BID FORM

TO: City of Joplin
Attention: Public Works
602 S. Main St.
Joplin, Missouri 64801

FROM:

Midwest Vac Products LLC
(Name of Bidder)
7627 Richter Rd., Mascoutah IL 62258
(Address of Bidder)
anthony@midwestvacproducts.com
(Email Address of Bidder)
(618) 566-3003
(Phone Number of Bidder)

2017 Camera Van and Equipment
Bid Number: 2017-010

The Bidder further declares that they have examined the specifications, documents and informed themselves fully in regard to all conditions pertaining to this bid.

All equipment shall comply with the bid document specifications. Of which, but are not limited to manufacture recommendation.

Total Base Bid

Base Bid: $ 310,148.00
Rental charges in warranty period: $ 0.00
Rental charges outside of warranty period:$ 0.00
Delivery Date: 120 DAYS FROM NOTICE TO PROCEED

Alternate #1: $322,560.00 Base bid + Alt #1
Alternate #2: $5,625.00

References: (See attached)

By signing this document, bidder represents they have read and clearly understand the bidding documents and have the authority to enter into this agreement.

(SEAL – if by corporation)

Respectfully submitted by

Midwest Vac Products LLC
(Business Name)

7627 Richter Rd., Mascoutah IL 62258
(Business Address)

Date September 28, 2017

By Anthony C Terveer
Anthony Terveer

Title Outside Salesman

CITY OF JOPLIN
JOPLIN, MO

2017-RFP-010

REQUEST FOR PROPOSAL
CAMERA TRUCK

SEPTEMBER 2017

Prepared by:

Lynden Lawson
Assistant Director of Public Works
City Hall, 602 S. Main
Joplin, MO 64801
(417) 624-0820 ext. 560

CITY OF JOPLIN
TERMS AND CONDITIONS
REQUEST FOR PROPOSAL

1. TERMINOLOGY/DEFINITIONS

Whenever the following words and expressions appear in a Request for Proposal (RFP) document or any amendment thereto, the definition or meaning described below shall apply.

a. **Amendment** means a written, official modification to an RFP or to a contract.

b. **Attachment** applies to all forms, which are included with an RFP to incorporate any informational data or requirements related to the performance requirements and/or specifications.

c. **Proposal Opening Date and Time** and similar expressions mean the exact deadline required by the RFP for the physical receipt of sealed bids by the Department in its office.

d. **Offeror** means the person or organization that responds to an RFP by submitting a proposal with prices to provide the equipment, supplies, and/or services as required in the RFP document.

e. **Contract** means a legal and binding agreement between two or more competent parties, for a consideration for the procurement of equipment, supplies, and/or services.

f. **Contractor** means a person or organization who is a successful offeror as a result of an RFP and who enters into a contract.

g. **Exhibit** applies to forms, which are included with an RFP for the offeror to complete and return with the sealed proposal prior to the specified opening date and time.

h. **Request For Proposal (RFP)** means the solicitation document issued by the Public Works Department to potential offerors for the purchase of equipment, supplies, and/or services as described in the document. The definition includes these Terms and Conditions as well as all Pricing Pages, Exhibits, Attachments, and Amendments thereto.

i. **May** means that a certain feature, component or action is permissible, but not required as long as Offerors have an alternative or a delineation for that line item.

j. **Must** means that a certain feature, component, or action is a mandatory condition. Failure to provide or comply will result in a proposal being considered non-responsive.

k. **Pricing Page(s)** applies to the form(s) on which the offeror must state the price(s) applicable for the equipment, supplies, and /or services required in the RFP. The pricing pages must be completed and returned by the offeror with the proposal prior to the specified proposal opening date and time.

l. **RSMo (Revised Statutes of Missouri)** refers to the body of laws enacted by the Legislature, which govern the operations of all agencies of the State of Missouri.

m. **Shall** has the same meaning as the word must.

n. **Should** means that a certain feature, component and/or action is desirable but not mandatory.

2. OPEN COMPETITION/REQUEST FOR PROPOSAL DOCUMENT

a. It shall be the offeror's responsibility to ask questions, request changes or clarification, or otherwise advise the Public Works Department if any language, specifications or requirements of an RFP appear to be ambiguous, contradictory, and/or arbitrary, or appear to inadvertently restrict or limit the requirements stated in the RFP to a single source. Any and all communication from offerors regarding specifications, requirements, competitive procurement process, etc., must be directed to the Public Works Department as indicated on the first page of the RFP. Such communication should be received at least seven calendar days prior to the official proposal opening date of 29 September 2017.

Every attempt shall be made to ensure that the offeror receives an adequate and prompt response. However, in order to maintain a fair and equitable procurement process, all offerors will be advised, via the issuance of an amendment to the RFP of any relevant or pertinent information related to the procurement. Therefore, offerors are advised that unless specified elsewhere in the RFP, any questions received by the Public Works Department less than seven calendar days prior to the RFP opening date may not be answered.

b. Offerors are cautioned that the only official position of the City of Joplin is that position which is stated in writing and issued by the Public Works Department in the RFP or an amendment thereto. No other means of communication, whether oral or written, shall be construed as a formal or official response or statement.

c. During the bidding process all vendors must contact the Assistant Director of Public Works for Operations, 417-624-0820 ext. 560 for any questions or clarifications of information contained in this RFP by 22 September 2017. Vendors are required to refrain from contacting any City employee concerning this RFP, during the course of the bidding process.

d. Submitters shall not contact anyone from the city after the submittal date until the city sends out results of the selection. This procedure is in place to insure a fair and impartial process during the evaluation period.

e. The City of Joplin monitors all procurement activities to detect any possibility of deliberate restraint of competition, collusion among offerors, price-fixing by offerors, or any other anti-competitive conduct by offerors, which appears to violate state and federal antitrust laws. Any suspected violation shall be referred to the Missouri Attorney General's Office for appropriate action.

f. The RFP is mailed to potential offerors at the current address maintained on the vendor registration file in the Public Works Department. If any portion of the address is incorrect, the bidder must notify the Public Works Department in writing upon receipt of the document. Any subsequent amendment to an RFP shall be mailed to the same address as the original RFP unless otherwise notified.

g. The Public Works Department reserves the right to officially modify or cancel an RFP after issuance. Such a modification shall be identified as an amendment.

3. PREPARATION OF PROPOSALS

a. Offerors **must** examine the entire RFP carefully. Failure to do so shall be at offeror's risk.

b. Unless otherwise specifically stated in the RFP, all specifications and requirements constitute minimum requirements unless proposal is accompanied by a delineation letter stating importance of specifications. All proposals must meet or exceed the stated specifications and requirements.

c. Prices bid shall remain valid for 90 days from bid opening unless otherwise indicated. If the bid is accepted, prices shall be firm for the specified contract period.

4. SUBMISSION OF PROPOSALS

Sealed Formal Proposals - ($15,000 and Over)

a. A proposal submitted by an offeror must (1) be signed by a duly authorized representative of the offeror's organization, (2) contain all information required by the RFP, (3) be priced as required, (4) be sealed in an envelope or container, and (5) be mailed or hand delivered (not faxed) to the Public Works Department and officially clocked in no later than the exact opening time and date specified in the RFP.

b. The sealed envelope or container containing a proposal should be clearly marked on the outside with (1) the official RFP number and (2) the official opening date and time. Different proposals should not be placed in the same envelope.

c. A proposal may only be modified or withdrawn by signed, written notice, which has been received by the Public Works Department prior to the official opening date and time specified. A proposal may also be withdrawn or modified in person by the offeror or its authorized representative, provided proper identification is presented before the official opening date and time. Telephone or telegraphic request to withdraw or modify a proposal shall not be honored.

d. Offerors must sign and return the RFP cover page in order to constitute acceptance by the offeror of all RFP terms and conditions. Failure to do so shall result in rejection of the proposal unless the offeror's full compliance with those documents is indicated elsewhere within the offeror's response.

5. FACSIMILE DOCUMENTS - SEALED FORMAL PROPOSALS

All responses to sealed RFP's and amendments to sealed RFP's, including "no bid" responses and requests to modify a proposal, must be delivered to the Public Works Department in a sealed envelope or container. Submission by unsealed facsimile, telegram or telephone is not acceptable. However, sealed proposals containing faxed pages are acceptable. In addition, requests to withdraw proposals may be submitted by facsimile but must be received by the Public Works Department prior to the official opening date and time specified.

6. SEALED FORMAL PROPOSAL OPENING

a. Sealed formal proposal openings are public on the opening date and at the opening time specified on the RFP document. Only the names of the offerors shall be read at the proposal opening. The contents of the proposals shall not be disclosed.

b. It is the offeror's responsibility to ensure that the proposal is delivered by the official opening date and time to the Public Works Department.

c. Proposals, which are not received by the Public Work Department prior to the official opening date and time, shall be considered late, regardless of the degree of lateness or the reason related thereto, including causes beyond the control of the offeror. Late proposals shall not be opened.

7. EVALUATION/AWARD

a. Any clerical error, apparent on its face, may be corrected by the Public Works Department before contract award. Upon discovering an apparent clerical error, the Public Works Department shall contact the offeror and request written clarification of the intended proposal. The corrections shall be made in the notice of award. Examples of apparent clerical errors are: 1) misplacement of a decimal point; and 2) obvious mistake in designation of unit.

b. Any pricing information submitted by an offeror but not reflected on the pricing page shall be subject to evaluation if deemed by the Public Works Department to be in the best interests of the City of Joplin.

c. Unless otherwise stated in the RFP, cash discounts for prompt payment of invoices shall not be considered in the evaluation of prices. However, such discounts are encouraged to motivate prompt payment.

d. Awards shall be made to the offeror whose proposal (1) complies with all mandatory specifications and requirements of RFP and (2) is the lowest and best proposal, considering price, responsibility of the offeror, and all other evaluation criteria specified in the RFP.

e. In the event all offerors fail to meet the same mandatory requirement in an RFP, the Public Works Department reserves the right, at its sole discretion, to waive that requirement for all offerors and to proceed with the evaluation. In addition, the Public Works Department reserves the right to waive any minor irregularity or technicality found in any individual proposal.

f. When evaluating a proposal, the City of Joplin reserves the right to consider relevant information and fact, whether gained from a proposal, from an offeror, from an offeror's references, or from any other source. The City reserves the right to accept or reject any and all proposals.

g. Negotiations may be conducted with those offerors who submit potentially acceptable proposals. Proposal revisions may be permitted for the purpose of obtaining best and final offers. In conducting negotiations, there shall be no disclosure of any information submitted by competing offerors.

h. Any award of a contract shall be made by written notification from the Public Works Director to the successful offeror. The Public Works Department reserves the right to make awards by item, group of items, all or none, or a combination thereof, with one or more suppliers.

i. Pursuant to Section 610.021 RSMo, proposals and related documents shall not be available for public review until after a contract is executed or all proposals are rejected.

j. The Public Works Department reserves the right to request written clarification of any portion of the offeror's response in order to verify the intent of the offeror. The offeror is cautioned, however, that its response shall be subject to acceptance or rejection without further clarification.

8. CONTRACT/PURCHASE ORDER

a. By submitting a proposal, the offeror agrees to furnish any and all equipment, supplies and/or services specified in the RFP, at the prices quoted, pursuant to all requirements and specifications contained therein.

b. A binding contract shall consist of: (1) the RFP and any amendments thereto, (2) the contractor's response (proposal) to the RFP, and (3) Public Works Department's acceptance of the response (proposal) by "Notice of Award" (for ongoing provision of equipment, supplies, and/or services) or by "purchase order."

c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services.

d. The contract expresses the complete agreement of the parties and performance shall be governed solely by the specifications and requirements contained therein. Any change, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representatives of the contractor and the City of Joplin or by a purchase order change order prior to the effective date of such modification. The contractor expressly and explicitly understands and agrees that no other method and/or no other document including correspondence, acts, and oral communications by or from any person, shall be used or construed as an amendment/change order to the contract.

e. Offerors may submit more than one (1) bid for different equipment that they possess in their inventory.

9. APPLICABLE LAWS AND REGULATIONS

a. The contract shall be construed according to the laws of the State of Missouri. The contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract to the extent that the same may be applicable.

b. To the extent that a provision of the contract is contrary to the Constitution or laws of the State of Missouri or of the United States, the provisions shall be void and unenforceable. However, the balance of the contract shall remain in force between the parties unless terminated by consent of both the contractor and the Public Works Department.

c. The contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri and other regulatory agencies, as may be required by law or regulations.

10. CONFLICT OF INTEREST

a. Officials and employees of the City of Joplin, its governing body, or any other public officials of the State of Missouri must comply with provisions of the Joplin City Code as well as Sections 105.452 and 105.454 RSMo regarding conflict of interest.

b. The contractor hereby covenants that at the time of the submission of the proposal the contractor has no other contractual relationships, which would create any actual or perceived conflict of interest. The contractor further agrees

that during the term of the contract neither the contractor nor any of its employees shall acquire any other contractual relationships, which create such a conflict.

11. REMEDIES AND RIGHTS

a. No provision in the contract shall be construed, expressly or implied, as a waiver by the City of Joplin of any existing or future right and/or remedy available by law in the event of any claim by the City of Joplin of the contractor's default or breach of contract.

b. The contractor agrees and understands that the contract shall constitute an assignment by the contractor to the City of Joplin of all rights, title and interest in and to all causes of action that the contractor may have under the antitrust laws of the United States or the State of Missouri for which causes of action have accrued or will accrue as the result of or in relation to the particular equipment, supplies, and/or services purchased or procured by the contractor in the fulfillment of the contract with the City of Joplin.

12. CANCELLATION OF CONTRACT

a. In the event of material breach of the contractual obligations by the contractor, the Public Works Department may cancel the contract. At its sole discretion, the Public Works Department may give the contractor an opportunity to cure the breach or to explain how the breach will be cured. The actual cure must be completed within no more than 10 working days from notification, or at a minimum the contractor must provide the Public Works Department within 10 working days from notification a written plan detailing how the contractor intends to cure the breach.

b. If the contractor fails to cure the breach or if circumstances demand immediate action, the Public Works Director will issue a notice of cancellation terminating the contract immediately.

c. If the Public Works Department cancels the contract for breach, the Public Works Department reserves the right to obtain the equipment, supplies, and/or services to be provided pursuant to the contract from other sources and upon such terms and in such manner as the Department deems appropriate and charge the contractor for any additional costs incurred thereby.

13. COMMUNICATIONS AND NOTICES

Any written notice to the contractor shall be deemed sufficient when deposited in the Unites States mail postage prepaid, transmitted by facsimile, or hand-carried and presented to an authorized employee of the contractor at the contractor's address as listed in the contract.

14. NON-DISCRIMINATION AND AFFIRMATIVE ACTION

In connection with the furnishing of equipment, supplies, and/or services under the contract, the contractor and all subcontractors shall agree not to discriminate against recipients of services or employees or applicants for employment on the basis of race, color, religion, national origin, sex, age, disability, or veteran status. If the contractor or subcontractor employs at least 50 persons, they shall have and maintain an affirmative action program, which shall include:

a. A written policy statement committing the organization to affirmative action and assigning management responsibilities and procedures for evaluation and dissemination;

b. The identification of a person designated to handle affirmative action;

c. The establishment of non-discriminatory selection standards, objective measures to analyze recruitment, an upward mobility system, a wage and salary structure, and standards applicable to layoff, recall, discharge, demotion, and discipline;

d. The exclusion of discrimination from all collective bargaining agreements; and,

e. Performance of an internal audit of the reporting system to monitor execution and to provide for future planning. If discrimination by a contractor is found to exist, the Public Works Department shall take appropriate enforcement action which may include, but not necessarily be limited to, cancellation of the contract, removal from all offeror's lists issued by the Public Works Department until corrective action by the contractor is made and ensured, and referral to the attorney General's Office, whichever enforcement action may be deemed most appropriate.

15. AMERICANS WITH DISABILITIES ACT

In connection with the furnishing of equipment, supplies, and/or services under the contract, the contractor and all subcontractors shall comply with all applicable requirements and provision of the Americans with Disabilities Act. (ADA).

16. TITLES

Titles of paragraphs used herein are for the purpose of facilitating reference only and shall not be construed to infer a contractual construction of language.

INTRODUCTION AND GENERAL INFORMATION

1. INTRODUCTION

1.1 The City of Joplin, Missouri, is seeking proposals for the purchase of a Camera Van/truck. This bid will be a lump sum and include the Van/truck, options, equipment preparation, manufacturing and delivery of the vehicle and camera system fully capable with lateral launch capability. The city has listed items below required for this contract. It is the intent of this RFP not to be exclusive, but to be more inclusive of companies submitting their own designs, diagrams, specifications, schematics, diagrams, warranty, training and costs so that the evaluators can look at all of the submittals to make the best decision in the interest for the City of Joplin. The submittals are requested for a vehicle, camera system with vertical launch capabilities, tractor conveyance system for sewer navigation and abilities.

1.2 The city requests each of the proposals to include 5 copies for the evaluators for the bid, a schematic of the design, a diagram, repair schedule, equipment replacement if the camera is down during the warranty period, and a minimum of a three-year warranty on the camera equipment and normal warranty from the vehicle manufacture. Together with the terms and conditions to be stipulated in the general contract forms, now adopted by the City of Joplin, as advertised to be let on 29th day of September, 2017 at 10:00 a.m. at the following prices to-wit:

2. QUALIFICATIONS

2.1 To qualify as a vendor for furnishing a camera truck:

2.1.1 Materials and Workmanship: The proposer must have furnished equipment that perform sewer camera works in sewer collection systems, and has a lateral launch capability for the camera. All equipment, materials, parts and workmanship are required to be furnished, shall be of the highest grade in accordance with modern practice and/or by manufacturers' recommendations as to not void any manufacturer's warranty. The equipment supplied will be new and un-used, except for necessary testing, calibration, and transportation.

2.1.2 References: The proposer must provide three (3) references within the last two years and contact information of municipalities that the company has provided sewer camera and trucks. The equipment to be furnished will be the product of a qualified manufacturer that is regularly engaged in the manufacture and supply of the equipment. A qualified firm will be defined to mean one, which has manufactured and sold at least ten (10) or more of the specified units during the past five (5) years.

2.1.3 Warranty and Service Manuals: The Contractor must provide bumper to bumper and powertrain warranty for camera equipment for a minimum three (3) year period as part of this contract with two (2) Operator manuals and two (2) Service Manuals from the date of delivery. The manufactures and or contractor's standard warranty or guarantee on new equipment will cover all items furnished in accordance with the specification. The Service Manuals will be hard copies that describe in detail the proper operation and maintenance of the equipment furnished under the contract. Electronic copies shall be provided reflecting the material within the hard copy manuals. The manuals will contain current and complete parts for re-ordering, and the equipment actually furnished under this contract will be highlighted to identify the exact part and model numbers for each component.

2.1.4 Parts and Service: To best serve the requirements of the Owner, it is the intent of these specifications to secure equipment, which can be properly maintained and serviced without the necessity of stocking an expensive parts inventory or being subjected to long periods of interrupted service due to lack of spare parts. All Bidders submitting proposals must have available at least one (1)-factory parts and service center within the United States. These centers will be staffed with full-

time technical, as well as order and shipping personnel, during regular business hours and days. These factory centers must have toll-free telephone service and be convenient to airfreight, bus, or overnight parcel service. The Bidder will list the nearest factory part and service location, plus any other pertinent information requested, such as number of employees, hours of operation, and asset value of camera related inventory held on site

2.1.5 Electronic Equipment Loaner Policy: The Bidder will maintain rental and/or loaner electronic equipment at service center if unable to repair and have ready to return any component of the system within one (1) week of receipt from the purchaser. The service center will have available a rental or loaner component for immediate shipment. The Bidder will indicate whether a rental charge applies for this equipment and service both during and after warranty. A written policy of the rental practices shall be included with the bid. There should be a statement showing what the Offerors policy is on repairing parts and performing service, such as, "Eighty five percent of service and repair should be completed within 48 hours of the company receiving the equipment."

2.1.6 The City reserves the right to reject any RFP after review, based upon collateral evaluation, and existing market. The City reserves the right to rescind the appointment of Contractor should the relationship become unsatisfactory. This may require a majority vote of the City Council. Exceptions to the component list and specification requirements, or failure to submit requested information will be considered sufficient cause for rejection of the proposal. The specifications describe the components and /or system that are necessary to meet the performance requirement of the Owner. Alternate Bids must meet the intent of the specifications, and any deviations to the specification will be clearly communicated in written form the delineation and the specification that was delineated from. **This shall be included with the bid.**

2.1.7 Information to be furnished by Bidder: Each Bidder will furnish the information listed in the General Notice at the time the Bid is submitted. Failure to include all required information may be cause for rejection of the Bid (Proposal)

2.1.8 Pre-Contract Demonstration of the Equipment: The Owner will have the right to have each Bidder (Contractor), demonstrate the exact equipment that will be supplied within in two (2) weeks after notification following the opening of Bids. **Failure to demonstrate the exact equipment may be just cause for disqualification of the proposal.**

2.1.9 Training: The Contractor/Manufacturer will fully instruct the Owners personnel in the operation and maintenance of the equipment furnished, after delivery, at no additional cost to the Owner. The instruction period will be sufficient duration (minimum two (2) days) to fully familiarize the Owners operating personnel with all elements of the equipment, and the appropriate maintenance of the equipment and related parts. This instruction and testing will be conducted by trained personnel of the Contractor/Manufacturer and will include full instruction in equipment operation, field procedures, use of office software, and techniques of use, maintenance, troubleshooting, record keeping and logging of field information. Any follow up training that is offered three (3); six (6) and nine (9) months after the initial training conducted. Itinerary should also include: Learning Objectives; Training Plan; and Lesson Plans.

2.1.10 Payment to the Contractor: Full payment under this contract will be made by the Owner in a single, lump sum payment within thirty (30) calendar days after the successful completion of all contract requirements by the Contractor. The contract requirement will include the required furnishing, installation, and demonstration of the equipment and accessories as specified herein, including the furnishing of the required training and service manuals, and the vehicle title.

2.1.11 Time of Contract Completion: The Contractor will furnish, install, deliver, and successfully demonstrate all equipment as specified herein; provide the required training; and provide the required service manuals within one hundred and twenty (120) calendar days after issuance of Notice to Proceed.

2.1.12 Note: City reserves the right to substantially add or delete from contract.

2.1.13 In the event of the failure of the undersigned to enter into such contract within fifteen (15) days of the award, then the deposit or certified check of five percent (5%) of the total bid amount as surety is therefore forfeited to the City of Joplin

3. PROCEDURAL INSTRUCTIONS:

3.1 A detailed list of components required is included and is the basis on which the Contractors proposal is made. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all inspection systems bid will be compared. Delineations from the specifications shall be included with the bid and is the responsibility of the bidder to communicate in written form the delineation/s and the specification that it delineate/s from.

3.2 It is required that the proposal be completed in its entirety.

3.3 If a service cannot be met by a proposer, then the term "No Proposal" should be entered on the Proposal Form for that specific requirement. Equivalent alternative proposals will be considered.

3.4 Proposals must be submitted in a sealed envelope or package bearing the title "City of Joplin, Camera Truck, "2017-RFP-010" along with the proposer's name and address. The proposer shall return five (5) copies of completed proposal forms and other required information to Lynden Lawson, Assistant Director of Public Works-Operations, City of Joplin, 602 South Main Street, Joplin, MO 64801, no later than 10am on Friday, September 29th, 2017. It is the responsibility of the proposer to ensure that the proposal arrives on time at the correct location. The proposal must be valid for a period of 60 days from the date of receipt by the Assistant Director of Public Works-Operations.

3.5 All proposals and information included therein or attached thereto submitted in response to this RFP shall become public record upon proposal opening and will be available for review upon request.

3.6 The Assistant Director of Public Works-Operations office shall be the only contact for any or all aspects of this RFP. Questions should be directed to Lynden Lawson, Assistant Director of Public Works-Operations, at e-mail address: LLawson@joplinmo.org. Questions should be by email for the record after the RFP is published.

3.7 The City reserves the right to reject any or all proposals, to waive any non-material irregularities or informalities in any RFP, and to accept or reject any item or combination of items.

3.8 If the Contractor does not execute an agreement within ten (10) working days of Council passage of a resolution awarding contract, the City may give notice to the Contractor of the City's intent to select the next most qualified "proposing contractor" or call for new proposals, whichever the Assistant Director of Public Works-Operations deems appropriate.

4. SELECTION PROCESS AND EVALUATION PROCESS:

4.1 The City will grade the proposals by:

i. Cost 40%.

ii. Specifications of Camera and Lateral Launch systems 40%

iii. Warranty (to include service & parts replacements) 10%.

iv. References 5%.

v. Training 5%.

5. SPECIFICATIONS:

Van/Truck containing three (3) separate compartments that consist of: Cab compartment with driver and passenger seats. Internal workstation compartment and equipment compartment. Mounted Mainline TV Inspection System for the inspection of 6" and larger sanitary and storm sewers. To include Lateral Launch Camera System capabilities from the platform.

Vehicle, Camera System and Software Package

5.1 Pan & Tilt Zoom Camera (Color)

- Camera must have pan & tilt function with motorized controls to allow the operator to change the viewing angle from the camera controller.
- Camera should have at minimum 100x zoom comprised of a 10x optical and 4x digital zoom.
- Camera must have at minimum color standard with 4x light integration
- Camera shall have automatic focus that will focus to the pipe, also manual controller abilities.
- Camera shall have automatic iris and manual iris that adjust light sensitivity based on pipeline conditions.
- Must be a solid state color sewer TV camera.
- The camera housing must be pressurized to a minimum of 1 bar to avoid water damage to internal components/equipment. A low-pressure situation will alert the operator with an audible tone or text message on the camera controller's diagnostic display.
- Camera should have built-in LED lights to illuminate the interior of the pipeline for 6" through 60" lines.
- Camera rotation must be controllable
- Camera shall have a zero (home) position where the camera views straight ahead and the upright picture control automatically enables
- Camera housing must be cylindrical in design with long radius edges and no protruding surfaces to catch on during operations.
- All fasteners used on the camera must be recessed so that there is no protruding fasteners to catch during operations
- Camera should provide a clock position graphical overlay on screen to provide information on viewing angle.
- Camera should have a pipe size overlay to measure pipe diameter sizes.
- Camera light housing must be constructed of high strength material
- Camera lens should have protective front window
- All electronic PCBs shall be connected to one another without the need of soldering for ease of service and repair. No Scotch cast kit.
- A tool and spares kit, protective connector cap, and watertight plastic storage transport case must be provided.

5.2 Manhole top roller assembly.

5.3 Manhole adapter claw hook

5.4 At least Four 6' Retrieval/Downhole Pole Assembly or equivalent because deepest manhole is 25' deep.

5.5 Invert roller assembly

5.6 Retrieval Hook

5.7 Multi conductor TV only tool kit (equivalent)

- Milliamp meter Tool
- Electrical Tape
- Needle Nose Pliers
- Six-In-One Screwdriver
- 6" Adjustable Wrench
- Anti-Seize Grease

- 9-Piece Allen Wrench kit
- Solder Iron Kit
- Industrial Pliers
- 5/32 T-Handle Hex Wrench
- Multi Conductor TV Only Operation Manual
- Parts Catalog
- Cable Repair Kit DVD
- TV Only Training DVD

5.8 2DAYS TRAINING, ON-SITE

- Please provide itinerary of training with RFP
- Refer to section 2.1.9

5.9 Rear-Viewing Camera (Color)

- Camera should have the ability to be installed to provide a rear view, from the camera tractor, allowing monitoring of the cable during retrieval.
- Camera shall be constructed to install quickly in-between the mainline camera cable and the rear connector of the camera tractor.
- Camera body shall be made without sharp edges to prevent catching on debris and pipeline features.
- Camera body should be coated to prevent corrosion.
- Camera body shall be manufactured out of non-corrosive materials such as stainless steel and aluminum.
- The system shall have the ability to automatically switch the displayed video to the rear view when the system moves backward.

5.10 Lateral Launch Camera

- Ability to access residential and commercial lateral sewer lines
- Pan, Tilt and Zoom Camera (Color) (Lateral Camera)
- Camera must have pan, tilt and zoom function with motorized controls to allow the operator to change the viewing angle and camera zoom from the camera controller.
- Push rod for lateral inspection operation including both lateral launch and hand push reel
- Camera shall have at least a digital 3x zoom for looking up into laterals and focusing on distant objects within the pipeline.
- Camera shall have automatic iris that adjusts with light sensitivity.
- The camera housing must be pressurized to a minimum of 1 bar to avoid moisture.
- A low-pressure situation will alert the operator with an audible tone or text message on the camera display.
- Camera shall have built-in LED lights to illuminate the interior of the pipeline.
- Camera must have an integrated single laser that allows for measurement with use 3rd party software.
- All fasteners used on the camera must be recessed so that no protruding fasteners to catch during operations.
- Camera should display viewing direction on screen while operating.
- Camera lens should have a protective front window
- A tool and spares kit, and storage transport case must be provided.

Lateral Launch Attachment (or equivalent)

- Lateral launch attachment shall attach to the mainline crawler chassis for operation in lateral launch applications.

- The launching positioner shall have rotation and tilt controlled via a joystick on the Remote Control Station.
- The lateral launch system and positioner housing must be pressurized to a minimum of 1 bar to avoid water damage. A low-pressure situation will alert the operator with an audible tone or text message on the camera controller's diagnostic display.

- The launching drive mechanism must have an integrated distance measuring device to measure the paid out push rod into each lateral. The distance must be able to be displayed on screen and through the serial port for software integration.
- All fasteners must be manufactured from a non-corrosive material such as stainless steel or aluminum.
- A tool and spares kit must be provided for maintenance of the tractor.

5.11 Robotic Tractor (Medium)

- Tractor must be able to operate in a minimum 6" diameter pipeline with enough clearance to negotiate offsets and debris.
- Tractor should be designed utilizing wheels / tires as it's mode of propulsion. Traks may be added to bid, but should not replace wheel configuration,
- Tractor must have continuously adjustable speed with speed set.
- The base module must be removable through utilization of a recessed connector.
- Tractor must have the ability to remove the base module and have the ability to add a lateral launching module to convert the tractor to a fully operational lateral launch robot.
- Tractor must have anti tilt compensation that will automatically steer the tractor so that it does not ride up on the pipe wall and capsize.
- Tractor body must be manufactured non-corrosive materials such as brass, stainless steel, or aluminum to resist tarnishing and facilitate cleaning.
- All fasteners used on the tractor must be recessed so that no protruding fasteners catch during operations
- The tractor may be outfitted with an inclinometer module to monitor and log the pitch and roll of the tractor in the pipeline.
- A tool and spares kit must be provided for maintenance of the tractor.

5.12 Power Supply / Controller (or equivalent)

- Power supply controller shall be rack mount design with remote control station and keyboard handling camera power and controls, tractor power and controls, text generation, diagnostics, and cable winch controls. Camera systems that require more than one mounted component may be deemed unacceptable.
- Remote Control Station must have a minimum 6" diagonal, full-color adaptive touch screen for selecting options and controlling system functions.
- Remote Control Station shall allow for adjustment of brightness / intensity of both auxiliary light rings and camera lights, as well as be able to switch off individual light banks on the auxiliary lighthead.
- Power supply controller must have a graphic-oriented display generator to allow the operator to type on-screen text, display distance counter, camera inclination, and display date and time.
- On-screen text must have a minimum of 16 lines of text with a minimum of 53 characters per line.
- The controller must be able to delete all text from the screen with the press of a single key.
- The power supply controller shall allow for a minimum of 10 color variations of overlay text to contrast on different backgrounds.
- The on-screen text generator must have a header field that will continuously display text at the desired location.
- The power supply controller shall allow the user to position each system field anywhere on the visible screen to prevent obstruction of view.
- The power supply controller must automatically identify which camera, tractor, and cable winch is connected to the system.
- The power supply controller must have a minimum of 1 composite video output, 1 S-Video output, and 1 composite video input.
- The power supply controller shall be able to operate push cameras, small and large tractors, and lateral launch systems should an upgrade be desired in the future.
- Camera pan & tilt operations, auto-home, iris, and focus must be operated from a multi-axis, multi-function joystick to be mounted in the desktop area. Camera rotation must be controlled by side-to-side movement of the joystick, tilting by up and down movement of the joystick and focus. Joystick functions should automatically change based on power supply controller's recognition of the attached tractor or camera.

- Remote Control Station must allow the operator the ability to electronically and remotely switch off and on the upright picture control of the camera head.
- When used with corresponding equipment, the power Remote Control Station must allow the operator the ability to electronically and remotely switch off and on the laser diodes, auto-focus, and control the zoom of the camera head.
- The Remote Control Station must allow the operator the ability to electronically and remotely switch off and on the automatic tilt compensation of the tractor.
- Remote Control Station must have an emergency stop button to remove all power to the downhole equipment.
- Power supply controller shall weigh no more than 10 lbs. for ease of installation and shipping.
- On-screen text entry and menu navigation shall be done on a standard QWERTY PS2/AT keyboard.
- The power supply controller shall have a master power switch.
- Power supply controller must have on-board help menus to aid in new user operation.
- The power supply controller should have a function to calibrate the tractor mounted inclination meter and have the ability to calibrate within a minimum of +/- 5%.
- On board AC power system dynamic inverter 3KW including on board power source rated for 3000 Watts of total power output.

5.13 Powered Cable Winch (1000 ft.) (or equivalent)

- It is preferred that the cable winch shall be stationary mounted and hold 1000 linear feet of camera cable.
- The cable winch must have an automatic level wind guide.
- The cable winch must have an electromagnetic clutch to engage and disengage the cable winch.
- The cable winch's clutch must be electronically switchable on and off using a push button switch with a LED status indicator light.
- There shall be a digital footage reader cable distance-measuring device built into the boom and integrated pulley.
- Cable winch must have an integrated traction-regulating device that ensures optimum performance of the tractor in all operating conditions. This system assists in paying out cable dependent on tractor speed.
- Cable winch must have an integrated lowering winch to lift, lower, and position the tractor from the truck into the manholes and structures.
- The cable winch's integrated lowering winch should be capable of lifting a minimum of 175 lbs.
- The cable winch should be equipped with an emergency brake that will lock the reel if power is lost.
- Emergency brake must be equipped with a manual over-ride and hand crank.
- Cable winch must have an emergency stop button to remove all power to the downhole equipment.
- Cable winch must have a foldable boom that will lock into position at various angles.
- The cable winch's foldable boom must be able to support a minimum of 175 lbs.
- Cable winch shall be constructed of light, high-strength powder coated aluminum

5.14 Pressure Test Kit

- A pressure test kit must be supplied to pressurize the camera and tractor components.
- The pressure test set must provide clean dehumidified air to the components.
- The pressure test set must have quick connect adapters to accommodate each component.
- The pressure test kit must have an air gauge and air relief valve set to 1 bar to prevent over pressurization.

5.15 Work Accessories

- System must include a cable deflection pulley to aid in cable entry into pipeline.
- Tractors must include a lowering hook with quick disconnect and have ease of operation during retrieval. Hook shall also have the ability to latch and lock onto steel reinforced latched fiberglass poles.
- A quantity of four 6 foot sectioned steel reinforced fiberglass poles with locking latches giving the ability to be connected together to obtain an approximate 24 foot long pole. Poles equivalent to product sold by Environmental products & Accessories.

5.16 Vehicle: 2018 Ford Transit or Sprinter Cargo Van 2500 High Roof (accessories or equivalent)

- Vehicle shall be supplied by the awarded bidder

- Specifications: Vehicle shall include listed specifications and where delineated it shall be clearly listed and submitted with the Bid.
- Exterior Paint: White
- Interior Upholstery: Gray Leather or Pleather
- Workspace Access Package: Step for Rear Wall Door, Assist Handles-Rear Door, Assist Handle-Left Rear Door, Assist Handle-Sliding Door, Light-Motion Sensor Load Compartment, Light-Load Compartment, Relay-Aux Battery Disconnect, Aux Battery-100AMP, 12V socket in luggage/cargo compartment.
- Standard, Options, and Accessory Features
- Audio 15 (Standard)
- Back Up Camera
- Battery - AGM 12 V/95 Ah deep cycle
- Body Work SCR
- Cargo Partition - none
- Deluxe rear springs for 8550 lbs. weight version
- High Idle - Preset
- I/P Hinged Lid-Center Stack Bin
- Insulation - Rear
- Keys - Two Additional Masters
- Parametric Special Module
- Rear Spring Vibration Absorbers
- Removal of Rear Door Badging
- Removal of Side Door Badging
- Seat - Front Passenger, Adjustable
- Side Wall Paneling - durable honeycomb plastic
- Sliding Door - Right side
- Storage Slot at Front U/ Roof liner
- Suspension with Heavy Duty Front & Rear Stabilizer
- Window Glass - Tinted
- Wood Floor Delete
- Stabilizer Bar-Rear
- Stabilizer Bar - Reinforced Front
- Auxiliary Electrical Connector inside driver's seat base
- Transmission - 5 Speed w/Auto stick
- Speedometer in mph and km/h
- Exhaust Routed out the side of vehicle near rear on driver side
- Fuel Tank - 25 Gallon
- Auxiliary Fuel Sending Unit
- Fuel filter with water separator
- No Parking Lamps
- Mud Flaps - Front
- Mud Flaps - Rear
- Rear Tow Hook
- Front Tow Hook
- Tire Carrier - Spare, Underslung
- Wheel - Spare Steel
- Tire Pressure Monitor Lamp
- Sliding Door Ext. Track
- Rear Doors 270 Degree Opening
- Electronic Stability Program (ESP®) - Adaptive
- Mirror - Rear view Day/Night
- Warning System-Driver Seat Belt
- Lamp - 3rd brake light
- Driver Air Bag
- Air Bag - Front Passenger
- English Literature
- VIN# Visible from Outside
- Vehicle Registration

- Tires - All Season
- Wheel steel 6.5 J x 16
- Hydraulic Jack
- Hill-Start Assist
- Alternator 220 A
- Engine - 3.0 Turbo Diesel BlueTech
- GVWR of 8,550 lbs.
- Steering Wheel Tilt/Tell
- Radio Speakers 5 Front
- Shelf Above Windshield
- Remote FOB 315MHZ
- Heater - Auxiliary Air, Electric
- Air conditioning – Automatic 9200 BTU Roof mounted or equivalent
- Temperature Gauge
- Seat Armrest - Driver Seat
- Seat Armrest - Passenger Seat
- Electronic Stability Program (ESP9i)
- Rear springs for 8550 lbs. weight version
- Higher-capacity shock absorbers
- Suspension w/Front & Rear Stabilizer
- Daytime driving lights
- Emissions EPA 13/CARB
- VIN Encoded vehicle data with check digit
- MODEL YEAR 2018
- Model Generation 1
- Vehicle dismantle/re-assembly
- Battery Disconnect
- Parametric Special Module (PSM) Prep
- Battery 12 V/100 Ah
- Jump Start Terminal
- Ash Tray/Cup Holder
- On board inverter
- At least a 16 gallon wash down tank
- Generator on vehicle to run tools
- Carbon Monoxide Detector mounted in interior of unit

5.17 Vehicle Build-Overall

- Vehicle shall be supplied by the awarded bidder
- Aluminum structural flooring shall be used throughout. Flooring shall have black anti-slip/wear resistant sprayed on liner, and if not a Rhino liner, a liner with equal warranty is to be installed/applied.
- Auxiliary battery shall be on the circuit that powers the office and work area equipment. An additional auxiliary battery may be needed, check against vehicle specifications and operational needs. If needed, auxiliary battery must be mounted/secured.
- An inverter shall be mounted/secured in an area out of work traffic. Equivalent inverters of specification and warranty would be considered.
- Exterior shore power plug/receptacle, 30 Amp with 30 foot extension cord and 15 amp converter
- Automatic shore power/inverter switch
- All areas where electrical/communication cables pass through another material shall have grommets. Cables must be neatly ran and installed in locations to not prematurely reduce the life cycle of the cables.
- Two Directional LED arrow boards with minimum 22 watt strobe lights mounted on roof at the rear and front of the vehicle. Directional LED arrow board/strobe switch/controls needs to be easily accessible for driver operation or equivalent for operational safety.
- Fuse/breaker box secured and mounted for easy accessibility and maintenance.
- Communication/video cable/s and power cable/s shall be in separate wiring harnesses and/or conduits where applicable so to not cause signal distortion.

- No partition between cab and office area.
- A Partition shall be constructed between the Work and Office areas and structurally sound to support overhead enclosed shelving. It shall be of a material that is water resistant, durable, and is easily cleaned. A viewing window should be installed within partition to optimize viewing for the operator in the seated office area operating position to the reel. There shall be no obstructions, in this circumstance, for operator to view reel from office area, such as additional work area equipment, computer monitors, or shelving.
- An additional 4 overhead lights shall be installed, 2 in the work area and 2 in the office area, all on the same circuit. Two switches shall control this circuit. One easily assessable when in back of vehicle, switch located within vehicle, when operator is on the ground and the other switch easily located when in office space area. Lights shall be installed for optimal lighting conditions accompanying standard vehicle cargo lights. Switches shall be labeled "Cargo Lights".
- Maintenance space enough to allow maintenance to the back side of the equipment. A light shall be installed within the area of housed electronic equipment as to automatically illuminate the inside of the housing when conducting maintenance.
- An area shall be dedicated where operators can easily access and securely store six to eight 28 inch traffic cones, where the safety of the operator through the whole operation is a priority.

5.18 Vehicle Build-Office Area (or equivalent)

- Office part of vehicle shall have a desk installed. Diagrams should show length and width of desk. Two (2) drawers for the Desk shall be preferred. This cabinet drawer shall have ball bearing slides.
- Cabinets or Shelving is also preferred in office area.
- Mount shall be installed to accommodate monitor for computer security.
- Laminate hard surface counter tops. Must have grommet holes to accommodate for cables of electronic equipment.
- Space between overhead cabinets and desk shelving space shall be designed to accommodate two flat panel, monitors.
- 2 or 3 laminated overhead cabinets with sliding plexi-glass (or similar) doors shall be installed above desk, spanning the width of the desk.
- Laminated areas shall be dark gray in color. Other interior walls and surfaces shall be a light gray in color.
- Three (3) additional, not counting outlets for general operational needs, 110VAC GFI outlets shall be installed in easy accessible places within office area.
- DVD recorder system to include:
- Rack mount for DVD, DVD player/recorder
- Cable assembly
- DVD power control unit and handheld microphone
- Flat screen color industrial TV monitor with no glare.
- Alpha Numeric Information Display, with Multi Paging and Defect Coding
- Remote Keyboard for Data Entry
- On Screen Footage Display

5.19 Vehicle Build-Work Area (or equivalent)

- The powered cable winch shall be installed on the driver's side above a 2 to 3 rack mount type sliding drawers. Drawers must lock and latch. The slides must be ball bearing. Tool box drawers must be a size and depth where one can accommodate two tractors, camera head, and specified wheel sets stated within bid.
- Two (2) additional, not counting outlets for general operational needs, 110VAC GFI outlets shall be installed in easy accessible places within work area and when operators are at the rear of the vehicle and on the ground.
- An area shall be dedicated where operators can easily access, when on ground, and securely store three 5 foot long fiberglass poles, where the safety of the operator through the whole operation is a priority. "Whole operation" as defined by pulling up to the jobsite and to the leaving of the jobsite.
- Two additional LED flood lights (Min. 1000 lumens each) with articulation and an independent switch shall be installed internally at the back of cargo area with easy manipulation of LED flood light articulation when operators are on the ground. Switch shall be visibly labeled and legible as "Flood Light".
- A 20 gallon fresh water tank with electric pump with a switch and tank monitor shall be installed where it can easily be filled. Tank will be plumbed to a spring retractable reel with 3/8 inch to ½ inch diameter hose. Hose length shall be 25 feet to 50 feet. The operation switch shall be of a timed type and will be located where the operator can easily access switch when at the rear of the vehicle and on the ground. Switch shall be visibly labeled and legible as "Tank". Spring retractable reel similar to a Reelcraft and equivalent in warranty.

- A 4 to 5 drawer commercial/industrial (heavy-duty) toolbox with locking and latching drawers and ball bearing slides shall be installed. Toolbox shall be removable, carry a commercial/industrial warranty, and drawers and contents shall be easily accessible when operators are outside on the ground. Toolbox shall have a minimum 500 pound weight capacity.
- FRP covered walls and ceiling in work area and be white in color
- Two tracks of channelized mounting hardware (similar to Unistrut) to be installed from partition to back of vehicle. Tracks shall be a minimum of 2 feet apart and parallel.
- TV reel assembly to include:
- Black Thermoplastic Powder Coated Frame
- Mechanical footage for summit .450 cable
- Power Level wind & Multi Ratio Manual Transmission
- Footage Meter with Local Counter and Remote Electronic Counter
- Transmission Control at Viewing Station
- Local Reel Mount Electrical and Mechanical Control
- Sealed Continuous Contact Collector Assembly
- Removable Drip Pan for Cleaning
- One Drawer Storage under the Reel
- Wheel and Track Kit for Applicable Camera System
- At least a 16 Gallon Wash Down
- Retractable Hose Reel for Wash Down 50'
- Five Drawer Tool Box
- TruVue System
- Steel Wheel Kit for PR & SPR Wheeled Transporter 10" to 15" PVC Application
- Interior Mounted Crane
- 24" Rear Monitor

5.20 Software (or equivalent)

- ITpipes of Infrastructure Technologies, LLC shall be used as the video capturing, inspection, and evaluation software. This software shall furnish the City's mobile and office needs. The software system shall include one mainline core license, one SQL core license, on-site services, consultation services and the associated needed modules, listed below:

A. Sync module/s
B. Analysis module/s
C. GIS select module/s including GIS Plot
D. GIS receive module/s
E. Digital capture module including video capture card kit
F. Overlay module including overlay capture card kit

5.21 Software (Alternates)

- An alternate shall be given for a three (3) user office package rather than a single user. The alternate price shall reflect everything listed in the core software package above plus the change of the addition of two users in the office, and the base bid.
- Another alternate shall be given for GIS viewIT. This price shall include only the price of GIS viewIT.

5.22 Computer Hardware-Computer Rack Mount Requirements (or Contractor's system)

- Monitor with Two, minimum 20 inch, monitors shall be installed in office area and one, minimum 15 inch, monitor shall be installed in work area. Monitor installed in work area shall be easily viewed from the rear of the vehicle, show live camera head feed, and be securely installed not to cause damage in operation and transport.
- Windows
- Processor: Athlon II x4 (or equivalent) 3.0 GHz Processor
- Memory: 8 Gigabytes of DDR3 memory
- VGA: VisionTek 900273 Radeon HD 4350 512MB 64-bit DDR2 PCI Express 2.0 x16 HDCP Ready CrossFireX Support Low Profile Ready Video Card
- HDD: Two 2TB HDD 7200 RPM hard drives for a total of 4TB
- CDRW/DVDRW Drive

- Video Capture: Hauppauge WinTV HVR-1250 Hybrid TV Tuner w/ Video Recorder PCI-E x 1
- Overlay Control: US Digital Card, PCI-4E PCI Interface Card
- Wireless N+ PCI card installed with remote antennae to enable ability to upload date on the City's network.
- An active RJ-45 connection for network connection
- Motherboard with electrostatic protection, high temperature protection, and power failure protection
- USB Ports: Minimum 4 USB internal 2.0 ports are required

5.23 Computer Hardware-Laptop (or Contractor's system)

- Monitor with wide-screen display, minimum resolution 1280 x 720, minimum 15" display
- Windows 7 32/64 bit
- Processor: Intel Core I5-3320M
- Memory: 8 Gigabytes of DDR3 memory
- Video: Nvidia NVS 5200M Graphics card
- Drives: Minimum 500 GB SSD hard drive
- CDRW/DVDRW Drive
- USB Ports: Minimum 4 USB internal 2.0 ports are required
- Video Capture: KWorld Xpert DVD Maker USB 2.0 Video Capture Device
- Overlay Control: US Digital Card, USB4 Encoder Data Acquisition USB Device
- Wireless N+ PCI card installed with remote antennae to enable upload of data
- An active RJ-45 connection for network connection
- Preferred: motherboard with electrostatic protection, high temperature protection, and power failure protection
- 2 year warranty

5.24 Two (2) Days on-site training

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Proposal

Every specification noted in RFP 2017-RFP-010 is either met and/or exceeds the required specifications requested by the City of Joplin. The following items will show where IBAK equipment exceeds the specifications.

1. Camera should have at minimum of 100x zoom comprised of a 10x optical and 4x digital zoom. (5.1, bullet 2) Our proposed mainline sewer camera, the Orpheus 2.0, has a 10x optical zoom and a 12x digital zoom giving the camera a 120:1 total zoom.
2. Camera should have built-in LED lights to illuminate the interior of the pipeline for 6" through 60" lines. (5.1, bullet 8) Our proposed mainline sewer camera, the Orpheus 2.0, has built in 10+2 high power LEDs, (2x for illuminating joint gaps) switchable, controllable, temperature controlled light groups capable of illuminating 6" through 120" pipelines.
3. Camera lens should have protective front window. (5.1, bullet) Our proposed mainline sewer camera, the Orpheus 2.0, has a protective lens, constructed of a high strength glass with a documented shock resistance of 1kg, or height of fall from 15.75". This lens is recessed to further prevent scratches from intrusions and lens contact with manhole walls.
4. This proposal includes multiple wheel sets of solid treaded rubber, tungsten carbide, and two sets of pneumatic wheels for the very large diameter pipe.

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REFERENCES

1) Mr. Oliver Sheley, Supervisor
   City of Independence, MO
   Email: osheley@indepmo.org
   Phone: (816) 325-6919

2) Mr. Jay Godt, Manager of Pre-Treatment & Sewer Lines
   City of Belleville, IL
   Email: jgodt@belleville.net
   Phone: (618) 779-6240

3) Mr. Eric Mork, Superintendent of Sanitary Collections
   City of Lebanon, MO
   Email: ejmork@lebanonmo.org
   Phone: (417) 531-0224

RapidView Warranty

Description of warranty rights
From the date of delivery through the applicable warranty period, RapidView, LLC will, at its option, repair or replace free of charge any warranted item, which is proven to RapidView, LLC's reasonable satisfaction to be defective. All warranty inspections and warranty repairs must be performed by approved RapidView, LLC Authorized Service Centers. For the name of the Service Center nearest you, please call or write to:

RapidView, LLC, 1828 W. Olson Rd. Rochester, IN 46975, 574-224-5426

IBAK Video Inspection equipment warranty period is 1 year. Other manufacturer's warranties apply on items not manufactured by IBAK or RapidView, LLC.

Conditions to warranty service
For this warranty to become effective, the following requirements must be met:
1. Any postage, insurance and shipping charges of warranted items to a RapidView, LLC Authorized Service Center must be prepaid by the purchaser, and these costs are not included under this warranty.
2. The purchaser must be able to provide proof of the original purchase from RapidView, LLC or one of its accredited sales distributors or agents if requested.

Exclusions from the warranty
This warranty does not apply to any loss or damages resulting from: (i) normal wear and tear; (ii) alteration, misuse, abuse, or improper installation, operation or maintenance by purchaser or any third party; (iii) accident, fire, flood, or Acts of God; or (iv) inaccurate or incomplete information or data supplied or approved by purchaser. By way of example, without limitation, the warranty does not cover the specific conditions described below:

1. Equipment which has been damaged due to:
* Connection to incorrect line voltages.
* Use of incorrect fuses.
* Use in contravention of operating instructions.
* Improper or unauthorized repairs.

2. Damage to warranted items sustained in shipment to purchaser.
3. Equipment that has had any of its identification, instructional or "sealing" labels removed or tampered with.
4. Any unit that has had its serial number altered, defaced or removed.

RapidView, LLC will not be responsible for any changes, modifications or repairs, either in cost or consequence, made by personnel not authorized by RapidView, LLC.

RapidView, LLC will not be responsible for the loss of or damage to equipment while in the possession of any authorized or unauthorized service agency.

RapidView, LLC reserves the right to make changes in design and improvements upon its products without assuming any obligation to install such changes upon any of its products previously manufactured.

Loaner Policy
RapidView, LLC will, at its option, provide loaner equipment when available for equipment within the warranty period. All loaner equipment will be shipped on the customer's account, billed to the customer. Loaner equipment will be invoiced at the time of shipment. This invoice will be credited in full upon return of the equipment in good working condition. RapidView, LLC makes no guarantee of loaner equipment availability.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, RAPIDVIEW IBAK USA MAKES NO WARRANTY OF ANY KIND WHATSOEVER, AND RAPIDVIEW IBAK USA EXPRESSLY DISCLAIMS ANY WARRANTIES IMPLIED BY LAW, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

RAPIDVIEW IBAK USA'S LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE EQUIPMENT. IN NO EVENT SHALL RAPIDVIEW IBAK USA BE LIABLE UNDER ANY THEORY OF RELIEF, INCLUDING, WITHOUT LIMITATION, BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR OTHERWISE, ARISING OUT OF OR RELATED TO THE EQUIPMENT FOR INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, DAMAGE TO PROPERTY, LOSS OF USE, OR THE COST OF PROCUREMENT OF SUBSTITUTE GOODS.

SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES OR THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES, SO (IF REQUIRED BY LAW) CERTAIN OF THE LIMITATIONS OR EXCLUSIONS MENTIONED ABOVE MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

RapidView, LLC
1828 W. Olson Rd
Rochester, Indiana

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Parts and Service

1. Midwest Vac Products in Mascoutah Illinois, has 2 full-time IBAK technicians.

2. Rapidview, located in Rochester Indiana offers:

    a. 5 full-time service technicians
    b. Free technical classes for Rapidview IBAK owners.
    c. Over $4,000,000 of spare parts available for next day shipment.
    d. Service and repair from trained technicians with over 85% of repairs being completed in 24 hours.
    e. 10-year parts guarantee.

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Loaner/Rental Policy

Midwest Vac Products has a loaner policy as well as Rapidview IBAK. Midwest Vac Products will support the City of Joplin with loaner equipment in the event of warranty work. Midwest Vac Products will also support with loaner equipment for repairs needed outside of the warranty period at no charge for rental.

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Training itinerary

Included in this proposal is two full days of training. Training can commence the day of delivery or at any date after at the choosing of the customer. Training will include:

1. Safety and handling instructions.
    a. General safety instructions of operations
2. Basic rules of operation.
3. Product information and technical data
    a. BE 3.5 Control Panel
    b. KW 305 Cable Winch
    c. Camera Tractor T 76
    d. Pan and Tilt Camera
    e. LISY Lateral Launch System
    f. Pressure Test Set
4. Control and Operations
    a. Proper Camera Connection
    b. Proper LISY Connection
    c. Proper Tractor Connection
    d. Operating the inspection vehicle and power supply.
    e. Tractor Control
    f. Later Launch Control
    g. Camera Control
    h. Inserting equipment into manhole
    i. Proper Cable protection