

**STATE OF MINNESOTA
EQUIPMENT SPECIFICATION**

SPECIFICATION: S986-512

May, 2012
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Sewer/Pipeline Inspection Equipment

Introduction

This specification contains 5 different sections for items that would be used to conduct sewer and pipeline inspection to assess condition, detect flaws and/or obstructions. They are crawler inspection camera system, jetter inspection camera, push camera inspection system, pole mount inspection system and inspection vehicle field office up-fit packages.

There are separate pricing pages for each of these items. The State reserves the right to issue multiple awards to more than one responder.

1.0 Crawler Inspection Camera System

- 1.1 Unit shall be self-propelled and operate in pipes 4 inches in diameter or larger.
- 1.2 Tractor, camera system and connections shall be waterproof and corrosion resistant.
- 1.3 Operating system cable shall Kevlar reinforced.
- 1.4 Unit shall have a white LED light system for illumination.
- 1.5 Each unit shall be supplied with one set of parts, service, and operations manuals as well as a complete wiring diagram.
- 1.6 Unit shall be complete with everything needed to operate the unit included in base unit price.
- 1.7 Manufacturer's standard color is acceptable, but paint must lead free.
- 1.8 Responder to ensure equipment meets all current Federal and Minnesota safety codes.
- 1.9 The Contract Vendor shall give adequate training in mounting and removal, operation, safety and maintenance of supplied equipment at delivery site, before the purchase will be considered complete.
- 1.10 The responder shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.

2.0 Jetter Inspection Camera System

- 2.1 Unit shall use jet hose for propulsion in 6 inch diameter pipe or larger.
- 2.2 System shall have the ability to be retrofitted to an existing or new jetter truck.
- 2.3 Unit camera lens shall be color and self leveling.
- 2.4 Jetter camera system and connections shall be waterproof and corrosion resistant.
- 2.5 Each unit shall be supplied with one set of parts, service, and operations manuals as well as a complete wiring diagram.
- 2.6 Unit shall be complete with everything needed to operate the unit included in base unit price.
- 2.7 Manufacturer's standard color is acceptable, but paint must lead free.
- 2.8 Responder to ensure equipment meets all current Federal and Minnesota safety codes.
- 2.9 The Contract Vendor shall give adequate training in mounting and removal, operation, safety and maintenance of supplied equipment at delivery site, before the purchase will be considered complete.

- 2.10 The responder shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.

Sewer/Pipeline Inspection Equipment cont.

3.0 Push Camera Inspection System

- 3.1 Unit shall be push type camera and operate in pipes from 1 inch diameter or larger.
- 3.2 Camera system and connections shall be waterproof and corrosion resistant.
- 3.3 Unit shall have a white LED light system for illumination.
- 3.4 Camera shall have a sapphire glass window and be self leveling.
- 3.5 Each unit shall be supplied with one set of parts, service, and operations manuals as well as a complete wiring diagram.
- 3.6 Unit shall be complete with everything needed to operate the unit included in base unit price.
- 3.7 Manufacturer's standard color is acceptable, but paint must lead free.
- 3.8 Responder to ensure equipment meets all current Federal and Minnesota safety codes.
- 3.9 The Contract Vendor shall give adequate training in mounting and removal, operation, safety and maintenance of supplied equipment at delivery site, before the purchase will be considered complete.
- 3.19 The responder shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.

4.0 Pole Mounted Camera Inspection System

- 4.1 Unit shall be a pole mounted camera which can be lowered into a vertical pipe.
- 4.2 Unit shall have a calibration system for accuracy.
- 4.3 Each unit shall be supplied with one set of parts, service, and operations manuals as well as a complete wiring diagram.
- 4.4 Unit shall be complete with everything needed to operate the unit included in base unit price.
- 4.5 Manufacturer's standard color is acceptable, but paint must lead free.
- 4.6 Responder to ensure equipment meets all current Federal and Minnesota safety codes.
- 4.7 The Contract Vendor shall give adequate training in mounting and removal, operation, safety and maintenance of supplied equipment at delivery site, before the purchase will be considered complete.
- 4.8 The responder shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.

Sewer/Pipeline Inspection Equipment cont.**5.0 Inspection Vehicle Field Office Up-fit Packages**

- 5.1 This unit is a mobile office to house sewer/pipeline inspection equipment that can be install in but not limited to a trailer, cargo van or van body. Responders offering trailer type field office packages may offer the trailer as part of the package. This shall be clearly indicated on the pricing page with the size and GVWR listed. Other vehicle types shall be supplied by the ordering State agency or CPV member.
- 5.2 Field office unit(s) shall be designed to accommodate sewer/pipeline inspection systems, equipment, operator console and be fully self-contained.
- 5.3 Unit shall be equipped with a generator not limited to, but no less than 2,000 watt.
- 5.4 The unit shall be equipped with interior and exterior lighting.
- 5.5 If applicable, installation of field office package and accessories shall be listed as a separate item on the pricing page. Installation shall include labor, shop supplies and needed hardware to accomplish complete installation.
- 5.6 Contract vendor to ensure equipment meets all current Federal and Minnesota safety codes.
- 5.7 The Contract Vendor shall supply Manufactures Statement of Origin (MSO) at the time of trailer delivery.
- 5.8 The contract vendor shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.
- 5.9 The responder shall furnish a standard manufacturer's warranty. The contract vendor shall be responsible for the cost of any inspections, adjustments, parts, labor, travel, pickup and/or delivery charges that are a result of equipment failure(s) during the warranty period. This shall be performed without any delay. This warranty shall commence when the unit is put into service. The responder shall state warranty for all items requested on the pricing page.

6.0 Responder Instructions

- 6.1 The Responder should make a pricing page for each model of Inspection Camera unit they are offering. Do not put two or more models on one pricing page. Be complete especially when offering options, if you do not list an option you cannot legally sell it on the contract.
- 6.2 An electronic pricing page is included. Responders must follow the format of pricing page including order of offering options so there is consistency for purchasers to compare Inspection Cameras and options when determining what they want to buy. This includes the base unit product information requested. Deviating from the structure and order of the pages is reason for rejecting a bid. State of Minnesota will convert the contracted vendors pricing page to a contract pricing page for communication to State agencies and Cooperative Purchasing Venture members.
- 6.3 For optional items in lieu of standard items such as a cable reel, camera, generator, etc., price shall be the difference paid to achieve the upgrade rather than full purchase price.
- 6.4 Delivery costs are to be for loaded miles only. The Responder must state starting location. Mileage distances will be determined from the website <http://maps.yahoo.com>.
- 6.5 The Responder must state company name, address, contact, phone number, fax number and toll free number if they have one at top of pricing page for each model submitted.