwritten except for signatures and initials. It is **Offeror's** responsibility to insure that printed **FORMS** are clear and legible. Handwritten and illegible entries may be rejected. **Offeror's** printed, stamped or typed name shall appear on every **FORM** submitted in the Response.
- d. The entire response submission shall also be submitted on electronic media, including all required **H-GAC FORMS**. **Offeror** is strongly advised to make and work with copies of the original electronic **FORMS**. The originals can then be used to make additional electronic or printed copies of the blank **FORMS**. Signatures are not required on the electronic **FORMS**.
- e. The Response shall include ample written evidence, in the form of technical specifications, cut/tear sheets, brochures, pictures, drawings, etc., to demonstrate that all specifications herein have been met and/or exceeded.
- f. The Response shall include, in any format desired, an overview of the Service Organization which will support Products sold under any **H-GAC** contract. The overview must include facility locations, phone numbers and Service Manager names, as well as the following:
  - The procedure to be used by an **End User** requiring repairs.
  - Typical turn-around time on repairs.
  - Service Department days and hours of operation.
  - Number of qualified / factory trained service personnel normally on hand.
  - Description of the parts inventory on hand.
  - Training services, facilities and personnel available.
- g. Responses shall be enclosed in a sealed package(s) addressed to the Houston-Galveston Area Council, Cooperative Purchasing. The following information shall be stated on the exterior of the package(s):
  - Name and address of **Offeror**.
  - Date and hour of public response opening.
  - Bid/Proposal Invitation number.
  - The statement: "**SEALED BID/PROPOSAL, DO NOT OPEN IN MAIL ROOM**".**H-GAC** shall not be responsible for any Response not properly labeled.
- h. Submission of a COMPLETE Response by telegraphic or electronic transmission is not acceptable. However, Responses may be modified by telegraphic or electronic notice if such notice is received prior to the deadline for submission.
- i. Samples, when required, shall be submitted within the time specified and at no expense to **H-GAC**. If not destroyed or consumed during testing, samples will be returned upon request at **Offeror's** expense.
- j. **Offeror** shall provide firm contract pricing for all Products and Options being offered.
- k. If applicable, responses shall include copies of all current licensing which may be required by the Texas Motor Vehicle Division for execution of sales pursuant to any contract with **H-GAC**.
- l. Due to the complexity of responses and to aid in evaluation, the Response should contain ALL required information in tabbed sections as detailed below. Omission of any required FORM or information will be sufficient grounds for H-GAC to consider your response to be non-compliant.
- m. **First Section:**
  - **Form(s) A – Offeror Identification & Signatory:** Identifies the offering party(ies), and should be completed by each party to the Response. If awarded, a contract will be executed with each.

- **Form B – Historically Underutilized Business Enterprises:** Used to collect information about disadvantaged and minority suppliers and subcontractors, and to commit **Offeror** to working with Participants toward their program goals.
- **Form C – Response Checklist:** Certification, and also an aid, to insure that all required information has been included in your Response.
- References, formatted as described elsewhere herein.
- Service Organization Document, formatted as described elsewhere herein.

**Second Section:**

- **Form D – Offered Items Pricing:** For Bids, contains the list of the Product Items covered by this Invitation. Select the items offered and fill in the price for each. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)
- **Form E – Published Options:** Used to list and price all offered options. List, each on a separate line, all upgrades, downgrades, optional equipment, features, accessories and services which you desire to sell thru the **H-GAC** contract, if awarded. Published catalogs/price sheets may be listed, along with the discount structure that will apply. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)

**Third Section:**

- Technical Specifications, Product Brochures, Tear Sheets, Cut Sheets, Strippers, etc. which clearly list and show all the standard features and capabilities of each Product Item offered on **Form D**.
- Warranty Documentation, as described elsewhere herein, for all items offered.

**Fourth Section:**

- Copies of any applicable Texas MVD Licenses.
  - Electronic Media, containing the complete response including all required *FORMS*, stored in a pouch or an envelope such that it will not fall out of the binder. (Required in 'Copy' only, not in 'Original'.)
  - **Form CIQ – Conflict Of Interest Questionnaire:** Chapter 176 of the Texas Local Government Code requires vendors and consultants contracting or seeking to contract with **H-GAC** to file a Conflict of Interest Questionnaire (CIQ) if they have an employment or other business relationship with an **H-GAC** officer or an officer's close family member. The required questionnaire is located at the Texas Ethics Commission website: [http://www.ethics.state.tx.us/whatsnew/conflict\\_forms.htm](http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm). It is Bidder's responsibility to download the form and furnish a completed copy with the Response, if it is applicable.
- n. By submittal of Response, **Offeror** certifies to the best of its knowledge that all information is true and correct.

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**28. CLARIFICATION TO SPECIFICATIONS & REQUIREMENTS**

- If **Offeror** is in doubt as to the meaning of any item in this Invitation, a written request for clarification may be submitted to **H-GAC** up to fifteen (15) calendar days prior to the deadline for response submission. **H-GAC** shall not be responsible for late delivery. Requests may be transmitted by FAX or e-mail to the assigned Specification Specialist, and should clearly reference this Invitation number and the specific page and paragraph in question. If there are multiple questions, they should be stated separately and numbered.
- Any interpretation of Invitation documents, if made, will be by written Addendum duly issued. A copy of such Addendum will be mailed or delivered to each person officially on record as having been sent a copy of this Invitation. **H-GAC** will not be responsible for any other explanation or interpretation of the Invitation documents made or given prior to the award of the contract.
- Any objections to the Invitation documents must be filed in writing with **H-GAC** on or before fifteen (15) calendar days prior to the deadline for submission of responses.
- Prospective offerors are advised that, after a draft specification has been issued, the Pre-Bid/Proposal Conference is the primary forum through which comments and suggestions may be offered for consideration by **H-GAC** prior to issuance of the final invitation and specifications.
- All best efforts have been made to insure that the product/service descriptions and associated specification information in Sections B & C are correct, and adequate time has been given to prospective Offerors to point out mistakes. However, if an error remains and is caught by Offeror before the scheduled bid/proposal opening, Offeror shall make note of the required correction in the Response, and shall also notify **H-GAC** prior to the opening of responses.

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## 29. INCONSISTENT INFORMATION

**H-GAC** review of responses supplied on **H-GAC FORMS** is a significant part of the evaluation process. **Offeror** shall state clearly all information required on the **FORMS**. **Offeror's** information supplied on the **FORMS** shall take precedence in the event any standard “boilerplate” type language included in **Offeror's** response is inconsistent with the information supplied by **Offeror** on the **H-GAC FORMS**. In all cases, information on **H-GAC's** printed **FORMS** supplied as part of **Offeror's** response shall take precedence over information supplied on electronic media.

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## 30. REJECTION OF RESPONSES

- a. **H-GAC** may reject a response if:
  - **Offeror** misstates or conceals any material fact in the Response, or if,
  - **Offeror** does not strictly conform to law or the requirements of this Invitation.
- b. **H-GAC** may reject any and all responses, and may reject any part of a response.
- c. **H-GAC, at its sole discretion,** may also waive any formalities or irregularities in any response, or ask for corrected information except for pricing.

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## 31. WITHDRAWAL OR MODIFICATION OF RESPONSES

Once received by **H-GAC**, responses may be modified or withdrawn prior to the submission deadline only if the request to do so is in writing submitted by **Offeror's** authorized representative. Responses and requests for modification received after the submission deadline will not be accepted. Requests for response withdrawal received after the submission deadline will be accepted if the request to do so is in writing submitted by **Offeror's** authorized representative.

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## 32. RESPONSE EVALUATION

### For Bid Responses:

- a. Section B will state whether the contract will be awarded to the lowest responsible bidder or to the bidder who provides goods or services at the best value for **H-GAC** and its participants.
- b. If the contract will be awarded based on best value, Section B will state any relevant criteria which **H-GAC** will consider.
- c. For each offered Product Item, **H-GAC** may use the offered price, prices for Required Options, and the prices of selected common Published Options to determine the lowest responsible offer.
- d. Failure of **Offeror** to submit pricing for frequently purchased options and any **H-GAC** required options may cause response to be considered non-compliant at **H-GAC's** sole discretion.

### For Proposal Responses:

- e. **H-GAC** will evaluate proposals as detailed in Section B.
- f. By submission of a Response **Offeror** indicates acceptance of the evaluation technique, and recognizes and accepts that **H-GAC** may at its sole discretion make subjective judgments during the evaluation process.

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## 33. ORDER OF PRECEDENCE PRIOR TO CONTRACT AWARD

In the event of conflict between this document and any references or documents cited herein, this document shall take precedence prior to contract award.

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## 34. AWARD OF CONTRACT

- a. **H-GAC** reserves the right to accept or reject any Product Item or option offered. Additionally, all options included in **Offeror's** response and accepted by **H-GAC** are understood to be included in any contract.
- b. **H-GAC** shall award contract(s) for line items or groups of line items, at its sole discretion.
- c. With authority granted by the **H-GAC** Board of Directors, a written contract shall be presented to the successful **Offeror(s)** and shall be subject to acceptance by the successful **Offeror(s)** within thirty (30) calendar days after presentation by **H-GAC**. If a contract is not executed within thirty (30) calendar days, **H-GAC** may rescind the contract offer and award a contract to the next **Offeror** in order of rank as determined by **H-GAC**.
- d. Delivery time and prompt payment discounts, including time allowed for payment, may be considered in tie-breaking of offers which are judged by **H-GAC** to be equal in all other criteria.
- e. The contract shall include the following documents in the stated order of precedence:

- 1st** The contract document signed by **H-GAC** and **Offeror**.
- 2nd** This Invitation and all specifications referenced herein.
- 3rd** **Offeror's** response to this Invitation.

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### **35. PRO-FORMA CONTRACT**

This Invitation includes a Pro-Forma (sample) Contract which successful offerors will be expected to sign. The actual final contract will be the same or nearly the same as the Pro-Forma. NOTE: Successful Offerors MAY NOT process any purchase orders until the contract documents have been executed and returned to **H-GAC**.

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### **36. CONTRACT TERM**

The contract shall be in effect throughout the period stated elsewhere in the contract documents, and thereafter until such time as any outstanding orders against the contract have been fulfilled. The contract may be extended if deemed by **H-GAC** to be in the best interests of the Program, and subject to mutual agreement of the parties.

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### **37. PERFORMANCE & PAYMENT BOND**

**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.

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### **38. CHANGE ORDERS**

**End Users** shall have the right to make additions by addenda for the purpose of clarification or inclusion of additional specifications, qualifications, conditions, etc. Any such addenda shall be made in writing and agreed upon by **Contractor** and the **End User** agency prior to issuance of any Change Order. A copy of any such Change Order shall be furnished by **Contractor** to **H-GAC**.

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### **39. DUPLICATION OF TERMS OR STATEMENTS**

Where statements or terms are duplicated or are extremely similar, **H-GAC** and the **End User** reserve the right to use the statement or term most favorable to **H-GAC** and/or the **End User**.

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### **40. PUBLICITY**

**H-GAC** encourages contractors to "market" the Program, and can provide some information and artwork to be used in published promotional materials. However, any publicity or published material released by **Contractor** referencing the contract, whether in the form of a press release, brochure, photographic coverage, or verbal announcement, shall be issued only with prior review and approval by **H-GAC**.

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### **41. TAXES**

**HGAC** and **End User** participants are either units of government or qualified non-profit agencies, and are generally exempt from Federal and State sales, excise or use taxes. **Offeror** shall not include any such taxes in the Response. Further, it shall be the responsibility of **Contractor** to determine the applicability of any taxes to a particular order and act accordingly. Exemption certificates will be provided upon request.

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### **42. DRUG FREE WORKPLACE**

**Contractor** shall provide notice to its employees and sub-contractors, as required under the Drug-Free Workplace Act of 1988. A copy of **Contractor's** Drug-Free Workplace policy shall, on request, be furnished to any **End User**.

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### **43. PRODUCT NOTICES & MAILINGS**

**H-GAC** is NOT the owner of Products sold pursuant to this Invitation, but acts only in the capacity of purchasing agent. In that regard, **Contractor** accepts sole responsibility for insuring that notices and mailings, such as Safety Alerts, Safety Recall Notices and Customer Surveys, are sent directly to the **End User** of record.

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### **44. HANDLING OF ORDERS & PAYMENTS**

In general, orders and payments will be handled as described below. More specific instructions and information regarding handling of purchase orders and the Order Processing Charge may be provided after contract award. Established procedures may be changed at any time by **H-GAC** as may be dictated by efficient business practice.



The particulars of any sale, e.g. specific products, pricing, delivery, warranty, etc., will be in strict accordance with the terms and conditions of this Invitation and the specific contract awarded to **Contractor**. Beyond that:

- a. For any particular procurement to be made under the provisions of an **H-GAC** contract, **End User** and **Contractor** will discuss requirements and agree as to what will be provided.
- b. **Contractor** will prepare a Contract Pricing Worksheet and provide it to **End User**. The Worksheet will list everything being purchased including the base bid item(s), all published and unpublished options and the delivery date. All pricing shall be per the current contract.
- c. **End User** will send a purchase document to **Contractor**, which **Contractor** will fax **H-GAC** together with the Contract Pricing Worksheet. **NOTE: Contractor** agrees not to offer, agree to or accept from **End User** any terms or conditions that conflict with or contravene those in **Contractor's H-GAC** contract, except for pricing discounts.
- d. **H-GAC** will prepare an "Order Confirmation" and transmit it to **End User** and to **Contractor**. The Order Confirmation verifies that **Contractor** has a valid **H-GAC** contract and that the order is in compliance with the requirements of the **H-GAC** Cooperative Purchasing Program. **Contractor** will not ship any goods before receipt of both **End User's** purchase document and **H-GAC's** Order Confirmation.
- e. On notification that **Contractor** has received an order, **H-GAC** will invoice **Contractor** for the applicable Order Processing Charge. **NOTE: The Order Processing Charge is charged to Contractor, EXCEPT in the case of motor vehicles.** For all sales of motor vehicles the Order Processing Charge is levied on the **End User**, collected by **Contractor**, and remitted to **H-GAC** by **Contractor**.
- f. **Contractor** will deliver products/services ordered, and will invoice **End User** for products/services accepted by **End User**. (See other Sub-Section herein dealing with Product Delivery.) **Contractor** will not invoice before shipment has been made.
- g. **End User** will pay **Contractor** for those products and/or services ordered which have been received and accepted. Under no circumstances shall any check be made payable to a representative or agent. Should a representative or agent submit an invoice to **End User** for any cost related to a purchase order issued to **Contractor** for products/services covered by an **H-GAC** contract, such invoice shall be forwarded to **Contractor** and **Contractor** will take action to correct the error.
- h. Upon delivery of any product/service by **Contractor** and acceptance by **End User**, **Contractor** shall remit to **H-GAC** the full amount of the applicable Order Processing Charge in accordance with the payment terms established in the **H-GAC** contract. Note, the Order Processing Charge is due whether or not **Contractor** has ever received an invoice from **H-GAC**. Sales executed based on the particulars of **Contractor's H-GAC** contract, without payment of the Order Processing Charge, may constitute fraud.

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#### 45. PRICE CHANGES

- a. Any permanent increase or decrease in offered pricing for a base contract item or published option is considered to be a price change. Temporary increases in pricing by whatever name (e.g. 'surcharge', 'adjustment', 'equalization charge', 'compliance charge', 'recovery charge', etc.), are also considered to be price changes.
- b. Except in the case of contracted published catalogs and price sheets, prices for Base Bid Items and Published Options are expected to be held firm for a minimum of 90 days from the date an awarded Offeror signs the **H-GAC** contract. Thereafter, changes will be considered if accompanied by justifying documentation satisfactory to **H-GAC**. For published catalogs and price sheets which are on an **H-GAC** contract, requests to amend the contract to reflect any new published catalog or price sheet may be submitted whenever the manufacturer publishes the new document. Any such request must include the new catalog or price sheet.
- c. If **Contractor** routinely offers discounted contract pricing, **H-GAC** may request **Contractor** to accept amended contract pricing equivalent to the routinely discounted pricing.
- d. No price change will be allowed unless it has been reviewed and approved by **H-GAC** in writing. **Contractor** must have received **H-GAC's** written approval of any change prior to charging the new price or using it in any quotation prepared for an **End User**.
- e. Price change requests must be submitted to **H-GAC** in writing and must be received by **H-GAC** at least thirty (30) calendar days prior to the requested effective date of the change, and must state the time period for which the requested pricing will remain firm.
- f. Price change requests shall include **H-GAC Forms D** and **E**, or whatever documentation was used to submit pricing in the original Response hereto, showing all affected items with current contract price, requested price, and percentage change shown clearly for each. This documentation should be submitted in MSExcel format to facilitate analysis and updating of the website.
- g. Price change requests **MUST** be supported with substantive documentation (e.g. manufacturer's price increase notices, copies of invoices from suppliers, etc.) showing that **Contractor's actual costs** have increased. The

Producer Price Index (PPI) may be used as partial justification, subject to approval by **H-GAC**, but no price increase based solely on an increase in the PPI will be allowed.

- h. All Products shall, at time of sale, be equipped as may be required under any then current applicable local, state, and federal government requirements. If, during the course of any contract, changes are made to such government requirements which cause a manufacturer's costs of production to increase, **Contractor** may increase Product pricing to the extent of **Contractor's** actual cost increase. The increase must be substantiated with support documentation acceptable to **H-GAC** prior to taking effect. Modifications to a Product required to comply with such requirements which become effective after the date of any sale shall be the responsibility of the **End-User**.
- i. In cases involving contract extensions exceeding sixty-one (61) days beyond the stated expiration date of the contract, **Contractor** may request a price change based on the same conditions as stated above. However the thirty (30) day prior notice is waived and **H-GAC** will consider the request immediately on receipt.
- j. **H-GAC** reserves the right to accept or reject any price change request. Acceptance, if granted, will be in writing and the approved changes will become part of the contract.

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#### 46. CONTRACT ITEM CHANGES

- a. If a manufacturer discontinues a contracted item, that item will automatically be considered to be deleted from the contract with no penalty to Contractor. However, **H-GAC** may at its sole discretion elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End Users**, at its sole discretion.
- b. If a manufacturer makes any change in a contracted item which does not affect the contract price, Contractor shall advise **H-GAC** of the details. If the 'new' item is equal to or better than the originally contracted item, the 'new' item shall be approved as a replacement. Otherwise **H-GAC** may allow or reject the change, or take any other action deemed by **H-GAC** to be in the best interests of **End Users**, at its sole discretion. If the change is rejected there will be no penalty to Contractor.
- c. If a manufacturer makes any kind of change in a contracted item which affects the contract price, Contractor shall advise **H-GAC** of the details. **H-GAC** may allow or reject the change at its sole discretion. If the change is rejected there will be no penalty to Contractor. However, **H-GAC** may elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End Users**, at its sole discretion.
- d. In the case of specifically identified catalogs or price sheets which have been contracted as base bid items or as published options, routine published changes to products and pricing shall be automatically incorporated into the contract. However, **Contractor** must still provide thirty (30) calendar days written notice and an explanation of the changes to products and pricing. **H-GAC** will respond with written approval.

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#### 47. FORCE MAJEURE

If either party shall be wholly or partially prevented from the performance of any contractual obligation or duty by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident., order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of Force Majeure shall rest solely with **H-GAC**.

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#### 48. PERFORMANCE UNDER CONTRACT

**H-GAC** is committed to insuring that **Contractor** provides effective and efficient service to all Participants in the Cooperative Purchasing Program, and expects that certain Performance Conditions must be met. Failure to meet these conditions may result in contract termination. In that regard, **Contractor shall:**

- a. Appoint a dedicated representative to be the contact person and focal point for all matters relating to End User quotations and orders. The representative shall have: A toll free phone number with voice mail; A fax number; A working e-mail address; and A postal address.
- b. Insure that the representative timely monitors all communication modes listed above, and promptly responds to communications from **End Users** and **H-GAC** in any of these modes. Phone calls will be promptly returned, in any event not later than the next business day. Acceptable failure will be due only to Force Majeure.
- c. Maintain sufficient qualified staff to promptly process all communications from **H-GAC** or **End Users**, and to efficiently, effectively and accurately service all requirements of the contract.
- d. As may be requested by **H-GAC**, replace any staff members who are not providing the service and expertise deemed necessary by **H-GAC** for acceptable support of **End Users**.

- e. Properly prepare and provide to **End User** a Contract Pricing Worksheet, or a quotation in other format as approved by **H-GAC**, for each and every order that is to be executed.
- f. Furnish, on request of **H-GAC**, reasonable data, forms and graphic material to be used in brochures or other print media, or on **H-GAC**'s website.
- g. Allow access to **H-GAC** authorized personnel for inspection of operating facilities, and auditing of purchase orders during the contract period, and for a period extending thru the completion of any outstanding orders. Site inspection may be arranged not less than ten (10) calendar days prior, shall include the names of all participants, and shall be at no expense to **Contractor**.
- h. **Reporting Requirements:**
  - **Contractor** agrees to submit written quarterly reports to **H-GAC** detailing all transactions during the previous three month period. Such reports shall include, but are not limited to the following:
    - **End User** name
    - Product/Service purchased, including Product Code if applicable
    - End User Purchase Order Number
    - Purchase Order Date
    - Product/Service dollar amount
    - **HGACBuy** Order Processing Charge amount
  - Reports must be provided to **H-GAC** in MSEXcel or other acceptable electronic format, and are due by the 30<sup>th</sup> day of the month following the applicable quarter being reported.
- i. Should **Contractor** default in providing Products or Services as required by this Invitation and the contract, recourse may be exercised thru cancellation of the contract and other legal remedies as may be appropriate.

#### 49. IMPLEMENTATION OF INTERNET BASED E-COMMERCE

**H-GAC** Cooperative Purchasing has adopted E-Commerce as part of its business model and maintains an internet website at [www.HGACBuy.org](http://www.HGACBuy.org). At any point in time, various information and process functions may be implemented and made operational thru the website, including but not limited to items such as:

##### Information Items

- Contract information
- Procurement schedules
- Response requirements & specifications
- Product and option item catalog listings
- **End User & Contractor** information

##### Functions

- **End User** product inquiries
- Product configuration and price quotes
- Purchase Orders and Confirmations
- Shipping/Delivery notices
- Invoice generation
- Payment remittances, etc.

All **H-GAC Contractors**, as a condition of contract, will be required to work with **H-GAC** and it's E-Commerce provider(s) to maximize use of E-Commerce within the context of **H-GAC** Cooperative Purchasing business. **Offeror** is encouraged to refer to **H-GAC**'s Cooperative Purchasing web site where additional information can be found. If you have any questions, please contact **H-GAC** for assistance.

#### 50. CONTRACTOR ORIENTATION/TRAINING

**H-GAC** believes that **Contractor's** familiarity with the operational policies and requirements of the Cooperative Purchasing Program is a key factor in achieving **End User** satisfaction. In that regard, the Contact Person listed on **Form A**, or an alternate, shall be required to participate in an **H-GAC** vendor orientation/training as soon as possible after contract award. In addition, any other of Contractor's staff who will be involved in any way with the HGACBuy Program should participate in orientation. The orientation may be presented as a teleconference or webinar, or may be held in **H-GAC**'s offices as may be determined by **H-GAC** and Contractor to be the most efficient and effective form of delivery.

#### 51. LEGAL & CONTRACTUAL REMEDIES

##### RESOLUTION OF PROTESTED SOLICITATIONS AND AWARDS

##### Procedure

Any actual or prospective **Offeror** or **Contractor** who is aggrieved in connection with a purchase transaction may file a grievance. The grievance may be filed at any phase of the procurement. In order for an above mentioned party to enter the grievance process, a written complaint must be sent to the Office Services Manger of **H-GAC** by certified mail which identifies the following:

1. Name, mailing address and business phone number of the complainant.

2. Appropriate identification of the procurement being questioned.
3. A precise statement of reasons for the protest.
4. Supporting exhibits evidence or documents to substantiate any claims.

The grievance must be based on an alleged violation of **H-GAC**'s Procurement Procedures, a violation of State or Federal law (if applicable), or a violation of applicable grant or contract agreements to which **H-GAC** is a party. Failure to receive a procurement award from **H-GAC** in and of itself does not constitute valid grievance. Upon receipt of grievance, the Office Services Manager will initiate the informal resolution process.

#### **Expedited Resolution**

The Procurement Officer or Departmental Manager responsible for the solicitation shall contact the complainant and all interested parties and attempt to resolve the allegations informally within ten (10) working days from date of complaint. If the allegations are successfully resolved by mutual agreement, documentation will be forwarded to the Office Service Manager of the resolution with specifics on each point addressed in the original complaint.

If the Procurement Officer or Departmental Manager is not successful in resolving the allegations, the complaint along with the comments will be forwarded to the Office Service Manager immediately. The Office Service Manager will review all documentation. All interested parties will be given written notice of the date, time, and place of the hearing and an opportunity to present evidence. A written decision will be issued within five (5) working days after the hearing along with notice of appeal rights.

#### **Appeals**

The complainant may appeal the Office Service Manager's decision by submitting a written appeal, within five (5) working days, to the Executive Director of **H-GAC**. The Executive Director, upon receipt of a written notice of appeal, shall contact the complainant and schedule a hearing within ten (10) working days. The Executive Director of **H-GAC** has the option of appointing a Hearing Officer to preside over the hearing. If appointed, the Hearing Officer shall conduct a hearing and forward a summary and recommended resolution to the Executive Director.

The decision reached by the Executive Director or his designee shall be final and conclusive. This decision will be forwarded to the complainant in writing within thirty (30) working days.

The **Contractor** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a Court of competent jurisdiction.

#### **RESOLUTION OF CONTRACT DISPUTES**

Upon breach or default, **H-GAC** shall give the **Contractor** written notice of default. If the default is not remedied, within a reasonable specified time from date of notification, to the satisfaction and approval of **H-GAC**, default will be declared.

Upon breach of contract or default, **H-GAC** may exercise any and all of its rights afforded by law, including but not limited to those referenced in the General Contract Provisions.

#### **SOLICITATIONS OR AWARDS IN VIOLATION OF THE LAW**

Contracts awarded in violation of the competitive process or otherwise in violation of the law are voidable by **H-GAC**.

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#### **52. NATIONWIDE SALES OPPORTUNITIES**

**HGACBuy** provides purchasing services to local governments qualifying non-profits throughout the nation, and desires to make established contracts available to them wherever and whenever practicable. Therefore, once a contract is awarded, **Contractor** is expected to expand the scope of its marketing effort to include sales to **End Users** in all areas of the United States, and/or to assign any **H-GAC** contract to another contractor(s) as deemed appropriate by **H-GAC** in the interest of its End Users.

- **Contractor** may sell through **HGACBuy** anywhere subject to compliance with applicable laws and regulations. If the market structure in which **Contractor** operates requires a contract assignment for any particular sale, **H-GAC** will expect **Contractor** to assign the contract to a Manufacturer or to another Dealer(s). Such assignment must be approved by **H-GAC**.
- **Contractor**'s differential costs (e.g. transportation & delivery charges) and allowances (e.g. manufacturer's sales incentives) related to any sale may be charged to buyer.

<b>End of Section A GENERAL TERMS &amp; CONDITIONS</b>
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**SECTION B – PRODUCT SPECIFIC REQUIREMENTS  
For  
Sewer Cleaning, Hydro-Excavating, Inspection Equipment and Miscellaneous Services**

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**1. INTRODUCTION & SCOPE**

**H-GAC** has established this specification in order to address the potential Sewer/Pipeline Cleaning, Hydro-Excavating, Inspection Equipment and Miscellaneous Services needs of our **Cooperative Purchasing Program (HGACBuy) Members**. The specification and the awards to follow are designed to allow for multiple manufacture and model award, which will afford **HGACBuy Members** the opportunity to shop equipment by price, brand preference or other proprietary, technical aspects.

This Section details specific **H-GAC** minimum requirements and other specifications applicable to the Sewer/Pipeline Cleaning, Hydro-Excavating, Inspection Equipment and Miscellaneous Services covered by this Invitation. The features and performance of any offering must meet or exceed all requirements and specifications listed or referenced herein. For any required feature stated in general terms, it is understood that OEM standard shall meet the requirement.

This invitation covers the following general categories of equipment:

- 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

## 2. DEFINITIONS AND ABBREVIATIONS

**Base Unit:** The basic platform system shall conform to the minimum configurations set forth in Section A and B, as priced on **Form “D”**.

**Explosion Proof:** Refers to the ability of equipment to contain energy released from combustion within a device, while in an explosive atmosphere. An explosive-proof instrument is enclosed in a case designed to withstand an explosion a specified gas or vapor that may occur within it for and to prevent the ignition of a gas or vapor surrounding the enclosure, operating at such an external temperature that a surrounding flammable atmosphere will not be ignited. *Intrinsically Safe* is a certification referring to a design where there is a limit on the energy output by reducing the potential of current below lower explosive limits (LEL), where any spark or thermal effect in a circuit is incapable of causing ignition of a mixture of combustible material in air.

**Lux:** The unit of illumination in the International System of Units (SI). It is defined in terms of lumens per meter squared (an alternative unit is the watt per meter squared ( $W / m^2$ )).  $Lux = W/m^2 \times 683$ .

**Services:** Under this specification, services performed shall be priced per lineal foot and the price shall be all inclusive; (to include all expenses incurred by the Contractor, including all travel, per diem, labor, vehicle, insurance weather delays, etc., with the exception those delays directly caused by the End User.)

**Weatherproof:** Capable of withstand exposure to moisture, rain, wind, heat, and cold without undo wear or a degradation in performance.

## 3. VEHICLE MOUNTED UNITS – VAN OR CAB/CHASSIS REQUIREMENT

Offered vehicle mounted equipment shall be installed by **Contractor** in/on a customer furnished van or cab/chassis, which may or may not be purchased by customer thru another H-GAC contract. Bid pricing shall include all mounting parts, labor, and any required ancillary equipment necessary to provide a complete, fully functional piece of equipment. **Offeror** shall include detailed information in the response as to the minimum acceptable van or cab/chassis requirements necessary for each base item bid (e.g. Van or Truck Model; GVWR, etc.), and must also include a copy of their Texas Converter’s License with the Response.

**Offeror** may also list and price **Contractor** furnished van or cab/chassis options on **Form E**. Such equipment may be sold to **End Users** in states other than Texas pursuant to the laws of that state, and **Contractor** is solely responsible for compliance. Such units may also be sold to Texas **End Users**, provided that **Contractor** is a properly licensed Texas Motor Vehicle Dealer, and **Offeror** must then provide a copy of their Texas Motor Vehicle Dealer License with the Response. In any event, **End Users** shall retain the choice of purchasing the van or cab/chassis thru one of **H-GAC’s** other contracts.

**NOTE:** In the State of Texas, a Franchised Texas Dealer must handle the title work for a new motor vehicle, invoice the customer and collect the entire purchase amount of a new vehicle.

**NOTE:** Outside the State of Texas, it is the contractor’s responsibility to ensure all vehicle sales are in accordance with the motor vehicle laws of the state where the acquisition is made.

## 4. OPTIONS

A complete priced list of available options, accessories and upgrades shall be submitted on **Form E**. In lieu of entering line by line information on **Form E**, **Offeror** may note “See Attached” on **Form E**, and attach a price list or easily identified and dated catalog. Option descriptions should include some sort of code number so that they may be easily identified on a customer quotation and compared to **Offeror’s** Response. The options list or catalog must also be submitted in electronic format. Discounts off the price lists or catalog must be shown on **Form E**.

## 5. DEMONSTRATIONS

**End Users** may require **Contractor** to demonstrate equipment prior to any purchase, at **Contractor’s** sole expense. However, the performance of a demonstration shall not constitute any commitment to purchase.

## 6. FREIGHT CHARGES

The price of all equipment and options offered shall be exclusive of any freight charges. **Contractor** shall detail any applicable freight on the **HGACBuy** Contract Pricing Worksheet, provided to **End User**, as a separate line item relative to any particular order.

**NOTE: Freight charge pricing shall be quoted on Form E or shown in a way that is easily calculated.**

## 7. MAINTENANCE AND REPAIR

**Offeror** shall price maintenance contract and warranty options on **Form E**.

## 8. TRAINING

With each sale, **Contractor** shall provide **End User** with adequate training which, at the very least, shall be comprised of a detailed owner's manual or CD providing instruction for the operation and maintenance of the equipment. The price of this item(s) shall be included in the base bid price. Additionally, **End Users** must have an ongoing opportunity for communication with an engineer, sales engineer, or qualified technician beginning at the time of delivery and extending for the life of each item sold. Other available factory and/or on-site training programs shall be listed on **Form E**.

## 9. STANDARD FEATURES & SPECIFICATIONS

**Important:** For each base Product Item offered on **Form D**, **Offeror's** Response shall include a technical sheet(s) which details the standard equipment specifications, performance capabilities, and standard features for the offered product item.

**NOTE: At no time shall this contract be used for the purchase of used or previously owned equipment. Purchases shall always be for the most current make/model of equipment.**

## 10. COMPETITIVE PRICING

By submission of a response, **Offeror** certifies that offered pricing is as good as or better than pricing offered to local government customers thru any other program under normal circumstances. If such is not the case, **Offeror** shall explain how offered pricing differs from "best" pricing, and by how much.

## 11. CONTRACT AWARDS

One or more contracts may be recommended in each of the listed **H-GAC** Product Categories, at **H-GAC's** sole discretion. Offerings made by a single Bidder in more than one Category will be considered separately. Upon approval of award recommendation(s) by the **H-GAC** Board, a contract may be offered to the recommended awardee(s). If the parties are unable to come to agreement on a contract, **H-GAC** may award a contract to the next lowest bidder or withdraw the offer at **H-GAC's** sole discretion.

## 12. BID RESPONSE REQUIREMENTS

1. Dealers submitting responses must be authorized, under written franchise agreement with the manufacturer, to sell and service (including warranty work) any product offered hereunder.
2. **Offeror** MUST submit the **Service Organization** document required by Section A, Sub-section 27.f. Further, the Service Organization document must include a detailed description of the geographic area in which **Offeror** is authorized to sell and service any equipment bid.
3. By submission of a response, **Offeror** agrees to assign any **H-GAC** contract to an authorized dealer if required to effectively satisfy and service an **End User** outside **Offerors** authorized territory.
4. An Order Processing Charge of 1.5% will be levied on Contractor for all orders processed through the **HGACBuy** Program pursuant to this procurement. On receipt of payments from **End User**, Contractor shall promptly remit the Order Processing Charge to **H-GAC**.



**NOTE: Offerors are responsible for taking the 1.5% Order Processing Charge into account when determining bid pricing.**

### 13. MANUFACTURERS PARTICIPATING DEALER LIST

As part of the Response hereto, **Offeror**, if a manufacturer, must list **Authorized Dealers** who will participate in any subsequently executed **H-GAC** contract. This means that listed **Dealers** will be authorized to provide **HGACBuy** contract price quotes and service (including warranty work).

The **Authorized Dealers List** should include the following information:

- Dealer Name,
- Tax ID Number,
- Contact Person Name (for servicing customers),
- Contact Address,
- Contact Phone
- Contact Fax
- Contact Email
- Dealer Geographic Area Covered

Thereafter, **Contractor** shall:

- Keep the **Authorized Dealers List** current by notifying **H-GAC**, in writing, when dealers are added or removed.
- Provide all **Authorized Dealers** a copy of this Invitation, the Response and the Contract.
- Work with **H-GAC** to insure that **Authorized Dealer** personnel are thoroughly orientated on all procedures applicable to **HGACBuy** business.
- Agree that only products covered by the **HGACBuy** contract will be sold to **HGACBuy Members**.
- Inform **H-GAC** of any changes to pricing and products offered through the contract according to the terms and conditions of the contract.
- Provide quarterly reports to **H-GAC**, upon request, including details of all **HGACBuy** sales made by **Authorized Dealers** pertaining to the quarter requested.
- Remain liable under the contract for the performance of all **Authorized Dealers**.
- Agrees to maintain a single point of contact as liaison for **Members** and website.

### 14. GENERAL EQUIPMENT SPECIFICATIONS & REQUIREMENTS

The following sub-sections contain applicable minimum general design and performance requirements for Product Items covered by this Invitation. In the case of any offered Product Item for which there is no sub-section following, the manufacturer's standard specifications and features shall be understood to be the minimum requirements. Items noted as "OPTIONAL" need not be included with the base bid item, but if included shall meet the minimum requirements stated.

#### **A. Sewer/Pipeline Cleaners, Centrifugal Compressor Fan Type, Truck Mounted**

This Equipment shall be used for removing sand, stones, bottles, cans, grease, sludge and other debris from sanitary sewer and/or storm drain lines and basins by the flushing action of high-pressure water. It shall include an air conveying **Fan** type vacuum system powered by the chassis or auxiliary engine, a high-pressure water pump, and an enclosed and sealed body for storage of the collected debris. Each unit delivered shall be furnished with a **certified weight ticket** that verifies it meets the GVWR of the chassis selected, showing the weight of the unit(s) with operator, fuel, and water tanks full. No unit delivered shall be overweight on any axle. Volumetric water load shall be calculated at 8.4 pounds per gallon.

#### **Standard Features:**

- Hydrostatic or Hydraulic Drive
- Hydraulic door locking system with a minimum of four (4) locks.



- Hydraulic dump body cylinder or scissor type, rising to a minimum of 45°.
- Fluid draining system for removing access liquids in the debris storage tank.
- A debris flush-out system.
- Water tank with a minimum of 10-year warranty.
- Vacuum system capable of 0 to 8000 CFM and at a minimum depth of 75 feet.
- Wet/dry type compressor with a manufacturer's standard warranty.
- Minimum 8" I.D. vacuum tube.
- Water pump capable of working at a minimum of 35 GPM.
- 600' of 1" ID rodder hose, min. operating pressure 2500 PSI, w/ hose footage counter and level wind guide.
- Hydraulic hose reel.
- Manhole cleaning system with quick connects coupler and 35' of 1/2" reinforced hose.
- Large weather-sealed toolbox, minimum dimensions 36"x18"x18".
- Whelen 700C-WBGH revolving light with limb guards or approved equal.
- Ecco 901 electrical back-up alarm or approved equal.
- Operating controls and gauges shall include at a minimum: truck engine throttle, high-pressure water pump on/off, hose reel forward-reverse valve, adjustable hose reel speed control, over speed warning light for water pump, handgun control valves, hose reel extension and rotation controls.

### **B. Sewer/Pipeline Cleaners, Positive Displacement Type, Truck Mounted**

This equipment shall be used for removing sand, stones, bottles, cans, grease, sludge and other debris from sanitary sewer and/or storm drain lines and basins by the flushing action of high-pressure water. It shall include an air conveying **positive displacement** (PD) type vacuum system, a high-pressure water pump, and an enclosed and sealed body for storage of the collected debris. Each unit delivered shall be furnished with a **certified weight ticket** that verifies it meets the GVWR of the chassis selected, showing the weight of the unit(s) with operator, fuel, and water tanks full. No unit delivered shall be overweight on any axle. Volumetric water load shall be calculated at 8.4 pounds per gallon.

#### **Standard Features:**

- Hydraulic door locking system with a minimum of two (2) locks.
- Hydraulic dump body cylinder or scissor type, rising to a minimum of 45°.
- Fluid draining system for removing access liquids in the debris storage tank.
- A debris flush-out system.
- Water tank with a minimum of 10-year warranty.
- PD vacuum system capable of removal of debris at a minimum depth of 75 feet.
- Wet/dry type rotary blower with a manufacturer's standard warranty.
- Water pump capable of working at a minimum of 35 GPM.
- 600' of 1" ID rodder hose, min. operating pressure 2500 PSI, w/ footage counter and level wind guide.
- Hydraulic hose reel.
- Manhole cleaning systems, with quick connect coupler and 35' of 1/2" reinforced hose.
- Large weather-sealed toolbox, minimum dimensions 36"x18"x18".
- Whelen 700C-WBGH revolving light with limb guards or approved equal.
- Ecco 901 electrical back-up alarm or approved equal.
- Operating controls and gauges shall include at a minimum; truck engine throttle, high-pressure water pump on/off, hose reel forward-reverse valve, adjustable hose reel speed control, over speed warning light for water pump, handgun control valves and hose reel extension and rotation controls.

### **C. Jet Rodders, Truck & Trailer Mounted**

Equipment in this category shall be used for the dislodging of blockages caused by stones, bottles, cans, grease, sludge and other debris from sanitary sewer and/or storm drain lines by the flushing action of high pressure water. Each machine shall be equipped with a self contained, separate water supply as the water source for the high-pressure pump, and shall be capable of being operated by one person. All operating controls for high-pressure water, hose reel, and engine RPM shall be located at the operator's station. The unit shall be self-contained and mounted on either a cab/chassis or trailer, as outlined in the product code listing. Trailers will be furnished and considered as part of the overall equipment. Each unit delivered shall be furnished with a **certified weight ticket** that verifies it meets the GVWR of the chassis selected, showing the weight of the unit(s) with operator, fuel, and

water tanks full. No unit delivered shall be overweight on any axle. Volumetric water load shall be calculated at 8.4 pounds per gallon.

**Standard Features, Trailer Models:**

- Water pump with a full flow adjustable Relief Valve.
- Water tanks, w/level sight gauge, capable of being filled with a hydrant fill hose, min 10-year warranty.
- Minimum 25' hydrant hose with hydrant wrench.
- 3-cyl. Turbo-charged diesel engine w/ high temp low oil pressure automatic shutdown and exhaust silencer.
- Articulating hose reel with a minimum of 400' of high-pressure sewer hose with hose guide.
- DOT Standard Lighting Package.
- Large weather-sealed tool storage box.
- Reel speed control valve, water on/off valve, jet hose in/out control valve, and an engine ignition switch.
- Gauges: water pressure, oil pressure, water temperature, hour meter.
- Electric brakes with safety breakaway.

**Standard Features, Truck Mounted Models:**

- Water pump with a full flow adjustable Relief Valve.
- Water tanks, w/level sight gauge, capable of being filled with a hydrant fill hose, min 10-year warranty.
- Minimum 25' hydrant hose with hydrant wrench.
- Auxiliary engine, if any, shall be diesel with a high temp / low oil pressure automatic shutdown.
- Articulating hose reel with a minimum of 600' of sewer hose and a hose guide.
- Large weather-sealed tool storage box.
- Reel speed control valve, water on/off valve, jet hose in/out control valve, engine ignition switch.
- Gauges: water pressure, oil pressure, water temperature, hour meter.

**Suggested Options For Trailer Mounted Units**

1. 4-cyl aux diesel engine, turbo-charged with high temp & low oil pressure shutdowns and exhaust silencer.
2. Winter re-circulation system.
3. A 100 gallon water tank.
4. A 300 gallon water tank
5. A 600 gallon water tank
6. A 500 CFM PD vacuum system w/ 100-gallon debris body, full opening rear debris door, drain hose and dump valve.
7. An electric throttle.
8. Directional arrow bar mounted at rear.
9. Triplex water pump 2000 psi with a flow rate of 35 gpm.
10. Triplex water pump 3000 psi with a flow rate of 30 gpm.
11. Triplex water pump 4000 psi with a flow rate of 18 gpm.
12. Hose reel with 600' of high-pressure rodder hose with hose guide.
13. Hose reel with 800' of high-pressure rodder hose with hose guide.
14. Hose reel with 1000' of high-pressure rodder hose with hose guide.
15. Hose footage counter.

**Suggested Options For Truck Mounted Units**

1. 6cyl, aux. diesel engine, turbo-charged w/ high temp & low oil pressure shutdowns and exhaust silencer.
2. Winter re-circulation system.
3. A 100 gallon water tank.
4. A 300 gallon water tank.
5. A 600 gallon water tank.
6. A 500 CFM PD vacuum system w/100-gal.debris body, full opening rear debris door, drain hose and dump valve.
7. An electric throttle.
8. Directional arrow bar mounted at rear.
9. Triplex water pump 2000 psi with a flow of 60 gpm.
10. Triplex water pump 3000 psi with a flow of 50 gpm.
11. Hose reel with 600' of high-pressure rodder hose with hose guide.
12. Hose reel with 800' of high-pressure rodder hose with hose guide.
13. Hose reel with 1000' of high-pressure rodder hose with hose guide.
14. Hose footage counter.

### **D. Hydro-Excavators, Truck & Trailer Mounted**

Equipment in this category shall be used primarily for various types of excavating activities, such as slot-trenching, potholing, directional drilling, sign and pole installation, and underground utility and pipe location. Units shall be equipped with a self contained, separate water supply as the water source for the high-pressure pump. The machine shall be capable of being operated by one person, with all operating controls for high-pressure water, vacuum system, and engine RPM located at the operator's station. Each chassis mounted unit delivered shall be furnished with a **certified weight ticket** that verifies it meets the GVWR of the chassis selected, showing the weight of the unit(s) with operator, fuel, and water tanks full. No unit delivered shall be overweight on any axle. Volumetric water load shall be calculated at 8.4 pounds per gallon.

#### **Standard Features, Trailer Models:**

- Water Pump with a full flow adjustable Relief Valve, 3000 PSI @ 2.5 GPM to 4 GPM, or approved equal.
- Water system shall have a handgun wand w/ minimum of 30' of 3/8" hose with a manual hose reel.
- Manufacturer's standard water tank, 60-gal minimum w/ water low water indicator or sensor.
- If water tank is capable of being hydrant filled, unit shall include hydrant wrench and minimum 25' of hose.
- Manufacturer's standard gas or diesel engine w/ electric start and sound dampening or enclosure as provided by manufacturer.
- Debris tank with rear door and full tank override or shutdown per manufacturer's standard.
- Vacuum system with a minimum 300 CFM @ 11" Hg and to include manufacturer's standard pressure safety valve.
- Gauges as required by manufacturer to include as minimum, fuel gauge, hour meter and vacuum pressure.
- Trailer design shall incorporate torsion flex axles or equivalent, welded frame, adjustable hitch, drop-down jack, DOT standard lighting and emergency brake-away brake system. Trailer shall be properly sized for full fluids loading.

### **E. Standard Portable Sewer/Pipeline Inspection Systems**

All camera and related equipment shall be classified as "weatherproof". Base bid portable sewer inspection systems shall include the following components meeting minimum specifications as described.

#### **1. Combination Camera Power Control Unit/Monitor**

A fully integrated camera, lighting, and crawler control unit, built into a portable, protective case, shall be provided. The control unit shall include a built in 7 inch minimum color monitor, alpha/numeric data generator, and video display unit. Front panel controls should ideally include light intensity, tractor speed, video recorder/camera monitor select, crawler direction, and crawler start/stop.

A controller for a scanning or pan & tilt type camera, light intensity, crawler direction (forward, reverse, free wheel), and speed should ideally be provided, with a weatherproof 24 key keyboard.

It shall not be necessary to adjust the camera voltage to accommodate different lengths and types of cable. The AC power input shall include an external, resettable, UL approved, ground fault interrupt. All fuse holders shall contain a spare fuse for easy in field replacement. Other external connections shall include a buffered external video monitor output, a printer output port, audio and video input/output plugs (4).

The built in video display monitor shall be a 7 inch minimum color unit. The video response shall be in excess of 400 lines (horizontal). Front panel controls shall include power on/off, vertical hold, tint, color, brightness, and contrast.

#### **2. Data Display System**

An alpha/numerical video character generator built in to the power control unit shall be provided. It shall generate the alpha-numeric information for display on a system monitor and recording.

A standard keyboard shall be supplied for the entry of alpha-numeric data. Character intensity shall be adjustable from black to white and be able to be positioned anywhere within the visible viewing area. An optional RS-232 serial port shall be available for PC data transfer.

### 3. Small Diameter Pipe Color Inspection Camera

The small diameter pipe color television camera shall be specifically designed to operate in 6 inch pipe and negotiate multiple bends of up to 90-degrees. Accessory equipment shall be included for the inspection of pipes up to 15 inch diameter. Cameras that shall not pass through a short 90-degree turn or a single tee connection with the end connectors and cable in place shall not be acceptable. Camera performance minimums are:

a. Pick up elements:	CCD image sensor
b. Number of Pixels :	768H x 494V EIA
c. Synchronization	Internal crystal control
d. Scanning	2:1 interface
e. Resolution	460 lines
f. S/N Ratio	46 db+
g. Minimum Illumination	3 Lux (1.2F)
h. Video Output	1.0 Volt P-P 75 Ohms
i. Horizontal Sync Frequency	15.734K Hz (EIA)
j. Vertical Sync Frequency	60 Hz (EIA)
k. Power Supply	12VDC 350 milliamps

### 4. Small Diameter Pipe Color Inspection Camera Protective Housing

The camera shall be enclosed in an aluminum, alloy, or stainless steel housing, approximately 1.5 to 3 inches in diameter and 3 to 5 inches long without the connector assembly. The housing design shall allow the camera to negotiate multiple tight 90 degree bends or a single tee connection in a 4 to 6 inch pipe.

The front of the housing shall have a view port of impact resistant, distortion free glass. The rear of the housing shall be equipped with a sealed connector. The housing shall be designed for underwater surveillance and shall be fully sealed at the factory to withstand external pressures without damage or leakage.

### 5. DVD/DVR Video Recording System

An industrial grade video recording system shall be provided to permanently record any selected video transmission from the closed circuit television system. The recorder shall have a minimum recording time of 120 minutes and shall be capable of providing black and white or color playback.

### 6. Integrated TV Cable/Push Rod Assembly (OPTIONAL)

200 feet of ½ inch diameter integrated TV cable/push rod shall be furnished with a waterproof connector, push rod connection and cable strain relief. The integrated cable/push rod shall be of sufficient strength to allow the camera to be pushed or pulled through a minimum of 200 feet of pipe.

The cable shall include sufficient conductors to supply power to the camera and lights, allow for future expansion features and to transmit the video signal along a shielded coaxial cable. The cable shall include a fiberglass or equivalent rod built into the center of the cable that shall provide a minimum of 5,000 pounds tensile strength. Systems using a separate TV cable and separate push rod to perform a lateral connection inspection shall not be acceptable. The outer jacket of the cable shall be constructed of abrasion resistant low drag coefficient nylon, or comparably performing material.

The cable end connector/assembly shall be specifically designed to transfer the cable strength to the camera. It shall be equipped with a flexible coupling to allow the camera to turn and rotate to negotiate multiple 90 degree bends or a single tee connection.

A wheeled coiler shall be supplied to store the integrated TV cable/push rod and allow easy insertion into the pipe. The coiler shall allow a free wheeling, no drag movement while inserting the cable or retrieving it from the pipe.

### 7. Flexible Video Cable

A minimum of 350 feet continuous length of fiber single or multi-conductor TV cable shall be furnished with a waterproof connector and cable strain relief. The TV cable shall be specifically designed for sewer inspection service. The cable shall provide the video signal, power to the camera and power to the lighthouse. A shielded coax shall be provided for the video signal. A fiber strength member braid shall encase the conductors inside the outer jacket providing a break point meeting acceptable industry standards. The outer jacket of the cable shall be nylon, or comparable, to reduce cable drag and wear in the pipe.

**8. Motorized Flexible Video Cable Dolly (OPTIONAL)**

A pneumatic wheeled dolly shall be supplied to store the flexible video cable. It shall have sufficient capacity to hold up to 1,000 feet of flexible video cable. The dolly frame shall employ lightweight tubular construction and contain a video cassette recorder compartment and 1 or more equipment shelves. The dolly reel shall provide free wheel cable discharge and be equipped with an electric 1/4 HP motor to facilitate ease in cable retrieval. The electric motor shall be controlled with a variable speed controller to allow for controlled retrieval. The dolly shall be equipped with 2 pneumatic wheels for easy handling

**9. Footage Counter**

A footage counter assembly shall be furnished on the coiler and dolly reel that shall accurately record the distance that the camera has moved in feet and tenths of a foot.

**10. Transporter/Crawler**

The system shall be equipped with a self-propelled single or multi-conductor camera transporter designed for inspection of reduced ID 6 inch pipe up thru 8" pipe. It shall operate through a minimum of 500 feet of cable and shall have sufficient power and traction to inspect a distance the full length of the cable.

The transporter shall be equipped with a four-wheel minimum or track drive system designed to match the contour of the pipe to guarantee maximum traction in each pipe size. The heavy duty drive motor shall be specifically designed to meet all power requirements of the system. The motor shall be mounted in a heavy duty water proof housing. The speed and direction of the transporter shall be controlled from the control console. The controller shall be equipped with an ON/OFF switch, an ON indicator light, a directional switch to control the Forward and Reverse movement of the transporter and a speed control.

**11. Adjustable Skid for 8 To 15 Inch Pipe (OPTIONAL)**

A skid may be provided for inspecting 8 to 15 inch pipe ranges. Extension plates, adjusting plates and wheels shall attach to the base of the skid and shall be used in different combinations to accommodate larger pipe sizes.

**12. Cable Manhole Guide System**

A flexible cable guide assembly shall be furnished to protect the TV cable from damage during inspection operations in the pipe. A manhole top roller assembly shall be supplied to guide the cable entry at the manhole ground rim. The complete guide system shall be designed for quick installation from above the ground.

**F. Explosion-Proof Portable Sewer/Pipeline Inspection Systems**

All camera and related equipment shall be classified as "weatherproof" and certified to be explosive-proof. This system's camera, crawler, lighting, and other subsurface components shall be capable of operating safely in environments containing combustible liquids or gases. The Base Unit portable explosion proof sewer inspection system shall include the following components meeting minimum specifications as described.

**1. Combination Camera Power Control Unit/Monitor**

A fully integrated camera and lighting control unit, built into a portable, protective case, shall be provided. The control unit shall include a built-in 9 inch minimum solid state color monitor with a monitor sun shield (hood) and industrial recorder for video.

The AC power input shall include an external resettable, UL approved, ground fault interrupt (GFI) and a line fuse with illumination indication of "blown" condition. The control unit shall be equipped with a main power on/off switch with an indicator light, AC fuse compartment with built-in spare fuses, video input and output connections, remote focus control, plug in for optional video keyboard and footage counter.

It shall not be necessary to adjust the camera voltage to accommodate different lengths and types of cables (flexible or integrated push/rod). The unit shall be equipped with a solid state, electronically controlled power supply that is designed to detect faults, shorts, and voltage overload conditions. Upon detection of a fault, the system automatically powers down the control unit. When the fault is corrected, the system shall automatically power up the unit for normal operations.

The camera light power shall be from an isolated power supply that shall regulate the voltage. The light intensity control shall be located on the front panel of the control unit. The unit shall be equipped with a

low/high light switch to allow use of the standard lighting system for small pipe and an optional lighting system for larger pipes.

The built-in video display monitor shall be NTSC standard with video response in excess of 400 lines (horizontal). The front control panel shall include power on/off switch, monitor adjustment controls, rod/cable selection controls, and camera controls for rotate, focus, zoom and auto iris.

The case shall be padded with ½ inch of shock absorbing poly foam and fitted with reinforced corners. The carrying case shall include a pocket to store the optional video keyboard.

A Twenty four (24) hour clock/date display along with cable length readout shall be available for display on the monitor screen. The remote camera video and survey text shall be in the control unit and available in composite video for transfer to the video recorder. A joystick must be provided for full camera viewing control that allows the user to select any field of view.

An optional RS-232 serial port shall be available for data transfer to a PC.

## 2. Small Diameter Pipe Color Inspection Camera

The small diameter pipe color television camera shall be specifically designed to operate in at least 6 inch pipe and negotiate multiple bends of up to 90 degrees. The camera shall be capable of scanning a full 360 degrees enabling the user to view the entire internal pipe perimeter. This capability shall be available without the use of any external moving parts. Accessory equipment shall be included for the inspection of pipes up to 76 inch diameter. Cameras that won't pass through a short 90 degree turn or a single tee connection with the end connectors and cable in place are not acceptable. A dedicated joystick must be provided for user control of camera view. Camera performance minimums are:

a. Pick up elements	CCD Image Sensor
b. Number of Pixels	768H x 494V EIA
c. Synchronization	Internal crystal control
d. Scanning	2:1 Interlace
e. Resolution	300 horizontal/400 vertical
f. S/N Ratio	46 db+
g. Minimum Illumination	2.0 lux
h. Video Output	1.0 Volt P-P 75 Ohms
i. Horizontal Sync Frequency	15.734K Hz (EIA)
j. Vertical Sync Frequency	60 Hz (EIA)
k. Power Supply	12VDC 350 milliamps
l. Focus	Motorized remote control
m. Field of View	90 degrees
n. Scanned Angle	170 degrees

## 3. Small Diameter Pipe Color Inspection Lighthouse

The front housing shall include a lighthouse. The lighthouse shall be integral mounted for the forward viewing and the illumination from the lighthouse pods. The lamps shall provide ample lighting in 6 inch minimum pipe. The lamps shall be recessed and encapsulated in clear resin within the lighthouse to prevent damage from obstacles in the pipe.

The lighthouse shall be protected from the camera body with a thermal insulating barrier to minimize heat transfer. Color cameras that are not properly protected from lighthouse heat resulting in a washed out picture, or requiring shut down after two 2 hours at maximum voltage, are not acceptable.

## 4. Small Diameter Pipe Color Inspection Camera Protective Housing

The camera shall be enclosed in a high strength aluminum, alloy, or steel housing approximately 4 inches in diameter and 9 inches long without the connector assembly. The housing design shall allow the camera to negotiate multiple tight 90 degree bends or a single tee connection.

The front of the housing shall have a view-port of impact resistant, distortion free optical glass. The housing shall be designed for underwater surveillance and shall be fully sealed at the factory to withstand external pressures in excess of 150 PSI without damage or leakage.

**5. DVD/DVR Recording System**

An industrial grade recording system shall be provided to permanently record any selected video transmission from the closed circuit television system. It shall have a minimum recording time of 120 minutes, and be capable of providing black and white or color playback.

**6. Integrated TV Cable/Push Rod Assembly (OPTIONAL)**

200 feet of ½ inch diameter integrated TV cable/push rod shall be furnished with a waterproof connector, push rod connection and cable strain relief. The integrated cable/push rod shall be of sufficient strength to allow the camera to be pushed or pulled through a minimum of 200 feet of pipe.

The cable shall include sufficient conductors to supply power to the camera and lights, allow for future expansion features and to transmit the video signal along a shielded coaxial cable. The cable shall include a fiberglass or equivalent rod built into the center of the cable that shall provide a minimum of 5,000 pounds tensile strength. Systems using a separate TV cable and separate push rod to perform a lateral connection inspection shall not be acceptable. The outer jacket of the cable shall be constructed of abrasion resistant low drag coefficient nylon, or comparably performing material.

**7. Flexible Video Cable**

A minimum of 350 feet continuous length of fiber single or multi-conductor TV cable shall be furnished with a waterproof connector and cable strain relief. The TV cable shall be specifically designed for sewer inspection service. The cable shall provide the video signal, power to the camera and power to the lighthouse. A shielded coax shall be provided for the video signal. A fiber strength member braid shall encase the conductors inside the outer jacket providing a break point meeting acceptable industry standards. The outer jacket of the cable shall be nylon, or comparable, to reduce cable drag and wear in the pipe.

**8. Motorized Flexible Video Cable Dolly (OPTIONAL)**

A pneumatic wheeled dolly shall be supplied to store the flexible video cable. It shall have sufficient capacity to hold up to 1,000 feet of flexible video cable. The dolly frame shall employ lightweight tubular construction and contain a video cassette recorder compartment and 1 or more equipment shelves. The dolly reel shall provide free wheel cable discharge and be equipped with an electric 1/4 HP motor to facilitate ease in cable retrieval. The electric motor shall be controlled with a variable speed controller to allow for controlled retrieval. The dolly shall be equipped with 2 pneumatic wheels for easy handling

**9. Footage Counter**

A footage counter assembly shall be furnished on the coiler and dolly reel that shall accurately record the distance that the camera has moved in feet and tenths of a foot.

**10. Transporter**

The system shall be equipped with a self-propelled single or multi-conductor camera transporter designed for inspection of reduced ID 6 inch pipe up thru 8" pipe. It shall operate through a minimum of 500 feet of cable and shall have sufficient power and traction to inspect a distance the full length of the cable.

The transporter shall be equipped with a four-wheel minimum or track drive system designed to match the contour of the pipe to guarantee maximum traction in each pipe size. The heavy duty drive motor shall be specifically designed to meet all power requirements of the system. The motor shall be mounted in a heavy duty water proof housing. The speed and direction of the transporter shall be controlled from the control console. The controller shall be equipped with an ON/OFF switch, an ON indicator light, a directional switch to control the Forward and Reverse movement of the transporter and a speed control.

**11. Adjustable Skid for 8 To 15 Inch Pipe (OPTIONAL)**

A skid may be provided for inspecting 8 to 15 inch pipe ranges. Extension plates, adjusting plates and wheels shall attach to the base of the skid and shall be used in different combinations to accommodate larger pipe sizes.

**12. Cable Manhole Guide System**

A flexible cable guide assembly shall be furnished to protect the TV cable from damage during inspection operations in the pipe. A manhole top roller assembly shall be supplied to guide the cable entry at the manhole ground rim. The complete guide system shall be designed for quick installation from above the ground.

**13. Explosion Proof Capabilities**

Components described herein shall be certified explosion proof, with a T3 or better temperature class. Furthermore, all equipment must be properly labeled as Explosion Proof, and is considered such if there is attached to it a label, symbol or other identifying mark of a nationally recognized testing laboratory whose labeling indicates compliance with nationally recognized test standards to determine safe use in a specified manner. All proposed equipment should be listed and labeled for use in Class I, division I environments. Documentation for equipment certification must be included with the proposal. FM or UL, or equal, will be acceptable.

### **G. Sewer/Pipeline Inspection Vans & Trailers**

This system shall be comprised of components necessary to equip a standard van or trailer for service as a sewer inspection control center. Proposer shall price all necessary components, per the minimums set forth in the below. All camera and related equipment shall be classified as Weatherproof. Sewer inspection van and video inspection components shall include all the following design and configuration features as a minimum:

#### **1. Van Body Equipment Minimums**

- a. The interior of the van body shall be divided into two areas of operation: TV van control room (operator's station and viewing room) and equipment room (equipment mounting and storage area). A wall to wall bulkhead shall be supplied between the two rooms. The van interior shall be designed so the cab area can be utilized as part of the control room. The van shall be equipped with an external vinyl cover to block light from the front and side door windows during the TV operation.
- b. The generator shall be mounted at the floor level of the van body in an enclosed cabinet with a lockable door. The generator shall be mounted for easy external servicing.
- c. The electrical system shall be fully designed to sustain the complete electrical requirements of all components of the television inspection system. Standard fluorescent lighting and electrical outlets shall be supplied in both the control and equipment rooms. Provisions shall be made for disconnection to the generator power supply and reconnection to a commercial 120 volt house power supply through an exterior connection mounting. A power extension cord shall be furnished. The electrical wiring shall be done in accordance with applicable electrical codes.
- d. The control room shall be located at the front of the van body. A roof-mounted air conditioner, 13,000 BTU or better, shall be supplied in the control room that shall include a 5,000 BTU, or better, electric strip heater. The control room floor shall be covered with a commercial grade vinyl tile. The control room walls shall be covered with a laminated Formica, or comparably performing, surface. A built in control console shall be furnished to house the electronic and control components. The console shall be positioned so the operator can see the equipment room area through a clear panel in the bulkhead. The console shall be equipped with racks for the electronic components. The built in console shall include a desk covered with an industrial grade Formica, or comparable material. The console shall include two or more sliding drawers for storage under the desk.
- e. The equipment room shall be located at the rear of the van body. The equipment room shall have a fixed mounting location for the TV reel and allow for sufficient storage space for down-hole equipment, winches, safety items and other miscellaneous equipment necessary to perform the inspection operation.

#### **2. Power Generator**

The generator shall be mounted on the driver's side of the van body in an enclosed cabinet with a lockable door. The generator shall be mounted on a slide out rail assembly for easy external servicing. The power source for the system shall be a commercial grade 4 stroke engine powered generator with a rated output sufficient to handle all projected and reasonably likely power requirements of the system. The engine shall be equipped with electrical starting control for local and remote start/stop operation and an engine protection system that shall automatically stop the engine if the coolant level or oil pressure is too low. The entire assembly shall be furnished with vibration isolators and a heavy duty industrial muffler to insure quiet operation.

#### **3. System Engineering Panel**

The engineering panel shall provide central control and monitoring of the power supply to the system. The panel circuitry shall be assembled in a rack mountable chassis for installation in a built in 19" control console. The panels face plate shall be heavy gauge aluminum finished with an industrial grade surface and shall have permanent labels designating the functions of the switches and controls. The Engineering Panel shall contain the following items:

- Remote generator Start/Stop



- Voltage readout
- AC frequency readout, hertz
- Generator hour meter
- Beacon switch w/indicator light

#### 4. Solid State Color Mainline Television Camera

The single or multi-conductor color mainline camera shall be specifically designed for operation through a minimum of 500 feet of multi conductor cable. Construction shall utilize circuitry designed to withstand the shocks and vibration normally sustained while being pulled through a pipe during television inspection. The image pickup device shall be a solid state CCD type incorporating the latest technology.

The camera shall be capable of providing a minimum of 300 lines of horizontal resolution and 400 lines of vertical resolution. The camera shall be equipped with a wide angle lens, with an optical viewing angle to 70 degrees, and shall provide an acceptable picture at light intensities between approximately 3 and 10,000 Lux.

#### 5. Solid State Color Mainline Color Camera Protective Housing

The camera shall be housed in a high strength aluminum, alloy, or steel tube, approximately 3 inches in diameter by 22 inches in length. The housing shall have a 1/8 inch minimum thickness, with the front of the housing incorporating a view-port of impact-resistant, distortion free glass. The rear of the camera housing shall have a protective bell to protect the cable connector. There shall be no external mechanical adjustment parts on the camera housing. A lens cover shall be provided to protect the camera view-port. Camera specification minimums are:

a. Picture elements	768 H x 494 V = 379,392 elements (pixels)
b. Supplied Lens	6 mm (F1.2) (Auto iris with manual override OPTIONAL)
c. Lens Mount	Standard "C" mount
d. System standard	NTSC color 525 lines, 60 fields/second
e. Resolution Lines	300 horizontal / 400 vertical
f. S/N ratio	48 db
g. Minimum illumination	3 lux (F1.2)
h. Illumination Range	3 - 10,000 lux, 1 - 1,000 ft-candles
i. Color temperature	Auto: 2,100 degree K - 10,000 degrees K
j. Video output	1.0 volt p-p 75 Ohms
k. Vibration	76 (11 Hz to 200 Hz)
l. Shock	70G

#### 6. Power Control Unit (PCU) -Multi Conductor (M/C)

The PCU shall provide all the necessary power and control to operate and monitor the television inspection system. Circuits shall be assembled in a rack mountable chassis for installation in a built in 19 inch control console. The faceplate shall have permanent labels designating the function or purpose of all the switches, meters and controls. The PCU shall have a back panel for all locking cable connectors and permanently labeled as to its purpose. The PCU shall, at a minimum, be equipped with the following remote camera adjustments:

- a. Focus Control: A two pole switch permits the operator to adjust the camera focus for changes in pipe diameter or different views of defect conditions.
- b. Automatic Iris Override Control: This control allows the operator to override the camera's automatic light compensating circuitry operating range if an excess or lack of light yield poor picture quality. (OPTIONAL)

#### 7. 14 Inch Minimum Color Industrial Video Monitor

The video monitor shall be a high quality, industrial grade color unit providing a minimum of 400 lines of horizontal resolution. Scanning shall be 525 lines, 60 fields, 30 frames, interlaces 2:1 NTSC color standard. The monitor shall be in a housing that acts as a shield to minimize the effects of local magnetic fields such as transformers, coils or cables. The monitor shall be equipped with a speaker to allow for audio playback from a video recorder.

#### 8. Data Display System

A data display system shall be provided that displays pipeline conditions, with the distance footage location of the camera in the pipe on the monitor screen and permanently on the video recording media. The data display system shall be designed so the information may be stored on a hard disk drive or removable media for print out

in the unit or in an office location. The data display system shall permit the input of alpha-numeric information. The footage distance of the camera shall be automatically accessed from the electronic footage meter.

The data display system be assembled in a rack mountable chassis designed for installation in a built in 19 inch control console. The face plate shall be finished with an industrial grade surface and the back plate shall be separately labeled as to the purpose of all the locking cable connections. The system shall include a standard "QWERTY" keyboard to allow easy entry of information by the operator from the control console. In addition a color inkjet printer shall be provided for printing an on-screen data report. The interface between the data recorder and the computer shall be through a compatible port. The data display system shall have the following features:

- a. System shall be menu driven to provide the operator with all the necessary on screen instruction.
- b. A minimum of 50 pipeline, service connections and manhole defect codes shall be available.
- c. Footage shall be displayed on LED readout as well as the TV screen.
- d. A blank screen shall be available at any time for recording free formatted alpha-numeric information.
- e. Select video character brightness shall be adjustable (full range white to black).

The system shall be menu driven to provide the operator with all the necessary on screen instructions, including:

- a. Owner, company, contact numbers, job identification, et cetera.
- b. Date and clock time
- c. Operator identification
- d. Manhole identification (upstream and downstream)
- e. Street address
- f. Pipe type and diameter
- g. Manhole depth
- h. Video tape number and starting index
- i. Starting Footage and TO/AWAY Designation
- j. (2) format comment lines

The system shall include a full screen instruction guide (menu) for the operator to enter the desired information while operating the keyboard. The footage count direction (to or away from vehicle) shall allow the system to count footage from 0 to maximum regardless of whether the camera is being moved to the vehicle from the remote manhole or away from the vehicle to the remote manhole. The footage preset shall allow the operator to input the distance from the center of the manhole to the focal point of the camera. A footage memory circuit shall be included which prevents the loss of any information in the event the onboard power supply is interrupted. When the power is resumed, the complete information display shall reappear on the screen.

## 9. Reports

The software will be capable of printing an inspection report, to a printer and/or removable media, to include:

- Footage
- Name and nature of condition/defect
- Clock position of condition/defect
- Full comments made during inspection

## 10. Personal Computer with Rack Mount and Printer (OPTIONAL)

The system shall include a rack-mounted personal computer with a full "QWERTY" keyboard to allow easy entry of information by the operator from the control console. The computer shall sufficient ports compatible with other supplied peripheral devices, and shall come with the latest appropriate operating system.

The desk top color printer shall be capable of reproducing captured color or black & white video inspection reports as well. Printer resolution shall be a minimum of 600 X 300 dpi color. Memory shall be a minimum of 512K.

## 11. Digital Image Capture System (OPTIONAL)

A digital image capture system shall be provided. The system shall be a rugged rack mounted video titling/data acquisition system which has the capability of digitizing and storing single frames of video images as well as collecting, storing and printing pipe line inspection data for display and report generation. It shall be capable of printing pipeline inspection reports with captured images of defects or other related significant visual information on standard color printer located in the inspection truck.

Selected digitized picture image shall be file compressed and stored on the system controller's hard disk drive. The compressed picture files shall be stored in a JPEG format and transferable by floppy to an external personal computer utilizing standard JPEG viewers and printers. Any captured image shall be able to be printed on the ink jet color printer in the inspection truck.

The system software shall be an MS Windows based data acquisition system incorporating Windows ODBC standard data base format. Inspection files shall be able to be exported into other databases and other computers

#### **12. DVD/DVR Recording System**

An industrial grade video recording system shall be provided to permanently record any selected video transmission from the closed circuit television system. The video recorder shall be installed in a rack mountable chassis assembly for installation in a built in 19 inch control console. **Desk mounted equipment that is subject to damage during travel shall not be acceptable.** A desk mounted flexible gooseneck microphone for adding audio to the video recordings shall be provided.

#### **13. Multi Conductor TV Cable Reel Assembly**

An electric or hydraulic powered TV cable reel assembly shall be supplied capable of a 500 feet operational capacity of Kevlar fiber, or comparable, armored video cable. The reel shall be chain driven and properly reinforced to withstand 200% of the maximum motor torque to insure trouble-free operation. The reel shall be powered by a variable speed electric motor and driven through a multi-gear ratio transmission with conveniently located controls. The reel shall be equipped with an automatic level wind assembly to evenly pay out or rewind the TV cable thus preventing pile-ups and entanglements.

#### **14. TV Cable Reel Assembly Controller**

The TV cable reel assembly shall be capable of operation from either the control panel at the front of the TV cable reel assembly or a single combined controller furnished to operate either the TV cable reel or power winch motor. It shall be designed for mounting at the control console in an angular rack mount frame. The controller shall be equipped with an ON/OFF switch, an ON indicator light, Forward/Reverse switch and speed control with automatic OFF positioning for safety when the operator releases the speed control. A gear shift selector shall be provided at the control console to operate the reel mounted multi gear transmission.

#### **15. Footage Meter Assembly**

A footage meter assembly shall be provided to accurately measure movement of the TV camera in the pipeline. The footage meter assembly shall be capable of bi-directional measurements in increments feet and tenth of feet. The footage meter assembly shall be equipped with mechanical counter having reset capability for use at the rear of the vehicle. An electronic counting devise shall be provided which provides measurement information to the data view display at the operator's control console. Footage meter assembly accuracy shall be +/- 1.0%.

#### **16. Low Profile High Performance Small Pipe Lighthouse (OPTIONAL)**

A low profile high performance lighthouse shall be furnished to provide the proper illumination to inspect a minimum of 6 inch pipe. The lighthouse shall include a field replaceable light cartridge. The lighthouse shall be constructed of high strength materials, preferably scratch resistant. A cable assembly shall be furnished to connect the lighthouse assembly to the main cable connector. All male and female connectors shall be water-tight.

#### **17. Camera Transportation Skids for 8 – 15 Inch Pipe Sizes (OPTIONAL)**

A transportation skid assembly shall be provided for use in 8 inch through 15 inch diameter pipes. An aluminum, alloy, or steel yoke assembly shall firmly grip the camera while providing maximum protection to the camera. Two corrosion resistant bottom skid runners shall be provided to tow the camera through the line section. The bottom skid runners shall be designed to provide a natural lift when encountering pipe offsets and obstructions. The bottom skid runners shall allow insertion of the camera tow cables. Top skid runners shall be provided that attach to the yoke assembly to protect the camera from severe offsets and protruding laterals. The bottom and top skid runners shall be machined to a round and smooth contour to minimize fouling from offsets and debris in the sewer lines. The camera skid assembly shall be adjustable to inspect pipe sizes from 8 inches to 15 inches by substituting spacer plates, which shall be included in Base Unit price.

#### **18. Camera Transportation Skids for 6 Inch Pipe (OPTIONAL)**

A low profile transportation skid(s) assembly shall be provided for use in 6 inch pipe. Each set of skids shall have an inside lining of a high friction cushion material to firmly grip the camera housing while providing maximum protection to the camera and it's housing.

#### **19. Self-Propelled Transporter**

The system shall be equipped with a self-propelled, multi conductor camera transporter. It shall operate through a minimum of 500 feet of multi-conductor cable. The transporter shall be designed to operate with multiple type cameras and allow for additional lighting as necessary to inspect pipe sizes beginning at a minimum diameter of 6 inches. Width adjustment shall be easily accomplished.

The transporter shall incorporate a drive system designed to match the contour of the pipe to insure maximum traction regardless of the pipe size. The heavy duty drive motor shall be specifically designed to meet all power requirements of the system. The speed and direction of the transporter shall be controlled from the control console.

(OPTIONAL) The transporter shall be equipped to automatically disengage the drive system, permitting the transporter to free wheel in the reverse direction. This designed feature shall facilitate easy retrieval of the transporter from the pipe using the TV cable reel. The controller shall be designed for mounting in a panel.

The controller shall be equipped with an ON/OFF switch, an ON indicator light, a directional switch to control the Forward (and Freewheel Reverse, if applicable) movement of the transporter and a speed control with automatic OFF positioning for safety when the operator releases the speed control. **The transporter and camera assembly shall be designed so the camera can be used independently from the transporter with standard towing skids, or a winch assembly when necessary.**

A retrieval tool will be supplied for skids and/or transporter. This device will allow placement or retrieval of camera, skids and/or transporter without the need to enter the manhole.

#### **20. Cable Manhole Guide System**

The necessary pulley assemblies shall be furnished to protect the TV cable and winch cable from damage during television inspection. They shall be constructed of aluminum to minimize weight and be equipped with corrosion resistant pulleys.

Extension poles shall be supplied to connect to the down-hole roller cable guides. Manhole adapter hooks shall be supplied to secure the guide system to the manhole ground rim. A manhole top roller assembly shall be supplied to guide the cables into the manhole. The complete cable manhole guide system shall be designed for quick installation from above the ground. Rear vehicle door mounted storage brackets for poles, invert rollers and manhole top roller assembly with appropriate WARNING/SAFETY signs shall be provided.

#### **21. TV Maintenance Tool Box**

A tool kit containing sets of tools necessary to field test, adjust and repair components must be included.

#### **22. Options**

Where available, Offeror shall price options upgrades above the Base Unit, including different van sizes and/or configurations and trailer mounted options.

### **H. Miscellaneous Sewer Equipment**

The Base products for Miscellaneous Sewer Equipment must be listed on **Form D**. This is an array of various sewer/pipeline equipment that do not necessarily fall within the various A thru G Base Products. These base products can be anything related to the specification documents SCOPE such as software or stand-alone crawlers and cameras. These base items should be large enough in scope that they are not optional or upgraded equipment to be listed on **Form E**.

**I. Miscellaneous Sewer Cleaning Services**

The Base Sewer Cleaning Services must be listed on **Form D**. These Services shall be priced per lineal foot and the services shall be fully inclusive within that lineal footage price. All expenses incurred by the Contractor for service performed such as; travel, weather delays, fuel, per diem, etc. must be a part of the lineal footage price.

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**This is the end of Section B: Product Specific Requirements  
For questions regarding this Invitation, please contact:**

**Aundre Petty  
Ph: 713-993-2453  
Fax: 713-993-4548  
Email: [Aundre.petty@h-gac.com](mailto:Aundre.petty@h-gac.com)**

**This is a sample of the contract that will be sent to you for execution IF you are recommended for a contract award. Do NOT complete and return with your Response.**

A CONTRACT BETWEEN HOUSTON-GALVESTON AREA COUNCIL, Houston, Texas AND \_\_\_\_\_

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 100, Houston, Texas 77027, AND, \_\_\_\_\_ hereinafter referred to as the **CONTRACTOR**, having its principal place of business at \_\_\_\_\_.

#### **ARTICLE 1: SCOPE OF SERVICES**

The parties have entered into a \_\_\_\_\_ Contract to become effective as of \_\_\_\_\_, and to continue through \_\_\_\_\_ (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 \_\_\_\_\_ offered by the **CONTRACTOR**. The **CONTRACTOR** agrees to sell \_\_\_\_\_ 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: \_\_\_\_\_, including any relevant suffixes
4. **CONTRACTOR's** Response to Bid No: \_\_\_\_\_, 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, or contractor, which are not within bidder'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 BONDS FOR INDIVIDUAL ORDERS**

Except as described below for fire apparatus, **CONTRACTOR** agrees to provide a Performance Bond at the request of **END USER** within ten (10) days of receipt of **END USER's** purchase order.

It shall be standard procedure for every order received for fire apparatus that a Performance Bond in the amount of the order be provided to the **END USER**. Failure of **CONTRACTOR** to provide such performance bond within ten (10) days of receipt of **END USER's** order may constitute a total breach of contract and shall be cause for cancellation of the order at **END USER's** sole discretion. **END USER** may choose to delete the requirement for a Performance Bond at **END USER's** sole discretion. If the bond requirement is waived, **END USER** shall be entitled to a price reduction commensurate with the cost that would have been incurred by **CONTRACTOR** for the bond.

**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: \_\_\_\_\_, 20\_\_

Signed for \_\_\_\_\_

Printed Name & Title: \_\_\_\_\_ Date: \_\_\_\_\_, 20\_\_

Attest for \_\_\_\_\_

Printed Name & Title: \_\_\_\_\_ Date: \_\_\_\_\_, 20\_\_



## SECTION C - H-GAC FORMS

(Rev 12/02/09)

For Use In Responding To Competitive Bid And Proposal Invitations

Invitation No.: SC01-15

Title: Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services

This Section contains the following **H-GAC FORMS**.

FORM	DESCRIPTION
Form A:	Offeror Identification and Authorized Signatory
Form B:	Historically Underutilized Business Enterprises
Form C:	Response Checklist
Form D:	Offered Items Pricing
Form E:	Published Options

These **FORMS** are hereby made available in electronic format. They should be copied to Offeror's computer for completion and/or printout as required. The **FORMS** **may not** be changed or altered in any way, except as may be specified on the **FORM**.

**ALL** completed **FORMS** must also be submitted electronically on electronic media (DVD, CDROM, flash/thumb drive), excepting of course for signatures. The printed "Original" of the response will be considered as the official copy in case of any discrepancy between the electronic version and the printed Original.

**FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY**

Invitation No.: SC01-15

**Invitation Title:** Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services

**Offeror Company:** \_\_\_\_\_

(Legal name of business which will appear on contract, if awarded)

**Offeror Status:**  **Manufacturer**     **Dealer/Distributor**     **Other**

**Response Type(1):**  **Single Offeror Acting Alone Or As Lead**     **Multiple Offerors Acting Jointly**

**Contract Signatory(2):** \_\_\_\_\_

**Mailing Address(3):**

Street/PO Box

State & Zip

**Physical Address:**

Street

State & Zip

**Phone:** \_\_\_\_\_

**Fax:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Federal Tax ID No.:** \_\_\_\_\_

**Web Page URL:** \_\_\_\_\_

- (1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.
- (2) Person who will sign final contract documents if an award is made.
- (3) Address to which final contract documents would be sent for signature.

**Member Contact Information**

**Contact Person(4):** \_\_\_\_\_

**Mailing Address:**

Street/PO Box

State & Zip

**Physical Address:**

Street

State & Zip

**Toll Free Phone:** \_\_\_\_\_

**Fax:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

- (4) Person who End Users will contact for product information and to get pricing quotes.

**The Signatory below, on behalf of Offeror:**

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

**Signature:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_

**Title: Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services**

**Offeror:**

Most, if not all, of the Members of HGACBuy are subject to various requirements relative to purchasing goods and services from Historically Underutilized Business Enterprises (HUBs)(See Note 1). These requirements are promulgated by federal and state governmental authorities, and include measureable criteria such as 'percentage of total dollars spent directed to HUBs', 'number of HUB contractors used', 'HUB subcontractors employed by primary contractors', etc. These requirements are generally formalized in goal oriented programs.

HGACBuy is comitted to promoting full and equal business opportunities for HUB contractors, and to assisting Cooperative Purchasing Program (COOP) Members in meeting mandated HUB goals. In that regard, Contractor shall make a good faith effort to use the services of Certified/Listed (See Note 2) HUBs whenever possible.

As part of a good faith effort, Contractor agrees to work with and assist HGACBuy Members in meeting HUB targets and goals, as may be required by any rules, processes or programs they might have in place. Such assistance may include such things as compliance with reporting requirements, provision of documentation, consideration of 'Certified/Listed' subcontractors, provision of documented evidence that an active participatory role for a HUB entity was considered in a procurement transaction, etc.

Note 1: There are many designations other than "HUB" used across the country within various jurisdictions. Examples include terms such as Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Woman Owned Business Enterprise (WBE), Small Disadvantaged Business (SDB), Small, Woman or Minority-owned Business (SWAM), etc. Regardless of the formal designation, the overall objective of the relavant programs is basically the same, i.e. to insure that disadvantaged and underutilized members of the business community receive a fair share of public spending. The term HUB as used herein shall be understood to encompass all such programs/business enterprises, no matter what terminology is used by the Member.

Note 2: The terms "Certified" and "Listed" as used in conjunction with HUB programs relate to the process of HUB qualification review. Jurisdictions usually require that companies claiming HUB status be reviewed and confirmed as meeting certain minimum requirements to claim that status, and that the review and confirmation process be carried out by certain designated entities. They are then "Certified" or "Listed" by having their name included on an official listing published by the Certifying or Listing Authority.

Accepted and Agreed By:	
Title:	Date:

HUB Status Of Offeror	
<input type="checkbox"/> Offeror is a HUB, as detailed below.	<input type="checkbox"/> Offeror is not a HUB.
Designation(s): <input type="checkbox"/> HUB <input type="checkbox"/> DBE <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Other <input style="width: 150px;" type="text"/>	
Certifying/Listing Authority(s): <input style="width: 700px;" type="text"/>	
Subcontracts	
On a separate sheet, list any subcontractors that would be employed in providing products or services related to this procurement. Include subcontractor name, designation (HUB, DBE, etc.) and certifying/listing authority.	
<input type="checkbox"/> Subcontractor List attached.	<input type="checkbox"/> No Subcontractors will be used.

Title: Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services

Offeror: \_\_\_\_\_

This **FORM** is provided to help insure that all required Response elements have been completed and included, or certified as being available upon request. **Responses that do not comply with all requirements may be considered non-compliant.** Offeror's signatory must review each item below, and certify by initialing in the space to the right.

**This Response Includes:**

**Init.**

- |  |  |
|--|--|
| <p><b>1</b> An "Original" hard copy of the <b>COMPLETE</b> submission, including all required <b>H-GAC FORMS</b>, plus one <b>COMPLETE</b> copy, each in a separate <b>hard-sided</b> 3-ring binder. <b>(Section A - General Terms &amp; Conditions, Subset 27 (a-c) Requirements For Submission Of A Response).</b></p>   |  |
| <p><b>2</b> A copy of the <b>COMPLETE</b> submission, including all required <b>H-GAC FORMS</b>, in electronic format (CD, flash/thumb drive). <b>All Electronic H-GAC FORMS must be submitted in their original excel format. (Section A - General Terms &amp; Conditions, Subset 27 (d) Requirements For Submission Of A Response).</b></p>  |  |
| <p><b>3</b> An originally signed <b>Form A</b> from all entities participating in this submission and who should be offered a contract if this submission is successful. This includes both in and out-of-state dealers (<b>Note: All sales outside Texas should be coordinated through the manufacturer when possible</b>). In those cases where sales must go through a dealer due to franchise agreements, <b>Form A's</b> will be accepted from those dealers. For those only bidding conversions, <b>Form A's</b> from in-state commercial chassis dealers for the underlying chassis being quoted should be provided in order to sell in Texas. <b>(Section A - General Terms &amp; Conditions, Subset 14 Texas Motor Vehicle Commission Code &amp; Licenseing).</b></p> |  |
| <p><b>4</b> The required list of <b>References</b>. <b>(Section A - General Terms &amp; Conditions, Subset 9 References).</b></p>  |  |
| <p><b>5</b> Details of "<b>Service Organization</b>", including locations, hours, personnel and parts/service availability. <b>(Section A - General Terms &amp; Conditions, Subset 27 (f) Requirements For Submission Of A Response).</b></p>  |  |
| <p><b>6</b> Complete <b>Warranty Documentation</b> for all Products offered. <b>(Section A - General Terms &amp; Conditions, Subset 21 (a-h) Warranties, Sales &amp; Services).</b></p>  |  |
| <p><b>7</b> The manufacturer's latest <b>Specification Documents</b> detailing standard features, operating characteristics, etc., for all products offered. <b>(Section A - General Terms &amp; Conditions, Subset 27 (Third Section) Requirements For Submission Of A Response).</b></p>   |  |
| <p><b>8</b> <b>Form CIQ</b>, if required by law, completed and signed. (The Form, and instructions for its use, can be found at: <a href="http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm">http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm</a>) If Form CIQ does not apply, put "N/A" in the box to the right.</p>   |  |
| <p><b>9</b> If the <b>Non-Resident Reciprocal Bid Act</b> applies, a copy of your state statute and a determination of the status of Texas bidders/proposers in your home state. If not applicable, indicate "N/A"</p>   |  |
| <p><b>10</b> If offer includes motor vehicles to be sold in Texas, copies of all current licenses as required by the Texas Motor Vehicle Commission.</p>   |  |

**H-GAC FORM D1 - PRODUCT ITEM BASE OFFERING PRICES**

<b>Offeror Name:</b>	
<b>Invitation No.:</b>	<b>SC01-15 -- Sewer Cleaning, Hydro-Excavating, Inspection Equipment &amp; Miscellaneous Services</b>
<b>Notes and Information</b>	<p><b>1. Form D</b> is used to provide pricing for only those models that are listed, and correspond to SC01-15 base unit specifications (as identified by the unique, 4-character <b>H-GAC Product Code</b>) and their <b>H-GAC</b> descriptions.</p> <p>2. Model upgrades/options/accessories for each base unit priced on <b>Form D</b> must be included in your bid response. That information and pricing must be placed on <b>Form E</b>.</p> <p>3. Bidders must complete both <b>Forms D &amp; E</b> and include a printed copy in the bidder's response as well as submitting this information in EXCEL format on a CD or flash/thumb drive.</p>

**IMPORTANT: Bidder MUST submit copies of the following with their bid:**

- (1) A copy of each participating bidder/dealer **Texas Motor Vehicle Dealers License** identifying the make/brand of van or cab/chassis being bid.
- (2) An originally signed **Form A** from all entities participating in this submission and who should be offered a contract if this submission is successful. This includes both in and out-of-state dealers (**Note: All sales outside Texas should be coordinated through the manufacturer when possible**). In those cases where sales must go through a dealer due to franchise agreements, **Form A's** will be accepted from those dealers.
- (3) An originally signed **Form A** from those only bidding conversions.
- (4) A copy of the bidders and/or manufacturers's **Texas Motor Vehicle Converter license** (where applicable).

**Note: The above requirements must be met prior to any contracts being issued.**

<b>H-GAC Product Code</b>	<b>Manufacturer</b>	<b>Model / Description</b> <i>Bid only the Base Item/Model on this Form. No changes/modifications to Form D descriptions will be accepted. Any changes to Form D description(s) will result in bid item(s) being deemed non-compliant. Bid all available options noted above on Form E.</i>	<b>Base Offered Price</b>
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**A. Sewer Cleaners, Centrifugal Compressor Fan Type, For Truck Mounting**

<b>A001</b>	Vac-Con	Combination Sewer Cleaner, 3 yd Debris Body, Single Engine	
<b>A002</b>	Vac-Con	Combination Sewer Cleaner, 9 yd Debris Body, Dual Engine	
<b>A003</b>	Vac-Con	Combination Sewer Cleaner, 9 Yd Debris Body, Single Engine	
<b>A004</b>	Vactor	Series 2100 Plus, Model 2110, 10 Yd Debris Body, Single Engine	

**B. Sewer Cleaners, Positive Displacement Type, For Truck Mounting**

<b>B001</b>	GapVax	Model MC 1005, 1000 gallon water 5 yd3 debris body, single engine	
<b>B002</b>	GapVax	Model MC 1007, 1000 gallon water 7 yd3 debris body, single engine	
<b>B003</b>	GapVax	Model MC 1510, 1500 gallon water 10 yd3 debris body, single engine	
<b>B004</b>	GapVax	Model MC 0508, 500 gallon water 8 yd3 debris body, single engine	
<b>B005</b>	GapVax	Model MC 1210, 1200 gallon water 10 yd3 debris body, single engine	
<b>B006</b>	GapVax	Model MC 1012, 1000 gallon water 12 yd3 debris body, single engine	
<b>B007</b>	GapVax	Model MC 1312, 1300 gallon water 12 yd3 debris body, single engine	
<b>B008</b>	GapVax	Model MC 1204, 1200 gallon water 4 yd3 debris body, single engine	
<b>B009</b>	GapVax	Model MC 1508, 1500 gallon water 8 yd3 debris body, single engine	
<b>B010</b>	GapVax	Model MC 1511, 1500 gallon water 11 yd3 debris body, single engine	
<b>B011</b>	GapVax	Model MC 2008, 2000 gallon water 8 yd3 debris body, single engine	
<b>B012</b>	GapVax	Model MC1109, 1100 gallon water 9 yd3 debris body, single engine	
<b>B013</b>	GapVax	Model MC1110, 1100 gallon water 10 yd3 debris body, single engine	
<b>B014</b>	GapVax	Model MC1512, 1500 gallon water 12yd3 debris body, single engine	
<b>B015</b>	GapVax	Model MC1311, 1300 gallon water 11 yd3 debris body, single engine	
<b>B016</b>	GapVax	Model MC1113, 1100 gallon water 13 yd3 debris body, single engine	
<b>B017</b>	Hi-Vac	Aquatech Model B-3, Combination Cleaning Vacuuming Machine	
<b>B018</b>	Hi-Vac	Aquatech Model B-5, Combination Cleaning Vacuuming Machine	

<b>B019</b>	Hi-Vac	Aquatech Model B-52, Combination Cleaning Vacuuming Machine	
<b>B020</b>	Hi-Vac	Aquatech Model B-6, Combination Cleaning Vacuuming Machine	
<b>B021</b>	Hi-Vac	Aquatech Model B-10, Combination Cleaning Vacuuming Machine	
<b>B022</b>	Hi-Vac	Aquatech Model B-10/1300, Combination Cleaning Vacuuming Machine	
<b>B023</b>	Hi-Vac	Aquatech Model B-10/2500, Combination Cleaning Vacuuming Machine	
<b>B024</b>	Hi-Vac	Aquatech Model B-15, Combination Cleaning Vacuuming Machine	
<b>B025</b>	Hi-Vac	Aquatech Model CB-6, Catch Basin Cleaning Vacuuming Machine (No Jet hose)	
<b>B026</b>	Hi-Vac	Aquatech Model CB-10, Catch Basin Cleaning Vacuuming Machine (No Jet hose)	
<b>B027</b>	Hi-Vac	Aquatech Model CB-15, Catch Basin Cleaning Vacuuming Machine (No Jet hose)	
<b>B028</b>	Super Products	Camel 900 Combination PD Sewer Cleaner, 6 yd3	
<b>B029</b>	Super Products	Camel 200 - PD Sewer Cleaner, 10 yd3	
<b>B030</b>	Super Products	Camel 1200 Combination PD Sewer Cleaner, 16 yd3	
<b>B031</b>	Vacall	AJV 610 - Sewer Cleaner, 600 Gallon Water Tank - 10 yd. Debris Tank	
<b>B032</b>	Vacall	AJV 612 - Sewer Cleaner, 600 Gallon Water Tank - 12 yd. Debris Tank	
<b>B033</b>	Vacall	AJV 810 - Sewer Cleaner, 800 Gallon Water Tank - 10 yd. Debris Tank	
<b>B034</b>	Vacall	AJV 812 - Sewer Cleaner, 800 Gallon Water Tank - 12 yd. Debris Tank	
<b>B035</b>	Vacall	AJV 1015 - Sewer Cleaner, 1000 Gallon Water Tank - 15 yd. Debris Tank	
<b>B036</b>	Vacall	AJV 1215 - Sewer Cleaner, 1200 Gallon Water Tank - 15 yd. Debris Tank	
<b>B037</b>	Vacall	AJVR 610 - Sewer Cleaner, 600 Gallon Water Tank - 10 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B038</b>	Vacall	AJVR 612 - Sewer Cleaner, 600 Gallon Water Tank - 12 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B039</b>	Vacall	AJVR 810 - Sewer Cleaner, 800 Gallon Water Tank - 10 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B040</b>	Vacall	AJVR 812 - Sewer Cleaner, 800 Gallon Water Tank - 12 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B041</b>	Vacall	AJVR 1015 - Sewer Cleaner, 1000 Gallon Water Tank - 15 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B042</b>	Vacall	AJVR 1215 - Sewer Cleaner, 1200 Gallon Water Tank - 15 yd. Debris Tank, Rear Boom & Hose Reel	
<b>B043</b>	Vac-Con	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Single Engine	
<b>B044</b>	Vac-Con	Comb PD Sewer Cleaner, 9 yd3 Debris Body, Dual Engine	
<b>B045</b>	Vactor	PD Series 2100 Plus, Model 2110, 10 yd3 Debris Body, Single Engine	
<b>B046</b>	Vactor	PD Series 2100, Model 2103, 3 yd3 Debris Body, Single Engine	
<b>C. Jet Rodders, For Truck &amp; Trailer Mounting</b>			
<b>C001</b>	Durand-Wayland	Model No. SJ704020 - 700 gal., diesel 40 gpm @ 2000psi, Trailer Mount Sewer Jet	
<b>C002</b>	Durand-Wayland	Model No. SJ704030 - 700 gal., diesel 40 gpm @ 3000psi, Trailer Mount Sewer Jet	
<b>C003</b>	Durand-Wayland	Model No. 3518D - 350 gal., diesel 18 gpm @ 4000psi, Trailer Mount Sewer Jet	
<b>C004</b>	Durand-Wayland	Model No. 7518D - 700 gal., diesel 18 gpm @ 4000psi, Trailer Mount Sewer Jet	
<b>C005</b>	Durand-Wayland	Model No. SJ702540 - 700 gal., diesel 25 gpm @ 4000psi, Trailer Mount Sewer Jet	
<b>C006</b>	Durand-Wayland	Model No. SJS704020 - 700 gal., diesel 40 gpm @ 2000psi, Truck Mount Sewer Jet	
<b>C007</b>	Durand-Wayland	Model No. SJS704030 - 700 gal., diesel 40 gpm @ 3000psi, Truck Mount Sewer Jet	
<b>C008</b>	Durand-Wayland	Model No. 3518DS - 350 gal., diesel 18 gpm @ 4000psi, Truck Mount Sewer Jet	
<b>C009</b>	Durand-Wayland	Model No. 7518DS - 700 gal., diesel 18 gpm @ 4000psi, Truck Mount Sewer Jet	
<b>C010</b>	Durand-Wayland	Model No. SJS702540 - 700 gal., diesel 25 gpm @ 4000psi, Truck Mount Sewer Jet	
<b>C011</b>	Durand-Wayland	Model No. SJ706520 - 700 gal, diesel 65 gpm @ 2000psi, Trailer Mount Sewer Jet	
<b>C012</b>	Durand-Wayland	Model No. SJS706520 - 700 gal, diesel 65 gpm @ 2000psi, Truck Mount Sewer Jet	
<b>C013</b>	Durand-Wayland	Model No. SJS156520 - 1500 gal, PTO driven, 65gpm @ 2000psi, Truck Mount Sewer Jet	
<b>C014</b>	Durand-Wayland	Model No. SJS156520 - 1500 gal, engine driven, 65gpm @ 2000psi, Truck Mount Sewer Jet	
<b>C015</b>	GapVax	Model GJET GapJet, 1000 gallon	
<b>C016</b>	GapVax	Model GJET GapJet, 1500 gallon	
<b>C017</b>	GapVax	Model GJET GapJet, 2000 gallon	

<b>C018</b>	GapVax	Model GJET GapJet, 2500 gallon	
<b>C019</b>	GapVax	Model GJET GapJet, 3000 gallon	
<b>C020</b>	Harben	Model 4018 DTK 300 E-180, 4000 psi, 18 gpm, single axle trailer, pivot reel	
<b>C021</b>	Harben	Model 4018 DTK 350 E-180, 4000 psi, 18 gpm, single axle trailer, pivot reel	
<b>C022</b>	Harben	Model 4018 DTK 600 ET 180 4000 psi, 18 gpm, tandem axle trailer, pivot reel	
<b>C023</b>	Harben	Model 4018 DTD 300 E Series, 4000 psi, 18 GPM, 300 gal. cap., 1/2" x 500' hose, Single axle trailer	
<b>C024</b>	Harben	Model 4018 DTD 300 E-180, 4000 psi, 18 gpm, 300 gal. tank, 180 degree pivot reel, Single axle trailer	
<b>C025</b>	Harben	Model 4018 DTD 300 E-45, 4000 PSI, 18 GPM, Pivot reel 45/90, 1/2" x 500' hose	
<b>C026</b>	Harben	Model 4018 DTD 350 E-45, 4000 PSI, 18 GPM, 350 gallon tank, Single axle trailer	
<b>C027</b>	Harben	Model 4018 DTD 600 ET, 4000 PSI, 18GPM, 600 gallon tank, tandem axle trailer	
<b>C028</b>	Harben	Model 4016 DTD 300 E Series Squared, 4000 PSI, 16 GPM, 300 gallon tank, single axle trailer	
<b>C029</b>	Harben	Model 2035 DTD 600 ETP, 2000 PSI, 35 GPM, 600 gallon tank, tandem trailer, pivot reel	
<b>C030</b>	Harben	Model 4025 DTD 600 ETP, 4000 PSI, 25 GPM, 600 gallon tank, tandem trailer, 5/8" x 500' hose	
<b>C031</b>	Harben	Model 4025 DPD 600 P, Truck Mount Unit, 4000 PSI, 25 GPM, 600 gallon tank, 5/8" x 500' hose	
<b>C032</b>	Harben	4018 DPD 600 P, Truck Mount Unit, 4000 psi, 18 gpm, 600 gal	
<b>C033</b>	Harben	4018 DSK 300 P, Skid Unit for Truck or Enclosure mounting	
<b>C034</b>	Hi-Vac	Aquatech Model SJ-1650 Series - Truck Mounted Sewer Jet	
<b>C035</b>	Hi-Vac	Aquatech Model SJ-2200 Series - Truck Mounted Sewer Jet	
<b>C036</b>	Hi-Vac	Aquatech Model SJR-1500 Series - High Velocity, Truck Mounted Sewer Jet	
<b>C037</b>	Hi-Vac	Aquatech Model SJR-2200 Series - High Velocity, Truck Mounted Sewer Jet	
<b>C038</b>	Hi-Vac	Aquatech Model SJR-3000 Series - High Velocity, Truck Mounted Sewer Jet	
<b>C039</b>	Hi-Vac	O'Brien Model 7080-SC - Trailer Mounted Sewer Jet	
<b>C040</b>	Hi-Vac	O'Brien Model 7065-SC - Trailer Mounted Sewer Jet	
<b>C041</b>	Hi-Vac	O'Brien Model 704030-SC - Trailer Mounted Sewer Jet	
<b>C042</b>	Hi-Vac	O'Brien Model 7030-SC - Trailer Mounted Sewer Jet	
<b>C043</b>	Hi-Vac	O'Brien Model 7040-SC - Trailer Mounted Sewer Jet	
<b>C044</b>	Hi-Vac	(O'Brien Mfg.) Model 7040 T-SC - Trailer Mounted Sewer Jet	
<b>C045</b>	Hi-Vac	O'Brien Model 7018-SC - Trailer Mounted Sewer Jet	
<b>C046</b>	Hi-Vac	O'Brien Model 3540-SC - Trailer Mounted Sewer Jet	
<b>C047</b>	Hi-Vac	O'Brien Model 3518-SC - Trailer Mounted Sewer Jet	
<b>C048</b>	Hi-Vac	O'Brien Model 3515-CF - Trailer Mounted Sewer Jet	
<b>C049</b>	PipeHunter	Model - #3844 - Trailer Mounted, Single Axle, 300 Gal	
<b>C050</b>	PipeHunter	Model - #7844 - Truck Mounted, 700 Gal	
<b>C051</b>	Ring-O-Matic	550-Jetter Skid-Truck Mounted Sewer Jetter 500 Gal Water, 550 Gallon Debris, 27 GPM Jetter Pump,	
<b>C052</b>	Ring-O-Matic	550-Jetter Trailer-Trailer Mounted Sewer Jetter 500 Gal Water, 550 Gallon Debris, 27 GPM Jetter	
<b>C053</b>	Sewer Equipment	Model 747-FR2000 Classic trailer jet, 700 gallon	
<b>C054</b>	Sewer Equipment	Model 747-FR2000 ECO trailer jet, 700 gallon	
<b>C055</b>	Sewer Equipment	Model 747-FR2000TV ECO trailer jet, 700 gallon	
<b>C056</b>	Sewer Equipment	Model 747-TK Classic truck jet, 700 gallon	
<b>C057</b>	Sewer Equipment	Model 747-TK ECO Truck Jet, 700 Gallon	
<b>C058</b>	Sewer Equipment	Model 747-TK TV ECO Truck Jet, 700 Gallon	
<b>C059</b>	Sewer Equipment	Model 545	
<b>C060</b>	Sewer Equipment	Mongoose Model 123	
<b>C061</b>	Sewer Equipment	Mongoose Model 123-V	
<b>C062</b>	Sewer Equipment	Mongoose Model 184	
<b>C063</b>	Sewer Equipment	Mongoose Model 184-TK	
<b>C064</b>	Sewer Equipment	Mongoose Model 184-ETK	
<b>C065</b>	Sewer Equipment	Mongoose Model 184-VS	



C066	Sewer Equipment	Mongoose Model 184-VR	
C067	Sewer Equipment	Mongoose Model 254	
C068	Sewer Equipment	Mongoose Model 254-ETK	
C069	Sewer Equipment	Mongoose Model 254-TK	
C070	Sewer Equipment	Mongoose Model 402	
C071	Sewer Equipment	Mongoose Model 402-TK	
C072	Sewer Equipment	Model 800-HPRTV ECO truck jet, 1500 gallon	
C073	Sewer Equipment	Model 800-HPR ECO truck jet, 1500 gallon	
C074	Sewer Equipment	Model 800-H ECO truck jet, 1500 gallon fxd reel	
C075	Sewer Equipment	Model 800-HF ECO truck jet, 1500 gallon	
C076	Sewer Equipment	Model 800-A truck jet, 1500 gallon	
C077	SRECO	HV100TR/L, Trailer Mounted, 600 Gal, 2000 psi	
C078	SRECO	HV2000TM, Truck Mounted, 1000 Gal, 2000 psi	
C079	SRECO	SW2000TM, Truck Mounted	
C080	SRECO	HV2000 Skid, El Paso Style	
C081	Super Products	Camel Jet Model CJ1000, Truck Mounted, 1000-Gal	
C082	Super Products	Camel Jet Model CJ1600, Truck Mounted, 1600-Gal	
C083	Trojan Tool	BTB Series Trailer Jetter, Single Axle 150 gallon tank, manual reel 300' x 3/8" hose, 7-8 gpm	
C084	Trojan Tool	TB Series Trailer Jetter, Single Axle 150 gallon tank, 12 volt DC reel 300' x 3/8" hose, 7-8 gpm	
C085	Trojan Tool	STB Series Trailer Jetter, Single Axle 300 gallon tank, 12 volt DC reel 400' x 1/2" hose, 11 gpm	
C086	U.S. Jetting	Model # 4016-300 Eco, Trailer Mounted Sewer Jet, Single Axle, Piv Reel	
C087	U.S. Jetting	Model # 4010-200, Trailer Mounted Sewer Jet, Single Axle, Piv Reel	
C088	U.S. Jetting	Model # 4018-300 SE, Trailer Mounted Sewer Jet, Single Axle, Piv Reel	
C089	U.S. Jetting	Model # 4018-300, Trailer Mounted Sewer Jet, Single Axle, Piv Reel	
C090	U.S. Jetting	Model # 4018-600, Trailer Mounted Sewer Jet, Tandem Axle, Pullout Reel	
C091	U.S. Jetting	Model # 4025-600, Trailer Mounted Sewer Jet, Tandem Axle, Piv Reel	
C092	U.S. Jetting	Model # 2040-750, Trailer Mounted Sewer Jet, Tandem Axle, Piv Reel	
C093	U.S. Jetting	Model # 3040-750, Trailer Mounted Sewer Jet, Tandem Axle, Piv Reel	
C094	U.S. Jetting	Model # 4018-300, Truck Mounted Sewer Jet, Pullout Reel w/Flatbed	
C095	U.S. Jetting	Model # 4018-600, Truck Mounted Sewer Jet, Pullout Reel w/Flatbed	
C096	U.S. Jetting	Model # 4025-600, Truck Mounted Sewer Jet, Pullout Reel w/Flatbed	
C097	U.S. Jetting	Model # 4018-600 SKD, Skid Unit to be mounted on Truck Chassis by Customer	
C098	U.S. Jetting	Model # 4025-600 SKD, Skid Unit to be mounted on Truck Chassis by Customer	
C099	U.S. Jetting	Model # 3040-750 SKD, Skid Unit to be mounted on Truck Chassis by Customer	
C100	U.S. Jetting	Model # 4018-300 SKD, Skid Unit to be mounted on Truck Chassis by Customer	
C101	U.S. Jetting	Model # 2065-750, Trailer Mounted Sewer Jet, Tandem Axle, Piv. Reel	
C102	Vac-Con	HS-1000 Truck Mounted Jet Rodding Machine, 1000 Gal	
C103	Vac-Con	HS-1600 Truck Mounted Jet Rodding Machine, 1600 Gal	
C104	Vactor	Model RamJet V8015, Truck mounted Jetter, Single Axle, 1,500 Gallons of Water	

**D. Hydro Excavators, Truck & Trailer Mounted**

D001	Economy Drilling Solutions (EDS)	Lo-K-Tor - Model 800 HVE Trailer Mounted Hydro/Vacuum Excavating System - 800 gal. Debris tank, positive displacement vacuum system @ 26" Hg with reversing feature, 300 gal. Water system with high pressure wand. NO CDL REQUIRED	
D002	GapVax	Model VHE 0508 Hydro Excavator, 500 gal water, 8 yd3 debris	
D003	GapVax	Model VHE 1005 Hydro Excavator, 1000 gal water, 5 yd3 debris	
D004	GapVax	Model VHE 1007 Hydro Excavator, 1000 gal water, 7 yd3 debris	
D005	GapVax	Model VHE 1510 Hydro Excavator, 1500 gal water, 10 yd3 debris	
D006	GapVax	Model VHE 1512 Hydro Excavator, 1500 gal water, 12 yd3 debris	
D007	GapVax	Model VHE 2008 Hydro Excavator, 2000 gal water, 8 yd3 debris	
D008	GapVax	Model VHE 1210 Hydro Excavator, 1200 gal water, 10 yd3 debris	

<b>D009</b>	GapVax	Model VHE 1012 Hydro Excavator, 1000 gal water, 12 yd3 debris	
<b>D010</b>	GapVax	Model VHE 1312 Hydro Excavator, 1300 gal water, 12 yd3 debris	
<b>D011</b>	GapVax	Model VHE 0915 Hydro Excavator, 900 gal water, 15 yd3 debris	
<b>D012</b>	GapVax	Model VHE 1511 Hydro Excavator, 1500 gallon water, 11 yd3 debris	
<b>D013</b>	GapVax	Model HV-55 wet/dry hydro excavator 1000 gallon water, 12yd3 debris	
<b>D014</b>	GapVax	Model HV-56 wet/dry hydroexcavator 1000 gal water, 15 yd3 debris	
<b>D015</b>	GapVax	Model VHE 1204 Hydro Excavator, 1200 gal water, 4 yd3 debris	
<b>D016</b>	GapVax	Model VHE 1311 Hydro Excavator, 1300 gal water, 11 yd3 debris	
<b>D017</b>	GapVax	Model VHE 1508 Hydro Excavator, 1500 gal water, 8 yd3 debris	
<b>D018</b>	GapVax	Model VHE 1110 Hydro Excavator, 1100 gal water, 10 yd3 debris	
<b>D019</b>	GapVax	Model VHE 1113 Hydro Excavator, 1100 gal water, 13 yd3 debris	
<b>D020</b>	GapVax	Model HV-44 wet/dry Hydro Excavator 400 gal water, 12 ½ yd3 debris	
<b>D021</b>	GapVax	Model HV-44 wet/dry Hydro Excavator 1000 gal water, 12 ½ yd3 debris	
<b>D022</b>	GapVax	Model HV-44 wet/dry Hydro Excavator 1200 gal water, 12 ½ yd3 debris	
<b>D023</b>	GapVax	Model HV-34 wet/dry Hydro Excavator 400 gal water, 10 yd3 debris	
<b>D024</b>	GapVax	Model HV-55 wet/dry Hydro Excavator 600 gal water, 12 yd3 debris	
<b>D025</b>	GapVax	Model HV-55 wet/dry Hydro Excavator 1200 gal water, 12 yd3 debris	
<b>D026</b>	Hi-Vac	XVAC Mini Trailer Hydro- Excavator	
<b>D027</b>	Hi-Vac	XVAC 500 Trailer Mounted Hydro-Excavator	
<b>D028</b>	Hi-Vac	XVAC 800 Trailer Mounted Hydro-Excavator	
<b>D029</b>	Hi-Vac	(X-vac) Model X-10 – Truck Mounted Vacuum Hydro Excavator	
<b>D030</b>	Hi-Vac	(X-vac) Model X-6 – Truck Mounted Vacuum Hydro Excavator	
<b>D031</b>	Hi-Vac	(X-vac) Model X-15 – Truck Mounted Vacuum Hydro Excavator	
<b>D032</b>	Industrial Systems, Inc	Model 550 Cyclone-Vac - Hydro Excavator, 500 Gallon Debris Tank, 200 Gallon Water Tank	
<b>D033</b>	Industrial Systems, Inc	Model 850 Cyclone-Vac - Hydro Excavator, 800 Gallon Debris Tank, 200 Gallon Water Tank	
<b>D034</b>	Industrial Systems, Inc.	Model EC100 Cyclone-Vac - Hydro Excavator, with 100 gallon vacuum tank and 60 gallon water tank. No CDL licenses required	
<b>D035</b>	Industrial Systems, Inc.	Model 300 Power Plant Hydro-Vacuum Excavator with 300 gallon vacuum tank & 250 gallon water tank	
<b>D036</b>	Industrial Systems, Inc	Model 150 Incline-Vac, Hydro-Excavator, 150 gallon debris tank, 150 gallon water tank. No CDL licenses required	
<b>D037</b>	Industrial Systems, Inc	Model 250 Incline-Vac, Hydro-Excavator, 250 gallon debris tank, 200 gallon water tank. No CDL licenses required	
<b>D038</b>	Industrial Systems, Inc.	Model EC150 Incline-Vac Hydro-Vacuum Excavator with 150 gallon vacuum tank and 60 gallon water tank. No CDL licenses required	
<b>D039</b>	Pipe Hunter	Trailer Mounted Hydro-Excavator	
<b>D040</b>	Ring-o-Matic	VL150 Skid-Truck Mounted Hydro Excavator 100 Gal Water,150 Gallon Debris, Gas Powered	
<b>D041</b>	Ring-o-Matic	VL150 Trailer Trailer Mounted Hydro Excavator 100 Gal Water,150 Gallon Debris, Gas Powered	
<b>D042</b>	Ring-o-Matic	V-275 Skid-Truck Mounted Hydro Excavator 100 Gal Water, 250 Gallon Debris, Gas Powered	
<b>D043</b>	Ring-o-Matic	VL275 Trailer Trailer Mounted Hydro Excavator 100 Gal Water, 250 Gallon Debris, Gas Powered	
<b>D044</b>	Ring-o-Matic	VL350 Skid-Truck Mounted Hydro Excavator, 100 Gal Water, 350 Gallon Debris, Gas Powered	
<b>D045</b>	Ring-o-Matic	VL350 Trailer-Trailer Mounted Hydro Excavator, 100 Gal Water, 350 Gallon Debris, Gas Powered	
<b>D046</b>	Ring-o-Matic	VL550 Skid-Truck Mounted Hydro Excavator, 200 Gal Water, 550 Gallon Debris, Gas Powered	
<b>D047</b>	Ring-o-Matic	VL550 Trailer-Trailer Mounted Hydro Excavator, 200 Gal Water, 550 Gallon Debris, Gas Powered	
<b>D048</b>	Ring-o-Matic	VL850 Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 800 Gallon Debris, Gas Powered	
<b>D049</b>	Ring-o-Matic	VL850 Trailer-Trailer Mounted Hydro Excavator, 500 Gal Water, 800 Gallon Debris, Gas Powered	
<b>D050</b>	Ring-o-Matic	VL1300 Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 1300 Gallon Debris, Gas Powered	
<b>D051</b>	Ring-o-Matic	VL1300 Trailer-Trailer Mounted Hydro Excavator, 500 Gal Water, 1300 Gallon Debris, Gas Powered	
<b>D052</b>	Ring-o-Matic	150-STD Skid-Truck Mounted Hydro Excavator, 100 Gal Water, 150 Gallon Debris Tank, Diesel	
<b>D053</b>	Ring-o-Matic	150-STD Trailer-Trailer Mounted Hydro Excavator, 100 Gal Water, 150 Gallon Debris Tank, Diesel	
<b>D054</b>	Ring-o-Matic	275-STD Skid-Truck Mounted Hydro Excavator, 100 Gal Water, 250 Gallon Debris Tank, Diesel	
<b>D055</b>	Ring-o-Matic	275-STD Trailer-Trailer Mounted Hydro Excavator, 100 Gal Water, 250 Gallon Debris Tank, Diesel	

<b>D056</b>	Ring-o-Matic	550-STD Skid-Truck Mounted Hydro Excavator, 200 Gal Water, 550 Gallon Debris Tank, Diesel	
<b>D057</b>	Ring-o-Matic	550-STD Trailer-Trailer Mounted Hydro Excavator,200 Gal Water, 550 Gallon Debris Tank, Diesel	
<b>D058</b>	Ring-o-Matic	550-HiCFM Skid-Truck Mounted Hydro Excavator, 200 Gal Water, 550 Gallon Debris Tank, Diesel	
<b>D059</b>	Ring-o-Matic	550-HiCFM Trailer-Trailer Mounted Hydro Excavator,200 Gal Water, 550 Gallon Debris Tank, Diesel	
<b>D060</b>	Ring-o-Matic	850-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 800 Gallon Debris Tank, Diesel	
<b>D061</b>	Ring-o-Matic	850-STD Trailer-Trailer Mounted Hydro Excavator ,500 Gal Water, 800 Gallon Debris Tank, Diesel	
<b>D062</b>	Ring-o-Matic	850-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 800 Gallon Debris Tank, Diesel	
<b>D063</b>	Ring-o-Matic	850-HiCFM Trailer-Trailer Mounted Hydro Excavator,500 Gal Water, 800 Gallon Debris Tank, Diesel	
<b>D064</b>	Ring-o-Matic	1300-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 1300 Gallon Debris Tank, Diesel	
<b>D065</b>	Ring-o-Matic	1300-STD Trailer-Trailer Mounted Hydro Excavator ,500 Gal Water, 1300 Gallon Debris Tank, Diesel	
<b>D066</b>	Ring-o-Matic	1300-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 1300 Gallon Debris Tank, Diesel	
<b>D067</b>	Ring-o-Matic	1300-HiCFM Trailer-Trailer Mounted Hydro Excavator,500 Gal Water, 1300 Gallon Debris Tank,	
<b>D068</b>	Ring-o-Matic	1600-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 1600 Gallon Debris Tank, Diesel	
<b>D069</b>	Ring-o-Matic	1600-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 1600 Gallon Debris Tank, Diesel	
<b>D070</b>	Ring-o-Matic	2000-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 2000 Gallon Debris Tank, Diesel	
<b>D071</b>	Ring-o-Matic	2000-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 2000 Gallon Debris Tank, Diesel	
<b>D072</b>	Ring-o-Matic	2600-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 2600 Gallon Debris Tank, Diesel	
<b>D073</b>	Ring-o-Matic	3000-STD Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 3000 Gallon Debris Tank, Diesel	
<b>D074</b>	Ring-o-Matic	2600-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 2600 Gallon Debris Tank, Diesel	
<b>D075</b>	Ring-o-Matic	3000-HiCFM Skid-Truck Mounted Hydro Excavator, 500 Gal Water, 3000 Gallon Debris Tank, Diesel	
<b>D076</b>	Sewer Equipment Co.	RamVac HX-1000 Trailer Mounted Hydro Excavator, 3-yd debris, 325 gal water tank, 1400 CFM blower	
<b>D077</b>	Sewer Equipment Co.	RamVac HX-2000 Trailer Mounted Hydro Excavator, 3-yd debris, 325 gal water tank, 2400 CFM blower	
<b>D078</b>	Sewer Equipment Co.	RamVac HX-3000 Trailer Mounted Hydro Excavator, 3-yd debris, 325 gal water tank, 3000 CFM blower	
<b>D079</b>	Sewer Equipment Co.	RamVac HX-3 Truck Mounted Hydro Excavator, 3-yd debris, 325 gal water tank, 3000 CFM blower	
<b>D080</b>	Sewer Equipment Co.	RamVac HX-6 Truck Mounted Hydro Excavator, 6-yd debris, 650 gal water tank, 3000 CFM blower	
<b>D081</b>	Sewer Equipment Co.	RamVac HX-9 Truck Mounted Hydro Excavator, 9-yd debris, 1300 gal water tank, 3000 CFM blower	
<b>D082</b>	Sewer Equipment Co.	RamVac HX-12 Truck Mounted Hydro Excavator, 12-yd debris, 1300 gal water tank, 3000 CFM blower	
<b>D083</b>	Sewer Equipment Co.	RamVac HX-12-27 Truck Mounted Hydro-Excavator, 12-yd debris, 1300 gal water tank, 5400 CFM blower	
<b>D084</b>	Sewer Equipment Co.	RamVac HX-15 Truck Mounted Hydro Excavator, 15-yd debris, 1300 gal water tank, 3000 CFM blower	
<b>D085</b>	Sewer Equipment Co.	RamVac HX-15-27 Truck Mounted Hydro Excavator, 15-yd debris, 1300 gal water tank, 5400 CFM blower	
<b>D086</b>	Super Products	Truck Mounted "Mud Dog" Hydro-Excavator, Model 650	
<b>D087</b>	Super Products	Truck Mounted "Mud Dog" Hydro-Excavator, Model 1000, 10.8 cu yd, 1000 gallon water; Dresser PD vacuum pump	
<b>D088</b>	Super Products	Truck Mounted "Mud Dog" Hydro-Excavator Model 1200, 16.0 cu yd, 1500 gallon water, Dresser PD vacuum pump	
<b>D089</b>	Vac-Con	Truck Mounted Hydro-Excavator	
<b>D090</b>	VacStar	VS500DT - Vacuum Trailer Mounted Diesel	
<b>D091</b>	VacStar	VS800DT - Vacuum Trailer Mounted Diesel	
<b>D092</b>	VacStar	VS500GT - Vacuum Trailer Mounted GAS	
<b>D093</b>	VacStar	VS800GT - Vacuum Trailer Mounted GAS	
<b>D094</b>	Vactor Mfg.	Model HXX truck mounted, dual stage fan, 1300 gallons of water, 12-yard debris body.	
<b>D095</b>	Vactor Mfg.	Model HXX truck mounted, PD Blower, 1,300 gallons of water, 12 yard debris body.	
<b>D096</b>	Vactor Mfg.	Model HXX Prodigy truck mounted, PD Blower, 600 gallons of water, 6-yard debris body.	
<b>D097</b>	Vactron	Trailer Mounted Hydro-Excavator	

**E. Standard Portable Sewer Inspection Systems**

<b>E001</b>	Aries	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.	
<b>E002</b>	Aries	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.	
<b>E003</b>	Aries	Pathfinder "4.70.39 Portable Inspection System", including: PE3600 Pathfinder camera; TR3300 Pathfinder tractor for relined 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.	
<b>E004</b>	Cobra Technologies	Lateral inspection push rod camera system to include, auto up-right camera, 10.4" Daylight monitor in a Rugged Case Design. Other features of the command module are USB recording, MPEG files, 16 pages of text writing, on-screen footage, 2 hour battery with charger, 512 Hz Sonde and camera sonde locator. Also included is 200ft of standard rod with coiler.	
<b>E005</b>	Cobra Technologies	Lateral inspection push rod camera system to include, auto up-right camera, 10.4" Daylight monitor in a Rugged Design WeatherProof case. Other features of the command module are USB recording, MPEG files, 16 pages of text writing, on-screen footage, 2 hour battery with charger, 512Hz Sonde and camera sonde locator. Also included is 200ft of standard rod with coiler.	
<b>E006</b>	Cobra Technologies	Lateral inspection push rod camera system to include: auto up-right camera 12.1" Daylight HDMI monitor, Super bright monitor and HDD recording for lining work and other tough jobs requiring High-Quality inspections in a Rugged Case design. Other features of the command module are USB recording, MPEG files, 16 pages of text writing, on-screen footage, 4 hour battery with charger, 512Hz Sonde and camera sonde locator. Also included is 200ft of standard rod with coiler.	
<b>E007</b>	Cobra Technologies	Kummert Color CamFlex camera that is extremely flexible, negotiable and bendable. The portable command module features are USB recording, MPEG Files, 16 pages of text writing, on-screen footage, battery with charger, Camera controls, LED brightness. Include push rod from 100ft to 330ft. Also included is Cobra Touch Pro with PACP software.	
<b>E008</b>	Cobra Technologies	Kummert pan and tilt, auto up-right push rod camera system to include command module with 100ft of rod to 330ft. Features of the command module include, text generation, USB recording, monitor, Sonde, battery, Camera cotrols, LED brightness controls. Also included is Cobra Touch Pro with PACP Software.	
<b>E009</b>	Cobra Technologies	Kummert Steerable tractor for pipe sizes of 6" to 42" diameter pipe with Pan, Tilt and Zoom Camera. This complete system comes with a command module, 1000ft of cable with automatic cable reel, wheels, remote elevator and lighting. Other features include: text generation, USB recording, monitor, Sonde, battery, Camera controls, crawler controls, LED brightness controls. Included is the Cobra Touch Pro V8 with PACP software.	
<b>E010</b>	Cobra Technologies	Cobra Portable Mainline Inspection System. Includes either the Cobra 150 (C601) for relined 6"-15" pipe or the Cobra 8" Crawler (C800) for 8"-24" pipe, Cobra PTZ Camera, Reel assembly on wheeled dolly with 500' Multi Conductor Cable, Footage Head, Downhole Equipment. Control Unit in weather proof enclosure with 10.4" Sunlight readable Monitor, Data overlay for ftg with Keyboard input, DVR Recorder. One Day Training.	
<b>E011</b>	Cobra Technologies	Pallet based system for easy transportation of unit. Includes pan & tilt, zoom camera with crawler, universal controller, motorized cable reel and 1000ft of cable. This unit includes either a 2K watt generator or inventor. The universal controller will also include the Cobra Touch Pro V8 software and sunlight readable touch screen. This software is PACP certified.	
<b>E012</b>	Cobra Technologies	Cobra Portable Inspection Unit is a compact wheeled unit with a sunlight readable monitor, motorized cable reel with up to 1000ft of cable, pan & tilt, zoom camera and crawler. This unit also include Cobra Touch Pro V8 software that is PACP certified.	

<b>E013</b>	Cobra Technologies	Cobra Universal Portable Control Consol. Portable light weight console replaces the out-dated, bulky controllers of the past. The portable controller replaces all the rack mounted hardware currently installed in a TV inspection van and eliminates PCU, monitor, VCRs, pan and tilt controllers, crawler controllers and data unit. Completely self contained integrated portable control console for use with any US manufactured controllers, single or multi conductor capable.	
<b>E014</b>	Cues	Mini Push 2020 - Portable Pipeline Inspection System”, including: PS3 miniature self-leveling inspection camera with built in 512Hz sonde, wheeled coiler with 6.4” LCD monitor, 200’ of push rod cable, built in titling system with electronic footage readout and push skids for 3” to 8” pipe.	
<b>E015</b>	Cues	K2 System - Portable Mainline Pull System”, including: Night Owl pan and tilt camera, Ultra Shorty self propelled tractor for 6”-15” lines, Power Control Unit with integral 10” monitor, Pro Data data display system, DVR-SD , wheeled dolly with 500’ multi-conductor TV cable and footage head, and downhole equipment.	
<b>E016</b>	Cues	Lite Stick Pole Camera system, with inspection pole, wireless video transmitter, rechargeable battery and camera head assembly	
<b>E017</b>	Cues	QZ II Zoom Pole Camera system, including: compact high resolution zoom camera with HID lighting, extendable telescoping pole, video image stabilization, Class 2 ANSI safety vest and rechargeable battery	
<b>E018</b>	Cues	MP+ - Portable Pipeline Inspection System : Portable lateral & mini-mainline push system. This modularly designed system stands out by integrating all of the most sought after features including video titling, video inspection coding, digital recording and portability into an easy to use and intuitive package. System includes a miniature self leveling camera with built in sonde, stainless steel durable wheeled coiler with 200’ of push cable and large 8.4 industrial grade monitor with built in titling and digital recording in a weather/water resistant enclosure for 2” – 12” pipelines.	
<b>E019</b>	Envirosight	Standard Rovver X System (E-RX-SYS-Truck_Basic) with VC200 Pendant Controller with Desk Mount and US –Connector PC-VC, RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RAX300 Cable Reel with Wireless Remote and 300M of Orange Gore Cable. Additional Accessories include Emergency Stop cable for Reel, Mounting Frame for Reel, Pressurization Kit. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E020</b>	Envirosight	Rovver X System with DCX5000 Desk Mounted Controller (E-RX-SYS-Truck_PRO) with CCUI and US –Connector PC-VC, RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RAX300 Cable Reel with Wireless Remote and 300M of Orange Gore Cable. Additional Accessories include Emergency Stop cable for Reel, Mounting Frame for Reel, Pressurization Kit. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E021</b>	Envirosight	Rovver X System with DCX5000 Desk Mounted Controller (E-RX-SYS-Truck_PRO 500) with CCUI and US –Connector PC-VC, RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RAX500 Cable Reel with CCU II, Rear Controller, 500M of Orange Gore Cable, and Cable Guide Pulley. Additional Accessories include Emergency Stop cable for Reel, and Pressurization Kit. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E022</b>	Envirosight	(SAT System in addition to RX PRO System E-RX-SYS-SAT_ADD) Rovver X SAT System includes RAXSAT 150 Cable Reel with 150M Standard Cable and 30M Pushrod cable. RX140 SAT Crawler with additional wheels, PTP70 Pan & Tilt Camera with RX Adaptor, set of 5 Guide Pipes, and double cable Guide Pulley.	
<b>E023</b>	Envirosight	(SAT System in addition to RX Basic System E-RX-SYS-SAT_DCX5000) Rovver X SAT System includes RAXSAT 150 Cable Reel with 150M Standard Cable and 30M Pushrod cable. DCX5000 Desk Mounted Controller with CCUI RX140 SAT Crawler with additional wheels, PTP70 Pan & Tilt Camera with RX Adaptor, set of 5 Guide Pipes, and double cable Guide Pulley.	

<b>E024</b>	Envirosight	(Complete RX SAT System - no Mainline Crawler or Camera included E-RX-SYS-SAT) Rovver X SAT System includes RAXSAT 150 Cable Reel with 150M Standard Cable and 30M Pushrod cable, RAX300 Cable Reel with Wireless Remote, Mounting Frame, Emergency Stop Cable, and 300M Cable. DCX5000 Desk Mounted Controller with CCUI RX140 SAT Crawler with additional wheels, PTP70 Pan & Tilt Camera with RX Adaptor, set of 5 Guide Pipes, and double cable Guide Pulley.	
<b>E025</b>	Envirosight	(RX & SAT System Complete with Mainline Crawler and Camera E-RX-SYS-SAT_Complete) Rovver X SAT System includes RAXSAT 150 Cable Reel with 150M Standard Cable and 30M Pushrod cable. DCX5000 Desk Mounted Controller with CCUI RX140 SAT Crawler with additional wheels, PTP70 Pan & Tilt Camera with RX Adaptor, set of 5 Guide Pipes, and double cable Guide Pulley. Rovver X System RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RAX300 Cable Reel with Wireless Remote and 300M of Orange Gore Cable. Additional Accessories include Emergency Stop cable for Reel, Mounting Frame for Reel, Pressurization Kit. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E026</b>	Envirosight	Rovver X Industrial System (E-RX-SYS-Industrial) with VC200 Pendant Controller with US –Connector PC-VC, RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RMX100 Reel with Cases and Electronics, 100 Meters of Cable Included. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E027</b>	Envirosight	Rovver X Portable System (E-RX-SYS-Portable) with VC200 Pendant Controller with US –Connector PC-VC, RCX90 Camera, RX130 Crawler with Backeye Camera, Inclination, Sonde & Clutch included, RMX200 Manual Cable Reel with 200 Meters of Cable and Pendant Mount. Wheel Sets include, 6 small standard rubber wheels, 4 Medium rubber wheels, 4 Large Rubber Wheels, 4 Medium Grease Wheels, and wheel extenders.	
<b>E028</b>	Envirosight	VeriSight Pro 200' Push Camera with Digital Viewer/Recorder E-V-SYS-090-000. Standard Package with 200' cable, self-leveling camera, tri-frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 3 skids, and tooling.	
<b>E029</b>	Envirosight	Verisight PRO System - Standard Package with 330' cable (E-V-SYS-090-100), self-leveling camera, tri-frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 3 skids, and tooling.	
<b>E030</b>	Envirosight	Verisight PRO System - Standard Package with 130' Cable (E-V-SYS-090-400), self leveling camera, tri frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 3 skids, and tooling.	
<b>E031</b>	Envirosight	VeriSight Pro 360 200' Pan/Tilt Push Camera with Digital Viewer/Recorder (E-V-SYS-360-000) - Standard Package with 200' cable, pan/tilt camera, tri-frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 2 skids, and tooling.	
<b>E032</b>	Envirosight	VeriSight Pro 360 330' Pan/Tilt Push Camera with Digital Viewer/Recorder (E-V-SYS-360-119) - Standard Package with 330' cable, pan/tilt camera, tri-frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 2 skids, and tooling.	
<b>E033</b>	Envirosight	VeriSight Pro 360 130' Pan/Tilt Push Camera with Digital Viewer/Recorder (E-V-SYS-360-419) - Standard Package with 130' cable, pan/tilt camera, tri-frequency sonde, battery powered control unit with viewing, control, text generation, recording and digital output, accessories case with USB memory stick, 2 skids, and tooling.	
<b>E034</b>	Envirosight	QuickView Haloptic System. (E-QV_Haloptic-24 ) QV Haloptic camera head with Sony 1020 camera module, vest-mounted camera control unit, battery pack with charger, 24' carbon-fiber pole, operator vest, wireless dual (2) 3.6" monitor/recorders with pole mount and storm shipping case.	

<b>E035</b>	Envirosight	QuickView Haloptic System. (E-QV_Haloptic-16) QV Haloptic camera head with Sony 1020 camera module, vest-mounted camera control unit, battery pack with charger, 16' carbon-fiber pole, operator vest, wireless dual (2) 3.6" monitor/recorders with pole mount and storm shipping case.	
<b>E036</b>	Envirosight	QuickView Haloptic System. E-QV_Haloptic-30) QV Haloptic camera head with Sony 1020 camera module, vest-mounted camera control unit, battery pack with charger, 30' carbon-fiber pole, operator vest, wireless dual (2) 3.6" monitor/recorders with pole mount and storm shipping case.	
<b>E037</b>	Envirosight	JetScan HD Video Nozzle - Complete system with camera, jetter sled, set of 6 nozzle plugs, camera case, battery charger, two 16 GB SD cards, two spare windows, two spare window o-rings, spare window screws, torx wrench, spare cap o-ring, Rain-X and Loctite.	
<b>E038</b>	IBAK	Portable Inspection System 3" to 24" push camera/crawler system, powered reel with cable, self up righting camera, control station with screen and text editing system.	
<b>E039</b>	IBAK	Portable Inspection System 6" to 72" push camera/crawler system, powered reel with cable, self up righting camera, control station with screen and text editing system.	
<b>E040</b>	Insight Vision	Portable Inspection System 3" to 8" push camera w/200' reel, 9" screen, vhs recorder, self up righting camera, and power supply.	
<b>E041</b>	Pearpoint	P340 flexiprobe® Mini incl. Command Center, Mini reel with 100' push rod, 25mm color camera, universal flexispring, skid set.	
<b>E042</b>	Pearpoint	P340 flexiprobe® Standard incl. Command Center, Standard reel with 200' push rod, 50mm self-leveling color camera, universal flexispring, skid set.	
<b>E043</b>	Pearpoint	P350 Portable Inspection System, Manual Drum with up to 1000' cable, 4" crawler with Pan & Tilt Zoom Camera for Pipe Inspection of 4-15" diameter pipes. Comes complete with Downhole System, Digital Command Module with Compact Flash Recording, Bluetooth Capabilities.	
<b>E044</b>	Pearpoint	P350 Portable Inspection System, Manual Drum with up to 1000' cable, 6" crawler with Pan & Tilt Zoom Camera for Pipe Inspection of 6-24" diameter pipes. Comes complete with Downhole System, Digital Command Module with Compact Flash Recording, Bluetooth Capabilities.	
<b>E045</b>	Pearpoint	P350 Portable Inspection System, Motorized Drum with up to 1000' cable, 6" crawler with Pan & Tilt Zoom Camera for Pipe Inspection of 6-24" diameter pipes. Comes complete with Downhole System, Digital Command Module with Compact Flash Recording, Bluetooth Capabilities.	
<b>E046</b>	Pearpoint	P350 Portable Inspection System, Motorized Drum with up to 1000' cable, 4" crawler with Pan & Tilt Zoom Camera for Pipe Inspection of 4-15" diameter pipes. Comes complete with Downhole System, Digital Command Module with Compact Flash Recording, Bluetooth Capabilities.	
<b>E047</b>	Pearpoint	P374 Intrinsically Safe System 25mm Camera 200' push rood, with qwerty Keyboard, footage counter, video out connector.	
<b>E048</b>	PipeHunter	Jet Eye Conversion System - Sewer video/cleaning system used in conjunction with an existing High Pressure Sewer Cleaner System. Expressed purpose of this equipment is to simultaneously clean and TV the sewer and storm lines.	
<b>E049</b>	Rausch	Portable Crawler Inspection System "MobilePro" 6 to 24 inch pipe diameter, cable reel with 820ft (250m) main cable, L135 transporter, KS135 pan & tilt camera, PCU, operating station with 2 multi-functional joysticks and 12" monitor; on-screen distance counter. Optional: L100cross tractor with KS60 camera; Laptop with inspection software.	
<b>E050</b>	Rausch	MC15 Push System, 1.2"-5", 18mm camera, 100ft cable, 512Hz sonde, 5.6" monitor with remote control, on screen distance counter.	
<b>E051</b>	Rausch	MC30Push System, 2MC15 Portable Push System, 1.2"-5", 18mm camera, 100ft cable, 512Hz sonde, 5.6" monitor with remote control, on screen distance counter. 2"-8", 29mm self leveling camera, 100ft cable, 512 Hz sonde, 5.6" monitor with remote control, on screen distance counter.	
<b>E052</b>	Rausch	MC50 Push System, 3"-16", 55mm self leveling camera, 160ft push cable standard, 512Hz sonde, 8.4" sunlight readable monitor, on screen distance counter, brush- and roller skids.	

<b>E053</b>	Rausch	MC30 Duo Push System, 0.6"-8", Dual Reel System, Outer reel 29mm self-leveling camera, 100ft cable, 512Hz sonde. Inner reel 13mm color camera, 50ft flexible cable, 512Hz sonde.	
<b>E054</b>	Rausch	MC50 Duo Push System, 2"-16", Dual Reel System, Outer reel 55mm self leveling camera, 160ft cable standard, 512Hz sonde. Inner reel 29mm self leveling camera, 65ft cable, 512Hz sonde, brush- and roller skids.	
<b>E055</b>	Rausch	MC360 Pan & Tilt Push System, 3"-16", electronic zoom, infinite rotation, auto focus, 200ft cable, 8.4" sunlight readable monitor and keyboard, 2 skids. 512Hz or 33KHz sonde included. Battery lasts for 4 hour operation, 90psi pressure tight. Video, picture and audio recording on SD card.	
<b>E056</b>	R.S. Technical Service	PE-2 Model 11-2002 Portable Mainline Motorized system to include: TrakSTAR LED Zoom Camera, Non Steering 6 wheel drive TranSTAR Transporter 6" to 30", 1375 Mainline Portable Controller mounted in a compact durable, water/air tight, crush proof Pelican case having a NTSC 15" LCD flat screen panel, DD Lite Text Writer and Footage Overlay, Digital Video Recorder, Built-in microphone, mounted on Compact Portable Mainline Reel loaded with 500' of Single Conductor double armored cable, Remote hand-held camera and tractor controller, Manhole Equipment and Manuals: Additional Equipment available to include Steerable TranSTAR, Rear View Camera, Wheel sets, additional Single Conductor cable and Data Collection upgrades upon request from published options.	
<b>E057</b>	R.S. Technical Service	PE-2 Model 11-2002-1 Portable Mainline Motorized system to include: TrakSTAR LED Zoom Camera, Steerable 6 wheel drive TranSTAR Transporter 6" to 30", 1375 Mainline Portable Controller mounted in a compact durable, water/air tight, crush proof Pelican case having a NTSC 15" LCD flat screen panel, Data Collection software to include POSM Lite and software support, Digital Video Recorder, Built-in microphone, mounted on Compact Portable Mainline Reel loaded with 500' of Single Conductor double armored cable, Remote Joystick camera and tractor controller, Manhole Equipment to include 3 extension poles, Operation and Installation Manuals :Additional Equipment available to include Rear View Camera, Wheels Sets, additional 500' of Single Conductor cable and Data Collection upgrades Available upon request from published options.	
<b>E058</b>	R.S Technical Service	Portable Mainline Inspection system mounted in a Transportation Cube measuring 42"x 43.5"x45", manufactured of Aluminum and powder coated with 2 slide out storage drawers. Powered by 2 KW self contained Honda generator with built in battery and fuel tank., Rack mounted Mainline Power Controller (PCU), Auxiliary Joystick Camera/Tractor controller, TrakSTAR LED Zoom Camera, Steerable 6 wheel drive TranSTAR Transporter 6" to 30", Wheel Set to include ( 6 Hi-Traction rubber wheels 8" -12", 4 Pneumatic wheels 12" and up, set of MegaTrak grit wheels and hubs to inspect 6" and up) Compact Mainline Cable Reel loaded with 1000' of Single Conductor double armored cable (5 year warranty included on both the reel and cable) Manhole Cable Guide, DD Lite Data Collection Text Write and Footage overlay, Digital Video Recorder, 19" Video/Computer Monitor, Key Board and Mouse. Additional equipment available from published options.	
<b>E059</b>	Trojan Tool	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.	
<b>E060</b>	Trojan Tool	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.	



<b>E061</b>	TV Ferret	Mini-Push Camera System, Includes: 200' of push rod cable, Stainless steel reel construction, 10.4" color LCD monitor, DVR video recorder, Variable intensity LED light control, Built in microphone, One touch power on and one touch recording, Operates off its own self charging battery source, 4"-6" camera skid, 2" straight pipes and up, extremely portable, easy to maneuver Stainless steel camera body construction, Variable high intensity LED light, Minimum 460 lines of resolution, Low-light sensitivity rating of 0.5 lux, Camera body size - 1.4" OD x 3" L, Briefcase style console, Watertight when closed, 10.4" color LCD monitor, DVR video recorder, DVR records to removable SD card, Data and footage video data overlay, Waterproof QWERTY keyboard, Built in microphone, Stainless steel construction, Rugged wheels for easy mobility, Maintenance free gold contact slip ring, Reel size - 16" x 39" x 28", Low friction polypropylene jacketed Kevlar reinforced multi-conductor push cable, Flexible spring end for negotiating pipe bends.	
<b>E062</b>	TV Ferret	Portable Mainline Inspection System - 6" - 24" Pipes - Heavy duty DC permanent magnet motor, Planetary speed reduction, Spiral bevel drive gears, High Resolution, ultra low light color video camera, Electronic iris, Adjustable focus, One piece, reinforced stainless steel crawler body, Stainless steel face plate, Stainless steel articulating rear cable receptor, One piece ribbed, continuous loop, urethane drive tracks, Precision bearings, Valve port for low pressure leak test, Plastic clad stainless steel lift loops for raising and lowering crawler, 6" crawler for 6" to 24" pipe, REEL: 600' of heavy duty urethane jacketed, kevlar reinforced multi-conductor cable, Watertight cable, termination with integrated strain relief, Zero drag payout of cable, Variable speed power rewind, Cantilever footage metering head, Enclosed, maintenance free electrical components, Portable, can be carried to remote sites, CONSOLE: Strong, durable case, High resolution LCD flat panel color monitor, Digital video and audio recorder, archiving to a SD card, On screen display of text and footage distance, Variable light intensity control, Variable forward and reverse crawler control, Microphone for audio recording, Waterproof keyboard, Joystick Pan&Tilt control, Console nests into battery pack, BATTERY PACK: 12VDC sealed, non-spillable, maintenance free deep-cycle batteries, Low voltage power supply, Integrated automatic charging system, standard 120VAC input, Capable of operating the system continually during 8 hour work days.	
<b>E063</b>	TV Ferret	Portable Mainline Inspection System 8" - 36" Pipes, 200' of push rod cable, Stainless steel reel construction, 10.4" color LCD monitor, DVR video recorder, Variable intensity LED light control, Built in microphone, One touch power on and one touch recording, Operates off its own self charging battery source, 4"-6" camera skid, 2" straight pipes and up, extremely portable, easy to maneuver Stainless steel camera body construction, Variable high intensity LED light, Minimum 460 lines of resolution, Low-light sensitivity rating of 0.5 lux, Camera body size - 1.4" OD x 3" L, Briefcase style console, Watertight when closed, 10.4" color LCD monitor, DVR video recorder, DVR records to removable SD card, Data and footage video data overlay, Waterproof QWERTY keyboard, Built in microphone, Stainless steel construction, Rugged wheels for easy mobility, Maintenance free gold contact slip ring, Reel size - 16" x 39" x 28", Low friction polypropylene jacketed Kevlar reinforced multi-conductor push cable, Flexible spring end for negotiating pipe bends.	

E064	TV Ferret	Portable Mainline Inspection System 12" - 120" Pipes, Heavy duty DC permanent magnet motor, Planetary speed reduction, Spiral bevel drive gears, High Resolution, ultra low light color video camera, Electronic iris, Adjustable focus, One piece, reinforced stainless steel crawler body, Stainless steel face plate, Stainless steel articulating rear cable receptor, One piece ribbed, continuous loop, urethane drive tracks, Precision bearings, Valve port for low pressure leak test, Plastic clad stainless steel lift loops for raising and lowering crawler, 12" crawler for 12" to 120" pipe, REEL: 600' of heavy duty urethane jacketed, kevlar reinforced multi-conductor cable, Watertight cable, termination with integrated strain relief, Zero drag payout of cable, Variable speed power rewind, Cantilever footage metering head, Enclosed, maintenance free electrical components, Portable, can be carried to remote sites, CONSOLE: Strong, durable case, High resolution LCD flat panel color monitor, Digital video and audio recorder, archiving to a SD card, On screen display of text and footage distance, Variable light intensity control, Variable forward and reverse crawler control, Microphone for audio recording, Waterproof keyboard, Joystick Pan&Tilt control, Console nests into battery pack, BATTERY PACK: 12VDC sealed, non-spillable, maintenance free deep-cycle batteries, Low voltage power supply, Integrated automatic charging system, standard 120VAC input, Capable of operating the system continually during 8 hour work days.	
E065	Vivax	Vivax portable push rod system with 200' of cable, color camera, control box, 8" LCD monitor, recording capability to 120 GB hard drive, Stainless steel cable reel. Built in footage counter and sonde.	
<b>F. Explosion-Proof Portable Sewer Inspection Systems</b>			
F001	Pearpoint	Portable Mainline Tractor System for 6"-36" diameter pipes; Explosion Proof - NRTL Approved, Labelled and Listed with P320 Universal Controller - Combination Camera Power Control Unit/Monitor with video recording capability; 500' flexible video cable; P117 manual video cable dolly with integrated footage counter; P420 Tractor - self-propelled camera transporter; cable manhole guides; 05 and 06 light heads; P494 Pan & Tilt camera with 4 sets of wheels for pipe inspection of 6" - 36" diam.	
F002	Pearpoint	Portable Mainline Pushrod System for 4"-24" diameter pipes; Explosion Proof - NRTL Approved, Labelled and Listed with P320 Universal Controller - Combination Camera Power Control Unit/Monitor with video recording capability; 500' push rod; P118 rod coiler with integrated footage counter; P415Mk2 camera, P417 and 418 light heads; skid set.	
F003	Pearpoint	P571 Large Push Rod System with P415 Camera for 4"-24" diameter pipes; Explosion Proof - NRTL Approved, Labelled and Listed with All inclusive unit with 500' push rod, built-in monitor with qwerty keyboard, straight view, self-levelling color camera, footage counter, video out connector with P417 and P418 light heads.	
F004	Pearpoint	P571 Large Push Rod System with P455 Twinview Camera for 4" - 18" ; Explosion Proof - NRTL Approved, Labelled and Listed with All inclusive unit with 500' push rod, built-in monitor with qwerty keyboard, straight and side viewing, self-levelling color camera, footage counter, video out connector with P445 light head.	
F005	R.S. Technical Service Inc	Explosion Proof Mainline Portable System to include: EP Color Camera, NRTL tested and certified, Self-Propelled EP 6 wheel camera transporter to inspect 6" to 36", 1375 Ultra Portable Mainline Portable Controller with/ DD Lite Text Writer and Footage Overlay, Digital Video Recorder and 15" LCD Flat panel screen, Joystick desktop camera and tractor controller, Compact Portable Reel with 500' of Single Conductor Cable, Down hole equipment. Two Days Training: Explosion Proof Camera and Tractor operate on any RST Controller, Explosion Proof Equipment for truck mounted and wheel options quoted on request.	

F006	R.S. Technical Service Inc	Explosion Proof Mainline System to be mounted in a Vehicle/Trailer to be provided by customer which will include; Standard basic interior cabinetry and finishings, 5.5 Kw generator with 12 volt charging system, Safety Exterior Lighting, Roof mounted A/C and Wall heater, operators chair, Cable Kit for installation of equipment, Water Wash down system to include sink and faucet, Water proof Non-Skid surface in equipment room Rack mounted Power Control Unit (PCU) Joystick Desktop controller for camera and tractor functions, Mainline Cable Reel with 1000 feet of Single Conductor Double Armor cable (4,500 lb braking strength, both with 5 year warranty, EP color Camera, NTRL tested and certified, Self-Propelled EP 6 wheeled camera transporter, wheel sets to include 6 each Hi-Traction Wheels to inspect 8" to 12", Pneumatic Wheels to insoect 12" to 30", D D Lite Text writer and footage overlay, Digital Video Recorder (DVR), 19" LCD video/computer monitor, Down hole cable guide System, two (2) day training.	
<b>G. Sewer Inspection Vans</b>			
G001	Aries	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; PE2620 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.	
G002	Aries	One Ton Van Installation "2.02.53 One Ton Van Mounted Inspection System", including: basic cargo van interior carpentry and outfitting; 5.5kW on-board generator; PE2620 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	
G003	Aries	Trailer System "2.02.54 Trailer Mounted Inspection System", including: 7x14 Bravo Star trailer; basic trailer interior carpentry and outfitting; 5.5kW on-board generator; PE2620 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.	
G004	Aries	Hi-Cube Van "2.02.51 Hi-Cube Mounted Inspection System", including: Ford E450 gas cutaway with 16' aluminum hi-cube body; basic hi-cube interior carpentry and outfitting; 5.5kW on-board generator; PE2620 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. Note - not valid in HI, LA, and TX.	
G005	Aries	One Ton Van "2.02.53 One Ton Van Mounted Inspection System", including: GMC Savana 3500 extended gas cargo van chassis, basic cargo van interior carpentry and outfitting; 5.5kW on-board generator; PE2620 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. Note - not valid in HI, LA, and TX.	
G006	Cobra Technologies	Hi-Cube Gas Van Inspection DRW with Walk Through from Cab Area to control room. 14' aluminum/FRP HiCube Body with aerocap includes interior carpentry outfitting and interior/exterior lighting, 6kW Gas Generator, Equipment includes Cobra PTZ Camera, 6"-15"(C601) or 8"-24"(C800/801) Crawler, Rack Mount Electronics, LCD Monitor, DVR, Footage overlay with Keyboard input, Cobra Main line Cable Reel, 1000' Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) Day Training.	

<b>G007</b>	Cobra Technologies	One Ton Van Installation with walk thru access from control room to equipment room includes interior carpentry upfitting for a control and equipment area with window and walk thru door, interior/exterior lighting. 6KW Inverter Power System with roof mout AC or 5 KW gas generator. Equipment includes Cobra PTZ Camera, choice of 6"-15"(C601) or 8"-24"(C800) Crawler, Rack Mounted Electronics and power control unit, DVR with footage overlay and keyboard input, LCD 17" Monitor, Cobra Main line Cable Reel with 1000' Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) Day Training.	
<b>G008</b>	Cobra Technologies	DRW Van (14,050 GVW) Installation to include 14' body with walk through from cab area to control room. Interior carpentry and upfitting, 7 KW Generator, Roof AC Equipment includes Cobra PTZ Camera, choice of 6"-15"(C601) or 8"-24"(C800) Crawler, Rack Mounted Electronics, LCD Monitor, DVR with fotage overlay and keyboard input, Cobra Cable Reel with 1000' Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) Day Training.	
<b>G009</b>	Cobra Technologies	Cobra Trailer Installation 7 x 12 trailer includes basic interior carpentry and outfitting, 5kW Generator installed in soundproof enclosure Equipment includes Cobra PTZ Camera, choice of 6"-15"(C601) or 8"-24"(C800) Crawler, Rack Mounted Electronics, LCD Monitor, DVR with Footage overlay and keyboard input Cobra Minline Cable Reel with 1000' Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) Day Training.	
<b>G010</b>	Cobra Technologies	Cobra ATV Portable Load Space Weatherproof Enclosure with 2kW Generator. Rack Mounted Electronics, LCD Monitor (Sunlight Readable) , Equipment includes Cobra PTZ Camera, choice of 6"-15"(C601) or 8"-24"(C800) Crawler, DVR with keyboard entry and footage display, Cobra Mainline Cable Reel with 1000 Ft Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) Day Training. For hard to reach, off road inspection. Can be installed all types of "off- road" vehicles/ATVs Its modular construction provides for easy removal from ATV to Truck Mounted System or storage when not in use.	
<b>G011</b>	Cobra Technologies	Sprinter 3500 /Ford Transit Diesel Truck Installation with walk thru door from control room to equipment room includes interior carpentry upfitting for a control and equipment area with window and walk thru door, interior/exterior lighting. 6KW engine driven power system or 2KW Inverter/Battery Power System, Equipment includes Cobra PTZ Camera, choice of 6"-15"(C601) or 8"-24"(C800) Crawler, Rack Mounted Electronics and power control unit, LCD 15" Monitor, DVR, Footage overlay with keyboard entry , Cobra Mainline Cable Reel with 1000' Multi Conductor Cable, Footage Head, Wash down System, Downhole equipment, Maintenance Kit and One (1) day training.	
<b>G012</b>	Cues	One Ton Cargo Van Installation (vehicle provided by customer) which includes: basic cargo van interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rackmounted DVD; TV reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit,downhole equipment and two (2) days of training.	
<b>G013</b>	Cues	Cargo Van TV Inspection Vehicle - Chevy C3500 Express One Ton Cargo Van - 155" wheelbase , gas engine, automatic transmission, cab air conditioning, AM/FM Radio, 9500 lb GVW which includes: basic cargo van interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rackmounted DVD; TV reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit,downhole equipment and two (2) days of training.	

<b>G014</b>	Cues	DRW Van Installation (Vehicle provided by customer) which includes: 12' aluminum hi-cube body with pass thru to viewing room from cab; Evolution Hi-Cube interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G015</b>	Cues	DRW Van TV Inspection Vehicle - Chevy C3500 Cutaway DRW Van - 139" wheelbase, gas engine, automatic transmission, cab air conditioning, AM/FM Radio, 12,300 GVW which includes: 12' aluminum hi-cube body with pass thru to viewing room from cab; Evolution Hi-Cube interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G016</b>	Cues	Hi-Cube Van Installation (vehicle provided by customer) which includes: 14' aluminum hi-cube body with full height walk thru to viewing room from cab; Evolution Hi-Cube interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G017</b>	Cues	Hi-Cube Van TV Inspection Vehicle - Ford E450 Cutaway Van, 158" wheelbase, gas engine, automatic transmission, cab air conditioning, AM/FM Radio, 14,050 GVW which includes: 14' aluminum hi-cube body with full height walk thru to viewing room from cab; Evolution Hi-Cube interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G018</b>	Cues	Step Van Installation (vehicle provided by customer) which includes: 16' Step Van body with Evolution interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G019</b>	Cues	Step Van TV Inspection Vehicle - Ford F59 Step Van chassis, 178" wheelbase, gas engine, automatic transmission, cab air conditioning, AM/FM Radio, 19,500 GVW which includes: 16' Step Van body with Evolution interior carpentry and outfitting; 5.5KW on-board generator; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system with 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G020</b>	Cues	Sprinter Van Installation (vehicle provided by customer) which includes: Evolution Sprinter interior carpentry and outfitting; 6 KW MEPS inverter system(upgrade of chassis for MEPS system included); Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system; 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	

<b>G021</b>	Cues	Sprinter TV Inspection Vehicle - Freightliner Sprinter 3500, 170" wheelbase, diesel engine, automatic transmission, cab air conditioning, AM/FM Radio, 11,030 GVW which includes: 14' body, Evolution Sprinter interior carpentry and outfitting; 6 KW MEPS inverter system; Night Owl pan and tilt camera; rack-mounted Power Control Unit (PCU); Pro Data data display system; 19" LCD rack-mounted monitor; rack-mounted DVD; TV cable reel with drop-down cable guide, footage head, and 1000' of multi-conductor cable; Ultra Shorty self propelled tractor for 6"-15" lines; maintenance kit, downhole equipment and two (2) days training.	
<b>G022</b>	IBAK	Truck/Van mounted System with "Core Mainline System" installed for 4" through 36" diameter pipes; crawler system, color camera, camera power system, power cable drum with 656 feet cable, DVR recording system, 6kw generator, 17" lcd screen, control station, text generator, and complete van install package, ( carpet, work station, AC unit, power buss).	
<b>G023</b>	IBAK	Truck/Van mounted with "Premium Mainline System" installed for 6" through 72" diameter pipes; crawler system, color camera, camera power system, power cable drum with 1000 feet cable, DVR recording system, 6kw generator, 17" lcd screen, control station, text generator, and complete van install package, ( carpet, work station, AC unit, Power buss).	
<b>G024</b>	IBAK	Truck/Van mounted with "Elite Mainline System" installed for 6" through 120" diameter pipes; crawler system, color camera, camera power system, power cable drum with 1000 feet cable, DVR recording system, 6kw generator, 17" lcd screen, control station, text generator, and complete van install package, ( carpet, work station, AC unit, Power buss).	
<b>G025</b>	IBAK	Truck/Van mounted with "Lateral Launch System" installed for 6" through 72" diameter pipes; crawler system, color camera, camera power system, power cable drum with 500' feet mainline and 100' lateral push cable, DVR recording system, 6kw generator, 17" lcd screen, control station, text generator, and complete van install package, ( carpet, work station, AC unit, Power buss).	
<b>G026</b>	IBAK	Truck/Van mounted with "Panorama System" installed for 8" and 10" diameter pipes, crawler system, camera, wheelsets, camera power system, power cable drum with 500" of cable, computer with software. 6kw generator, 17" lcd screen, control station, text generator, and complete van install package, ( carpet, work station, AC unit, Power buss).	
<b>G027</b>	Pearpoint	Inspection Vehicle – Hi-Cube Van 14'; CHASSIS/BOX: Curr. Yr. Ford E450, 6.8L V-10 Gas engine, (5) speed automatic transmission, cab air conditioning, AM/FM radio, dual rear wheels; 13,000 GVW, 158" wheel base; 14' Hi-Cube aluminum van w/swing open rear doors w/barlock, heavy-duty bumper. EXTERIOR: Exit/Entrance side door in TV viewing room; Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G028</b>	Pearpoint	Inspection Vehicle - Step Van; CHASSIS/BOX: Curr Yr. E450 Ford 16' Utilimaster Step Van, 6.8L V10 Gas Engine, 4 Speed Auto Trans., cab air conditioning, AM/FM radio, 14,050 GVW, 176" wheel base. EXTERIOR: Exit/Entrance side door in TV viewing room; Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G029</b>	Pearpoint	Inspection Vehicle - Utility Van; CHASSIS: Curr. Yr. GMC, Savana Extended Cargo Van, Gas engine, (4) speed automatic transmission, cab air conditioning, AM/FM radio; 155" wheel base, 9,500 GVW. EXTERIOR: Bubble top, 20" extension; Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G030</b>	Pearpoint	Inspection Vehicle – Trailer; TRAILER: Current Year 14' Pro II Trailer, 9,990 GVW; Tandem 5,200 # axles with electric brakes both axles; Spare tire mount with 15" spare tire and wheel; 15" white modular wheels with 225/75R-15 tires; 2 5/16" ball coupler with dual safety chains; DOT standard light package with 6 or 7 pin connector; Emergency break-away system. EXTERIOR: Two (2) 1.5 million candle power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	

<b>G031</b>	Pearpoint	Inspection Vehicle - Freightliner Sprinter; CHASSIS/BOX: Curr. Yr. Dodge Sprinter 3500, 2.7 Mercedes Benz Diesel engine, (5) speed automatic transmission, cab air conditioning, AM/FM/CD radio, 158" wheel base. EXTERIOR: Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.5 KVA Onan diesel water-cooled generator.	
<b>G032</b>	Pearpoint	Mini Mainline System/Equipment and After Market Vehicle Conversion for client supplied 14' Hi-Cube vehicle (Hi-Cube MUST BE Current Year Model Ford E450, 6.8L V-10 Gas engine, (5) speed automatic transmission, cab air conditioning, AM/FM radio, dual rear wheels; 13,000 GVW, 158" wheel base; 14' Hi-Cube aluminum van w/swing open rear doors w/barlock, heavy-duty bumper OR EQUIVALENT) EXTERIOR: Exit/Entrance side door in TV viewing room; Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G033</b>	Pearpoint	Mini Mainline System/Equipment and After Market Vehicle Conversion for client supplied Step Van (Van MUST BE 2005 E450 Ford 16' Utilimaster Step Van, 6.8L V10 Gas Engine, 4 Speed Auto Trans., cab air conditioning, AM/FM radio, 14,050 GVW, 176" wheel base OR EQUIVALENT) EXTERIOR: Exit/Entrance side door in TV viewing room; Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G034</b>	Pearpoint	Mini Mainline System/Equipment and After Market Vehicle Conversion for client supplied Freightliner Sprinter (Vehicle MUST BE Current Year Model Dodge Sprinter 3500, 2.7 Mercedes Benz Diesel engine, (5) speed automatic transmission, cab air conditioning, AM/FM/CD radio, 158" wheel base OR EQUIVALENT) EXTERIOR: Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.5 KVA Onan diesel water-cooled generator.	
<b>G035</b>	Pearpoint	Mini Mainline System/Equipment and After Market Vehicle Conversion for client supplied Trailer - (Trailer MUST BE Current Year 14' Pro II Trailer, 9,990 GVW; Tandem 5,200 # axles with electric brakes both axles; Spare tire mount with 15" spare tire and wheel; 15" white modular wheels with 225/75R-15 tires; 2 5/16" ball coupler with dual safety chains; DOT standard light package with 6 or 7 pin connector; Emergency break-away system OR EQUIVALENT) EXTERIOR: Two (2) 1.5 million candle power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G036</b>	Pearpoint	Mini Mainline System/Equipment and After Market Vehicle Conversion for client supplied Utility Van (Vehicle MUST BE Current Year GMC, Savana Extended Cargo Van, Gas engine, (4) speed automatic transmission, cab air conditioning, AM/FM radio; 155" wheel base, 9,500 GVW. with Bubble top, 20" extension OR EQUIVALENT) EXTERIOR: Two (2) - 1.5 Million Candle Power Beacons; Exterior flood lights; Back-up alarm. 7.0 KVA Onan gas air-cooled generator.	
<b>G037</b>	Rausch	RT-BT - Ford or Chevy Gasoline High-Cube Boxtruck, E450, with 14 to 16ft box, barn or roll-up rear door, no side door (Note- not valid in Texas)	
<b>G038</b>	Rausch	RT-T - Carmate Trailer, dual torsion axles, electric brakes, 12-16' x 7 (Note- not valid in Texas)	
<b>G039</b>	Rausch	RT-VAN - Diesel 3500 Mercedes Sprinter, WB 170" (Note-not valid in Texas)	
<b>G040</b>	Rausch	Trailer mainline installation, 6"-36" pipe diameter, 4.3Kw gasoline generator tongue-mounted, KS135 mainline camera, EcoStar PCU, color monitor, data display system, PC and reporting software, Quadro300 cable reel assembly with 1000' cable; L135 steerable transporter with electric lift, rearview camera and inclination; maintenance & tool kit. 2 day customer training.	
<b>G041</b>	Rausch	Truck/Van mainline installation, 6"-36" pipe diameter, generator, KS135 mainline camera, EcoStar PCU, color monitor, data display system, PC and reporting software, Quadro300 cable reel assembly with 1000' cable; L135 steerable transporter with electric lift, rearview camera and inclination; maintenance & tool kit. 2 day customer training.	

<b>G042</b>	Rausch	Truck/Van mainline installation, 6"-60" pipe diameter, generator, KS135 mainline camera, EcoStar PCU, color monitor, data display system, PC and reporting software, ELKA600 cable reel assembly with 1300' cable; L135 steerable transporter with electric lift, rearview camera and inclination, maintenance & tool kits. 2 day customer training.	
<b>G043</b>	Rausch	Truck/Van mainline installation, 6"-72" pipe diameter, generator, KS135 mainline camera, Proline digital control unit, color monitor, data display system, PC and reporting software, ELKA600 cable reel assembly with 1700' cable; L135 transporter with electric lift, rearview camera and inclination; complete maintenance- tool-, troubleshoot- and accessory kits, Lafette-tractor, 3 day customer training.	
<b>G044</b>	Rausch	Truck/Van mainline & lateral launcher installation, 6"-60" pipe mainline diameter, 3"-8" lateral pipe diameter, generator, KS135 mainline camera, KS60 lateral launch camera and lateral modules, data display system, reporting software, main cable reel assembly with 1000' cable, lateral cable reel with a total of 550ft cable length, up to 160ft launch cable; L135 steerable transporter with electric lift, rearview camera and inclination; KS60 and MC SAT40 lateral cameras; maintenance-, tool- and accessory kit. 3 day customer training.	
<b>G045</b>	Rausch	Truck/Van "PanoVista" installation for 8" and 10" pipe diameter; 3-D mainline inspection system; Proline digital control unit; L135 steerable transporter with electric lift, rearview camera and inclination; PanoVista camera; ELKA600 with 1,000ft cable; computer with software; generator; control station; full package installation.	
<b>G046</b>	R.S.Technical Service, Inc.	Extended One Ton Van Installation to include; ( Customer to provide Chassis) basic cargo van interior cabinetry and finishing, Fiberglass raised roof, External Safety Lights, Water proof Non-Skid surface in equipment room, 5.5 Kw on- board Generator, 12 volt charging system, Roof mounted A/C and 1500 watt wall heater, Operator chair, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR steerable Transporter to inspect 6" to 30" pipe, Wheel Sets to include (6 each Hi-Traction wheels, pneumatic wheels and Mega-Trak Grit wheels) Rack mounted mainline Power Control Unit (PCU), DD Lite Text Writer and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Mainline, Joystick desktop camera and tractor controller, Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable, Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) Days Training. Rear View Camera and Data Collection upgrades available.	
<b>G047</b>	R.S.Technical Service, Inc.	Low Cost, High Efficiency Mainline Trailer to include; Exterior safety light, minimal basic interior install, outfitted with counter tops, electrical outlets, florescent light fixtures, 5 drawer tool box, wall divided interior with window, Operators chair, 3.0 kW air cooled Generator with built-in battery and fuel tank (portable tongue mounted), 12 Volt charging system, 1375 Portable Mainline Controller mounted in a compact water/air tight crush proof Pelican case with NTSC 15" LCD flat screen panel, DD Lite Text Writer and Footage Overlay, Digital Video Recorder, built-in microphone, Joystick desktop camera and tractor controller, TrakSTAR LED Zoom, Camera, TranSTAR Steerable 6 wheel Transporter for 6" to 30" pipe, Wheel Sets, Compact Portable Reel (Wheeled Dolly or Floor Mounted) 1000' of Single Conductor double armored cable, Down-hole equipment, Maintenance kit, Manuals and Two (2) Days Training. Rear View Camera and Data Collection upgrades are available.	



G048	R.S.Technical Service, Inc.	<p>CCTV Inspection System installed in a 12', 14' &amp; 16' Tandem Axle Trailer, White, Rear swing door, 32" side with RV lock, Rear Stabilizer Jack, LED light package, Mainline Installation to include; standard trailer interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 5.5 Kw on- board Generator, Fuel Tank, Battery in case, 12 volt charging system, Roof Mounted Air Conditioner, Wall Mounted 1500 Watt heater in control room, Operator Chair, Safety exterior lighting, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel Steerable TranSTAR Transporter to inspect 6" to 30" pipe, Wheel Sets to include (6 each Hi-Traction Rubber wheels to inspect 8" to 12", Pneumatic wheels 12" &amp; up, set to Mega-Trak grit wheels), Rack mounted mainline Power Control Unit (PCU), DD Lite Text Writer and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor function controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable, Wash down equipment to include sink and faucet, Maintenance kit, Down-hole equipment, Two (2) Days Training. , Rear View Camera, Elevator camera lift and Data Collection upgrades are available.</p>	
G049	R.S.Technical Service, Inc.	<p>Hi-Cube Van CCTV Inspection Vehicle (customer to provide chassis and box) Installation for 12', to 16' box. Mainline Installation to include; interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 5.5 Kw on- board Generator, 12 volt charging system, Roof mounted Air Conditioner and 1500 watt wall heater in control room, Operator chair, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel sets, Rack mounted Mainline Power control Unit (PCU), DD Lite Text Writer and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable, Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) Days Training. Rear View Camera, Data Collection and additional cable upgrades are available.</p>	
G050	R.S.Technical Service, Inc.	<p>One Ton Extended Cargo Van Installed in a (Customer provided Chassis for Chevy C3500 Super Cargo Van) basic cargo van interior cabinetry and finishing, Fiberglass raised roof, Safety Exterior Lighting, Water proof Non-skid surface in equipment room, 5.5 Kw on-board Generator, Roof mounted A/C and wall mounted 1500 watt heater, Operator chair, Water wash down system, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, wheel sets to include 6 each Hi-Traction wheels, Pneumatic Wheels, Mega-Trak grit wheels set, Rack mounted mainline Power Control Unit (PCU), DD Lite Text Writer and Footage Overlay, 19" LCD Video/computer Monitor, Digital Video Recorder, Mainline, Joystick desktop camera and tractor controller, Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable, Maintenance kit, Down-hole equipment, Two (2) Days Training. Rear View Camera and Data Collection upgrades available.</p>	

G051	R.S.Technical Service, Inc.	Hi-Cube Van CCTV Inspection Vehicle (customer to provide chassis and box) for installation in a Chevy C3500 cutaway DRW or E450 Cutaway van with either a 12' to 16' box. Safety Exterior Lighting, Basic mainline installation to include; interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 5.5 Kw on-board Generator, A/C and 1500 watt wall heater in control room, Operator chair, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel sets, Rack mounted mainline Power control Unit (PCU), DD Lite Text Writer and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder, Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable, Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) Days Training. Rear View Camera, Data Collection and additional cable upgrades available.	
G052	R.S.Technical Service, Inc.	Step Van Mainline TV Installation Unit to include: (customer provided chassis which includes a 16' Step Van Body, 19,500 GVW) interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 5.5 Kw on-board generator, 12 Volt charging system, Safety exterior lighting, roof mounted A/C and wall mounted heater in control room, Operator chair, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel Sets, Rack mounted mainline Power Control Unit (PCU), DD Lite Text and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable. Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) days training, Rear View Camera and Data Collection upgrades are available.	
G053	R.S.Technical Service, Inc.	Step Van Mainline TV installation equipment to include: (customer provided F59 Step Van, gas engine, 16' Step Van Body, 19,500 GVW) interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 5.5 Kw on-board generator, 12 Volt charging system, safety exterior lighting, roof mounted A/C and wall mounted heater in control room, Operator chair, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel Sets, Rack mounted mainline Power Control Unit (PCU), DD Lite Text and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable. Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) days training, Rear View Camera and Data Collection upgrades are available.	
G054	R.S.Technical Service, Inc.	Sprinter Van Mainline TV Inspection equipment to include: (customer to provide Hi Roof Extended Freightliner 3500 Diesel Sprinter Van or Mercedes-Benz 3500 Hi-Roof Extended vehicle/chassis) interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, 6 KW Mobil Electric Power System (MEPS) inverter system, 12 volt charging system, Roof mounted A/C and wall mounted heater in control room, Safety exterior lighting, TrakSTAR LED Zoom Camera, Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel Sets, Rack mounted mainline Power Control Unit (PCU), DD Lite Text and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable. Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) days training, Rear View Camera and Data Collection upgrades are available.	

G055	R.S.Technical Service, Inc.	Hi-Roof Van Chassis Mainline Inspection equipment to include; (customer provided chassis Ford Transit-350 either Gasoline or Diesel engine) Basic interior cabinetry and finishing, Water proof Non-Skid surface in equipment room, either 5.5 Kw gas generator or 6 Kw Mobile Power System (MEPS) inverter system , 12 volt charging system, Safety exterior lighting, A/C and wall mounted heater in vontrol room, Operator chair, TrakSTAR LED Zoom Self-propelled 6 wheel TranSTAR Steerable Transporter to inspect 6" to 30" pipe, Wheel Sets, Rack mounted mainline Power Control Unit (PCU), DD Lite Text and Footage Overlay, 19" LCD video/computer monitor, Digital Video Recorder (DVR), Joystick desktop camera and tractor controller, Mainline Cable Reel with drop down cable guide system, 1000' Single Conductor double armored cable. Wash down equipment, Maintenance kit, Down-hole equipment, Two (2) days training, Rear View Camera and Data Collection upgrades are available.	
<b>H. Miscellaneous Sewer Equipment</b>			
H001	Aries Industries	Aries "Wolverine" cutter system, including: CT1700 robotic cutter for 6" to 15" pipes; CC1700 rack-mounted control system; PR1700 reel with 600' bonded hose assembly.	
H002	Cobra Technologies	Cobra Pipeline Inspection Data Collection and Management System. CobraTouch™ CDL 8 Data Logger is an inspection data logger with integrated MPEG Video Compression includes all necessary computer hardware and Cobra CDL8 Series software containing PACP or Custom codes format, image capture button for .jpeg image storage, footage display on 15" Touch Screen LCD monitor and CAMS™ (Cobra Asset Management Software - truck version). Software package can be upgraded to include ESRI (Arc Map) interface Data can be preloaded from GIS in the office to CDL 8. Cobra's inspection software can be installed into any manufacturers inspection (portable or truck mounted) system.	
H003	Cobra Technologies	CAMS 10 Compliant Data Management Software - Office version. Single user stand-alone installation. Allows fast and simple access to inspection data and video files without using more complex engineering or work management programs. Includes data import and export, reporting functions, data editing, and more. Can be Intergated with Arc Map. CAMS can be imported into any PACP data certified vendor software.	
H004	Cobra Technologies	CAMS10 Data Management Software - Office version with unlimited client seats. Operates with SQL on network. Allows user to connect to CAMS on their server and work with inspection data. Provides fast and simple access to inspection data and video files without using more complex engineering or work management programs. Includes data import and export, reporting functions Cross section and Planview , data editing, and more.	
H005	Cobra Technologies	The Cobra PTZ V9 Camera, has all the features and functionality of Cobra's standard PTZ Camera in a smaller package. Using the latest LED Luxeon Star Illuminators, the camera can inspect pipe up to 48" diameter without adding additional lighting for most pipe types. The V9 Camera provides a 10:1 Optical Zoom. The directional lighting system is cold and will not heat the camera module. The lights operate on the same circuit as the camera so when the camera is powered, the lights automatically illuminate at full brightness eliminating the need for the conventional multi conductor Power Control Unit.	
H006	Cobra Technologies	C 601 6" Crawler Assembly small enough to inspect relined 6" pipe, powerfull enough for tough jobs. Inspects relined 6"-15" pipe. Includes Crawler, Cobra PTZ camera, Stainless steel swivel connector.	
H007	Cobra Technologies	C 800/801 8" Mainline Crawler Assy for 8"-36" pipe. Powerful, rugged and dependable with automatic electric clutch wired in parallel with motor Cobra Crawlers can be installed on any multiconductor system with an appropriate adaptor cable. Featuring an economical belt drive system Includes Crawler, belts, Cobra PTZ Camera, Stainless Steel swivel connector. Can be equipped with remote elevator for larger pipe applications up to 72"	
H008	Cobra Technologies	Storm Crawler for 15"-120" pipe. Powerful skid steer rugged and dependable, Cobra Crawlers can be installed on any multiconductor system with an appropriate adaptor cable. Includes Crawler, tires, Cobra PTZ Camera, Stainless Steel swivel connector, manual gantry. Includes steerable controller Elevator supplied separately.	

<b>H009</b>	Cobra Technologies	Multi conductor cable - Cobra's standard orange cable enables users of Sonar Tiscit or std Video inspection to operate with a single downhole cable. In addition to a standard multi-conductor video cable Cobra has added functionality which allows sonar to be incorporated into the video cable. Cobra multi-conductor cable is 0.410 dia flexible, and provides ample power to the crawler and camera to support productivity.	
<b>H010</b>	Cobra Technologies	Cable Reel designed to handle up to 2000 ft multi-conductor cable includes powerful rewind gear motor with automatic clutch, automatic cable feeding, heavy duty level wind assembly, 12 ring slipping, footage encoder, footage head, reel flanges, remote/local speed control, electronic reel interlock brake, manual override switch allowing operator to override the electronic interlock brake, pendant control.	
<b>H011</b>	Cobra Technologies	Single cable Sonar Tiscit system to include Cobra PTZ Camera/Controller 48" to 120" float with power box enclosure, HV supply, rackmount to include: Electronics, ME 1512 USB Sonar system, LCD monitor, Video Mixer, Cobra Data Collection System. Mainline Cable Reel, 2000ft Sonar Tiscit, Multi Conductor Cable, Footage Head, Downhole equipment. Truck upfit is not included in price.	
<b>H012</b>	Cobra Technologies	Single cable Sonar Tiscit system to include Cobra PTZ Camera/Controller 48" to 120" float with power box enclosure, HV supply, rackmount to include: Electronics, ME 1512 USB Sonar system, LCD monitor, Video Mixer, Cobra Data Collection System. Mainline Cable Reel, 4000ft Sonar Tiscit, Multi Conductor Cable, Footage Head, Downhole equipment. Truck upfit is not included in price.	
<b>H013</b>	Douglas Products	Vaporooter Jet Set Commander - PCL controlled, touch screen operated, chemical root foaming equipment and materials for use with a hydrojetter sewer truck or trailer jet.	
<b>H014</b>	Economy Drilling Solutions (EDS)	Lo-K-Tor - Model 800 JHVE Trailer Mounted combination sewer cleaning unit. 800 gal. Debris tank, positive displacement vacuum system @ 26" Hg with reversing feature, 300 gal. Water system with high pressure wand.	
<b>H015</b>	ENZ USA Inc	Type 01 RotoJet - RGS Nozzles with Replaceable Ceramic Jets	
<b>H016</b>	ENZ USA Inc	Type 02 RotoJet - HRH Nozzles with Replaceable Ceramic Jets	
<b>H017</b>	ENZ USA Inc	Type 03 RotoJet - HRV Nozzles with Replaceable Ceramic Jets	
<b>H018</b>	ENZ USA Inc	Type 04 RotoJet - KBR Nozzles with Replaceable Ceramic Jets	
<b>H019</b>	ENZ USA Inc	Type 04 Rotopuls - KBR Nozzles with Replaceable Ceramic Jets	
<b>H020</b>	ENZ USA Inc	Type 04 RotoJet - KBRV Nozzles with Replaceable Ceramic Jets	
<b>H021</b>	ENZ USA Inc	Type 05 HP RotoJet - KBR Nozzles with Replaceable Ceramic Jets	
<b>H022</b>	ENZ USA Inc	Type 06 HP RotoJet - Cross Jet Nozzles	
<b>H023</b>	ENZ USA Inc	Type 07 Propeller Nozzles with Replaceable Ceramic Jets	
<b>H024</b>	ENZ USA Inc	Type 10 Rotating Chain Scrapers and Accessories	
<b>H025</b>	ENZ USA Inc	Type 13 Non-Percussion Milling Cutters	
<b>H026</b>	ENZ USA Inc	Type 14 Percussion or Non-Percussion Milling Cutters and Accessories	
<b>H027</b>	ENZ USA Inc	Type 30 Standard Cleaning Nozzles with Replaceable Ceramic Jets	
<b>H028</b>	ENZ USA Inc	Type 36 Rotodrill Nozzle	
<b>H029</b>	ENZ USA Inc	Type 40 Grenade Bomb Nozzles with Replaceable Ceramic Jets	
<b>H030</b>	ENZ USA Inc	Type 400/404/600 Bulldog Nozzles with Replaceable Ceramic Jets	
<b>H031</b>	ENZ USA Inc	Type 410 Turbopuls - Vibration Nozzles with Replaceable Ceramic Jets	
<b>H032</b>	ENZ USA Inc	Type 50 Bulldozer Scraper Nozzles with Replaceable Ceramic Jets	
<b>H033</b>	ENZ USA Inc	Type 60 Chisel Point Nozzles with Replaceable Ceramic Jets	
<b>H034</b>	ENZ USA Inc	Type 70 Flounder Nozzles with Replaceable Ceramic Jets	
<b>H035</b>	ENZ USA Inc	Type 80 Ejector Nozzles with Replaceable Ceramic jets	
<b>H036</b>	ENZ USA Inc	Type 90 Hose Roller Guides	
<b>H037</b>	GapVax	WetVac - Sewage Hauler 3400 gallon	
<b>H038</b>	GapVax	WetVac Sewage Hauler 4200 gallon	
<b>H039</b>	GapVax	WetVac Sewage Hauler 4620 gallon	

<b>H040</b>	Hi-Vac	O'brien JV1000HPD, Trailer Mounted, Positive Displacement, Hydraulic, Vacuum	
<b>H041</b>	Hi-Vac	O'brien JV1000PD, Trailer Mounted, Positive Displacement, Vacuum	
<b>H042</b>	Hi-Vac	Ultra Vac HVV4915, Truck Mounted, Wet/Dry Vacuum System	
<b>H043</b>	Hi-Vac	Aquatech Model CB-10, Combination Cleaning Vacuuming Catch Basin Machine	
<b>H044</b>	Hi-Vac	Aquatech Model CB-15, Combination Cleaning Vacuuming Catch Basin Machine	
<b>H045</b>	Infrastructure Technologies	Infrastructure Technologies' ITpipes Mobile Inspection System for data collection electronically and digital video capture with the Itpipes core license, video capture module, overlay control module, NASSCO PACP module and up to 2 days online and onsite training combined.	
<b>H046</b>	Infrastructure Technologies	Infrastructure Technologies' ITpipes System - office version with single user installation. This allows data entry, editing/modification of inspections, configurable printouts, NASSCO PACP module, and analysis module with spreadsheet reporting and data export.	
<b>H047</b>	Infrastructure Technologies	Infrastructure Technologies' ITpipes System - office version with concurrent network installation. This allows data entry, editing/modification of inspections, configurable printouts, NASSCO PACP module, and analysis module with spreadsheet reporting and data export.	
<b>H048</b>	KEG Technologies	Tier 1 Value Priced Stainless Steel Penetrating Nozzles, Drilled 100054 0.50" Triple Edge Quattro	
<b>H049</b>	KEG Technologies	Tier 2 Mid-Range Efficiency Stainless Steel, Penetrating, Nozzles, Steel Inserts 100057-S 0.75" Drill Point Quattro (6)	
<b>H050</b>	KEG Technologies	Tier 1 Value Priced Stainless Steel Cleaning Nozzles, Drilled and /or Steel Inserts 100088-X 0.50" Standard Nozzle / no forward jet	
<b>H051</b>	KEG Technologies	Tier 2 Mid-Range Efficiency Stainless Steel, Cleaning Nozzles, Steel Inserts 100212-S 0.50" Egg Nozzle (7)	
<b>H052</b>	KEG Technologies	Tier 3 High Efficiency 80%+ Stainless Steel, Cleaning Nozzles, Steel Inserts 100009-S 0.38" Traction Nozzle (7)	
<b>H053</b>	KEG Technologies	Tier 3 Ultra High Efficiency 90%+ Stainless Steel, Cleaning Nozzles, Steel Inserts 100030-S 0.75" Torpedo Nozzle (8)	
<b>H054</b>	KEG Technologies	Tier 2 Mid-Range Efficiency Stainless Steel, Rotating Nozzles, Steel Inserts 100071-S 0.50" Rotor Nozzle (7)	
<b>H055</b>	KEG Technologies	Tier 2 Mid-Range Efficiency Stainless Steel, Controlled Rotation Nozzles, Steel Inserts 100271-S 0.75" to 0.50" Axis Nozzle (9)	
<b>H056</b>	KEG Technologies	Tier 3 High Efficiency 80%+Stainless Steel, Floor Cleaners, Steel Inserts 100120-S 5 Jet Floor Cleaner	
<b>H057</b>	KEG Technologies	Tier 2 High Torque/Rotation Stainless Steel, Chain Cutters, Steel Inserts 200110-S (6) Micro Cutter Kit 2", 3", 4" pipe	
<b>H058</b>	KEG Technologies	Tier 3 High Efficiency Kleen-Vue Wireless Camera / Cleaning System, Base Direct Connect Unit	
<b>H059</b>	PipeHunter	Sidekick Easment Machine; Hyd 4-Wheel Drive	
<b>H060</b>	PipeHunter	VacHunter Combo Jet/Vac Trailer	
<b>H061</b>	PipeHunter	RED DAWG SEWER CLEANING TOOL KIT 1/2" TO INCLUDE: - RED DAWG-CHIZEL DAWG-HOT DAWG	
<b>H062</b>	PipeHunter	RED DAWG SEWER CLEANING TOOL KIT 3/4" TO INCLUDE: - RED DAWG-CHIZEL DAWG-HOT DAWG	
<b>H063</b>	PipeHunter	RED DAWG SEWER CLEANING TOOL KIT 1" TO INCLUDE: - RED DAWG-CHIZEL DAWG-HOT DAWG	
<b>H064</b>	PipeHunter	RED DAWG STORM WATER CLEANING TOOL KIT 1" & 3/4" TO INCLUDE: - BIG RED DAWG- FLOOR DAWG	
<b>H065</b>	Prowler	PRL-1000, Easement Sewer Machine, 1000 ft. hose reel/tract crawler / 4-way hydraulic drive	
<b>H066</b>	Rausch	MOD-OP1 - Module "KAMPAC"; Pressure Testing system for Joints, 8"-12" pipe diameter, consisting of 500ft cable reel with integrated air hose, system control unit, individual packer assemblies for 8, 10 and 12 inch pipe diameter, software package, factory system integration, spare parts kit, 2 days customer training.	

<b>H067</b>	Rausch	MOD-OP2 - Module "LL150"; Lateral Launch System, 3 to 10 inch lateral pipe diameter, consisting of QuadroSAT cable reel with 450ft camera cable connected to 100ft lateral launch cable, modules SKM, PM, ZKM and KS60 pan & tilt lateral camera, MC SAT40 lateral camera with upright picture, software package, factory system integration, spare parts kit, 2 days customer training.	
<b>H068</b>	Rausch	MOD-OP3 - Module "L100cross/KS60"; Mini Camera/Tractor Mainline System, 4 to 12 inch pipe diameter, consisting of steerable L100cross transporter with manual height adjustment, KS60 pan & tilt camera, tire sets, spare parts kit, transportation/shipping case.	
<b>H069</b>	Rausch	MOD-OP4 - Module "QuickLock"; mainline point repair system for 8 to 12 inch pipe diameter, consisting of 8-12 inch installation packer, adapter to Rausch L135 transporter, QuickLock accessory package, 300ft manual air hose reel with pressure regulator and valve, 5 complete sleeves for 12 inch diameter, 2 days customer training.	
<b>H070</b>	Rausch	MOD-OP5 - Module "PanoVista"; 3-D mainline inspection system for 8 and 10 inch pipe diameter, consisting of PanoVista camera, software package, 4 days customer training.	
<b>H071</b>	Rausch	UPG-OP1 - Upgrade from Quadro300 cable reel with 1,000ft cable to ELKA600 cable reel with 1,300ft cable; includes factory installation, rack-mount with slide and drawer.	
<b>H072</b>	Rausch	UPG-OP2 - Upgrade from EcoStar control unit to Proline; includes factory installation.	
<b>H073</b>	Rausch	UPG-OP3 - Upgrade/convertion of mainline camera KS135 to KS135Scan mainline, laser profiling and crack measurement system; includes factory hardware changes, software package, 2 day training.	
<b>H074</b>	Ring-O-Matic	850SV Skid-Truck Mounted Vac Only (No Water), 800 Gallon Debris Tank , Positive Displacement Blower, Gas Powered.	
<b>H075</b>	Ring-O-Matic	850SV Trailer-Trailer Mounted Vac Only (No Water), 800 Gallon Debris Tank , Positive Displacement Blower, Gas Powered.	
<b>H076</b>	Ring-O-Matic	850SV Skid-Truck Mounted Vac Only (No Water), 800 Gallon Debris Tank , Positive Displacement Blower, Diesel Powered.	
<b>H077</b>	Ring-O-Matic	850SV Trailer-Trailer Mounted Vac Only (No Water), 800 Gallon Debris Tank , Positive Displacement Blower, Diesel Powered.	
<b>H078</b>	Rota-JETTER	CULVERT CLEANER Model: FC-5000 Hydro-Static PTO drive with manual movement. Winch assist. Water Pump 10gpm, 150psi, 150 foot Hose, Hose Reel, Tool Holders, 425Gallon Tank, Double Axle Trailer, 9", 11", 13" Tools Standard.	
<b>H079</b>	Rota-JETTER	CULVERT CLEANER Model: FC-6000 Hydro-Static PTO and ground travel. Self-Propelled. Independent PTO variable speed control and ground movement control. Water Pump 10gpm, 150psi, 150 foot Hose, Hose Reel, Tool Holders, 425Gallon Tank, Double Axle Trailer, 9", 11", 13" 16", 18, 22" Culvert Tools.	
<b>H080</b>	Rota-JETTER	Skid-Steer CULVERT CLEANER Quick-Attach Model: FC-5000 Operates of Aux Hydraulic Skid Steer Ports. High and Reg Flow units, Water Pump 10gpm, 150psi, 150 foot Hose, Hose Reel, Tool Holders, 425Gallon Tank, Double Axle Trailer, 9", 11", 13" 16", 18, and 22" Culvert Tools.	
<b>H081</b>	Sewer Equipment Co.	JAJ-600TH Easement Machine, dedicated tracks, rotating reel	
<b>H082</b>	Sewer Equipment Co.	JAJ-600WH Easement Machine, expandable-tracks, rotating reel	
<b>H083</b>	Sewer Equipment Co.	JAJ-600SK Easement Machine, skid streered, rotating reel	
<b>H084</b>	Sewer Equipment Co.	Hydraulic Bucket Machine, pull in	
<b>H085</b>	Sewer Equipment Co.	Hydraulic Bucket Machine, truck loader	
<b>H086</b>	Sewer Equipment Co.	444 Sectional rodder for truck or trailer mounting	
<b>H087</b>	Sewer Equipment Co.	866 Continous rodder for truck or trailer mounting	
<b>H088</b>	Sewer Equipment Co.	877-TK Sectional rodder	

<b>H089</b>	Sewer Equipment Co.	RamVac-1000 trailer mounted vacuum	
<b>H090</b>	Sewer Equipment Co.	RamVac-2000 trailer mounted vacuum	
<b>H091</b>	Sewer Equipment Co.	RamVac-3000 trailer mounted vacuum	
<b>H092</b>	Sewer Equipment Co.	RamVac - 2600CM trailer mounted combo sewer cleaner	
<b>H093</b>	Sewer Equipment Co.	RamVac - 3600CM trailer mounted combo sewer cleaner	
<b>H094</b>	SRECO	HS516TM/HS38TM, Truck Mounted Rodding Machine	
<b>H095</b>	SRECO	HS516TR/HS38TR, Trailer Mounted Rodding Machine	
<b>H096</b>	SRECO	Robotic Rodding Machine, Truck Mounted	
<b>H097</b>	SRECO	Robotic Rodding Machine, Trailer Mounted	
<b>H098</b>	SRECO	RTM-1 Rod Turning Machine	
<b>H099</b>	SRECO	10 Roller Duct Rodder	
<b>H100</b>	SRECO	EMSP-6, Self-Propelled Easement Machine, Hyd 4-Wheel Drive	
<b>H101</b>	SRECO	Bucket Machine, Mechanical, Standard Pull	
<b>H102</b>	SRECO	Bucket Machine, Hydraulic	
<b>H103</b>	UEMSI	SRX-C - Easement Machine - 1"x400'x2500 Hose, 90 Degree Pivot Reel, Hydraulic Power is Provided via the Auxiliary Hydraulic System of a Skid Steer Loader.	
<b>I. Miscellaneous Sewer Cleaning Services</b>			
<b>I001</b>	Douglas Products	Vaporoooter - Chemical Root Control, 6" thru 10" pipe; {Minimum 20,000 Lft} (price shown is the cost per lineal foot)	
<b>I002</b>	Douglas Products	Vaporoooter - Chemical Root Control, 12" thru 18" pipe; {Minimum 20,000 Lft} (price shown is the cost per lineal foot)	
<b>I003</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 4" thru 9" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I004</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 10" thru 12" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I005</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 13" thru 16" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I006</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 18" thru 22" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I007</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 24" thru 30" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I008</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 32" thru 36" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	
<b>I009</b>	Dukes Root Control	Razoroooter II - Chemical Root Control, 36" thru 48" pipe; {Minimum 3,000 Lft} (price shown is the cost per lineal foot)	

### H-GAC FORM E1 - OPTIONS PRICING

**Offeror Name:**

**Invitation No.:** SC01-15 -- Sewer Cleaning, Hydro-Excavating, Inspection Equipment & Miscellaneous Services

**Notes and Information:**

1. Bid each Option or Up-grade offering on a separate line, using the appropriate underlying **H-GAC** Product Code found on **Form D**.
2. Use a single **Form E**. Add/Insert additional lines as necessary.
3. If attaching a catalog listing of your products, make sure the catalog number, effective dates and any discounts are clearly listed and identified on this form.
4. Discounts shall be indicated on this Form E. Zero (0%) discounts will not be accepted.

**IMPORTANT:** Bidder **MUST** include the following information with their bid:

(1) A complete priced list of available options, accessories and upgrades on *Form E*.

(2) In lieu of entering line by line information on *Form E*, Offeror may note **“See Attached”** on *Form E*, and attach a price list or easily identified and dated catalog.

(3) Option descriptions must include some sort of **Offerors** or **Manufacturers Code** number so that they may be easily identified on a customer quotation and compared to **Offeror’s Response**.

(4) A printed copy of *Form E* as well as the options list or catalog in the bidder's response as well as submitting an electronic (EXCEL) *Form E* and options list or catalog (in EXCEL/PDF format) on a CD or flash/thumb drive.

**Note: The above requirements must be met prior to any contracts being issued.**

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