



City of Grand Island

Tuesday, May 14, 2013

Council Session

Item G-12

#2013-135 - Approving Bid Award for One (1) Sewer Camera with Sonde and Steerable Large Pipe Transporter, with Electric Lift and Backup Camera for the Wastewater Division of the Public Works Department

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Marvin Strong PE, Wastewater Plant Engineer

Meeting: May 14, 2013

Subject: Approving Bid Award for One (1) Sewer Camera with Sonde & Steerable Large Pipe Transporter, with Electric Lift and Backup Camera

Item #'s: G-12

Presenter(s): John Collins PE, Public Works Director

Background

On April 18, 2013 the Wastewater Division of the Public Works Department advertised for bids for one (1) Sewer Camera with Sonde & Steerable Large Pipe Transporter, with Electric Lift and Backup Camera. There were four (4) potential bidders.

This piece of equipment is used for televising sanitary sewer pipe within the City for evaluation of pipe condition.

This new camera will add to our fleet of televising equipment and has a transmitter inside that will help us locate the camera if it were to get stuck or a cave in inside the pipe were to occur. With this new camera there will no longer be a need to keep switching the camera from one transporter to another, this eliminating the breakage of the connector wire that connects the camera to the transporter.

The new transporter will allow us televise larger lines and will provide better lighting. This unit will give us the ability to televise lines from 24" up to 200", and is designed to operate with 2000' of single-conductor cable or 1500' of multi-conductor cable and combines high ground clearance with pneumatic tires to provide the traction and camera stability that's required for operation under adverse pipeline conditions including high flow, deep mud, sand and large amounts of debris.

Discussion

One (1) bid was received and opened on April 30, 2013. The bid was submitted in compliance with the plans and specifications. A summary of the bid is shown below.

<i>Bidder</i>	<i>Exceptions</i>	<i>Base Bid</i>
Municipal Pipe Tool Company, LLC of Hudson, Iowa	None	OZII Camera = \$20,960.00 MUD Master = \$27,100.00 Backup Camera = \$4,500.00
GRAND TOTAL BID = \$52,560.00		

There are sufficient funds in Account No. 53030054-85213 for this purchase.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve awarding the bid to Municipal Pipe Tool Company, LLC of Hudson, Iowa in the amount of \$52,560.00 as the low compliant bid that meets specifications.

Sample Motion

Move to approve the bid award.



Stacy Nonhof, Purchasing Agent

*Working Together for a
Better Tomorrow, Today*

BID OPENING

BID OPENING DATE: April 30, 2013 at 2:15 p.m.

FOR: Sewer Camera with Sonde & Steerable Large Pipe Transporter, with Electric Lift and Backup Camera

DEPARTMENT: Public Works

ESTIMATE: \$70,000.00

FUND/ACCOUNT: 53030054-85213

PUBLICATION DATE: April 18, 2013

NO. POTENTIAL BIDDERS: 4

SUMMARY

Bidder: Municipal Pipe Tool Company, LLC
Hudson, IA

Bid Security: Merchants Bonding Company

Exceptions: None

Bid Price:

OZII Camera:	\$20,960.00
Mud Master:	\$27,100.00
Backup Camera:	<u>\$ 4,500.00</u>
Total Bid:	\$52,560.00

cc: John Collins, Public Works Director
Mary Lou Brown, City Administrator
Stacy Nonhof, Purchasing Agent
Jaye Monter, Finance Director

Catrina DeLosh, PW Admin. Assist.
Bren Juarez, Wastewater Clerk
Scott Griepenstroh, PW Project Manager

P1645

"The Standard of the Industry"



Steerable Mudmaster

Multi and Single Conductor III Wheeled Transporters

The Steerable Mudmaster is a camera transporter that's specifically designed with the necessary weight, power, high clearance, and all wheel drive for pipelines ranging from 24" to 200". The unit is designed to operate with 2000' of single-conductor cable or 1500' of multi-conductor cable and combines high ground clearance with pneumatic tires to provide the traction and camera stability that's required for operation under the most adverse pipeline conditions including high flow, deep mud, sand and large amounts of debris. Optional tandem wheels are available. The Steerable Mudmaster can turn 360 degrees within its own radius and traverse pipelines with multiple 45 and 90-degree bends. The waterproof remote-operated camera lift can be inserted through a 19" diameter manhole with the camera in the lowest position to preclude the operator from confined space entry. This rugged all wheel drive robot can operate all CUES cameras, including OZ (Optical Zoom Pan and Tilt series) and Night Lite pan and tilt. The unique portable joystick controller enables the operator to control all transporter, camera, and camera lift functions with one hand! Non steerable units with remote or manual camera lifts are also available.

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Operates with multi & single conductor systems!

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Features & Benefits:

- Operates with CUES multi or single conductor systems
- Can operate on all truck-mounted and portable systems
- Operates with all CUES cameras
- Four or eight (tandem) wheels provide greater traction in all types of pipe, under all conditions
- Matched weight and power to maximize efficiency and capability
- Simple dual-wheel installation and captured hardware
- Remote-operated adjustable camera lift to position the camera for best available picture; stable center of gravity when the camera lift is extended
- Inspects 24" through 200" lines
- Rugged, durable and sealed to eliminate water intrusion
- 255 watt light system, variable, adjustable, 3 lamps (2-lamps for single-conductor III units-170 watts total)
- The unit has variable speed drive, power forward, power reverse, and freewheel capabilities
- Flight stick controller to control the transporter and camera movements with one hand; provides operational simplicity
- Operates on 2000' (maximum) of single conductor cable; 1500' of multi conductor cable
- Fits through a manhole with an inside diameter of 19"
- Provide maximum traction on wet or dry surfaces through all types of sediment
- Can turn 360 degrees within its own radius and traverse curved pipe; can turn at 90 degree elbows and tees within larger pipelines; can traverse pipelines with multiple 45 and 90-degree bends
- Utilizes all-wheel drive in conjunction with a low center of gravity to traverse and steer through pipelines
- Longer wheel base to prevent accidental roll-over
- Dual motors to ensure adequate power for longer inspections
- High-clearance for operation in debris-filled pipes



Specifications subject to change without prior notice

Visit our web site at www.cuesinc.com

Drive System

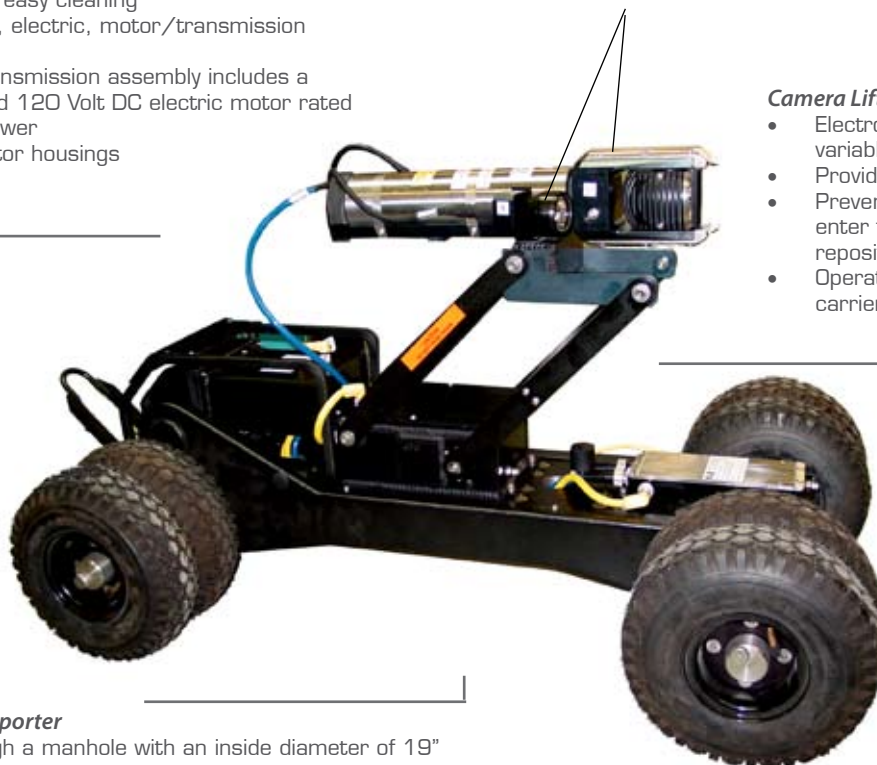
- Permanent drive self-cleaning drive sprockets with "Perfect Coat" steel chains and fiberglass chain guards
- Flush drains for easy cleaning
- (2) independent, electric, motor/transmission assemblies
- Each motor/transmission assembly includes a continuous rated 120 Volt DC electric motor rated at 1/8 horsepower
- Waterproof motor housings

Light Assembly (shown below with a SCIII single conductor unit)

- 2 each independent 85 watt long life light assemblies (170watts)
- Waterproof black anodized aluminum housing, replaceable plug-in bulb, defused lens and locking mount
- Wired to operate independently (in parallel) to preclude total light failure

Camera Lift

- Electronic, remote controlled, infinitely variable camera lift
- Provides a center-of-pipe view
- Prevents the need for an operator to enter the manhole to position and/or reposition the camera height
- Operated from the remote camera carrier controller



Steerable Transporter

- Fits through a manhole with an inside diameter of 19"
- Can complete 360 degree turns on open ground
- Retrieve the camera carrier in the free wheel mode by the video cable reel
- Steer the camera carrier in both right and left directions in adverse pipe conditions
- Includes one set of (8) 10.5" knobby tires with optional 12" chevron tread tires
- Incorporates dual four wheel drive for max traction on wet/dry surfaces through all types of sediment
- Wheelbase of 16" W x 41.5" L when using 10.5" diameter semi-pneumatic tires
- Includes full-proportional steering to traverse curved pipe, turn at 90 degree elbows within larger pipeline, and turn at tees within larger pipeline
- Includes variable speed drive, power forward, power reverse, and freewheel capabilities



Joystick Camera/Transporter Controller Operations

- Direction Forward/ Reverse/Freewheel
- Steering Straight/Right/Left
- Camera Auto Center 0 degree return for horizontal / vertical axis
- Camera Rotate 360 degrees Rotate
- Camera Pan 330 degrees Optical Pan
- Camera Electric Lift Up/Down
- Transporter Cruise Control
- * Camera functions may operate differently than stated above depending on your specific model.

OPTIONAL EQUIPMENT

- 425 watt light system, variable, adjustable with 5 lamps (multi-conductor only)
- Remote or manual camera lift to optically center the camera up to 60" diameter pipe
- Multiple wheel sizes to fit various pipe conditions; 12" diameter Chevron tires for maximum traction and ground clearance; optional liquid filled tires

RESOLUTION 2013-135

WHEREAS, the City of Grand Island invited sealed bids for one (1) Sewer Camera with Sonde & Steerable Large Pipe Transporter, with Electric Lift and Backup Camera, according to plans and specifications on file with the Public Works Department; and

WHEREAS, on April 30, 2013 bids were received, opened, and reviewed; and

WHEREAS, Municipal Pipe Tool Company, LLC of Hudson, Iowa submitted a bid in accordance with the terms of the advertisement of bids and plans and specifications and all other statutory requirements contained therein, such bid being in the amount of \$52,560.00, and

WHEREAS, Municipal Pipe Tool Company, LLC.'s bid was below the estimate for such equipment; and

WHEREAS, funds are available in the Fiscal Year 2012/2013 budget for such purchase.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the bid of Municipal Pipe Tool Company, LLC of Hudson, Iowa in the amount of \$52,560.00 for one (1) Sewer Camera with Sonde & Steerable Large Pipe Transporter, with Electric Lift and Backup Camera is hereby approved as the lowest responsible bid.

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Adopted by the City Council of the City of Grand Island, Nebraska, May 14, 2013.

Jay Vavricek, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
May 10, 2013	☐ City Attorney