DEPARTMENT OF PROCUREMENT SERVICES – CITY OF CHICAGO

July 15, 2019

ADDENDUM NO. 6

FOR

Vacuum Type Main Sewer Pipe Cleaner / Pressure Jet Rodder: Truck Mounted:
  Group A: Dual Engine With Fan Blower
  Group B: Single Engine With Positive Displacement Blower
  Group C: Single Engine With Water Recycling

Specification No. 500732

This document contains:
I. Revisions to the Specification.
II. Questions Submitted for Clarification of the Specification.
III. Revised Addendum No. 6 Article 7., Mechanical and Electrical Parts Worksheets dated July 15, 2019.
IV. Addendum Receipt Acknowledgement

For which Bids are scheduled to be received no later than 11:00 a.m., Central Time on July 31, 2019 (pursuant to Addendum 5, advertised June 17, 2019), in the Department of Procurement Services, Bid & Bond Room 103 City Hall.

Required for use by:
CITY OF CHICAGO
(Department of Fleet and Facility Management)

This Addendum is distributed by:
CITY OF CHICAGO
Department of Procurement Services

Bidder must acknowledge receipt of this Addendum No. 6 on the Bid Execution Page and should complete and return the attached Acknowledgment by email to Michael.smith@cityofchicago.org

Attn: Michael L. Smith, Procurement Specialist
(312) 744-4910

The information contained in this Addendum No. 6 is incorporated by reference into the original Specification issued on January 7, 2019.

LORI E. LIGHTFOOT
MAYOR

SHANNON E. ANDREWS
CHIEF PROCUREMENT OFFICER
July 15, 2019

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FOR

Vacuum Type Main Sewer Pipe Cleaner / Pressure Jet Rodder: Truck Mounted:
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Group B: Single Engine With Positive Displacement Blower
Group C: Single Engine With Water Recycling

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For which bids are due in the Department of Procurement Services, Bid & Bond Room, Room 103, City Hall, 121 N. LaSalle Street, Chicago, Illinois 60602, at 11:00 a.m., Central Time, July 31, 2019 (pursuant to Addendum 5). The following questions/answers will be incorporated in the above-referenced Specification. All other provisions and requirements as originally set forth remain in full force and are binding.

BIDDER SHOULD ACKNOWLEDGE RECEIPT OF THIS ADDENDUM NO. 6 ON THE BID EXECUTION PAGE (ARTICLE 15) SUBMITTED WITH YOUR BID. FAILURE TO ACKNOWLEDGE MAY RESULT IN BID REJECTION.

SECTION 1: REVISIONS TO THE SPECIFICATION

Revision #1, Notice of Bid Postponement

CURRENT BID/PROPOSAL OPENING DATE:
July 31, 2019, 11:00 a.m. Central Time

NEW BID/PROPOSAL OPENING DATE:
August 16, 2019, at 11:00 a.m. Central Time

The following Revisions below pertain to Article 6, SCOPE OF WORK AND DETAILED SPECIFICATIONS:

Revision #2, Revise 6.13. Section title to read:
Bid Line #1 Group ‘A’: Vacuum -Type Sewer Pipe Cleaner with Fan Blower

Revision #3, Revise 6.13.1 Intent in its entirety to read:
It is the intent of this specification to describe a 12 cubic yard vacuum-type main sewer cleaner, with jet rodder system, mounted on a 6 x 4 conventional cab/chassis with a fan blower.

Revision #4, Revise 6.13.2 Overall Design (Cab/Chassis), paragraph 2 in its entirety to read:
Cable to Axle (CA) dimension must be the minimum dimension necessary for correct and balanced mounting of the body, the payload, and other equipment

Revision #5, Revise 6.13.2 Overall Design (Cab/Chassis), paragraph 6 in its entirety to read:
The overall height of the completed unit, including cab, body, and any/all attachments, must not exceed 12’.

Revision #6, Revise 6.13.6 Exhaust System in its entirety to read:
Muffler must be cab mounted. A muffler / stack protective shield must be installed.

Muffler stack(s) must not exceed 12’ from ground level.
Revision # 7. Revise 6.13.8 Electrical System paragraph 2 to read:
Two 12 V batteries, minimum combined capacity of 1,950 CCA (COLD CRANKING AMPS), must be
installed in an accessible location.

Revision # 8. Revise 6.13.8 Electrical System paragraph 5 to read:
A heavy-duty 12V starting motor must be installed, with overcrank protection.

Revision # 9. Revise 6.13.10 Transmission paragraph 1 to read:
The chassis must be equipped with a heavy-duty automatic transmission; manufacturer’s rated input
torque capacity must be not less than 100% of the maximum rated net torque output of the engine.

Revision # 10. Revise 6.13.10 Transmission paragraph 3 to read:
Transmission must be equivalent to an Allison RDS, fully automatic 5 speed, with PTO provision and
internal oil cooler.

Revision # 11. Revise 6.13.14 Tires/Wheels paragraph 2 to read:
Rear tires must be G286 11R 22.5-16 ply

Revision # 12. Revise 6.13.19 Body paragraph 2 to read:
Body must be minimum 3/16" hi-tensile steel with a minimum tensile strength of 50,000 PSI. Width must
not exceed 96".

Revision # 13. Revise 6.13.19 Body paragraph 8 to read:
Debris rear door drain must have 12 feet of discharge hose and a quick-opening air-operated knife
valve.

Revision # 14. Revise 6.13.20 Method of Loading in its entirety to read:
Loading of the body must take place from an inlet mounted in the debris body. Mounting must allow the
pickup hose to rotate a minimum of 180°, allowing vacuuming and jet rodding to occur simultaneously.
Debris must be deposited directly in the debris body.

Revision # 15. Revise 6.13.22 Water Supply paragraph 5 to read:
Water tanks located underneath the truck must be protected for when unit travels off road.

Revision # 16. Revise 6.13.22 Water Supply paragraph 6 to read:
The water tank(s) must be plumbed together for simultaneous filling and draining. Tanks must be
drained by at least one ball drain or 2 1/2" gate valve located on curb side of vehicle.

Revision # 17. Revise 6.13.25 Pump Off System in its entirety to read:
A system must be provided to pump excess water from the debris body at a minimum of 200 gallons per
minute. The pump must be hydraulically driven and must be able to function simultaneously with the jet-
rodding and vacuuming functions of the machine. The controls must be located at the front of the truck.
System configuration must be approved by the Department of Fleet Management, Automotive
Engineering Section, prior to construction.

Revision # 18. Revise 6.13.27 Vacuum System paragraph 2 to read:
The fan system must be capable of being operated independently of the high pressure water system.

Revision # 19. Revise 6.13.32 Additional Equipment paragraph 1 to read:
Two 6 cubic foot minimum, water tight, locking tool storage boxes, one mounted on each side of the
unit, must be provided. Each tool box must be lined with Dri-Dek, or equivalent, matting material. A
padlock hasp must be provided with each box.

Revision # 20. Revised 6.13.32 Additional Equipment paragraph 2 to read:
One locking tool box must be installed between cab and body or other accessible spot, with
approximate volume of 25 cubic feet. Tool box must be lined with Dri-Dek, or equivalent, matting
material. A padlock hasp must be provided with the tool box.
Revision # 21. Revised 6.13.32 Additional Equipment paragraph 6 to read:
A snorkel kit or Higbee tube must be provided to improve performance when the nozzle is submerged.

Revision # 22. Revised 6.13.39 Boiler System Change in its entirety to read:
A heavy-duty, diesel-fired water heating system must be provided to assist in cold-weather operation.
The water heating system must provide 400,000 BTU of heat, resulting in a 50° temperature rise at 20 GPM. The system must be designed to handle maximum flow and pressure, including spikes. The water pump system and valves must be located in a heated cabinet.

Revision # 23. Revise 6.14.26 Paragraph 4 to read:
Vacuum must be provided by a positive displacement, rotary lobe blower system, suitable for cleaning catch basins ranging from 5' to 40' in depth. System must provide a blower with a minimum rating of 4400 CFM of flow and 18" of Hg vacuum. Air conveyance must be provided by a positive displacement (PD) blower.
The blower must be capable of being operated independently of the high pressure water system, and be powered by the chassis engine.
A means of starting and stopping the vacuum suction from the operator station must be provided. The blower system must be mounted on a separate sub-frame.
The Vacuum system must be equipped with single or dual cyclone separators depending on design and have a 10 micron or smaller screen filter upstream of the blower.
Vacuum system must be designed so that the system can be started or shutdown outside of the cab from the operator’s station.


Revision # 25. Revise 6.14.28 paragraph 1 to read:
The hose reel assembly must be mounted on the front of the vehicles.

Revision # 26. Revise 6.15.3 Overall Design (Cab/Chassis) paragraph 6 to read:
The overall height of the completed unit, including cab, body and any/all attachment, must be a maximum 12' 6"

Revision # 27. Revise 6.15.29 High Pressure Jet Rodder Pump paragraph 1 to read:
The high pressure Jet Rodder pump must be provided. The pump must deliver a minimum of 80GPM @ 2,000 PSI at the hose connection point. A system must be provided to vary the flow from zero to full flow by the operator at the control panel.

Revision # 28. Revise 5.3 Shop Facilities paragraph 1 to read:
The Contractor must have, or must provide a subcontractor which has, mechanics and personnel, and adequate shop facilities, tools, parts and service facilities in the Chicago Metropolitan area (defined as being no more than 45 road miles of 210 W. 69th street, Chicago, Illinois 60621). The prime contractor shall have factory certified available mechanics and personal available to work on downed equipment at their own location or an authorized subcontractor location that’s within the required 45 road miles of 210 W. 69th street, Chicago, Illinois 60621. Upon request, the shop facility will be open to inspection by any City representatives.

Revision # 29. Revise 6.12.1 Shop Facilities, Service Facilities and Notification paragraph 2 to read:
The Contractor or authorized subcontractor must operate an established automotive, truck or equipment service center located within forty-five (45) road miles of Fleet Management’s facility at 210 W. 69th Street, Chicago, Illinois 60621.

Revision # 30. Revise 6.5 Authorized Dealer paragraph 1 to read:
The Contractor must be of the manufacturer of, or an authorized dealer or distributor of the manufacturer of the Vacuum truck Mounted Sewer Pipe Cleaner / Pressure Jet Rodder, Truck Mounted Group A –
Dual Engine with Fan Blower Or Group B – Single Engine With Positive Displacement Blower Or Group C – Single Engine Vacuum Jet Rodder With Water Recycling. The Contractor must be able to provide genuine parts assemblies and/or accessories as supplied by the original equipment manufacturer (OEM). Further, the Contractor must be able to provide original product warranty and manufacturer's related services such as product recall notices, etc.

Revision # 31. Revise 6.10 Delivery paragraph 2 to read:
Delivery of the specified Vacuum-Type Main Sewer Pipe Cleaner/Pressure Jet Rodders, Truck Mounted Single Engine with Positive Displacement (PD) Blower must be completed within 300 Calendar Days following the issue date of purchase order release.

Revision # 32. Revise 6.14.1 Intent in its entirety to read:
The intent of this specification is to describe a 9.5 cubic yard minimum usable vacuum-type main sewer cleaner, with jet rodder system and positive displacement blower, mounted on a 6x4 conventional cab/chassis with single engine.

Revision # 33. Revise 6.14.2 Literature / Data paragraph 11 to read:
Gradeability must be a minimum of 24 percent in first gear.

Revision # 34. Revise 6.14.2 Literature / Data paragraph 12 to read:
Maximum speed of vehicle on level pavement must be governed to 62 MPH. The overall height of the completed unit, including cab, body, and attachment, must not exceed 12' 6".

Revision # 35. Revise 6.14.10 Transmission paragraph 3 to read:
Transmission must be an Allison, or equivalent and be fully automatic with PTO provisions and internal oil cooler.

Revision # 36. Revise 6.14.11 Axles paragraph 1 to read:
Front Axle must be a minimum of 16,000 lbs capacity with double acting shock absorbers or minimum required by body manufacturer.

Revision # 37. Revise 6.14.18 Body paragraph 3 to read:
A gravity body drain must be provided for the debris tank, consisting of a 4" minimum ID wrought pipe, with a quick-opening air-operated knife valve or manual gate valve drain. A hose must be provided for release of liquid, at a location sufficient to drain the liquid from the body. The drain location must be approved by the Department of Fleet and Facility Management (2FM), Automotive Engineering Section, prior to construction.

Revision # 38. Revise 6.14.21 Water Supply paragraph 1 to read:
The water tank(s) must have a minimum usable capacity of 1000 US gallons. Tanks must be constructed of a material that is immune to corrosion. Acceptable materials are stainless steel, Duraprolene or Polyethylene. Tanks must be fully baffled to eliminate sloshing. Tanks must be repairable without replacing entirely.

Revision # 39. Revise 6.14.24 Pump Off System paragraph 1 to read:
A system must be provided to pump excess water from the debris body rated at a minimum 300 gallons per minute minimum. The pump must be hydraulic driven and must be able to function simultaneously with the jet rodding and vacuuming functions of the machine. System must have a screened inlet must be located 12' above the debris body floor to ensure maximum water off loading. System configuration must be approved by the Department of Fleet and Facility Management, Automotive Engineering Section, prior to construction.

Revision # 40. Revise 6.14.28 Jet Rodder Hose Reel Assembly paragraph 5 to read:
Hose reel must have 600' length of 1" diameter hose with 6000 psi burst pressure, mounted on an 800' capacity hose reel. A hose footage counter must be provided. Hose reel assembly extension and retraction must have the capability of being manually controlled or have an electric override system in
the event of an engine failure. In addition, the hose reel must have a hydraulic bypass to enable freewheeling or electric override to retrieve the hose in the event of a hydraulic and engine failure.

**Revision # 41. Revise 6.14.30 Hydraulic System paragraph 1 to read:**
Hydraulic system must include a hydrostatically driven pump or Transfer case.

**Revision # 42. Revise 6.14.30 Hydraulic System paragraph 2 to read:**
Hydraulic system must include a minimum 30 gallon hydraulic oil tank with shut off valve for maintenance.

**Revision # 43. Revise 6.14.31 Additional Equipment paragraph 1 to read:**
Two, water tight, locking metal tool storage boxes must be provided, one mounted on each side of the unit. Each tool box must be lined with Dri-Dek, or equivalent, matting material. A padlock hasp or locking handles must be provided with each box. The final size and location of the tool boxes must be approved by the Department of Fleet and Facility Management, Automotive Engineering Section, prior to construction.

**Revision # 44. Revise 6.14.3 Frame paragraph 3 to read:**
Four extra heavy duty steel tow hooks (Cleveland Hardware and Forging Company, Model 2801-A or equivalent) must be mounted to the frame, 2 in the front and 2 in the rear. Hooks should be mounted at an approximate height of 12" above the ground when the body is loaded to Maximum. The final location must be approved by the Department of Fleet and Facility Management, Automotive Engineering Section, prior to construction.

**Revision # 45. Revise 6.14.8 Electrical System paragraph 2 to read:**
Two or Three 12v batteries, minimum combined capacity of 1,950 CCA, must be installed in accessible locations. Battery voltage meter, "Stewart Warner D375AL" must be installed on the instrument panel.

**Revision # 46. Revise 6.14.10 Transmission paragraph 1 to read:**
The chassis must be equipped with a heavy duty automatic transmission; manufacturer's rated input torque capacity not less than 100% of the maximum rated net torque output of the engine.

**Revision # 47. Revise 6.14.27 High Pressure Jet Rodder Pump add the following as the last paragraph:**
In addition, pump must have the capability to provide "Jack Hammer" action or equivalent.

**Revision # 48. Revise 6.14.13 Tires/Wheels revise section in its entirety to read:**
Front tires must be rated at or above axle rating.

Rear tires must be G286-12R 22.5 ply, traction tread.

Wheels must be hub piloted 10 stud steel disc type.

One spare front tire/wheel (mounted) and one spare rear tire/wheel (mounted) must be furnished for each vehicle. Spare wheels must be painted per "PAINTING" Section.

**Revision # 49. Revise 6.13.31 Hydraulic System in its entirety to read:**
Hydraulic system must include a minimum 35 gallon hydraulic oil tank with shut off valve or maintenance, and a spin-on type filter. The system must be capable of operating at temperatures up to 120°F.

**Revision # 50. Revise Article 7, Mechanical and Electrical Parts Worksheets.**
Delete the original Article 7, Mechanical and Electrical Parts Worksheets in their entirety and replace with the Addendum 6 Article 7, Mechanical and Electrical Parts Worksheets dated July 15, 2019.
SECTION II: QUESTIONS SUBMITTED FOR CLARIFICATION OF THE SPECIFICATION

Question 1
Request: Section 6.13. Bid Line #1 Group 'A': Vacuum -Type Sewer Pipe Cleaner/Single Engine with Fan Blower

Answer 1
Refer to Revision #2 of this Addendum.

Question 2
Request: Section 6.13.1. It is the intent of this specification to describe a 12 cubic yard vacuum-type main sewer cleaner, with jet rodder system, mounted on a 6 x 4 conventional cab/chassis with single engine and a fan blower.

Answer 2
Refer to Revision #3 of this Addendum.

Question 3
Request: Section 6.13.2. Gross Vehicle Weight Rating (GVWR) must be a minimum of 66,000 pounds.

Answer 3
No Change to Specification.

Question 4
Request: Section 6.13.2. Cab to Trunnion (CT) dimension must be the minimum dimension necessary for correct and balanced mounting of the body, the payload, and other equipment (approximately 195”). Sewer cleaning body manufacturer must obtain application approval from the chassis manufacturer.

Answer 4
Refer to Revision #4 of this Addendum.

Question 5
Request: Section 6.13.2. The overall height of the completed unit, including cab, body, and any/all attachments, must not exceed 12’.

Answer 5
Refer to Revision #5 of this Addendum.

Question 6
Request: Section 6.13.3. Four extra heavy duty steel tow hooks (equivalent to Cleveland Hardware and Forging Company, Model 2801-A) must be mounted to the frame, 2 in the front and 2 in the rear. Hooks should be mounted at a height approximately 12” above the ground when the body is loaded to maximum.

Answer 6
No change to Specification.

Question 7
Request: Section 6.13.4. SAE gross horsepower rating for the drive engine must be a minimum of 370 HP. Gross torque must be 1,250 lb-ft minimum.

Answer 7
No change to Specification.

Question 8
Request: Section 6.13.5. Coolant mixture must withstand freezing in an ambient temperature of -34°F; mixture must be 50% coolant, 50% water. Engine coolant lines must be routed through the fresh water system to enhance cooling capability.

Answer 8
No change to Specification.
Question 9
Request: Section 6.13.6. A horizontally mounted aftertreatment system must be located behind or below the cab. Vertical type exhaust tailpipe must be back of cab mounted. A stainless steel or aluminum muffler/stack protective shield must be installed.

Answer 9
Refer to Revision #6 of this Addendum.

Question 10
Request: Section 6.13.6. Muffler stack(s) must not exceed 12' from ground level, but must extend over the top of the cab.

Answer 10
Refer to Revision #6 of this Addendum.

Question 11
Request: Section 6.13.8. Two or Three 12 V batteries, minimum combined capacity of 1,950 CCA (COLD CRANKING AMPS), must be installed in an accessible location.

Answer 11
Refer to Revision #7 of this Addendum.

Question 12
Request: Section 6.13.8. Heavy-duty alternator must be a minimum of 160 A capacity.

Answer 12
No change to Specification.

Question 13
Request: Section 6.13.8. A heavy-duty 12V starting motor must be installed, equivalent to a Delco 39MT with overcrank protection.

Answer 13
Refer to Revision #8 of this Addendum.

Question 14
Request: Section 6.13.10. The chassis must be equipped with a heavy-duty automatic transmission; manufacturer's rated input torque capacity must be not less than 100% of the maximum rated net torque output of the engine.

Answer 14
Refer to Revision #9 of this Addendum.

Question 15
Request: Section 6.13.10. Transmission must be equivalent to a Allison 3000 RDS, fully automatic 5 speed, with PTO provision and internal oil cooler.

Answer 15
Refer to Revision #9 of this Addendum.

Question 16
Request: Section 6.13.11. Air compressor must be minimum capacity 18.7 CFM; Wabco or equivalent.

Answer 16
No change to Specification.

Question 17
Request: Section 6.13.12. Rear axle must be 46,000 lbs. minimum rated capacity, Meritor or equivalent.

Answer 17
No Change to Specification.

Question 18
Request: Section 6.13.13. Rear suspension must be 46,000 lbs. minimum
capacity, Hendrickson RT- 463, or equivalent, with bronze center bushings.

Answer 18
No Change to Specification.

Question 19
Request: Request 6.13.14. Front tires must be 315/80 R22.5-20 ply rated, Goodyear, or equivalent, G286.

Answer 19
No Change to Specification.

Question 20
Request: Section 6.13.14. Rear tires must be G286 11R 22.5-16 ply

Answer 20
Refer to Revision #11 of this Addendum.

Question 21
Request: Section 6.13.19. Body must be minimum 1/4” corrosion and abrasion resistant Ex-Ten steel with a minimum tensile strength of 70,000 PSI. Width must not exceed 96”.

Add: Debris body manufacturer must ISO 9001 certified. All body electrical wires must be heat stamped with function and circuit. Wiring and electrical panels must comply with NEMA 4 standards for dust and water resistance.

Answer 21
No Change to Specification.

Question 22
Request: Section 6.13.19. A steel radial inlet deflector must be included to reduce wear in the body. Inlet deflector must protect the body from excess wear and distribute load evenly to provide the best weight distribution.

Answer 22
No Change to Specification.

Question 23
Request: Section 6.13.19. The rear door must be equipped with a minimum of 4 latches that close hydraulically. Camloc style locks are not acceptable.

Manual bolt style latches are not acceptable. Rear door must be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder. Industrial style rear debris body door shall be flat and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Dual rear door props shall be mounted outside the debris body to prevent operator from entering door swing path when engaging rear door prop. Props must be engaged from the ground level and be powder coated red for ease of identification. Debris rear door drain must have 12 feet of discharge hose and a quick-opening air-operated knife valve.

Answer 23
No Change to Specification.

Question 24
Request: Section 6.13.19. Two (2) 10” stainless steel float balls must be located in the debris body with an indicator that displays when body is loaded from 1/3 full to recommended full capacity. Each float ball housing shall be within a non-corrosive slide-out screen assembly and be accessed without the use of tools and without entering the body. A full indicator reading must activate the automatic vacuum breaker shut-down system. The shutdown system must be automatically activated when parking brake is released. Load level must also be displayed on the front hose reel mounted control panel screen.

Answer 24
No Change to Specification.
Question 25  
Request: Section 6.13.19. A forward mounted, double-acting hydraulic dump cylinder, power-up, power-down lift mechanism must be provided to raise the body to a minimum 50° angle. The body shall be capable of high dump height of 60". Dump height of 60" must be achieved without the use of scissor lift mechanism. For stability, dumping must be accomplished while the pivot point of the body remains fixed to the subframe.

Answer 25  
No Change to Specification.

Question 26  
Request: Section 6.13.19. Body wash-out system must be included in the forward area of the debris body, including a fan type stainless steel spray nozzle located in the front wall of the debris body to speed the wash out process and aid in the flushing of heavy debris. The nozzle shall also utilize (2) spray nozzles to flush the front most area of the debris body. System must produce a flow of 80GPM. Control for body flush must be located on the curbside of the unit, forward of the dump area for safety.

Answer 26  
No Change to Specification.

Question 27  
Request: Section 6.13.20. Loading of the body must take place from an inlet mounted in the debris body. Mounting must allow the pickup hose to rotate a minimum of 180°, allowing vacuuming and jet rodding to occur simultaneously. Debris must be deposited directly in the debris body.

Answer 27  
Refer to Revision #14 of this Addendum.

Question 28  
Request: Section 6.13.21. The equipment shall be of modular design consisting of vacuum system, water tanks system, debris body and drive system. A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components. All components of the module shall attach to the sub frame and not directly to the chassis. Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension. Sub frame shall be continuous and uninterrupted from back of cab to end of frame.

Answer 28  
No Change to Specification.

Question 29  
Request: Section 6.13.22. Tanks must be constructed of 1/8” aluminum with a sacrificial anode to eliminate rust, corrosion and stress cracking. The water tank material shall require no internal coating. The water tanks shall be easily removed from the subframe to provide complete access to the truck chassis for maintenance purposes. The water tanks must be manufactured by the same company that manufacturers the debris body and fan vacuum system to ensure quality control. Water tanks not manufactured by the manufacturer of the fan vacuum system and debris body will not be accepted.”

Answer 29  
No Change to Specification.
Question 30  
Request: Section 6.13.22. Cylindrical aluminum water tanks must be baffled and be repairable if patching is required. Water tanks shall have a minimum 10 year warranty.

Answer 30  
No Change to Specification.

Question 31  
Request: Section 6.13.22. The water tanks must be plumbed together for simultaneous filling and draining. Tanks must be drained at a single location by a 3” gate valve located on the curb side of the vehicle at the water pump. For stability and safety, the water tanks shall not elevate with debris body during dump cycle.

Answer 31  
No Change to Specification.

Question 32  
Request: Section 6.13.23. Hydraulic lift cylinder(s) must be used to activate boom’s vertical lift. The horizontal functions must be hydraulically rotated. A remote pendant control station and joystick control must be supplied. Boom must have a telescopic feature that telescopes a minimum of 4’ in front of front bumper. The pendant control station must have functions for up, down, left, right, in and out. E-stops shall be located at each operator interface location: front hose reel, mid-ship curbside dump controls, and handheld controller. E-Stop must safely and immediately bring the unit to a safe condition without causing any damage to the machine. When any of the E-Stop(s) are engaged, the hydraulics and Jet Rodder pump must be shut off immediately and simultaneously, the vacuum relief opened, and engine RPM reduced to idle. Kill switches that cut the ignition ground killing all power can cause significant damage to the vehicle and equipment and are not acceptable.

Answer 32  
No Change to Specification.

Question 33  
Request: Section 6.13.27. Vacuum must be provided by a fan system, compressing air within a two stage 38” diameter centrifugal fan, suitable for cleaning catch basins ranging from 5’ to 40’ in depth. System must provide a minimum of 6,000 CFM of flow and 200” of water column with the chassis engine running at or below the manufacturer’s maximum recommended speed for continuous operation. Fans must be constructed of riveted aluminum. Welded steel fan construction is not acceptable.

Answer 33  
No Change to Specification.

Question 34  
Request: Section 6.13.27. The fan system must be capable of being operated independently of the high pressure water system and be powered via a transfer case drive powering a hydraulic pump. The independent closed loop hydraulic system will then power a hydrostatic motor coupled to the centrifugal fan via a 1:2 step up gearbox.

Answer 34  
No Change to Specification.

Question 35  
Request: Section 6.13.27. The vacuum system must be equipped with four purpose built cyclone separators located at the rear of the debris tank, two on each side, each with cleanout doors so daily cleaning can be performed at the same location as debris tank dumping.

Answer 35  
No Change to Specification.
Question 36

Request: Section 6.13.28. Single piston Jet Rodder pump must deliver 80 GPM @ 2,500 PSI at the hose reel connection point. A multi-flow system must be provided to vary the flow from 0-80 GPM by the operator without affecting pressure at controls mounted at the front hose reel. Digital flow meter shall be displayed on front LCD display. Flow meter shall be capable of displaying system flow in all pump operating modes. Water pump speed to remain fully adjustable via an independent operator input regardless of the selected vacuum drive speed. Variable flow systems routing water back-to-tank are not considered equal due to additional wear, horsepower and fuel consumption. The water pump must be powered via two variable displacement hydraulic pumps utilizing (2) 10-bolt transmission mounted PTO's. Water pump inlet must be located below all water tanks to ensure pump does not have to pull water to it. Single piston pump shall stroke no more than 30 times per minute. Triplex style pumps are not acceptable. Pump must be manufactured by the same company that manufactures that fan system, debris body, and water tanks to ensure quality control.

Answer 36

No Change to Specification.

Question 37

Request: Section 6.13.28. An automatic low water warning alarm must be provided to alert the operator when water storage has reached operator set remaining water level. Water level shall be displayed on the front hose reel mounted control screen. Low water level alarm must be adjustable. The pump must be capable of operating dry, and certified by the manufacturer to run dry for a minimum of 30 minutes without damage to the water pump. The engine RPM must not exceed manufacturer's recommended limit while pump is producing rated flow rate and pressure.

Answer 37

No Change to Specification.

Question 38

Request: Section 6.13.28. Pump must be able to run with a smooth, continuous flow, and have an accumulator to permit smooth operation. In addition, pump must have the capability to provide "Jack Hammer" action naturally without causing the water pump to cavitate. A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding. Accumulator shall be a 2.5 gallon capacity and 1000 to 2500 PSI pressure rating. Systems that require the use of air induction into the water pump shall not be accepted. Water pump location shall provide a flooded gravity suction inlet to eliminate potential cavitation damage.

Answer 38

No Change to Specification.

Question 39

Request: Section 6.13.29. The hose reel assembly must be mounted to the chassis frame on the front of the vehicle. Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.

Answer 39

No Change to Specification.

Question 40

Request: Section 6.13.29. The entire hose reel assembly must rotate 270 degrees on a large diameter ball bearing entirely within the headlights of the chassis. Hose reel shall include a dual locking device to positively lock the reel in any position across operating range. Hose reel must be supported by the
chassis frame without the use of outrigger legs.

Answer 40
No Change to Specification.

Question 41
Request: Section 6.13.29. Hose reel must have a 400' length of 1" minimum diameter hose with a 6000 PSI minimum burst pressure, mounted on a 800 foot capacity hose reel. A hose footage counter must be provided.

Answer 41
No Change to Specification.

Question 42
Request: Section 6.13.31. Hydraulic system must use dual transmission PTO mounted hydrostatic pumps to drive the fluid driven water pump. These pumps will allow the water system to have infinite control of water and pressure through the operating range of the pump. A transfer case driven hydrostatic pump will provide power to the centrifugal fan system via a closed loop hydraulic system powering a hydrostatic motor coupled to the fans via a 1:2 step up gear box. An oil to water heat exchanger must be provided in the water system to cool all hydraulic fluids on the unit.

Answer 42
Refer to Revision #49 of this Addendum.

Question 43
Request: Section 6.13.32. Two 6 cubic foot minimum, water tight, locking aluminum tool storage boxes, one mounted on each side of the unit, must be provided. Each tool box must be lined with Dri-Dek, or equivalent, matting material. A locking latch must be provided with each box. Curb Side toolbox shall contain nozzle storage rack and dump controls.

Answer 43
No Change to Specification.

Question 44
Request: Section 6.13.32. One locking tool box must be installed between cab and body or other accessible spot, with a minimum size of 25 cubic feet. Toolbox shall contain a horizontal partition.

Tool box must be lined with Dri-Dek, or equivalent, matting material. A locking latch must be provided with the tool box.

Answer 44
Refer to Revision# 20 of this Addendum.

Question 45
Request: Section 6.13.32. 10' long, 1" diameter, steel reinforced leader hose with fittings must be provided. 3/4" diameter leader hose is not acceptable.

Answer 45
No Change to Specification.

Question 46
Request: Section 6.13.32. A Higbee tube must be provided to improve performance when the nozzle is submerged.

Answer 46
Refer to Revision# 21 of this Addendum.

Question 47
Request: Section 6.13.32. 19'6" of additional aluminum tubing must be provided with each unit to allow greater efficiency under viaducts: one 3' section, two 5' sections, one 6'6" catch basin tube. (2) Pipe Storage Racks Curbside waist level and (2) on rear door with quick releases must be provided. A spring assisted curbside, folding 3-pipe rack shall be provided, constructed of steel tubing and include quick release retainer handles (no bungees or clamps). Travel storage location for these tubes must be in approved by the Department of Fleet
Management, Automotive Engineering Section, prior to construction.

Answer 47
No Change to Specification.

Question 48
Request: Section 6.13.33. Current: All metal surfaces must be properly prepared for painting to insure removal of any/all surface rust, welding slag, soot, dirt, grease and wax. All body parts must be painted prior to assembly.

Answer 48
No Change to Specification.

Question 49
Group A Dual Engine
6.13.2 Overall Height, due to new chassis requirements is now 11'-11”

Answer 49
Refer to Revision# 5 of this Addendum.

Question 50
Request. Section 6.13.19 High Tensile strength Body is 50,000 PSI in lieu of 70,000 PSI, like the other group specs.

Answer 50
Refer to Revision# 12 of this Addendum.

Question 51
Section 6.13.19. New flat door, Vac-Con spec utilize 4 door latches that close hydraulically and do not need Manual latches, like other group specs.

Answer 51
No Change to Specification.

Question 52
Request. 6.13.22 Ball valve drain in lieu of gate valve for ease of operation is recommended.

Answer 52
Refer to Revision# 16 of this Addendum.

Question 53
Request. Section 6.13.25 Pump off system stand pipe not needed, exceeded with full screen, hinged, allowing increased surface area from bottom to top of rear door, opening 12” from bottom as specified.

Answer 53
Refer to Revision# 17 of this Addendum.

Question 54
Request. Section 6.13.39. Boiler system 410k BTU versus 700k. This is our normal product offering and performs well in local contractor hydro-excavation applications.

Answer 54
Refer to Revision# 22 of this Addendum.

Question 55
Group B Single Engine
Request. Section 6.14.4 Chassis HP 350? 80/2500 water system and vac system, we will provide 450HP.

Answer 55
This meets the requirement, no change.

Question 56

Answer 56
2FM Response: Cross linked polyethylene is acceptable if it's immune to corrosion. No change needed.
Request. Section 6.14.26. Dual Cyclones: Vac-Con does not offer dual cyclones, we do offer a large single cyclone. Could it be stated as a certain volume capacity of filtration or just cyclone filtration?

Answer 57
Refer to Revision# 23 of this Addendum.

Request. Section 6.14.27 The Vac-Con does not have 100% flooded inlet, Vac-Con has over 8,500 machines in service with the same design. Not called out in other group specs.

Answer 58
Refer to Revision# 24 of this Addendum.

Request. Section 6.14.28 Hose reel can’t extend beyond the width of chassis? Vac-Con has many units in service with the City of Chicago and other local municipalities. Our reel articulates 180 degrees as specified in the other group specs.

Answer 59
Refer to Revision# 25 of this Addendum. If Reel articulates 180 degrees that would meet the minimum requirement in the specification.

Request. Section 6.14.37. Boiler System 410k BTU versus 700k. This is our normal product offering and performs well in local con tractor hydro-excavation applications.

Answer 60
No Change to Specification.

Request. Section 6.14.39 Excavation Package: Vac-Con normally does not offer a separate switch panel to control the vacuum. This feature is offered on our wireless remote control which allows the operator to control these functions from anywhere around the worksite. We could include the wireless remote as part of this option package.

Answer 61
The wireless remote would be acceptable as long as it could be mounted if we chose and is independent of the front operating system.

Group C Single Engine Recycling
Request. Section. 6.15.3 Overall Height will be 12" 6" due to chassis and equipment requirements.

Answer 62
Refer to Revision# 26 of this Addendum.

Request. Section 6.15.29. Vac-Con’s recycling system operates with a water pump sized at 80GPM @ 2000PSI.

Answer 63
Refer to Revision# 27 of this Addendum.

Question. Can I get a copy of the attendance sheet from the pre-bid meeting?

Answer 64
Yes. The Pre-Bid Conference Attendee List has been posted to our DPS Website.

Question 65
Also, I wanted to point out that by having to bid all three groups, you are severely limiting the number of companies that can bid. Is there any way that the groups can be separated?

Answer 65
As stated at the Pre-Bid Conference, a bidder does NOT have to bid all three groups. The Bidder may bid one, two, or all three groups. Please note Section 6.2. Basis of Award.
Question 66
5.3. Specification states: The Contractor must have, or must provide a subcontractor which has, factory trained mechanics and personnel, and adequate shop facilities, tool, parts and service facilities in the Chicago Metropolitan area (defined as being no more than 40 miles from North and Throop St., Chicago, IL 60642.

Answer 66
Refer to Revision# 28 of this Addendum.

Question 67
6.12.1 specification states: The contractor or authorized subcontractor must operate and established Automotive, Truck or equipment service center located within approximately thirty (30) road miles of Fleet Management facility at 210 W. 69th street, Chicago, Illinois 60621.

Answer 67
Refer to Revision# 29 of this Addendum.

Question 68
Based off the pre-bid conference I believe it was determined that the 69th street address is the correct one.

Answer 68
Yes.

Question 69
Change request: regarding both section 5.3 and 6.12.1 we request both line items be consistent and read: The contractor or authorized subcontractor must operate and established Automotive, Truck or equipment service center located within approximately 40 road miles of Fleet Management facility at 210 W 69th Street, Chicago, Illinois 60621.

Answer 69
Refer to Revisions# 28 & 29 of this Addendum.

Question 70
5.3. – Shop Facilities, 1st Paragraph:

Specifcation states: The Contractor must have, or must provide a subcontractor which has, factory trained mechanics and personnel, and adequate shop facilities, tools, parts and service facilities in the Chicago Metropolitan area (defined as being no more than 40 road miles from North & Throop St., Chicago, IL 60642) to service the equipment under this contract in its own shop. Upon request, the shop facility will be open to inspection by any City representatives. Note: We are a Wisconsin based company that has been doing business with the City of Chicago for over 15 years. We do have several service centers / subcontractors setup in different locations within the City required 40 miles. However, to better serve the City of Chicago and exceed the Cities requirements we are asking to change the requirement of the 1st paragraph in section 5.3

Change request: We request this line item be changed to: The Contractor must have, or must provide a subcontractor which has, mechanics and personnel, and adequate shop facilities, tools, parts and service facilities in the Chicago Metropolitan area (defined as being no more than 40 road miles of 210 W. 69th street, Chicago, Illinois 60621). The prime contractor shall have factory certified available mechanics and personal available to work on downed equipment at their own location or an authorized subcontractor location that's within the required 40 miles of 210 W. 69th street, Chicago, Illinois 60621. Upon request, the shop facility will be open to inspection by any City representatives.

Answer 70
Refer to Revision# 28 of this Addendum.
Question 71

5.3. – Shop Facilities, 3rd Paragraph:

**Specification states**: The manufacturer(s)/dealer(s) of the mounted equipment and/or accessories furnished by the Contractor under this specification must employ sufficient factory trained personnel and maintain adequate shop facilities, service facilities and parts inventories within the Chicago Metropolitan area to service/repair the subject equipment/accessories throughout their warranty period. Note: We are a Wisconsin based company that has been doing business with the City of Chicago for over 15 years. We do have several service centers/subcontractors setup in different locations within the City required 40 miles. However, to better serve the City of Chicago and exceed the Cities requirements we are asking to change the requirement of the 3st paragraph in section 5.3.

**Change request**: We request this line item be changed to: The manufacturer(s)/dealer(s) of the mounted equipment and/or accessories furnished by the Contractor under this specification must employ sufficient factory trained personnel and maintain adequate shop facilities, service facilities and parts inventories. Contractor must have or must provide a subcontractor to be within the Chicago Metropolitan area to service/repair the subject equipment/accessories throughout their warranty period.

Answer 71

No Change to Specification.

Question 72

6.5. - Authorized Dealer, 1st Paragraph:

**Specification states**: The Contractor must be of the manufacturer of, or an authorized dealer or distributor of the manufacturer of the Vacuum truck Mounted Sewer Pipe Cleaner / Pressure Jet Rodder, Truck Mounted Group A – Dual Engine with Fan Blower and Group B – Single Engine With Positive Displacement Blower.

**Change request**: We request this line item be changed to: The Contractor must be of the manufacturer of, or an authorized dealer or distributor of the manufacturer of the Vacuum truck Mounted Sewer Pipe Cleaner / Pressure Jet Rodder, Truck Mounted Group A – Dual Engine with Fan Blower Or Group B – Single Engine With Positive Displacement Blower Or group C – Single Engine Vacuum Jet Rodder With Water Recycling.

Answer 72

Refer to Revision# 30 of this Addendum.

Question 73

6.10. - Delivery:

**Specification states**: Delivery of Specified Vacuum-Type Main Sewer Pipe Cleaner / Pressure Jet Rodder, Truck Mounted Single Engine with Positive Displacement (PD) Blower must be completed within 200 calendar days following the issue date of purchase order release.

Note: Per the Chassis manufacturer this line item can be meet at this time however its subject to change. It’s an unknow at this time what the lead times will be for the different chassis manufactures at the time of the actual order. We have seen a wide array of chassis lead time over the last several years ranging from 120-260 days.

**Change request**: We request this line item to be changed to: Delivery of Specified Vacuum-Type Main Sewer Pipe Cleaner / Pressure Jet Rodder, Truck Mounted Single Engine with Positive Displacement (PD) Blower must be completed within 300 calendar days following the issue date of purchase order release.
Answer 73
Refer to Revision# 31 of this Addendum.

Question 74
6.14.1. - Intent:

Specification states: The intent of this specification is to describe a 12 cubic yard vacuum-type main sewer cleaner, with jet rodder system and positive displacement blower, mounted on a 6x4 conventional cab / chassis with single engine.

NOTE: Manufacturers all have a different ways and configurations on how they load debris in the body which equates to different size volumetric bodies. To stay consistent with the rest of the specification in group B (line item 6.14.18) we are asking to change the description to usable cubic yards.

Change Request: We request this line item be changed to: The intent of this specification is to describe a 9.5 cubic yard minimum usable vacuum-type main sewer cleaner, with jet rodder system and positive displacement blower, mounted on a 6x4 conventional cab / chassis with single engine.

Answer 74
Refer to Revision# 32 of this Addendum.

Question 75
6.14.2. - 11th Paragraph:

Specification states: Gradeability must be a minimum of 25 percent in first gear.

NOTE: Per the chassis / Allison manufacturer the specification the City is asking for is not available. To correctly pair up with section 6.14.4 and section 6.14.10 the gradeability would be at 24%. We are asking to change the gradeability requirements. (see attached supporting Allison data).

Change request: We request this line item be changed to: Gradeability must be a minimum of 24 percent in first gear.

Answer 75
Refer to Revision# 33 of this Addendum.

Question 76
6.14.2. - Literature / Data, 12th Paragraph:

Specification states: The overall height of the completed unit, including cab, body, and all attachments, must not exceed 11'10".

Change request: We request this line item be changed to: The overall height of the completed unit, including cab, body, and all attachments, must not exceed 12'.

Answer 76
Refer to Revision 34 of this Addendum.

Question 77
6.14.4. – Engine, 2nd Paragraph:

Specification states: SAE gross horse power rating for the engine must be a minimum 350 hp. Gross torque must be 1000 lb-ft minimum.

NOTE: Per the chassis / Allison manufacturer the specification the City is asking for is not available. With the Allison 3500 transmission (16.14.10) the maximum available HP and torque is 350hp @ 800 lbs of torque which isn’t enough to fully power to specified blower and water pump. The industry standard minimum specification would be to move to and Allison 3000Rds series transmission which will allow for 370hp @ 1100 lbs of torque. We are asking to change the horse power requirements. (see attached supporting Allison data).
Change request: We request this line item be changed to: SAE gross horse power rating for the engine must be a minimum 370 hp. Gross torque must be 1100 lb-ft minimum.

Answer 77
No change. The specified horse power and Gross torque meets the minimum and would be acceptable.

Question 78
6.14.10. – Transmission, 3rd Paragraph:

Specification states: Transmission must be an Allison 3500RDS, or equivalent, fully automatic 5 speed, with PTO provisions and internal oil cooler.

NOTE: Per the chassis / Allison manufacturer the specification the City is asking for is not available. To correctly pair up with section 6.14.4 We would need to move to the Allison 3000 transmission with 6 speed automatic transmission which will allow for 370hp @1100 lbs of torque. We are asking to change the transmission requirements. (see attached supporting Allison data).

Change request: We request this line item be changed to: Transmission must be an Allison 3000RDS, or equivalent, fully automatic 6 speed, with PTO provisions and internal oil cooler.

Answer 78
Refer to Revision# 35 of this Addendum.

Question 79
6.14.11. – Axles, 1st Paragraph:

Specification states: Front Axle must be 20,000lbs. minimum capacity with double acting shock absorbers.

NOTE: In specification line item 6.14.28 we are requesting the City to allow for a rear reel configuration as well as a front reel. If the rear reel configuration is allowed then per the manufacturer engineering our required front axle would be a minimum 16,000lbs. Have the 16,000lbs front axle will give you a mush tighter turning ratios.

Change request: We request this line item be changed to: Front Axle must be a minimum of 16,000 lbs capacity with double acting shock absorbers or minimum required by body manufacturer.

Answer 79
Refer to Revision# 36 of this Addendum.

Question 80
6.14.18. - Body, 1st part of 3rd paragraph:
Specification states: A gravity body drain must be provided for the debris tank, consisting of a 4” minimum ID wrought pipe, with a quick-opening air operated knife valve.

Change request: Per the manufacturer they utilize a manual gate valve drain. We request this line item be changed to: A gravity body drain must be provided for the debris tank, consisting of a 4” minimum ID wrought pipe, with a quick-opening air operated knife valve or manual gate valve drain.

Answer 80
Refer to Revision# 37 of this Addendum.
Question 81
6.14.21 - Water Supply:
Specification states: Acceptable materials are Stainless steel or Duraprolene

Change request: Per the manufacturer, they utilize Polyethylene tanks with a life time warranty. We request this line item to be changed to: Acceptable materials are Stainless steel, Duraprolene or Polyethylene.

Answer 81
Refer to Revision 38 of this Addendum.

Question 82
6.14.24 - Pump off System, 1st part of paragraph:

Specification states: A system must be provided to pump excess water from the debris body rated at a minimum 800 gallons per minute and passing up a 3" diameter solid. The pump must be hydraulic driven and must be able to function simultaneously with the jet rodning and vacuuming functions of the machine. System must have a screened inlet must be located 12" above the debris body floor to ensure maximum water off loading.

NOTE: Per the manufacturer they utilize a 300 gallon per minute pump that equates to a 1:1 ratio of water being vacuumed in "vs" water being pumped off.

Change request: We request this line item to be changed to: A system must be provided to pump excess water from the debris body rated at a minimum 300 gallons per minute minimum 1:1 ratio water being vacuumed in "vs" water pumping off. The pump must be hydraulic driven and must be able to function simultaneously with the jet rodning and vacuuming functions of the machine. System must have a screened inlet must be located 12" above the debris body floor to ensure maximum water off loading. System configuration must be approved by the Department of Fleet and Facility Management, Automotive Engineering Section, prior to construction.

Answer 82
Refer to Revision# 39 of this Addendum.

Question 83
6.14.26 - Vacuum System, 4th paragraph:
Specification states: The vacuum system must be equipped with dual cyclone separators and 10 micron or smaller screen filter up stream of the blower.

NOTE: Per the manufacturer some manufactures are designed with dual exhaust ports which then require dual cyclone separators other manufacturers design their unit with a single exhaust port which require a single cyclone separator. With the size of the PD blower in the specification by industry standards both configurations are considered to be equal is just a matter of design.

Change request: We request this line item to be changed to: The vacuum system must be equipped with single cyclone separator if unit is designed with single exhaust port or dual cyclone separators if the unit is designed with dual exhaust ports. System to have 10 micron or smaller screen filter up stream of the blower.

Answer 83
Refer to Revision# 23 of this Addendum.

Question 84
6.14.26 - Vacuum System, 5th paragraph

Specification states: Unit must have the capability to use the vSAacuum and drive the chassis in gear simultaneously.

NOTE: To the best of my knowledge there is only one manufacture that has the capability to Vacuum and drive simultaneously. For safety reasons this is not an option
we can provide. With only one manufacturer offering this option it will limit the competitive bid process for the City of Chicago. We are asking this line item to be removed from the specification.

**Change request:** We request this line item to be removed from the specification.

### Answer 84

Refer to Revision# 23 of this Addendum.

### Question 85

**6.14.28 - Jet Rodder Hose Reel Assembly, 1st Paragraph:**

**Specification states:** The hose reel assembly must be mounted on the front of the vehicle. Hose reel that extend beyond the width of the chassis are not acceptable.

**Change request:** We request this line item to be changed to: The hose reel assembly must be mounted on the front or rear of the vehicle. Hose reel that extend beyond the width of the chassis are not acceptable.

### Answer 85

No change. Moving the hose reel to the rear would introduce safety and operational issues.

### Question 86

**6.14.28 - Jet Rodder Hose Reel Assembly, 5th Paragraph:**

**Specification states:** Hose reel must have 600’ length of 1” diameter hose with 6000 psi burst pressure, mounted on an 800’ capacity hose reel. A hose footage counter must be provided. Hose reel assembly extension and retraction must have the capability of being manually controlled in the event of an engine failure. In addition, the hose reel must have a hydraulic bypass to enable freewheeling to retrieve the hose in the event of a hydraulic and engine failure.

NOTE: Per the manufacturer we utilize an electric “fail-safe” override system in the event of an engine or hydraulic failure.

**Change request:** We request this line item to be changed to: Hose reel must have 600’ length of 1” diameter hose with 6000 psi burst pressure, mounted on an 800’ capacity hose reel. A hose footage counter must be provided. Hose reel assembly extension and retraction must have the capability of being manually controlled or have an electric override system in the event of an engine failure. In addition, the hose reel must have a hydraulic bypass to enable freewheeling or electric override to retrieve the hose in the event of a hydraulic and engine failure.

### Answer 86

Refer to Revision# 40 of this Addendum.

### Question 87

**6.14.30 – Hydraulic System, 1st Paragraph:**

**Specification states:** Hydraulic system must include a hydrostatically driven pump.

NOTE: Per the manufacturer by design we don’t offer a hydrostatically driven pump. we utilize an OMSI transfer case with Kevlar reinforced poly-chain drive for water pump and blower. This allows for independent and simultaneous use of water pump & blower.

**Change request:** We request this line item to be removed from the specification or
read as follows, Hydraulic system must include a hydrostatically driven pump or Transfer case.

Answer 87

Refer to Revision# 41 of this Addendum.

Question 88

6.14.30 – Hydraulic System, 2nd Paragraph:

Specification states: Hydraulic system must include a minimum 35 gallon hydraulic oil tank with shut off valve for maintenance.

NOTE: Per the manufacturer by design we utilize a 30 gallon hydraulic tank.

Change request: We request this line item to changed to: Hydraulic system must include a minimum 30 gallon hydraulic oil tank with shut off valve for maintenance.

Answer 88

Refer to Revision# 42 of this Addendum.

Question 89

6.14.31 – Additional Equipment 1st Paragraph:

Specification states: Two 18" high x 18" deep x 24" wide, water tight, locking metal tool storage boxes must be provided, one mounted on each side at rear of the unit and tied together for long tool storage capacity. Each tool box must be lined with DriDek, or equivalent, matting material. A padlock hasp or locking handles must be provided with each box.

NOTE: Per the manufacturer the size of the tool boxes can get a bit tricky, unfortunately we are at the mercy of the chassis manufacturer and where and how they mount their components (air tanks, exhaust, etc). Until time of order and chassis/body engineering approval of layout space does becomes a question of concern. We ask that the size of the boxes be take into consideration at time of prebuild meeting.

Change request: We request this line item to changed to: Two, water tight, locking metal tool storage boxes must be provided, one mounted on each side of the unit. Each tool box must be lined with Dri-Dek, or equivalent, matting material. A padlock hasp or locking handles must be provided with each box. The final size and location of the tool boxes must be approved by the Department of Fleet and Facility Management, Automotive Engineering Section, prior to construction.

Answer 89

Refer to Revision# 43 of this Addendum.

Question 90

Section 5.3 Shop Facilities on Page 65. Requesting change from 40 Road miles to 45 Road Miles. My shop in Island Lake, IL is 44.4 miles from the Corner of W North Ave and N. Throop St.

Answer 90

Refer to Revision# 28 of this Addendum.

Question 91

Section 6.10. Delivery on Page 73. Delivery of 200 days after receipt of an order may be difficult due to chassis deliveries. We are requesting a change to that section to read "completed within 180 Calendar Days following the receipt of a chassis".

Answer 91

Refer to Revision# 31 of this Addendum.
Question 92  Tires: I agree that we want 11R22.5's. Also, Goodyear's are no longer available on a Freightliner. Can we go with the "Equivalent? We prefer Michelin ZXY-Z on the front. Michelin X Multi D on the rear. Page 95 6.14.13. Tires/Wheels.

Answer 92  Yes, if the Michelines are equivalent to the Goodyears.

Question 93  The air horn needs to be mounted either under the cab or on the roof. Page 95 Section 6.14.14. Cab.

Answer 93  No Change to Specification.

Question 94  ARTICLE 5. TERMS FOR VEHICLE AND EQUIPMENT MAINTENANCE CONTRACTS

5.3: This section notes a 40 mile radius to North and Throop vs the requirement in 6.12.1 of 30 miles from 210 W. 69th St. Which one supersedes?

Answer 94  Refer to Revision# 28 of the Addendum.

Question 95  5.4: We have seen others in our industry try to pass untrained subcontractors off as acceptable service providers. Requiring proof of training and description of training process would help the city avoid having untrained technicians work on their equipment. Therefore, we recommend the following language change:

To insure OEM standards are met in the repair process, the city requires a signed copy of a factory training certification for all mechanics including names, description of training, and location of employment.

Answer 95  No Change to Specification.

Question 96  6.5: Does not mention Group C being required to meet the Authorized Dealer Requirement. Is this an oversight or is it acceptable that non-Authorized Dealers are allowed to bid on Group C?

Answer 96  Refer to Revision# 30 of this Addendum.

Question 97  6.10: Build schedule and subsequent delivery schedule is predicated upon chassis availability. It is impossible to commit to a 200 calendar day delivery requirement due to the unpredictable nature of chassis lead times and the high level of chassis customization requested. Current market conditions have led to increased chassis lead times, which currently is greater than 200 days for most major chassis OEM's. Due to our inability to control chassis lead times, this should require delivery within 120 calendar days after receipt of chassis at the body manufacturing facility.

Answer 97  Refer to Revison# 31 of this Addendum.

Question 98  ARTICLE 6. DETAILED SPECIFICATIONS

6.13. Bid Line #1 Group 'A': Vacuum-Type Sewer Pipe Cleaner/Dual Engine with Fan Blower

[Request:] that the City of Chicago issue a second fan machine specification that allows for single engine operation....

Answer 98:  Refer to Revision #3 of this Addendum.

6.14.2: Each Group has a different height requirement; shouldn’t this be consistent? Currently used units with the city rental fleet are at 12’, has this caused a problem? Max height should be 12’ for consistency and to align with the units currently in use by the City.

Answer 99
Refer to Revision# 34 of the Addendum.

Question 100
An overall height requirement that is below 12’ would requires wheels, tires, and/or suspension that differ from those specified, as well as lower the dump height below the 60” requirement specified in section 6.14.18. Will the City of Chicago accept a vehicle with a maximum height of 12’?

Answer 100
Refer to Revision# 34 of the Addendum.

Question 101
A GVWR of 60,000 lbs. is specified. Based on the application and body size, a 66,000 lbs. GVWR is required.

Answer 101
No change. It’s a minimum requirement. 66k lbs would meet the minimum requirement, no change.

Question 102
6.14.3: Tow hook height should be approximately 12” above the ground when body is loaded. Measurement can vary depending on material weight in debris body, ground surface, etc. Approximately 12” allows for minor variations in height predicated upon the variables impacting measurement height from ground to tow hooks.

Answer 102
Refer to Revision# 44 of the Addendum.

Question 103
6.14.4: A minimum 350 HP engine is specified. A minimum 370 HP engine is required for single engine machine with a PD blower. The minimum HP should be changed to 370.

Answer 103
No change. 370 hp meets the minimum.

Question 104
6.14.8: A Delco model 42MT with OCP or equivalent starter is specified. The 42MT direct drive starter is not compatible with a Cummins ISL engine. A starter such as a Delco model 39MT gear reduction type 12V/12T or equivalent starter requires less power, experiences less internal wear and is required for compatibility with Cummins ISL engines. Is a 39MT with OCP or similar considered to be an acceptable equivalent?

Answer 104
No change. If the starter mentioned is equivalent to the one listed in spec, the starter would be acceptable.

Question 105
Three 12 V batteries with a combined capacity of 1,950 CCA are specified. Is a two battery system that meets or exceeds the minimum combined capacity of 1,950 CCA acceptable?

Answer 105
Refer to Revision# 45 in this Addendum.

Question 106
No change. 160 meets the minimum. See Section 6.14.8 entitled Electrical System, namely “Heavy duty alternator must be a minimum of 115A capacity”.

6.14.10: An Allison 3500RDS transmission with a rated input torque capacity not less than 110% of the maximum rated net torque output of the engine is specified. 110% is not possible with an Allison MD (3000/3500) series transmission. The 3500RDS has a maximum input torque rating of 860 lb.-ft. Section.

Refer to Revision# 46 of this Addendum.

6.14.4 specifies that engine must have a torque rating of at least 1,000 lb.-ft. We use a Cummins ISL 370 HP with a torque rating of 1,250 lb.ft., which complies with the engine torque rating specified, however the 3500RDS is not compatible with the specified engine, due to inadequate input torque capacity. Transmission rated input torque is at a maximum 100% of engine output. the 110% requirement must be changed to 100%. An Allison model 3000RDS 6 speed transmission must be required for engine compatibility and to achieve input torque capacity of at least 100% of maximum rated net engine torque output.

Refer to Revision# 35 of this Addendum.


No change. The numbering is correct.

Sections 6.13.11 and 6.15.12. A minimum 18.7 CFM air compressor is required with a Cummins ISL engine.

No change. This meets the minimum, namely 6.13.11 on both Pages 83 and 94, and 6.15.12 on page 106: “Air compressor must be minimum capacity 13.2 CFM”. This “no change” applies to both.

6.14.11: A minimum 40,000 lbs. rated rear axle is specified. Based on the application and body size, a 46,000 lbs. capacity rear axle is required.

No change. This meets the minimum.

6.14.12: Hendrickson RT2-400 or equivalent rear suspension is specified. Would an upgraded rear air ride suspension that provides an enhanced ride, reduces overall height, and meets or exceeds the specified minimum weight rating be considered to meet or exceed the specified RT2 or equivalent and comply with the specifications?

No change. As long as it’s equivalent.

Sections 6.13.13, 6.14.12, and 6.15.14. A 40,000 lbs. capacity minimum rear suspension is specified. Based on the application and body size, a 46,000 lbs. capacity minimum rear suspension is required.

No change. This meets the minimum. See Sections entitled Steering and Suspension 6.13.13 (pg. 84), 6.14.12 (page 95) and 6.15.14 (page 106), namely “Rear suspension must be 40,000 lbs. minimum capacity”
Question 114

6.14.13: Front (Sleer) Wheels and Tires: 425/65R 22.5-20 ply Goodyear G286, or equivalent front tires are specified. 315/80R22.5 front tires mounted on 22.5x9 wheels will reduce the overall height of the vehicle while still achieving a front axle weight rating (FAWR) of 20,000 lbs. In addition, 315/80R22.5 front tires have a tighter turning radius and enhance maneuverability. Are 315/80R22.5 front tires rated at 10,000 lbs. capacity each, mounted on 22.5x9 wheels acceptable?

Answer 114

Refer to Revision # 48 of this Addendum.

Question 115

Section 6.14.13. Rear (Drive) Wheels and Tires: 12R 22.5-16 ply, traction tread rear tires are specified. 11R22.5 rear tires can be mounted on the specified 8.25 x 22.5 rear wheels, have a combined load capacity that exceeds the rear axle and suspension weight ratings, and therefore does not reduce the vehicle’s GVWR. The advantage of 11R22.5 rear tires is lower overall height when compared to 12R22.5’s. Utilizing 11R22.5 drive tires will enable us to reduce overall height to a maximum of 12”. 12R22.5 tires are taller and thus increase the overall height, but do not increase weight rating. The rear axle weight rating (RAWR) is limited by the specified axles and suspension, not by the tires. Both 11R22.5 and 12R22.5 tires exceed 46,000 lbs. capacity in a dual configuration on a tandem rear axle. Are 11R22.5 rear tires acceptable?

Answer 115

If they meet the equivalent of the listed tires in the spec then yes.

Question 116

6.14.18: Body language is inconsistent between groups. While the Fan truck is asking for a 70,000 PSI strength, the PD unit which pus great strain on the body due to negative pressure it is only requiring a 50,000 PSI minimum tensile strength. Spec should call request a minimum 70,000 PSI minimum tensile strength.

Answer 116

No change. 70k psi meets the minimum.

Question 117

6.14.21: Duraprolene is called out. This is a trade name and not a true material type. This is also inconsistent with the water tank in Group A, is there are reason for the inconsistency? Spec should remain consistent to Group A and allow for aluminum construction as well as it meets the specs requirement.

Answer 117

No Change to Specification.

Question 118

6.14.22: Looking for clarification. Is the city looking for a wired or wireless remote and is the joystick to be a feature of the remote or just part of the operator station?

Answer 118

Wired or wireless remote can be provided as long as there is a remote pendant control station and joystick control and a Joy-stick boom control must be provided at the operator’s station.

Question 119

6.14.26: This spec calls for the truck to be able to operate the vacuum system while the chassis is in gear. This setup can create the potential for a very dangerous situation. Operating an 18”Hg vacuum system while the truck is in motion can easily lead to a loss of control of the vacuum hose and lead to significant injury or fatality to the operator or bystanders. Below are links to Department of Labor investigations of injuries caused by unsecured vacuum truck hoses.

https://www.osha.gov/pls/psis/establishment.inspection_detail?id=314913005

Answer 119

Refer to Revision # 23 of this Addendum.
Question 120  6.14.27: Run Dry Capability – Should ask for a manufacturer certification for a specified duration without damage. As stated, any pump can run dry for 30 seconds. It doesn’t state that the scenario should result in “no damage” either. We recommend that the spec should read: The pump must be capable and certified by the pump manufacturer to run dry for a minimum of 30 minutes without the occurrence of damage.

Answer 120  No change to Specification.

Question 121  6.14.27: No mention of Jack Hammer Action or Pulsation as required in Group A. We assume this is a desired feature and was an oversight in the Group B spec.

Answer 121  Refer to Revision# 47 of this Addendum.

Question 122  6.14.30: An emergency stop should be at all places that the operator interfaces with the machine and be designed as to not cause harm to the machine when activated.

Answer 122  No Change to Specification.


Answer 123  No Change to Specification.

ARTICLE 7

Question 124  OEM Parts Component Pricing:
In general, Article 7 is a difficult and unreliable way to measure Value vs. Cost in products that use different types of components in completely different ways. There is not enough description to add any value or evaluate pricing due to ambiguity and lack of specific detail. A manufacturer could have two type of hydraulic pumps, one costing $200, and another costing $2,000. This section will only draw out info on the $200 pump because as no part number or descriptive language is provided. Specific issues we have identified are listed below.

Answer 124  No Change to Specification.

Question 125  See Sections entitled Jet Rodder Hose Reel Assembly 6.13.29 (page 88), 6.14.28 (page 99), and 6.15.30 (page 110).

Rodder Hose: Not descript enough, many different levels of product with a huge range in pricing. Rodder Pump: The Vector Jet Rodder pump was and is designed for one use, Sewer cleaning. It is built to last the lifetime of the sewer cleaner. Rarely is one ever replaced. It is much more expensive to build than any other Jet rodder pump on the market. It operates at 20 cycles per minute where the competitor cycles at 500 cycles per minute. Competitive pumps simply will not last as long. The competitors pump also cost 1/3 as much to produce. For these reasons the pricing of the parts one against the other is prejudicial to the inferior product that will not last as long and will have much higher down time and operating costs.

Answer 125  No Change to Specification.


27
Rodder Nozzle: Not descript enough to mean anything. These can be priced anywhere from $60 to $20,000 depending on type of nozzle.

Answer 126


Question 127


Hydrostatic Pump: Not descript enough. Completely different applications from manufacturer to manufacturer and may have multiple pumps with varying costs.

Answer 127


Question 128


Battery: Not specific enough.

Answer 128


Question 129


Pendant Control: Spec provided is not specific enough. There could be great variations in the quality and design of pendants being offered.

Answer 129


Question 130


Vibration Motor: The specifications did not provide nearly enough detail. Size and quality will vary due to lack of detail in the spec.

Answer 130

REFER TO REVISION #50 OF THIS ADDENDUM.
Section 7. Parts Worksheet. Pressure relief valve: Which one? Each truck has several at varying costs. Not specific enough.

REFER TO REVISION #50 OF THIS ADDENDUM.


Engine Radiator: The City will never purchase from the Body dealer.


Section 7. Parts Worksheet. EGR Cooler: The City will never purchase from the body dealer.

REFER TO REVISION #50 OF THIS ADDENDUM.


Transmission: The City will never buy from Body Dealer.


Boom Tube: Not specific enough, these come in varying sizes and lengths with multiple purposes.


No mention of Vacuum Fan system that can also be of great cost when needing replacement and has cost the city a great deal on their existing equipment.

No Change to Specification.
Question 137  [Request:] [T]he whole worksheet be removed from the specification.

Answer 137  Request denied. Refer to Revision #50 of this Addendum.

PROPOSAL PAGES

Question 138  Proposal Page 2, Line 10,  
Vehicle repairs – Labor to perform mechanical and electrical repair services in contractor shop, regular business hours. From Page 2 of the specification: Prevailing Wage must be paid, as per the Davis Bacon act. [Request: remove the request for our labor rate on the proposal page.]

Answer 138  No Change to Specification.

Question 139  [Reserved]

Answer 139  [Reserved]

Question 140  [Reserved]

Answer 140  [Reserved]

Question 141  SUGGESTED SINGLE ENGINE FAN MACHINE SPECIFICATION

Answer 141  No Change to Specification. Revisions have been made to Group A. Refer to Revisions 1 through 21 of this Addendum.

Question 142  TECHNICIAN TRAINING CURRICULUM SUBMITTED

Answer 142  No Change to Specification.

SECTION III: ADDENDUM 6, REVISED ARTICLE 7, MECHANICAL AND ELECTRICAL PARTS WORKSHEETS

The Bidder MUST use the Addenum 6, Revised Article 7, Mechanical and Electrical Parts Worksheets, dated July 15, 2019, included in this Addendum 6.
ARTICLE 7. GROUP A – DUAL ENGINE WITH FAN BLOWER - MECHANICAL AND ELECTRICAL PARTS WORKSHEET

This Worksheet must be filled out by the bidder, and must be used to generate three numbers that the bidder must enter into the proposal pages for the Mechanical and Electrical Parts line item (line 9): the Price on the Proposal Page; the Mark-Up or Discount over Manufacturer’s Catalog Price; and the Extended Price.

<table>
<thead>
<tr>
<th>A. OEM part/assembly/component</th>
<th>B. Manufacturer’s Catalog Price</th>
<th>C. UOM</th>
<th>D. Estimated 5 Year Quantity</th>
<th>E. Extended Manufacturer’s Catalog Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rodder hose, 400ft.</td>
<td>$</td>
<td>Ea</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Rodder pump</td>
<td>$</td>
<td>Ea</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Rodder nozzle</td>
<td>$</td>
<td>Ea</td>
<td>171</td>
<td></td>
</tr>
<tr>
<td>Hydrostatic pump</td>
<td>$</td>
<td>Ea</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>$</td>
<td>Ea</td>
<td>158</td>
<td></td>
</tr>
<tr>
<td>Pendant control</td>
<td>$</td>
<td>Ea</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Vibration motor</td>
<td>$</td>
<td>Ea</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Engine radiator</td>
<td>$</td>
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</tr>
<tr>
<td>Transmission</td>
<td>$</td>
<td>Ea</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Boom tube</td>
<td>$</td>
<td>Ea</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

F. Sum of Column E: (Bidder must transfer to the box marked Price on the Proposal Pages for this Group)

G. Bidder's proposed mark-up or discount over manufacturer's Catalog Price: (Bidder must transfer to the box marked Mark-Up or Discount for Parts, Mechanical and Electric on the Proposal Pages for this Group) %

H. Box F multiplied by Box G: (Bidder must transfer to the box marked Extended Price for Parts, Mechanical and Electric on the Proposal Pages for this Group) $

The following are descriptions of headings in the worksheet:

A. OEM part/assembly/component: a representative sample of parts that the City may order from the Contractor during the term of the Contract with respect to the vehicles purchased under the Contract. During the term of the Contract, however, the City may order any parts, assemblies or components included in the Manufacturer’s catalog (see “Mechanical and Electrical Parts” in the Detailed Specifications).

B. Manufacturer’s Catalog Price: The cost for each item charged by the manufacturer to the bidder, derived from the most current manufacturer’s parts price list for dealers. The City has the right to audit the prices quoted on this page, by requesting from the bidder, copies of the manufacturer’s catalog pages substantiating the price set out in the worksheet. Bidder must provide the requested information within 2 business days of the request.

C. UOM is defined as Unit of Measure

Section III. Revised Article 7, Mechanical and Electrical Parts Worksheet, Specification 500732, Addendum No. 6, issued July 15, 2019
D. Estimated Quantity: The City’s estimated quantity of its usage of the listed part, based on the estimated number of vehicles to be procured under the Contract, during the term of the Contract.

E. Extended Manufacturer’s Catalog Price: The product, for each part/assembly/component, of the Manufacturer’s Catalog Price multiplied by the unit of measure multiplied by the Estimated Quantity.

F. Sum of Column E.

G. Proposed Mark-Up or Discount: The bidder’s proposed mark-up or discount of the manufacturer’s catalog price. This mark-up or discount will apply to all parts ordered during the term of the Contract and shall be inclusive of all rebates. This figure must also be carried over by the bidder in the mark-up column on the Mechanical and Electrical Parts line item (line 9) on the proposal pages.

H. Total/Extended Price: The total result of performing the calculation of the formula, which bidder must include both in the worksheet and as the extended price for the Mechanical and Electrical Parts line (Line Item 9) on the proposal pages.
GROUP B – SINGLE ENGINE WITH POSITIVE DISPLACEMENT BLOWER - MECHANICAL AND ELECTRICAL PARTS WORKSHEET

This Worksheet must be filled out by the bidder, and must be used to generate three numbers that the bidder must enter into the proposal pages for the Mechanical and Electrical Parts line item (line 21): the Price on the Proposal Page; the Mark-Up or Discount over Manufacturer’s Catalog Price; and the Extended Price.

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<thead>
<tr>
<th>A. OEM part/assembly/component</th>
<th>B. Manufacturer’s Catalog Price</th>
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<td>$</td>
<td>Ea</td>
<td>171</td>
<td></td>
</tr>
<tr>
<td>Hydrostatic pump</td>
<td>$</td>
<td>Ea</td>
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</tr>
<tr>
<td>Battery</td>
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<tr>
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<td></td>
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<tr>
<td>Transmission</td>
<td>$</td>
<td>Ea</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Boom tube</td>
<td>$</td>
<td>Ea</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

F. Sum of Column E:
(Bidder must transfer to the box marked Price on the Proposal Pages for this Group)

G. Bidder’s proposed mark-up or discount over manufacturer’s Catalog Price:
(Bidder must transfer to the box marked Mark-Up or Discount for Parts, Mechanical and Electric on the Proposal Pages for this Group)

H. Box F multiplied by Box G: (Bidder must transfer to the box marked Extended Price for Parts, Mechanical and Electric on the Proposal Pages for this Group)

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Section III. Revised Article 7, Mechanical and Electrical Parts Worksheet, Specification 500732, Addendum No. 6, issued July 15, 2019
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H. Total/Extended Price: The total result of performing the calculation of the formula, which bidder must include both in the worksheet and as the extended price for the Mechanical and Electrical Parts line (Line Item 21) on the proposal pages.
GROUP C – SINGLE ENGINE WITH WATER RECYCLING - MECHANICAL AND ELECTRICAL PARTS WORKSHEET

This Worksheet must be filled out by the bidder, and must be used to generate three numbers that the bidder must enter into the proposal pages for the Mechanical and Electrical Parts line item (line 32): the Price on the Proposal Page; the Mark-Up or Discount over Manufacturer’s Catalog Price; and the Extended Price.

<table>
<thead>
<tr>
<th>A. OEM part / assembly / component</th>
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<td>Boom tube</td>
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</tbody>
</table>

F. Sum of Column E:
(Bidder must transfer to the box marked Price on the Proposal Pages for this Group)

G. Bidder’s proposed mark-up or discount over manufacturer’s Catalog Price: (Bidder must transfer to the box marked Mark-Up or Discount for Parts, Mechanical and Electric on the Proposal Pages for this Group)

H. Box F multiplied by Box G: (Bidder must transfer to the box marked Extended Price for Parts, Mechanical and Electric on the Proposal Pages for this Group)

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H. Total/Extended Price: The total result of performing the calculation of the formula, which bidder must include both in the worksheet and as the extended price for the Mechanical and Electrical Parts line (Line Item 32) on the proposal pages.
JULY 15, 2019

ADDENDUM NO. 6

FOR

Vacuum Type Main Sewer Pipe Cleaner / Pressure Jet Rodder: Truck Mounted:
  Group A: Dual Engine With Fan Blower
  Group B: Single Engine With Positive Displacement Blower
  Group C: Single Engine With Water Recycling

Specification No. 500732

Required by:

CITY OF CHICAGO
Department of Fleet & Facility Management

Consisting of Sections I through IV. including this Acknowledgment.

SECTION IV. ADDENDUM RECEIPT ACKNOWLEDGMENT

I hereby acknowledge receipt of Addendum No. 6 to the Specification named above and further state that I am authorized to execute this Acknowledgment on behalf of the company listed below.

Signature of Authorized Individual __________________________ Title __________________________

Name of Authorized Individual (Type or Print) __________________________ Company Name __________________________

Business Telephone Number __________________________

Complete and Return this Acknowledgment by email to: Michael.smith@cityofchicago.org

Attn: Michael L. Smith, Procurement Specialist