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SPECIFICATIONS FOR: A PORTABLE MAINLINE VIDEO INSPECTION SYSTEM

GENERAL

The purchaser is requesting sealed bids for 1 (one) self-contained and fully integrated portable crawler system for pipe inspection in 6"to 12" main lines, and up to 18" with an additional wheel set. It is the intention of these specifications to describe the minimum acceptable requirements for this system.

The system and equipment proposed shall be new and unused except for the necessary testing and calibration.

Responses to each specification item contained herein must be indicated by marking either YES or NO in the blank. Items left blank shall be regarded as a NO response. All specifications will be scored and the final selection will be partially based upon the supplier's ability to meet the specific equipment requirements.

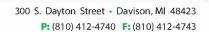
All sections and requirements of this bid proposal must be completed and all information provided must be accurate and truthful. Failure to meet this requirement will result in rejection of the bid proposal.

Determination of the successful bidder will be made based on the following criteria.

- 1. Bid price
- 2. Performance Evaluation of the system proposed.
- 3. Specification compliance.
- 4. Length of delivery time.
- 5. Service center availability.
- 6. Warranty.
- 7. Reference list.

The City Purchasing Officer	r reserves the right to rule upon	ı each of the criteria set forth	above in a manner	that best meets
the needs of The City			·	

Date Created: 07/20/2015 Revision: A







To be returned with Bid or Proposal. Please include the manufactures spec sheet also.

Please provide a check for each item that the proposed equipment meets. If blank please provide an explanation in the additional information section. If any options are not specified, please list these additional options in the same space for review and consideration.

GENER/	AL OVERVIEW:	COMPLY:	
The ma	ainline system shall be compact and portable integrated with the following features.	Yes	No
0	Self-propelled robotic transporter	Yes	No
0	Includes 10 inch touchscreen	Yes	No
0	Motorized cable reel drum of TV transmission power cable	Yes	
0	Color video inspection system capable of inspecting 6" to 12" main lines	Yes	No
0	Additional wheel sets for 18" pipes size	Yes	No
	ainline system shall be designed to support all of the following features and additions ximum system configuration and flexibility.	Yes	No
0	Ability for transporter to be free wheel so the cable can be rewound at the same speed to avoid running over the cable	Yes	No
0	Cable reel drum must have variable speed, power cable and level rewind	Yes	No
0	Cable reel drum must have a telescopic handle and wheels for easy portability	Yes	No
0	Cable reel drum must be able to hold a minimum of 600' feet of multi-conductor flexible video cable	Yes	
progra	otorized reel cable drum shall incorporate the latest digital technology in mmable microprocessor. Windows apps controls for video functionalities	Yes	
0	Able to connect to an external monitor	Yes	
0	Additional source of AC power outlet	Yes	
0	Ability to pan & rotate the camera on the transporter	Yes	
0	Allow brightness control for lighting in pipes	Yes	
0	Integrated transporter controls for direction and speed	Yes Yes	
<u>OPERAT</u>	ING PLATFORM: (Shall Incorporate At Minimum)	COMPLY:	
• W	indows 7 x64 Professional operating system for ease-of-use	Yes	No
• Int	el i5 processor to allow seamless multi-tasking	Yes	No
• W	indows Apps to control for video playback, record and store(save)	Vec	No



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•	Gigabit Ethernet port for various network connection	Yes	No
•	Wireless "N" network enabled for wireless internet connections	Yes	No
		Voc	No
•	Minimum 500 GB solid state drive for rapid boot-up and file storage	Yes	No
•	Minimum 8 GB 240-Pin DDR3 SDRAM to increase computer speed and usability	Yes	No
<u>COI</u>	NTROL PANEL DISPLAY: (Shall Incorporate At Minimum)	COMPLY:	110
•	10" LED Touchscreen for quick navigation and user access	Yes	No
•	1024 x 768 high (native) resolution for better brightness and contrast	Yes	No
•	Ability to display digital text editor and touch keyboard interface	Yes	 No
	o Supported external USB port for wireless keyboard		No
•	Read to external USB and flash drive port for data storage	 Yes	No
•	Interface must include wireless "N" remote access Wi-Fi to other computer	Yes	
•	Built with external recordings to USB, SD or SSD for data storage		No
<u>PA1</u>	N & ROTATE CAMERA: (Shall Incorporate At Minimum)	COMPLY:	
•	Camera can rotate 360 degrees and pan 180 degrees for full view of laterals and joints	Yes	No
•	Have a fixed focus at 6 through 24 inch pipe size	Yes	
•	Adjustable camera lift height for various size pipes	Yes	No
•	Built with impact resistant and replaceable polycarbonate camera dome	Yes	No
•	System available in NTSC or PAL format	Yes	No
•	Ability to produce high resolution camera picture pixel of 640 x 480	Yes	No
•	Must have variable hi-intensity LED's lights to provide pipe illumination		No
•	Built with imager sensitivity at 1 Lux	Yes	No
•	Pan & Rotate camera head must be submersible	Yes	No
<u>SYS</u>	TEM RECORDER: (Shall Incorporate At Minimum)	COMPLY:	
•	Must have an easy 'One-Touch' recording option from the touchscreen	Yes	No
•	Built with user accessible USB 2.0 and 3.0 ports to transfer all files from pc	 Yes	
•	Take snapshots in JPEG/ PNG (image formats) during inspections	Yes	No
•	Record in MPEG 4 compressed video for ideal data sharing	Yes	No



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•	Compatible with other multi-format data collection programs	Yes	No
•	Built with auxiliary video output ports for external screen monitor		No
•	Ability to display multi-monitor Windows operations	Yes	No
•	Must have automatic file storage to user directories and storage media	Yes	No
ON-	SCREEN TEXT DISPLAY: (Shall Incorporate At Minimum)	COMPLY:	
•	Must have multi-tab or page text entry screen for data collection	Yes	No
•	Must have digital on-screen distance counter in meters or feet	Yes	No
•	Ability to enter user job and multi-run tabs to allows documenting inspection	Yes	No
•	Ability to export footage counter reading to third-party software	Yes	No
•	System must be compatible with Third-Party PACP software integration	Yes	No
TRA	NSPORTER: (Shall Incorporate At Minimum)	COMPLY:	
•	Built with six wheels and be all-wheel drive(AWD) for better control	Yes	No
•	Must have no less than three (3) available wheel sets for various pipe size ranges	Yes	No
•	Must be able to inspect 6" to 12" pipe diameters (Up to 18" with additional wheel sets)	Yes	No
•	Tractor speed and camera can be controlled by tether pendant on the reel	Yes	No
•	Wheels must be high-grip polymer rubber tires for demanding conditions	Yes	No
•	Built with heavy-duty planetary gear transmission for longer runs	Yes	No
•	Tractor motor must be built with 159:1 reduction ratio for better controls	Yes	No
•	Must incorporate leak/ pressure test valve/ port test for water intensive pipes	Yes	No
•	Must have hardened helical final drive gears for increased durability	Yes	No
•	Ability to easily/ rapidly change wheel set with single retaining nut	Yes	No
•	Weight of transporter must be no less than 35 lbs.	Yes	No
•	Transporter Dimension must be no shorter than 19" L x 3.5" H x 5" W	Yes	No
•	Transporter body must be submersible for various pipe conditions	Yes	No
•	9 high intensity LED lateral lights	Yes	No



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<u>MO</u>	TORIZED REEL CABLE DRUM: (Shall Incorporate At Minimum)	COMPLY:	
•	Reel must be motorized and have the ability to rewind and payout	Yes	No
•	Must have variable speed video cable retrieve and payout	Yes	No
•	Must have automatic free wheel drum clutch to aide an inspection	Yes	No
•	Must have footage count mechanism	Yes	No
•	Must have quadrature encoder that is 100 pulses per foot	Yes	No
•	Direct drive level wind system should be linked to drum movement to level	Yes	No
•	Reel weight must be no more than 160 lbs. with 600 feet	Yes	No
•	Reel Dimensions must be no more than 29 $^{\prime\prime}$ H x 20 $^{\prime\prime}$ W x 21 $^{\prime\prime}$ D to fit in small areas	Yes	No
•	Reel must be splash resistant with rain cover for unexpected weather conditions	Yes	No
•	Must have an auxiliary AC input port for external power	Yes	No
•	Motorized reel can be powered up with 1000 watt inverter	Yes	No
SER'	VICE:	COMPLY:	
we pre	ovides up to eight (8) hours or one (1) day of operator training performed on-site or binar by a factory trained specialist. Training such as operator use of all equipment, eventive maintenance, diagnostic trouble-shooting, and equipment repair will be ovided.	Yes	No
	motely accessible interface for software upgrades and trouble-shooting support including gnostic services.	Yes	No
Su	oply one(1) complete manufactures user's manual.	Yes	No

INSURANCE:

Not Applicable

WARRANTY:

All items furnished in accordance with these specifications shall be covered by the manufacturers and/or suppliers standard warranty or guarantee on new equipment. The minimum warranty period of the new video inspection equipment will be one (1) year for all parts and labor on manufacturers' defects. The warranty statement must be included with the bid response to be considered a valid bid.



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ADDITIONAL INFORMATION:		



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BIDDER'S PROPOSAL A PORTABLE MAINLINE VIDEO INSPECTION SYSTEM

(This portion of the form can be customized for additional requirements)

DATE:	
CITY:	
INSPECTION SYSTEM	d, agree to furnish ALL MATERIALS AND LABOR TO PROVIDE A PORTABLE CCTV MAINLINE VIDEO 1 for, in accordance with the attached minimum 1 are part of this proposal, at the following price:
BID:	Bid amount for Portable CCTV Mainline Video Inspection System \$
SUBMITTED BY:	
FIRM: ADDRESS: BY: PRINTED: TITLE: PHONE: FAX:	