



City of Cartersville

G A S D E P A R T M E N T

May 16, 2022

Potential Bidder

RE: Request For Bid Proposal
Horizontal Directional Drilling (HDD) Machine
Horizontal Directional Drilling (HDD) Machine Transport System
Electronic Tracking System
Drill Fluid Mixing and Transport System
Vacuum Excavation System

Dear Recipient:

Sealed bid proposals will be received by the City of Cartersville Gas System in the Gas System offices located at 155 Old Mill Road, Cartersville, Georgia 30120 until:

WEDNESDAY, MAY 25, 2022 AT 12:00 NOON, LOCAL TIME

for the purchase of a Horizontal Directional Drilling (HDD) machine, Horizontal Directional Drilling (HDD) machine transport system, electronic tracking system, drill fluid mixing and transport system and vacuum excavation system meeting the following requirements and specifications at which time and place the proposal will be publicly opened and read aloud.

It is the intent of the following requirements and specifications to describe the machine and systems in sufficient detail to receive sealed bid proposals for comparable machines and systems. All parts, pieces, components and assemblies not specifically mentioned that are necessary to provide a complete operational Horizontal Directional Drilling (HDD) machine, Horizontal Directional Drilling (HDD) machine transport system, electronic tracking system, drill fluid mixing and storage system and vacuum excavation system shall be included in the bid proposal and shall conform to the workmanship, strength and quality of material that would usually be provided to the trade of Horizontal Directional Drilling (HDD) and vacuum excavating.

All machines and systems not conforming to the following requirements and specifications will be rejected and it shall be the sole responsibility of the manufacturer to conform to the requirements and specifications unless deviations have been formally cited in writing by the bidder and acceptance has been made in writing by the City on the basis of such exceptions.

General:

- The machine, systems and all appurtenances must be current year model, under standard production by the manufacturer and shall be equipped with all features and equipment identified as standard in the latest product literature.
- The machine, systems and all appurtenances must be new and unused and shall be manufactured in the United States.



"Providing dependable service while preserving an exceptional quality of life."

P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
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- The machine, systems and all appurtenances must be delivered to the Gas System Offices located at 155 Old Mill Road, Cartersville, Georgia 30120 and shall be unpackaged, assembled, setup, operational and ready for use.
- Bidder agrees that their bid proposal shall be good and may not be withdrawn for a period of 120 calendar days after the scheduled closing time for receiving bid proposals.
- One bid proposal will awarded for the purchase of the Horizontal Directional Drilling (HDD) machine, Horizontal Directional Drilling (HDD) machine transport system, electronic tracking system, drill fluid mixing and transport system and vacuum excavation system. The machine, systems and all appurtenances will NOT be awarded individually.
- The manufacturer of the machine, systems and all appurtenances must have factory support including parts and labor within Atlanta, Georgia's core five-county metro area which includes Clayton, Cobb, DeKalb, Fulton and Gwinnett counties.

Horizontal Directional Drilling (HDD) Machine:

- Engine must be diesel powered with a minimum gross horsepower of 100.
 - Engine must meet the latest EPA Tier 4 Final Emission standards and certification requirements for the engine's horsepower class.
 - Engine fuel tank capacity shall be a minimum of 30 gallons.
 - DEF (Diesel Exhaust Fluid) tank shall be a minimum of 5 gallons.
- Machine must be equipped with two (2) speed gear box.
- Minimum spindle torque shall be 3,000 ft-lbs.
- Minimum actual pullback and thrust shall be 24,000 lbs.
- Carriage thrust and pullback speed shall be a minimum of 200 fpm.
- Thrust drive must be a rack and pinion system.
- Machine must be equipped with automatic drill function allowing operator to set rotation and thrust/pullback pressure while drilling.
- Machine must have an operator station with all primary drilling functions, controls, gauges and indicators within easy reach and site of the operator.
- Machine must be equipped with an electric strike alert system.
- Machine must be track drive.

- Tracks shall be constructed of rubber.
- Drilling fluid pump must be mounted to the machine.
 - Pump shall be variable flow.
 - Pump must be capable of producing a minimum flow of 35 gpm.
 - Pump must be capable of producing a minimum pressure of 1,000 psi.
 - A high-pressure wand coupled to the pump must be included.
- Machine must include a remote ground-drive controller to aid in trailer loading and unloading controlling track speed and direction while operator is off the machine.
- Machine must have an onboard auger anchoring and stabilizer system.
 - Two (2) independent augers must be located on the front of the machine for anchoring.
 - Augers must include protective foot guards around all augers.
 - Two (2) independent stabilizers must be located in the rear of the machine.
- Machine must have a hydraulic lubrication system with bulk grease storage for drill stems.
- Machine must have an on-board drill stem capacity of 400'.
- Machine must have an automatic drill stem loader.
- Machine must include an onboard drill stem basket with a capacity of 400' of drill stem and a quantity of 400' of drill stem.
- Machine shall be provided with one additional drill stem basket with a capacity of 400' of drill stem and an additional quantity of 400' of drill stem.
 - Drill stems must be 10' in length.
 - Drill stems must be constructed of high-carbon alloy steel.
 - Drill stems must be forged as one-piece with no welded ends and must be double shouldered.
 - Drill stems must be a diameter of 2.375" O.D. or as recommended by the manufacturer with a manufacturer's bend radius of at least 100'.

Drill stems must be equal to the Firestick Drill Stem as manufactured by Vermeer Corporation.

Machine must include an umbrella or canopy securely mounted to the machine.

Horizontal Directional Drilling (HDD) Machine Transport System:

Horizontal Directional Drilling (HDD) machine shall include a trailer suitable to transport the machine to the project site.

Trailer must be of sufficient size and GVWR exceeding the gross weight of the trailer, the Horizontal Directional Drilling (HDD) machine, tooling and incidentals.

Trailer must be provided with four (4) chains and four (4) ratchet-style binders of sufficient load limit to secure the Horizontal Directional Drilling (HDD) machine.

Trailer must be tandem-axle with electrically actuated two-brake axles with breakaway kit and axles of sufficient weight rating exceeding the GVWR of the trailer.

Trailer must include a trailer jack of sufficient weight rating exceeding the gross tongue weight of the trailer.

Trailer deck must be of the between the fender design. No deck-over style trailers.

Trailer deck must be of pressure-treated wood. No metal decking or smooth decking will be accepted.

Trailer fenders, frame, tongue and other exposed metal must be suitably painted or coated on both the top and bottom sides to resist corrosion.

Trailer must include a lockable tool storage box with a steel mesh style floor.

Trailer must have an adjustable Lunette Eye-style mount and 3" Lunette Eye-style ring for mounting to pintle-style hitch of sufficient weight rating exceeding the gross tongue weight and the GVWR of the trailer.

Trailer must be equipped with D-rings positioned to legally and securely anchor the Horizontal Directional Drilling (HDD) machine to the trailer.

D-rings shall be in the quantity and of the strength to legally and securely anchor the Horizontal Directional Drilling (HDD) machine to the trailer.

Trailer must be equipped with safety chains and clevis hooks of sufficient size and weight rating for the GVWR of the trailer.

Safety chains and clevis hooks shall have a finish to resist corrosion and clevis

hooks shall include a safety latch.

- Trailer must have tires suitable for trailer use of sufficient weight rating exceeding the GVWR of the trailer and must be of radial construction.
- Trailer must be equipped with all lights, marker lights, reflectors and any other safety related equipment required by and meeting the requirements of all Federal, State and local laws for the trailer classification being provided.

Electronic Tracking System:

- System shall consist of three (3) major components: hand-held tracker, remote display (located on the Horizontal Directional Drilling (HDD) machine and transmitter, sonde or beacon.
- Hand-held tracker must be multiple frequency compatible.
- Hand-held tracker and remote display must be sealed to prevent moisture intrusion and must be rain resistant.
 - Hand-held tracker must be equipped with its own stand or provided with an optional stand to allow for placement on the ground without operator having to bend over to retrieve transmitter.
 - Hand-held tracker, remote display (if removable) and each sonde each must be provided with a hard protective carrying case for storage specifically manufactured for the equipment.
- System shall be provided with one additional sonde or beacon.
- System must be compact and all three major components must work in conjunction with one another.
- System must have multi-function, high contrast display faces on hand-held tracker and remote display.
- System must have steer-to capability allowing operator to place the tracker in front of the transmitter.
- Batteries to power hand-held tracker and remote display must all be re-chargeable.
 - Three (3) sets of batteries for each the hand-held tracker and remote display (if battery-powered) must be provided to allow one set of batteries for operation, one set of batteries for backup and one set of batteries actively charging.
 - One battery charger for each set of batteries for each the hand-held tracker and remote display (if battery-powered) must be provided.

- Batteries to power each sonde or beacon must included.

Drill Fluid Mixing and Transport System:

- System must preassembled and trailer-mounted and ready for use.
 - Trailer must be of sufficient size and GVWR exceeding the gross weight of the trailer, drill fluid mixing and storage system full of water and necessary drill fluid mixes.
 - Trailer must be tandem-axle with electrically actuated two-brake axles with breakaway kit and axles of sufficient weight rating exceeding the gross weight of the trailer, drill fluid mixing and storage system full of water and drill fluid mixes.
 - Trailer must include a trailer jack of sufficient weight rating exceeding the gross tongue weight of the trailer.
 - Trailer deck must be of the between the fender design. No deck-over style trailers.
 - Trailer deck must be of pressure-treated wood. No metal decking or smooth decking will be accepted.
 - Trailer deck shall have anti-slip surfacing around the drill fluid mixing and storage system.
 - Trailer fenders, frame, tongue and other exposed metal must be suitably painted or coated on both the top and bottom sides to resist corrosion.
 - Trailer must include a lockable tool storage box with a steel mesh style floor.
 - Trailer must have an adjustable Lunette Eye-style mount and 3" Lunette Eye-style ring for mounting to pintle-style hitch of sufficient weight rating exceeding the gross tongue weight and the GVWR of the trailer.
 - Trailer must be equipped with safety chains and clevis hooks of sufficient size and weight rating for the GVWR of the trailer.
 - Safety chains and clevis hooks shall have a finish to resist corrosion and clevis hooks shall include a safety latch.
 - Trailer must have tires suitable for trailer use of sufficient weight rating exceeding the GVWR of the trailer and must be of radial construction.
 - Trailer must be equipped with all lights, marker lights, reflectors and any other safety related equipment required by and meeting the requirements of all Federal, State and local laws for the trailer classification being provided.

- Water tank capacity must be a minimum of 1,000 gallons.
- System must be mounted in a fashion to properly distribute load onto the trailer.
- System must be powered by a gasoline engine of sufficient power rating for the intended use of the system.
- System must have an integrated mixing hopper designed in a fashion to ensure all drilling fluids are thoroughly mixed and flow through the pump.
- System must include all hoses, connections and valves necessary and required for storage of water and proper mixing of drill fluid including a 2"x50' fluid supply hose.

Vacuum Excavation System:

- System must preassembled and trailer-mounted and ready for use.
 - Trailer must be of sufficient size and GVWR exceeding the gross weight of the trailer, vacuum excavation system, water storage full of water and debris tank full of debris.
 - Trailer must be tandem-axle with electrically actuated two-brake axles with breakaway kit and axles of sufficient weight rating exceeding the gross weight of the trailer, vacuum excavation system, water storage full of water and debris tank full of debris.
 - Trailer must include a hydraulic tongue jack of sufficient weight rating exceeding the gross tongue weight of the trailer.
 - Trailer deck must be of the between the fender design. No deck-over style trailers.
 - Trailer fenders, frame, tongue and other exposed metal must be suitably painted or coated on both the top and bottom sides to resist corrosion.
 - Trailer must have an adjustable Lunette Eye-style mount and 3" Lunette Eye-style ring of sufficient weight rating exceeding the gross tongue weight and GVWR of the trailer for mounting to pintle-style hitch.
 - Trailer must be equipped with safety chains and clevis hooks of sufficient size and weight rating for the GVWR of the trailer.
 - Safety chains and clevis hooks shall have a finish to resist corrosion and clevis hooks shall include a safety latch.
 - Trailer must have tires suitable for trailer use of sufficient weight rating exceeding the GVWR of the trailer and must be of radial construction.
 - Trailer must include a safety cone mount suitable for storing safety cones during

transport.

- Trailer must be equipped with all lights, marker lights, reflectors and any other safety related equipment required by and meeting the requirements of Federal, State and local laws for the trailer classification being provided.
- System must have a minimum rating of 1,000 cfm at 16" of mercury.
- Engine must be diesel powered with a minimum gross horsepower of 49.
 - Engine must meet the latest EPA Tier 4 Final Emission standards and certification requirements for the engine's horsepower class.
 - Engine fuel tank capacity shall be a minimum of 30 gallons.
- Debris tank must be a minimum of 800 gallons with electronic shutoff.
- Water tank must be a minimum of 400 gallons with drain and plumbed to high-pressure pump with low water sensor.
- System must have a variable, minimum water pressure of 3,000 psi.
- System must include a minimum of 50' of high-pressure water hose rated at a minimum 3,000 psi on a mounted hose reel.
- System must have a minimum water pump flow rate of 4 gpm.
- System must include antifreeze system.
- System must have removable and washable filters.
- System must have lockable curbside controls.
- System must provide suction hose storage.
- System must be capable of reverse pressure.
- System must have hydraulic pump and cylinders to raise tank a minimum of 45° with remote controls.
- System must have full-open rear door with hydraulic rear door lift.
- System must include an amber safety strobe light.
- System must include a minimum of two (2) work lights.
- System must include a wash wand that couples to water pump, potholing wand and suction

tool.

- System must include a minimum 4" industrial-rated suction hose with a minimum of 25' in length.

Tooling:

- Premium transmitter housing sized for the specified Horizontal Directional Drilling (HDD) machine to be provided.
- Transmitter housing safety bolt as required.
- Transmitter housing roll pins as required.
- Metal-style sonde key for premium transmitter housings as required.
- API machine to drill rod pin adapter for the specified Horizontal Directional Drilling (HDD) machine and the specified drilling stems.
- Torq-Lok 2-part epoxy thread locker or equivalent.
- Hardfaced starter rod collar with teeth and roll pin preventing over-torquing of the threads.
- Punch sized for roll pins.
- Starter drill rod compatible with the specified drill stem.
- 5" Ace Pro Extreme drill bit or equivalent.
- Quantity of two (2) split-style, double rod wiper sized for the specified drill stem.
- 30K double eye pullback swivel.
- Quantity of two (2) gallon containers of Copper Kote grease.
- 5/8" shackle sized for the specified Horizontal Directional Drilling (HDD) machine to be provided.
- 3/8" shackle sized for the specified Horizontal Directional Drilling (HDD) machine to be provided.
- 2.5 gallon container of ISO 100 heavy hydraulic fluid.
- 6" fluted, shark teeth reamer, API regular box X 24K swivel sized for the specified drill rods.
- 8" fluted, shark teeth reamer, API regular box X 24K swivel sized for the specified drill rods.

- 12" fluted, shark teeth reamer, API regular box X 24K swivel sized for the specified drill rods.

Training:

- Minimum of five (5) days of on-site, on-hand training must be provided by a trained and qualified representative(s) of the machines' and systems' manufacturer for the operation and maintenance of the Horizontal Directional Drilling (HDD) machine, Horizontal Directional Drilling (HDD) machine transport system, electronic tracking system, drill fluid mixing and transport system, vacuum excavation system and any and all appurtenances thereof.
- A manufacturer's comprehensive operators, owners and maintenance manual for the Horizontal Directional Drilling (HDD) machine, drill fluid mixing system and vacuum excavation system in both paper and electronic formats must be provided.
- A manufacturer's comprehensive parts manual for the Horizontal Directional Drilling (HDD) machine, drill fluid mixing system and vacuum excavation system in both paper and electronic formats must be provided.
- A manufacturer's comprehensive operators, owners and maintenance manual for all of the electronic tracking systems components in both paper and electronic formats must be provided.

Warranty:

- Three (3) years parts and labor warranty on the machine and all systems and all appurtenances.
- Lifetime warranty on the thrust drive rack and pinion system.

References:

- Bidders shall provide a list at least five (5) owners of the make and model of the actual machine and systems the bid proposals are provided for within the southeastern United States. List shall include owner's name, address, contact name, contact's title and telephone number.

Proposals must clearly provide the appropriate year of manufacture, make, model and options required to meet the specifications with a clear total bid price. Proposals shall include any and all manufacturers' specifications and literature necessary and/or required in the determination that the requirements and specifications are met. Proposals shall include a copy of this letter with a check mark in each box where the bidder meets the applicable requirement. Proposals must also clearly provide a time for delivery in calendar days from the time the bid proposal is awarded and the purchase order is placed.

Conditional proposals will not be considered.

The successful bidder and any subcontractors including trailer manufacturers must comply with O.C.G.A. §50-36-1 et. Seq. and O.C.G.A. §13-10-91 et. Seq. and DOL Rule 300-10-1-.02. A properly prepared and notarized affidavit attesting to the requirements of such Laws as attached hereto must

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Recipient:

be provided with the bid proposal. Proposals received without a properly prepared and notarized affidavit will not be considered.

The City of Cartersville reserves the right to accept or reject in whole or in part any or all proposals and to waive formalities and re-advertise. The City of Cartersville may consider informal any proposal not prepared and submitted in accordance with the provisions hereof and may waive any informalities to reject any and all proposals. Any proposal received after the time and date specified shall not be considered.

If you have any questions or require additional information, please do not hesitate to contact Michael Dickson, Gas System Director or Brian Friery, Assistant Gas System Director of this office.

Sincerely,

CITY OF CARTERSVILLE, GEORGIA

Brian S. Friery, Assistant Gas System Director

Attachments

CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with City of Cartersville has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with City of Cartersville, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the City of Cartersville at the time the subcontractor(s) is retained to perform such service.

The undersigned Contractor is using and will continue to use the federal work authorization program throughout the contract period.

EEV/Basic Pilot Program* User Identification Number

BY: Authorized Officer or Agent
(Contractor Name)

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

Personally appeared before the undersigned
who after being duly sworn, deposes and says that
the facts stated in the above affidavit are true.

This _____ day of _____, _____.

Notary Public: _____ SEAL

My Commission Expires: _____,

_____ County, Georgia

*As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

SUBCONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with _____ (name of contractor) on behalf of City of Cartersville has registered with and is participating in federal work authorization program being* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned subcontractor is using and will continues to use the federal work authorization program throughout the contract period.

EEV/Basic Pilot Program* User Identification Number

BY: Authorized Officer or Agent
(Contractor Name)

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

Personally appeared before the undersigned who after being duly sworn, deposes and says that the facts stated in the above affidavit are true.

This _____ day of _____, _____.

Notary Public: _____ SEAL

My Commission Expires: _____,

_____ County, Georgia

*As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

AFFIDAVIT VERIFYING STATUS FOR
CITY OF CARTERSVILLE BENEFIT APPLICATION

By executing this affidavit under oath, as an applicant for a City of Cartersville, Georgia Occupation Tax Certificate, Alcohol License or other public benefits as referenced in O.C.G.A. Section 50-36-1, I am stating the following with respect to my application for a City of Cartersville, Georgia Occupational Tax Certificate, Alcohol License or other public benefit (circle one) for

[Name of natural person applying on behalf of individual, business, corporation, partnership, or other private entity]

[Name of business, corporation, partnership]

- 1) _____ I am a United States citizen
- 2) _____ I am a legal permanent resident 18 years of age or older or I am an otherwise qualified alien or non-immigrant under the Federal Immigration and Nationality Act 18 years of age or older and lawfully present in the United States.*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Signature of Applicant

Date

Printed Name

*

Alien Registration number for non-citizens

Personally appeared before the undersigned who after being duly sworn, deposes and says that the facts stated in the above affidavit are true.

This _____ day of _____, _____.

Notary Public: _____ SEAL

My Commission Expires: _____,

_____ County, Georgia

*Note: O.C.G.A. § 50-36-1(e)(2) requires that aliens under the federal Immigration and Nationality Act, Title 8 U.S.C., as amended, provide their alien registration number. Because legal permanent residents are included in the federal definition of "alien", legal permanent residents must also provide their alien registration number. Qualified aliens that do not have an alien registration number may supply another identifying number below:

AFFIDAVIT VERIFYING STATUS FOR
CITY OF CARTERSVILLE BENEFIT APPLICATION FOR SUBCONTRACTOR

By executing this affidavit under oath, as an applicant for a City of Cartersville, Georgia Occupation Tax Certificate, Alcohol License or other public benefits as referenced in O.C.G.A. Section 50-36-1, I am stating the following with respect to my application for a City of Cartersville, Georgia Occupational Tax Certificate, Alcohol License or other public benefit (circle one) for

[Name of natural person applying on behalf of individual, business, corporation, partnership, or other private entity]

[Name of business, corporation, partnership]

- 1) _____ I am a United States citizen
- 2) _____ I am a legal permanent resident 18 years of age or older or I am an otherwise qualified alien or non-immigrant under the Federal Immigration and Nationality Act 18 years of age or older and lawfully present in the United States.*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Signature of Applicant

Date

Printed Name

*

Alien Registration number for non-citizens

Personally appeared before the undersigned who after being duly sworn, deposes and says that the facts stated in the above affidavit are true.

This _____ day of _____, _____.

Notary Public: _____ SEAL

My Commission Expires: _____,

_____ County, Georgia

*Note: O.C.G.A. § 50-36-1(e)(2) requires that aliens under the federal Immigration and Nationality Act, Title 8 U.S.C., as amended, provide their alien registration number. Because legal permanent residents are included in the federal definition of "alien", legal permanent residents must also provide their alien registration number. Qualified aliens that do not have an alien registration number may supply another identifying number below: