

**SEWER CAMERA WITH SONDE  
AND  
STEERABLE LARGE PIPE TRANSPORTER,  
WITH ELECTRIC LIFT AND BACKUP CAMERA**

**CONTRACT DOCUMENTS  
AND  
SPECIFICATIONS**

**WASTEWATER DIVISION  
DEPARTMENT OF PUBLIC WORKS  
GRAND ISLAND, NEBRASKA**

**APRIL 2013**

**BIDDER CHECKLIST FOR  
SEWER CAMERA WITH SONDE  
AND  
STEERABLE LARE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA  
CITY OF GRAND ISLAND, NEBRASKA**

**Bids must be received by the City Clerk before 2:15 p.m., (local time) on Tuesday, April 30, 2013.**

The following items must be completed for your bid to be considered.

- ↑ This completed bidder checklist form.
- ↑ A signed **original and one copy** of the bidding documents. (Pages CB-1 through CB-4)
- ↑ Acknowledgment of Addendum(s), if any.
- ↑ Firm unit pricing; or lump sum pricing as applicable. (See bid Form)
- ↑ A certified check, cashiers check or bid bond in a separate envelope attached to the **outside of the envelope containing the bid**. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened.

---

Bidder Company Name

Date

---

Print – Name of Person Completing Bid

---

Signature

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AND  
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CITY OF GRAND ISLAND, NEBRASKA**

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**ADVERTISEMENT TO BIDDERS**

**ADVERTISEMENT TO BIDDERS  
for**

**SEWER CAMERA WITH SONDE  
AND  
STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**

for  
CITY OF GRAND ISLAND, NEBRASKA

Sealed bids will be **received at the office of the City Clerk**, 100 E. First Street., Grand Island, NE 68801 or P.O. Box 1968, Grand Island, Nebraska 68802 until **2:15 p.m., (Local Time), Tuesday, April 30, 2013**, for a **Sewer Camera with Sonde and Steerable Large Pipe Transporter, with Electric Lift and Backup Camera**, for the City of Grand Island. Bids will be publicly opened at this time in the Conference Room #1 located on 1st floor of City Hall. Bids received after specified time will be returned unopened to sender.

Bids shall be submitted on forms which will be furnished by the City. Each bidder shall submit with their bid a certified check, a cashiers check or bid bond payable to the City Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within fifteen (15) days, at the bid price, if accepted by the City. **“Your certified check, cashiers check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid.”** Each envelope must be clearly marked indicating its contents. **Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened or considered.** Bid bonds must be issued by surety companies authorized to do business in the State of Nebraska. **Please return one original and one copy of each bid sheet.**

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S. 73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

Successful bidder shall comply with the City's insurance requirements, and supply performance and payment bonds. Successful bidder shall maintain a Drug Free Workplace Policy.

Bids will be evaluated by the Purchaser based on price, quality, adherence to schedule, plan and specification, economy and efficiency of operation, experience and reputation of bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or all bids and to waive irregularities therein and to accept whichever bid that may be in the best interest of the City, at its sole discretion. The Purchaser also reserves the right to reject any section(s) of a selected bid that may be in the best interest of the City, at its sole discretion.

No bidder may withdraw their bid for a period of forty-five (45) days after date of opening bids.

Plans and specifications for use in preparing bids may be obtained from the office of the City Engineer, Second Floor, City Hall, 100 East First Street, Grand Island, NE.

**TITLE VI**

The City of Grand Island, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notified all bidden that it will affirmatively insure that in any contact entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, sex, age and disability/handicap in consideration for an award.

**SECTION 504/ADA NOTICE TO THE PUBLIC**

The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

City Administrator  
308-385-5444, extension 140  
100 East First Street, Grand Island, NE 68801  
Monday through Friday; 8:00 a.m. to 5:00 p.m.

RaNae Edwards  
City Clerk

# **CONTRACTOR'S BID**

**SEWER CAMERA WITH SONDE  
AND  
STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**

CITY OF GRAND ISLAND, NEBRASKA

**CONTRACTOR'S BID**

TO THE MEMBERS OF THE COUNCIL  
CITY OF GRAND ISLAND  
GRAND ISLAND, NEBRASKA

THE UNDERSIGNED BIDDER, having examined the specifications, general and special conditions, and other proposed contract documents, and all addenda thereto and being acquainted with and fully understanding (a) the extent and character of the work covered by this Bid, (b) local conditions relative to labor, transportation, hauling and rail delivery facilities and (c) all other factors and conditions affecting or which may be affected by the work.

HEREBY PROPOSES to furnish all required materials, supplies, equipment, tools and plans, to perform all necessary labor and supervision, and to construct, install, erect, equip and complete all work stipulated in, required by and in accordance with the contract documents and the plans, specifications and other documents referred to therein (as altered, amended or modified by all addenda thereto) for and in consideration of the following prices:

**BID SECTION**

No.	Description	Estimated Quantity	Firm Unit Price	Total Price
1	OZII Camera – P&T Zoom M/C Sonde Camera	1.00 s.f.	\$	\$
2	Mud Master – M/C Steerable Large Pipe Transporter, with Electric Lift	1.00 l.f.	\$	\$
3	Backup Camera – Rear-View Camera for Large Wheel Transporter	1.00 l.f.	\$	\$

**TOTAL BID –** \$ \_\_\_\_\_

**REFERENCES:**

Each bidder shall supply references on their product:

Name of Bidder: \_\_\_\_\_

Reference/Contact/Phone No. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Additional Data: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**INSURANCE:** Bidder acknowledges that bid includes compliance with the attached insurance requirements.

**ADDENDA:**

Bidder acknowledges that the following Addendums were received and considered in Bid preparation.

<u>ADDENDUM NO.</u>	<u>DATE</u>	<u>SIGNATURE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Bidder acknowledges that Addenda Number(s) \_\_\_\_\_ were received and considered in Bid preparation.

Exceptions shall be listed in the following blanks. If additional space is required for exception explanation, please reference and attach a letter to bid. Reference shall not be made to other attachments for exceptions and supplementary terms. Failure to outline such exceptions as specifically stated herein will require the successful bidder to comply with these specifications. In case of conflict between the bid and these specifications, these specifications shall govern unless specific exceptions are listed by the bidder.

Exceptions to specifications, pages \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned Bidder agrees to furnish the required bond and to enter into a contract within fifteen (15) days after acceptance of this Bid, and further agrees to complete all work covered by the foregoing bid in accordance with specified requirements. **No work shall commence until the Certificate of Insurance and bonds (when required) are approved by the City and the contract is executed.** The proposed work can commence after the contract is signed and the required bond is approved.

Enclosed herewith is the required bid guarantee in the amount of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

which the undersigned Bidder agrees is to be forfeited to and become the property of the City of Grand Island, Nebraska, as liquidated damages should this Bid be accepted and a contract be awarded to them and they fail to enter into a contract in the form prescribed and to furnish the required bond within fifteen (15) days, but otherwise the aforesaid bid guarantee will be returned upon signing the contract and delivering the approved bond.

In submitting the Bid it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City. It is understood that this Bid may not be withdrawn until after forty-five (45) days from bid opening.

In submitting the Bid, the Bidder states that Bidder fully complies with, and will continue to comply with, applicable State fair labor standards as required by section 73-102 RRS, 1943 and also complies with, and will

continue to comply with, section 48-657 RRS, 1943 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

The undersigned Bidder hereby certifies (a) that this Bid is genuine and is not made in the interest of or in the behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation, (b) that they have not directly or indirectly induced or solicited any person, firm or corporation to refrain from bidding, (c) that they have not sought, by collusion or otherwise, to obtain for themselves an advantage over any other bidder or over the City of Grand Island, and (d) that they have not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.

DATED \_\_\_\_\_

SIGNATURE OF BIDDER:

If an Individual: \_\_\_\_\_ doing business

as \_\_\_\_\_

If a Partnership: \_\_\_\_\_

by \_\_\_\_\_, member of firm.

If a Corporation: \_\_\_\_\_

by \_\_\_\_\_ (Seal)  
Title

\_\_\_\_\_  
BUSINESS ADDRESS OF BIDDER

\_\_\_\_\_  
TELEPHONE NUMBER OF BIDDER

\_\_\_\_\_  
FAX NUMBER OF BIDDER

# **INSTRUCTIONS TO BIDDERS**

**INSTRUCTIONS TO BIDDERS**  
**SEWER CAMERA WITH SONDE**  
**AND**  
**STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**  
**CITY OF GRAND ISLAND, NEBRASKA**

**EXCEPTIONS TO SPECIFICATIONS:** Each Bidder shall carefully check all requirements herein set forth and shall offer items which fully comply with these requirements or shall plainly set forth all points, features, conditions, specifications. Bidder must comply with all applicable Federal, State and Local rules and regulations.

**SUBMISSION OF BIDS:** All bids shall be submitted using the City's bid form. Bids shall be **addressed to the City Clerk** and plainly marked, **"BID FOR SEWER CAMERA WITH SONDE AND STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA"**.

**INSURANCE COVERAGE:** The Contractor shall purchase and maintain at their expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve them of any contractual responsibility or obligation.

**BASE BID:** The Bidder is expected to base their bid on materials and items complying fully with these specifications, and in the event they name in the bid materials or items which do not conform, they will be responsible for furnishing materials and items which fully conform at no change in the bid price.

**CHECKS OR BID BONDS:** Checks or bid bonds of the unsuccessful bidders will be returned when their bids have been rejected and not to exceed forty-five (45) days from the date bids are opened. All bids shall remain in force for this forty-five (45) day period. The check or bid bond of the successful bidder will be returned when the Contracts are signed by both parties and necessary bonds supplied. Should the Purchaser make an award to a Contractor who refuses to enter into Contract and furnish the required bonds within fifteen (15) days after notification of acceptance, then that bid security which has been deposited with the Purchaser will be forfeited to the Purchaser as liquidated damages.

**PERFORMANCE BOND:** When required, on award of the Contract, the successful Contractor shall furnish a Performance Bond which shall be in an amount equal to the full Contract price, guaranteeing faithful compliance with all requirements of the Contract Documents and complete fulfillment of the Contract, and payment of all labor, material and other bills incurred in carrying out this Contract. According to Nebraska Law, the surety company executing the Performance Bond must be authorized to do business in the State of Nebraska.

**PAYMENT BOND:** When required, on award of the Contract, the successful Contractor shall furnish a Payment Bond which shall be in an amount equal to the full Contract price, guaranteeing protection of all persons supplying labor and materials to the Contractor or its subcontractors for the performance of the work provided for in the Contract. In accordance with Nebraska Law, the surety company executing the Payment Bond must be authorized to do business in the State of Nebraska.

**TAXES:** This project for the City of Grand Island is exempt from paying local City and State Sales Tax. Refer to Exempt Sale Certificate enclosed for your information. Contractor must pay any other tax which might be applicable.

**REQUESTS FOR PAYMENT:** The City of Grand Island will make payments only after approval at regularly scheduled City Council meetings. These meetings typically occur the second and fourth Tuesday each month. Requests for payment must be received no less than ten (10) working days prior to the designated meeting to allow proper review and consideration.

**REQUEST FOR INTERPRETATION:** If any person, contemplating submitting a bid for this Contract is in doubt as to the true meaning of any part of the specifications or other proposed Contract documents, they may submit to the Purchasing Division of the City Attorney's Office a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made by addendum only issued and/or delivered to each person receiving a set of such documents. The addenda upon closing shall become a part of the Contract. The City will not be responsible for any other explanation or interpretation of the proposed documents.

**TIME OF COMPLETION:** The contractor shall start work as soon as possible after the contract is signed and the required bond is approved. Said camera and transporter shall be delivered to the City no later than (sixty) days after contract is executed.

**CLEANING UP:** Contractor shall maintain a clean and safe work area while on site, particularly since pedestrian traffic will be prevalent during construction activities.

**ADDENDA:** Any addendum to the specifications issued during the time allowed for preparation of bids shall be covered in the bid and shall become a part of the specifications. One copy of each addendum issued before the date of the letting will be sent to all bidders. One signed copy is to be returned immediately to the Purchasing Department (or other department if so designated in the Addendum) as acknowledgment of receipt.

**MODIFICATION OF BIDS:** Bids may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted at any time prior to the final time set for receiving bids. Bidders may modify or withdraw bids by Fax communication at any time prior to the time set for receiving bids provided this instruction is positively identified. Any Fax modification should not reveal the amended bid price but should provide only the addition, subtraction or other modifications. A duly-executed document confirming the Fax modification shall be submitted within three (3) days after bids are opened.

**BID DATA:** Bidders shall submit bid data, if required, on items offered in the Bid by **furnishing one original and one copy of the completed Contractor's Bid form**. The bid sheets shall be filled out legibly in ink to permit reproduction.

**BIDDER SECURITY:** Bidder security, when required, shall be enclosed in a special envelope marked, "**BIDDER SECURITY/BID FOR SEWER CAMERA WITH SONDE AND STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**". The envelope shall contain only a cashier's check, certified check or bidder's bond.

**This special envelope shall be attached to a sealed envelope containing the bid and any other bid materials. This second envelope shall be "BID FOR SEWER CAMERA WITH SONDE AND STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA" and be addressed to the City Clerk.** Bids of an incomplete nature or subject to multiple interpretation may, at the option of the Purchaser, be rejected as being irregular.

**FINANCIAL STATEMENT:** If requested the Bidder shall furnish a complete financial statement signed by the Bidder if an individual, by all partners if the Bidder is a partnership and, by the President or Secretary if the Bidder is a corporation.

**DRUG FREE WORKPLACE POLICY:** Bidders shall furnish, upon request, a copy of their Drug Free Workplace Policy.

**EQUAL EMPLOYMENT OPPORTUNITY:** The Contractor agrees that during the performance of this Contract not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, disability, age or national origin, and to comply with Executive Order 11,246 of September 24, 1965, and the rules, regulations and relevant orders of the Secretary of Labor, and Chapter 20 of the Reissue Revised Statutes of the State of Nebraska.

**LOCAL CONDITIONS:** Each Bidder shall have an authorized representative visit the site of the work and thoroughly inform themselves of all conditions and factors which would affect the work and the cost thereof, including the arrangement and conditions of existing or proposed structures affecting or affected by the proposed work; the procedure necessary for maintenance of uninterrupted operation; the availability and cost of labor and facilities for transportation, handling, and storage of materials and equipment.

It must be understood and agreed that all such factors have been investigated and considered in the preparation of every bid submitted. No claims for financial adjustment (to any Contract awarded for the work under these Specifications and documents) will be permitted by the City, which are based on lack of such prior information, or its effect on the cost of the work.

**CORRESPONDENCE:** Correspondence regarding drawings, instruction manuals, and other engineering data shall be clearly marked "FOR ENGINEERING DEPARTMENT" and sent through:

City of Grand Island  
Public Works Department/Engineering Division  
P.O. Box 1968  
Grand Island, NE 68802-1968  
(308) 385-5444, Extension 260  
[publicworks@grand-island.com](mailto:publicworks@grand-island.com)  
Attn: Scott Griepenstroh

LOCAL BIDDER PREFERENCE: In case of tied low bids, all other things being equal, preference shall be given in the following order:

1. To those bidders who manufacture their products within the limits of the City of Grand Island.
2. To those bidders who manufacture their products within the limits of the County of Hall.
3. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the City of Grand Island.
4. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the County of Hall.
5. To those bidders who maintain a bona fide business office in the City of Grand Island, whose products may be made outside the confines of the City of Grand Island.
6. To those bidders who maintain a bona fide business office in the County of Hall, whose products may be made outside the confines of the County of Hall.
7. To those bidders whose commodities are manufactured, mined, produced, or grown within the State of Nebraska, and to all firms, corporations, or individuals doing business as Nebraska firms, corporations or individuals, when quality is equal or better, and delivered price is the same or less than the other bids received.
8. To those bidders whose commodities are manufactured, mined, produced, or grown within the United States of America, and to all firms, corporations, or individuals doing business as firms registered in states other than Nebraska, when quality is equal or better, and delivered price is the same or less than the other bids received.

# **INSURANCE REQUIREMENTS**



**MINIMUM INSURANCE REQUIREMENTS**

**SEWER CAMERA WITH SONDE  
AND  
STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**

CITY OF GRAND ISLAND, NEBRASKA

***You are urged to include in your bid compliance with the City's minimum insurance requirements; however, any non-compliance must be detailed in the Exceptions Section of the bid. Compliance with the specified OCP coverage is mandatory.***

The Bidder shall take out, throughout the duration of the Contract, insurance of such types and in such amounts as may be necessary to protect themselves and the interests of the City against all hazards or risks of loss as hereinafter specified. This insurance shall cover all aspects of the Bidder's operations to the fullest extent possible and provide no exclusions relative to any aspect of the work being performed for the City. The form and limits of such insurance, together with the underwriter thereof in each case, shall be approved by the City but regardless of such approval, it shall be the responsibility of the Bidder to maintain adequate insurance coverage at all times. Failure of the Bidder to maintain adequate coverage shall not relieve them of any contractual responsibility or obligation.

The successful bidder shall obtain insurance from companies authorized to do business in Nebraska of such types and in such amounts as may be necessary to protect the bidder and the interests of the City against hazards or risks of loss as hereinafter specified. This insurance shall cover all aspects of the Bidder's operations and completed operations. Failure to maintain adequate coverage shall not relieve bidder of any contractual responsibility or obligation. Minimum insurance coverage shall be the amounts stated herein or the amounts required by applicable law, whichever are greater.

**1. WORKERS COMPENSATION AND EMPLOYER'S LIABILITY**

This insurance shall protect the Bidder against all claims under applicable State workers compensation laws. This insurance shall provide coverage in every state in which work for this project might be conducted. The liability limits shall not be less than the following:

Workers Compensation	Statutory Limits
Employers Liability	\$100,000 each accident
	\$100,000 each employee
	\$500,000 policy limit

**2. BUSINESS AUTOMOBILE LIABILITY**

This insurance shall be written in comprehensive form and shall protect the Bidder, Bidder's employees, or subcontractors from claims due to the ownership, maintenance, or use of a motor vehicle. The liability limits shall be not less than the following:

Bodily Injury & Property Damage	\$ 500,000 Combined Single Limit
---------------------------------	----------------------------------

**3. COMPREHENSIVE GENERAL LIABILITY**

The comprehensive general liability coverage shall contain no exclusion relative to explosion, collapse, or underground property. The liability limits shall not be less than the following:

Bodily Injury & Property Damage	\$ 500,000 each occurrence
	\$1,000,000 aggregate

#### **4. UMBRELLA LIABILITY INSURANCE**

This insurance shall protect the Bidder against claims in excess of the limits provided under employer's liability, comprehensive automobile liability, and commercial general liability policies. The umbrella policy shall follow the form of the primary insurance, including the application of the primary limits. The liability limits shall not be less than the following:

Bodily Injury & Property Damage	\$1,000,000 each occurrence
	\$1,000,000 general aggregate

#### **5. ADDITIONAL REQUIREMENTS**

The City may require insurance covering a Bidder or subcontractor more or less than the standard requirements set forth herein depending upon the character and extent of the work to be performed by such Bidder or subcontractor.

Insurance as herein required shall be maintained in force until the City releases the Bidder of all obligations under the Contract.

The Bidder shall provide and carry any additional insurance as may be required by special provisions of these specifications.

#### **6. CERTIFICATE OF INSURANCE**

Satisfactory certificates of insurance shall be filed with the City prior to starting any work on this Contract. **The certificates shall show the City as an additional insured on all coverage except Workers Compensation. The certificate shall state that thirty (30) days written notice shall be given to the City before any policy is cancelled (strike the "endeavor to" wording often shown on certificate forms). If the bidder cannot have the "endeavor to" language stricken, the bidder may elect to provide a new certificate of insurance every 30 days during the contract. Bidder shall immediately notify the City if there is any reduction of coverage because of revised limits or claims paid which affect the aggregate of any policy.**

**EXEMPT SALES CERTIFICATE**



# Nebraska Resale or Exempt Sale Certificate

FORM  
13

• Read instructions on reverse side/see note below

NAME AND MAILING ADDRESS OF PURCHASER			NAME AND MAILING ADDRESS OF SELLER		
Name City of Grand Island			Name Larry's Appliance		
Street or Other Mailing Address PO Box 1968			Street or Other Mailing Address 518 W. 3rd		
City Grand Island	State NE	Zip Code 68802	City Grand Island	State NE	Zip Code 68801

**Check Type of Certificate**

Single Purchase  Blanket If blanket is checked, this certificate is valid until revoked in writing by the purchaser.

I hereby certify that the purchase, lease, or rental by the above purchaser is exempt from the Nebraska sales tax for the following reason:

**Check One**  Purchase for Resale (Complete Section A)  Exempt Purchase (Complete Section B)  Contractor (Complete Section C)

## SECTION A—Nebraska Resale Certificate

I hereby certify that the purchase, lease, or rental of Description of Item or Service Purchased from the above seller is exempt from the Nebraska sales tax as a purchase for resale, rental, or lease in the normal course of our business, either in the form or condition in which purchased, or as an ingredient or component part of other property to be resold.

I further certify that we are engaged in business as a:  Wholesaler  Retailer  Manufacturer  Lessor of Description of Product Sold, Leased, or Rented

and hold Nebraska Sales Tax Permit Number 01- If None, State Reason  
or Foreign State Sales Tax Number State

## SECTION B—Nebraska Exempt Sale Certificate

The basis for this exemption is exemption category 1 (Insert appropriate category as described on reverse of this form.)

If exemption category 2 or 5 is claimed, enter the following information:

Description of Item(s) Purchased Intended Use of Item(s) Purchased

If exemption categories 3 or 4 are claimed, enter the Nebraska Exemption Certificate number. 05-

If exemption category 6 is claimed, seller must enter the following information and sign this form below:

Description of Item(s) Sold Date of Seller's Original Purchase Was Tax Paid when Purchased by Seller? Was Item Depreciable?  
 YES  NO  YES  NO

## SECTION C—For Contractors Only

### 1. Purchases of Building Materials or Fixtures:

As an Option 1 or Option 3 contractor, I hereby certify that purchases of building materials and fixtures from the above seller are exempt from Nebraska sales tax. My Nebraska Sales or Consumer's Use Tax Permit Number is: 01-

**2. Purchases Made Under Purchasing Agent Appointment on behalf of** \_\_\_\_\_: (exempt entity)

Pursuant to an attached Purchasing Agent Appointment and Delegation of Authority for Sales and Use Tax, Form 17, I hereby certify that purchases of building materials, and fixtures are exempt from Nebraska sales tax.

Any purchaser, or their agent, or other person who completes this certificate for any purchase which is other than for resale, lease, or rental in the regular course of the purchaser's business, or is not otherwise exempted from the sales and use tax under Neb. Rev. Stat. §§77-2701 through 77-27,135, shall in addition to any tax, interest, or penalty otherwise imposed, be subject to a penalty of \$100 or ten times the tax, whichever amount is larger, for each instance of presentation and misuse. With regard to a blanket certificate, this penalty shall apply to each purchase made during the period the blanket certificate is in effect. Under penalties of law, I declare that I am authorized to sign this certificate, and to the best of my knowledge and belief, it is correct and complete.

sign  
here

Authorized Signature

Title

Date

**NOTE: Sellers must keep this certificate as part of their records. DO NOT SEND TO THE NEBRASKA DEPARTMENT OF REVENUE. Incomplete certificates cannot be accepted.**

www.revenue.ne.gov, (800) 742-7474 (toll free in NE and IA), (402) 471-5729

# Purchasing Agent Appointment and Delegation of Authority for Sales and Use Tax

PURCHASING AGENT APPOINTMENT	
Name and Address of Prime Contractor	Name and Address of Governmental Unit or Exempt Organization
Name	Name City of Grand Island
Street or Other Mailing Address	Street or Other Mailing Address PO BOX 1968
City State Zip Code	City State Zip Code Grand Island NE 68802-1968
Name and Location of Project	Appointment Information
Name	Effective Date (see Instructions)
Street or Other Mailing Address	Expiration Date
City State Zip Code	Nebraska Exemption Number (Exempt Organizations Only)
Identify Project	

The undersigned governmental unit or exempt organization appoints the above-named contractor and the contractor's delegated subcontractors as its agent to purchase and pay for building materials that will be annexed to real estate by them into the tax exempt construction project stated above.

**sign  
here**

Authorized Signature of Governmental Unit or Exempt Organization

Title

Date

DELEGATION OF PRIME CONTRACTOR'S AUTHORITY	
Name and Address of Subcontractor	Delegation Information
Name	Effective Date
Street or Other Mailing Address	Expiration Date
City State Zip Code	Portion of Project

The undersigned prime contractor hereby delegates authority to act as the purchasing agent of the named governmental unit or exempt organization to the above-named subcontractor.

**sign  
here**

Signature of Prime Contractor or Authorized Representative

Title

Date

## INSTRUCTIONS

**WHO MUST FILE.** Any governmental unit or organization that is **exempt** from sales and use tax may appoint as its agent a prime contractor to purchase building materials and/or fixtures that will be annexed to property that belongs to or will belong to the governmental unit or exempt organization pursuant to a construction contract with the governmental unit or exempt organization. The appointment of the prime contractor as its agent is completed by issuing a Purchasing Agent Appointment and Delegation of Authority for Sales and Use Tax, Form 17, to the prime contractor. The Form 17 is required to be given to the contractor **BEFORE** he or she annexes building materials. The governmental unit or exempt organization must identify the project (e.g., east wing, chapel construction, or new school auditorium). Most

nonprofit organizations are **NOT** exempt from sales tax in Nebraska. In addition, not all governmental units are exempt from Nebraska sales tax. Refer to Contractor Information on our Web site for additional information on exempt entities. A contractor can confirm the exempt status of a governmental unit or exempt organization by contacting the Nebraska Department of Revenue.

The exemption from the payment of the Nebraska and local option sales and use taxes only applies if the governmental unit or exempt organization directly, or through its contractor, pays for the building materials. **IMPORTANT NOTE:** When an organization that requires licensure in order to be exempt (i.e., nonprofit hospitals), but is not licensed at the time of the construction project, the exempt organization **CANNOT**

**PURCHASING AGENT  
APPOINTMENT**

# **CONTRACT AGREEMENT**

## CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2013, by and between \_\_\_\_\_, hereinafter called the Contractor, and the City of Grand Island, Nebraska, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published, for a **Sewer Camera with Sonde and Steerable Large Pipe Transporter, with Electric Lift and Backup Camera**; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the Bids submitted, and has determined the aforesaid Contractor to be the lowest responsive bidder, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's Bid, a copy thereof being attached to and made a part of this contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself or themselves, and its or their successors, as follows:

ARTICLE I. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached minimum bid specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's Bid;

ARTICLE II. That the City shall pay to the contractor for the performance of the work embraced in this contract and the contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the contract) of \_\_\_\_\_ & xx/100 (\$ \_\_\_\_\_) for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article I; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

ARTICLE III. The Contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the Contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the Contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The Contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the Contractor's name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of **Sewer Camera with Sonde and Steerable Large Pipe Transporter, with Electric Lift and Backup Camera**.

ARTICLE IV. The contractor shall start work as soon as possible after the contract is signed and the required bond is approved. Said camera and transporter shall be delivered to the City no later than (sixty) days after contract is executed.



ARTICLE V. The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

ARTICLE VI. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

ARTICLE VII. During the performance of this contract, the Contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, national origin, age or disability and to comply at all times with all applicable state and federal civil rights acts and executive orders of the President of the United States.

ARTICLE VIII. Every public contractor and their subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

ARTICLE IX. City Code states that it is unethical for any person to offer, give or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

ARTICLE X. The City reserves the right to terminate this contract at any time upon sixty (60) days notice. If the contract is terminated, the Contractor will be compensated for any services rendered to date of termination.

ARTICLE XI. FAIR EMPLOYMENT PRACTICES: Each proposer agrees that they will not discriminate against any employee or applicant for employment because of age, race, color, religious creed, ancestry, handicap, sex or political affiliation.

ARTICLE XII. LB 403: Every public Contractor and his/her or its subcontractors who are awarded an agreement by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement as of the date and year first above written.

**Contractor**

By \_\_\_\_\_

Date \_\_\_\_\_

Title \_\_\_\_\_

CITY OF GRAND ISLAND, NEBRASKA,

By \_\_\_\_\_

Mayor

Date \_\_\_\_\_

Attest: \_\_\_\_\_

City Clerk

The contract and bond are in due form according to law and are hereby approved.

\_\_\_\_\_

Attorney for the City

Date \_\_\_\_\_

## APPENDIX A – TITLE VI NON-DISCRIMINATION -

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

- (1) **Compliance with Regulations:** The Contractor shall comply with the Regulation relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter "FHWA") Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this agreement.
- (2) **Nondiscrimination:** The Contractor, with regard to the work performed by it during the agreement, shall not discriminate on the grounds of race, color, or national origin, sex, age, and disability/handicap in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the agreement covers a program set forth in Appendix B of the Regulations.
- (3) **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subagreement, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this agreement and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin, sex, age, and disability/handicap.
- (4) **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the City of Grand Island or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the City of Grand Island, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this agreement, the City of Grand Island shall impose such agreement sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
  - (a.) withholding of payments to the Contractor under the agreement until the Contractor complies, and/or
  - (b.) cancellation, termination or suspension of the agreement, in whole or in part.
- (6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subagreement, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

The Contractor shall take such action with respect to any subagreement or procurement as the City of Grand Island or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance: provided however; that, in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request the City of Grand Island to enter into such litigation to protect the interests of the City of Grand Island, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

## **MINIMUM BID SPECIFICATIONS**

### **SEWER CAMERA WITH SONDE AND**

### **STEERABLE LARGE PIPE TRANSPORTER, WITH ELECTRIC LIFT AND BACKUP CAMERA**

The unit described below shall be a new unit, complete, serviced, ready for work, including all standard equipment and any optional equipment as deemed necessary by the City of Grand Island. The City will consider any unit that meets or exceeds required minimum specifications as stated herein. The City of Grand Island reserves the right to reject any or all bids and waive any technicalities.

**Equipment must be 100% compatible with existing Cues Multi – Conductor TV Inspection System with no modifications. Must be able to plug in camera and go without any modifications. Equipment must be compatible with existing Cues Control Unit (CCU).**

There are two (2) basic components to these specifications. 1) Pan and Tilt Zoom Camera with Sonde and 2) Steerable Large Pipe Transporter, with Electric Lift With Backup Camera

#### **ITEM 1: OZII Camera**

- 1 P&T ZOOM M/C SONDE CAMERA
- 1 Solid State Color Sewer TV Camera
- 1 Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
- 1 NTSC Color Standard, 4x Light Integration
- 1 Camera Lighting System
- 1 Built In Transmitter, 512 Hz
- 1 Camera Transportation and Storage Case

#### **ITEM 2: Mud Master**

- 1 M/C STEERABLE LARGE PIPE TRANSPORTER, W/ELECTRIC LIFT
- 1 Steerable Wheeled Tractor Assembly for 24" - 200" Pipe Inspection with:
- 1 Dual Motor/Transmission
- 1 Chain Driven
- 1 All-Wheel Drive
- 1 Dual Pneumatic Wheel Set
- 1 255 Watt External Lighting System
- 1 Set of Eight (8) Knobby Wheels/Tires
- 1 Remote Operated Power Lift
- 1 Set of Eight (8) 12" Chevron tread Wheels/Tires

#### **ITEM 3: Backup Camera**

- 1 REAR-VIEW CAMERA FOR LARGE WHEEL TRANSPORTOR
- 1 Color/IR camera
- 1 12 LED/IR (infrared) lighting with auto-switching sensor

**1 YR WARRANTY ON ALL EQUIPMENT**

**1 DAY TRAINING, ON-SITE**

**1 EQUIPMENT DELIVERY – GRAND ISLAND, NEBRASKA**

**1 ALL PLUGS ASSOCIATED WITH CAMERA/REAR-VIEWCAMERA, TRANSPORTER, LIGHT ACCESSORIES, AND POWER LIFT OPERATION**

## **ITEM 1: PAN, TILT, and OPTICAL ZOOM CAMERA**

The unit shall be labeled and listed as a minimum by a Nationally Recognized Testing Laboratory (NRTL) to the applicable Standard for Safety for Closed Circuit Television Equipment, UL 2044, 2nd edition, 11/9/01. A listing report must be supplied that certifies the aforementioned equipment is acceptable as defined by 29 CFR 1910.399 and required by 29 CFR 1910.303(a). Self-certification or certification by a laboratory that is not an NRTL will be deemed unacceptable. NRTL labeled and listed equipment shall be supplied as required by the FEDOSHA memorandum, dated September 25, 2002, page 3, Section on Compliance, prepared by John L Henshaw, Assistant Secretary of Occupational Safety and Health.

The Pan, Tilt, and Zoom Camera shall be designed for use in 6" diameter relined pipe and larger. The unit will be designed to provide close-up views of pipe walls during inspection including minute defects and voids. The unit will be color, shall operate optimally through a maximum of 4000' multi conductor or 2000' single conductor cable, and shall consist of the following (minimum):

### **Camera**

- Chassis construction shall include 100% solid state circuitry designed to withstand shocks and vibration normally sustained while being pulled through a pipe.
- The camera module shall be an industrial model only.
- REPACKAGED CONSUMER GRADE CAMERAS (I.E. CAMCORDERS) WILL BE DEEMED UNACCEPTABLE FOR USE IN A PIPELINE TELEVISION INSPECTION SYSTEM.
- Operating temperature ranges of the camera shall be 0 degrees C to 50 degrees C.
- CAMERAS INCORPORATING BUILT IN LIGHTING SYSTEMS THAT GENERATE HEATEXCEEDING THE OPERATING TEMPERATURE PARAMETERS LISTED BY THE BASE STOCK CAMERA MANUFACTURER WILL NOT BE ACCEPTABLE.
- The camera shall develop a true color and transmit a sharp image picture on the video bandwidths only.
- PICTURE TRANSMISSION SYSTEMS THAT REQUIRE THE USE OF R.F. SUPPRESSORS AND ARE SUBJECT TO LOCAL TRANSMITTER INTERFERENCE SHALL NOT QUALIFY AS BEING EQUAL.
- Full color video bandwidths shall be provided with no sacrifice of low frequency response. There shall be no visible streaking of the low frequency test bars when viewing a standard EIA Test Chart.
- Shall not exceed an overall length of 17.7", a head length of 6.6", and a camera barrel diameter of 3".

### **Built-in Sonde**

- Shall be designed to emit continuous magnetic pulses/signals with a working distance of 30' (minimum) air.
- Shall operate with any constant tone, 512 Hz receiver.
- Includes remote ON/OFF capabilities designed to preclude erroneous signals.

### **Camera Optical & Digital Zoom**

- Optical & digital zoom and zoom & focus speeds shall be selectable from the maintenance terminal.
- Remote control of pan, tilt, pan and tilt homing, optical zoom, manual focus, automatic focus, shutter speed, frame integration, manual iris, diagnostics and internal lights shall be provided.
- Optical Zoom Range: 10x
- Digital Zoom Range: 4x (40x with optical zoom)
- Total effective zoom ratio: 40:1
- The lens shall be an automatic iris type with a manual override (controlled from the control console) to control the illumination range for an acceptable picture between 3 and 10,000 lux.

### **Pan and Rotate Speeds**

- Full Pan (no load): 56 deg/sec, full pan in 5-7 seconds
- Full Rotation (no load): 31 deg/sec, full rotation in 11-13 seconds

### **Camera Housing**

- The camera mechanics and electronics shall be housed in a high strength, damage resistant, aluminum housing with a stainless steel tube.
- The rear portion of the camera shall not exceed 3 inches in diameter to allow for operation in skids

- and self-propelled units that are designed for 3-inch diameter cameras.
- The housing shall be 1/8" minimum wall thickness.
- HOUSINGS WITH THINNER STAINLESS STEEL WALLS OR ALUMINUM WALLS THAT EASILY DENT ON IMPACT WILL NOT BE CONSIDERED EQUAL.
- The front of the camera head housing shall have a view port of optical grade sapphire.
- The rear of the housing shall have a recessed bell to protect the indexed cable connector.

#### Mounting Fork

- The forward portion of the camera shall not exceed 4.5 inches in diameter and will include the mounting fork, camera head and lighting.
- The camera forks must be rounded or chamfered and be the same diameter as the forward portion of the camera to eliminate any sharp corners that can become caught on obstructions.
- CAMERA FORKS THAT EXCEED THE DIAMETER OF THE CAMERA HOUSING THAT ARE SUBJECT TO DAMAGE INSIDE THE PIPE ARE NOT ACCEPTABLE.
- The mounting fork will rotate 360 degrees with an optical viewing angle of 400 degrees and shall allow the camera head to pan mechanically 285 degrees with a pan viewing angle of 331 degrees.

#### Camera Lighting

- Shall be remotely controlled from the control console.
- Shall be integrated into the camera and include four 12W xenon lamps equaling 48 watts.
- Shall provide adequate lighting in pipe sizes from 6" - 72" in diameter.
- CAMERAS THAT REQUIRE EXTERNAL MOUNTED NON-DIRECTIONAL LIGHTING FOR 36" THROUGH 72" PIPE ARE NOT ACCEPTABLE.

### ELECTRICAL SPECIFICATIONS and CAMERA REQUIREMENTS

#### Video Output

- Multi-Conductor Version: 1 V, S/N 46dB or greater
- Single-Conductor Version: FM modulated 9.8mHz to 11.3mHz.

#### Integrated Lights

- 4 x 12W xenon lamps
- Power consumption: 48W max 12V
- Illumination: 80 mscp (1000 lumens)
- Lamp life: 200 hours
- Color temp: 3000°K

#### Image Pick-up Device

- Interline transfer 1/4 inch CCD color

#### Picture Elements ( pixels)

- Solid state 1/4" diagonal pixels: 768 (H) x 494 (V) = 379,392 elements (NTSC)

#### Lens

- 10x Zoom f=4.2mm to 42mm (F1.8 to F2.9)

#### Digital Zoom

- 4x (40x with optical zoom)

#### Field of View

- 56° diagonal, 46° (H) wide, 4.6° (H) tele end

#### Resolution Lines

- 470 TV lines horizontal

#### Electronic Shutter

- 1/4 s to 1/10,000 s, 20 steps

#### Minimum Illumination

- 3 lux @ F/1.4

#### Input Camera Voltage

- Single-Conductor Version: 64V to 160V
- Multi-Conductor Version: 20-72V from controller

#### Head Rotation

- Axial Rotation: 360°
- Rotation Optical Viewing Angle: 400°
- Lateral Pan: 285°

- Pan Viewing Angle Range: 331°
- Operate in a 6" Relined Pipe
- Rotational Diameter: 4½"

#### Internal Diagnostics

- Humidity sensor, CCD temperature, camera voltage, light head voltage, serial number identification, and operating hour meter.

**\*\*CAMERAS WITHOUT THE AFOREMENTIONED DIAGNOSTICS WILL BE DEEMED UNACCEPTABLE.**

#### Working Pressure

- 50 PSI (minimum)

#### Operating Temperature

- 0° to 50°C

#### Compatible PCU's

- Multi-conductor Version: 1208 Mainline PCU and Inspector General portable PCU
- Single-Conductor Version: SC-2000 CCU

#### Compatible Cables

- Multi-Conductor Version: Up to 4000'
- Single-Conductor Version: Up to 2000'

#### Dimensions

- Overall length: 17.7", Head length: 6.6", Body tube diameter: 3", Head rotational diameter, 4 ½"

#### Weight

- TBD

### **SONDE SPECIFICATIONS AND REQUIREMENTS**

#### ELECTRICAL

##### Field Strength

- Measurement Method: FR-1 Receiver with meter reading of "0" at 30 feet in air. Drive Circuit
- Operating Frequency: 512 Hz.
- Frequency Control: Crystal stabilized
- Power Supply: 12 volts, shared with internal lights power supply

##### MECHANICAL

##### Drive Circuit

- Square circuit board to match the inclinometer sensor footprint to ensure that the mounting hardware can be shared.

##### Transmitter Antenna Coil

- Shall be built into a modified connector housing.

### **ITEM 2: STEERABLE LARGE PIPE INSPECTION TRACTOR**

The unit shall be labeled and listed as a minimum by a Nationally Recognized Testing Laboratory (NRTL) to the applicable Standard for Safety for Closed Circuit Television Equipment, UL 2044, 2nd edition, 11/9/01. A listing report must be supplied that certifies the aforementioned equipment is acceptable as defined by 29 CFR 1910.399 and required by 29 CFR 1910.303(a). Self-certification or certification by a laboratory that is not an NRTL will be deemed unacceptable. NRTL labeled and listed equipment shall be supplied as required by the FEDOSHA memorandum, dated September 25, 2002, page 3, Section on Compliance, prepared by John L Henshaw, Assistant Secretary of Occupational Safety and Health.

A large pipe, all wheel drive inspection camera carrier shall be provided to inspect pipes 24" to 200" or box culverts up to 12' x 12'. The tractor shall be specifically designed to meet the special operating conditions encountered in large pipe and storm drain inspection.

The tractor shall have the following features (minimum):

#### Camera Carrier Assembly

- Shall be designed to fit through a manhole with an inside diameter of 19".
- Shall incorporate dual four wheel drive to provide maximum traction on wet or dry surfaces through all types of sediment.
- Shall include a quick disconnect fitting with captured hardware for easy removal and installation of the outer dual wheels (4).

- Shall have a variable drive speed from 0 to 60 feet per minute in both forward or reverse direction and shall include a neutral (freewheel) position to allow the transmission assemblies to be disengaged from the drive train.
- Normal retrieval of the camera carrier shall be accomplished in the free wheel mode by the video cable reel. This will reduce the normal wear on the drive motor and drive train by 50%.
- Powered reverse only camera carriers, which have the potential of running over the cable termination during retrieval operation, thus requiring the operator to coordinate the speed of the transporter with the speed of the video cable reel will be deemed unacceptable.
- However, powered reverse shall be supplied to facilitate precise inspections and aid in equipment retrieval.
- Directional control of the camera carrier shall include the capability of steering the camera carrier in both right and left directions to facilitate inspection in adverse pipe conditions.
- Steering capability shall be possible in both the forward and reverse direction of travel.
- Tractor shall be capable of conducting a complete 360 degree turn on open ground without being driven initially in forward or reverse.
- Shall include one set of (8) knobby tires with optional chevron tread tires available.
- The camera carrier and mounted camera shall weigh a minimum of 230 lbs. to maximize traction.
- Shall have minimum wheelbase of 16" W x 41.5" L when using 10.5" diameter semi-pneumatic tires to maximize stabilization.
- Shall include quick release pins to mount tandem tires (total of eight) to maximize stabilization.

#### Drive System

- Shall incorporate permanent drive self-cleaning drive sprockets with "Perfect Coat" steel chains and fiberglass chain guards complete with flush drains for easy cleaning.
- Shall consist of (2) independent, electric, motor/transmission assemblies.
- Each motor/transmission assembly shall include a continuous rated 120 Volt DC electric motor rated at 1/8 horsepower minimum.
- Motors shall be enclosed in waterproof housings.

#### Camera Lift

- An electronic, remote controlled, infinitely variable camera lift shall be provided to prevent the need for an operator to enter the manhole to position and/or reposition the camera height.
- Shall be operated from the remote camera carrier controller.
- Camera height shall be variable from 13" in the collapsed position to 24" in the extended position.

#### Light Assembly

- Shall consist of 3 each independent 85 watt long life light assemblies (255 watts).
- Each assembly shall consist of a waterproof black anodized aluminum housing, replaceable plug-in bulb, defused lens and locking mount.
- Each light shall be wired to operate independently (in parallel) to preclude total light failure.
- **SERIALLY WIRED LIGHT ASSEMBLIES WILL NOT BE DEEMED ACCEPTABLE.**