

**REGULAR CAUCUS MEETING
OF THE COUNCIL OF THE CITY OF BROOK PARK, OHIO
TO BE HELD ON TUESDAY, MAY 9, 2017
7:00 P.M.**

I. ROLL CALL OF MEMBERS

II. PLEDGE OF ALLEGIANCE

III. APPROVAL OF MINUTES OF PRECEDING MEETINGS:

1. REVISED REGULAR CAUCUS MEETING HELD ON AUGUST 9, 2016
2. REVISED REGULAR CAUCUS MEETING HELD ON SEPTEMBER 13, 2016.
2. REGULAR CAUCUS MEETING HELD ON MARCH 28, 2017.
3. REGULAR CAUCUS MEETING HELD ON APRIL 11, 2017.

IV. DISCUSSION:

1. ORDINANCE NO. 10079-2017, AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO A CONTRACT WITH ENDLESS POOLS AND RADIANT HEAT SYSTEMS FOR THE PURCHASE AND INSTALLATION OF TWO (2) DUAL PROPULSION ENDLESS POOLS AND SYSTEMS, WITHOUT PUBLIC BIDDING AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

V. SAFETY COMMITTEE - CHAIRMAN, SALVATORE:

1. AN ORDINANCE AMENDING SECTION 141.02 OF THE BROOK PARK CODIFIED ORDINANCES ENTITLED 'COMPOSITION: EXECUTIVE HEAD' AND DECLARING AN EMERGENCY. Introduced by Council President Astorino

VI. SERVICE COMMITTEE - CHAIRMAN, BURGIO:

1. AN ORDINANCE AUTHORIZING THE CITY OF BROOK PARK'S PARTICIPATION IN THE ODOT COOPERATIVE PURCHASING PROGRAM FOR THE PURCHASE OF ONE PLOW ASSEMBLY FOR A 2018 WESTERN STAR 4700SB TRUCK AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne.

2. AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH HENDERSON PRODUCTS, FOR THE PURCHASE OF ONE 2018 DUMP BODY AND PLOW PACKAGE FOR WESTERN STAR TRUCK AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne.

3. AN ORDINANCE AUTHORIZING THE CITY OF BROOK PARK'S PARTICIPATION IN THE STATE OF OHIO PURCHASING PROGRAM, FOR THE PURCHASE OF ONE SEWER VACTOR TRUCK WITH A TRADE-IN OF A 2007 VACTOR TRUCK AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

4. AN ORDINANCE AUTHORIZING A CHANGE ORDER FOR THE 2016 SIDEWALK REPAIR PROGRAM AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

VII. ADJOURNMENT:

Posted 5/5/17

PIC 4-18-17 RECREATION
CA 4-25-17
1st R 5-2-17
2nd R _____
3rd R _____
B/C _____
CAUCUS 5-9-17

CITY OF BROOK PARK, OHIO

ORDINANCE NO: 10079-2017

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE

AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO
A CONTRACT WITH ENDLESS POOLS AND RADIANT HEAT SYSTEMS
FOR THE PURCHASE AND INSTALLATION OF TWO (2) DUAL
PROPULSION ENDLESS POOLS AND SYSTEMS
WITHOUT PUBLIC BIDDING, AND DECLARING AN EMERGENCY

WHEREAS, Council deems it necessary for the City to enter into a contract with a specialist in order to provide for the purchase and installation of two (2) dual propulsion endless pools at the John A. Poloyne Community Center; and

WHEREAS, said services are of such a highly specialized nature, requiring the exercise of peculiar skill and aptitude, that said contract is properly deemed excepted from the bidding requirements ordinarily associated with the letting of public contracts; and

WHEREAS, Endless Pools at 1601 Dutton Mill Road, Aston, PA 19014 is a sole source patented provider for commercial dual propulsion endless pools; and

WHEREAS, Radiant Heat Systems, P.O. Box 1128, Mount Vernon, Ohio 43050 is the certified factory installation contractor for Endless Pools for our region; and

WHEREAS, the purchase and installation of this dual propulsion pools will enhance the physical and well being and enjoyment of our citizens; and

WHEREAS, the Mayor and City Council is desirous of proceeding to make these improvements to our Recreation Center;

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with Endless Pools and Radiant Heat Systems for the purchase and installation of two (2) dual propulsion pools at the John A. Poloyne Community Center.

SECTION 2: That the funds for the purpose of the aforesaid expenditure have been appropriated or to be appropriated and shall be paid from the Special Recreation Fund No. 250, Public Recreation Fund No. 343 and Equipment Fund No. 552 an amount not to exceed the amount of \$180,000.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said contract with Endless Pools and Radiant Heat Systems, without undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

DATE

Endless Pools
 1601 Dutton Mill Road
 Aston, PA 19014



Voice: (800) 732-8660
 Fax: (610) 497-9328

Quotation

Printed on: 04/26/2017

Ship Date: N/A

City Of Brook Park (Pool #1) (Thomas Coyne)
 6161 Engle Rd
 Brookpark, OH, 44142-2197, USA

Account Number: 2283409
 Full Payment Due Within
 10 Days of Finalizing Your Order

Pool Configuration

Commercial Dual Propulsion Endless Pool	\$48,900.00
Commercial Grade Water Quality System	
Chemical Feeder	
High Efficiency Water Circulation Pump	
Electric Heater 4Kw/Controller with Deck Mount Display	
NSF Listed Automatic Surface Skimmer with Float Valve, Equalizer Valve and line & VGB 2008	
Compliant 3.75" dia. Suction Cover	
NSF Listed 75 sf Cartridge Filter	
UL Listed In-Line UV Sanitation System	
Horizontal Clamp-On/Insertion Mount In-Line Flow Meter	
Heavy Duty 60 mil Welded Membrane	
60HZ Power	
3 Phase Power	\$500.00
Low Voltage (190/208/230)	
Width:15 Ft (4.57m) Inside Dimension	\$1,700.00
Length:15 Ft (4.57m) Inside Dimension	\$850.00
54" (51" water depth)	\$2,375.00
Base:Tension Straps with Leveling System	\$200.00
Interior Stairs (3 Tread) (Rear Left)	\$450.00
12 Inch Bench Riser	\$300.00
Skirting Type: Provided Locally	
Bullnose Coping System	\$400.00
Sapphire Return Channels	
Manual Retractable Security Cover (Color: Light Blue)	\$1,395.00
Pool Location:Indoor	
Roller Location:Front Mount	
Cover Mounting Option:Mount on Coping, Skirting, or Other	
Commercial Hydraulic Treadmill	\$9,000.00
Treadmill Pace Display	\$295.00
Hand Rail	\$180.00
Underwater Swim Mirror	\$150.00
2 - Floor Mirror	\$990.00
2 - Digital Swim Pace Display	\$590.00
Main Drains, Wall Mounted (low on panel, beneath underwater return channels), qty 2	\$200.00
Swim Mirror, Attaches to Angled Shroud of Hydraulic Treadmill	\$150.00
Sub-Total:	\$68,625.00
Limited Time Treadmill Discount	-\$3,000.00
Sub-Total:	\$65,625.00

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Repeat Customer Discount - 10% off the total purchase price.	\$-6,562.50
Pre-Tax Total:	\$59,062.50
Sales Tax (excludes shipping charges) (EXEMPT):	\$0.00
Grand Total:	\$59,062.50

Please remit payment to Endless Pools at 1601 Dutton Mill Rd. Aston PA 19014

Endless Pools
1601 Dutton Mill Road
Aston, PA 19014



Voice: (800) 732-8660
Fax: (610) 497-9328

Quotation

Printed on: 04/26/2017

Ship Date: N/A

City Of Brook Park (Pool #2) (Thomas Coyne)
6161 Engle Rd
Brookpark, OH, 44142-2197, USA

Account Number: 2372177

Full Payment Due Within
10 Days of Finalizing Your Order

Pool Configuration

Commercial Dual Propulsion Endless Pool	\$48,900.00
Commercial Grade Water Quality System	
Chemical Feeder	
High Efficiency Water Circulation Pump	
Electric Heater 4Kw/Controller with Deck Mount Display	
NSF Listed Automatic Surface Skimmer with Float Valve, Equalizer Valve and line & VGB 2008	
Compliant 3.75" dia. Suction Cover	
NSF Listed 75 sf Cartridge Filter	
UL Listed In-Line UV Sanitation System	
Horizontal Clamp-On/Insertion Mount In-Line Flow Meter	
Heavy Duty 60 mil Welded Membrane	
60HZ Power	
3 Phase Power	\$500.00
Low Voltage (190/208/230)	
Width:15 Ft (4.57m) Inside Dimension	\$1,700.00
Length:15 Ft (4.57m) Inside Dimension	\$850.00
54" (51" water depth)	\$2,375.00
Base:Tension Straps with Leveling System	\$200.00
Interior Stairs (3 Tread) (Rear Right)	\$450.00
12 Inch Bench Riser	\$300.00
Skirting Type: Provided Locally	
Bullnose Coping System	\$400.00
Sapphire Return Channels	
Manual Retractable Security Cover (Color: Light Blue)	\$1,395.00
Pool Location:Indoor	
Cover Mounting Option:Mount on Coping, Skirting, or Other	
Commercial Hydraulic Treadmill	\$9,000.00
Treadmill Pace Display	\$295.00
Hand Rail	\$180.00
2 - Underwater Swim Mirror	\$300.00
2 - Floor Mirror	\$990.00
2 - Digital Swim Pace Display	\$590.00
Main Drains, Wall Mounted (low on panel, beneath underwater return channels), qty ___	\$200.00
Sub-Total:	\$68,625.00
Limited Time Treadmill Discount	-\$3,000.00
Sub-Total:	\$65,625.00
Repeat Customer Discount - 10% off the total purchase price.	-\$6,562.50
Pre-Tax Total:	\$59,062.50

Sales Tax (excludes shipping charges) (EXEMPT): \$0.00
Grand Total: \$59,062.50

Please remit payment to Endless Pools at 1601 Dutton Mill Rd, Aston PA 19014

P/C 2/7/17 Legislative
Cau 2/14/17 moved to Safety
1st R _____
2nd R _____
3rd R _____
B/C 2/14/17 _____

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: COUNCIL PRESIDENT ASTORINO

AN ORDINANCE
AMENDING SECTION 141.02
OF THE BROOK PARK CODIFIED ORDINANCES
ENTITLED 'COMPOSITION: EXECUTIVE HEAD,'
AND DECLARING AN EMERGENCY

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: Section 141.02 of the Brook Park Codified Ordinances, as enacted by Ordinance No. 2650-1966, passed November 1, 1966, and Ordinance No. 9621-2009, passed October 20, 2009 and reading as follows:

141.02 COMPOSITION; EXECUTIVE HEAD.

a) The Police Department shall consist of a Police Chief and not more than forty-three regular police officers.

(b) There is hereby established within the Police Department one Police Chief, one Police Captain, four Police Sergeants, four Police Lieutenants and a Detective Bureau. Such officers shall be appointed by the Director of Public Safety from the regular full-time membership of the Police Department.

(c) Under the direction of the Mayor, the Director of Public Safety shall be the executive head of the Police Department. He shall have all powers and duties connected with and incident to the appointment, regulation and government of such Department, except as otherwise provided by law

is hereby amended to read:

141.02 COMPOSITION; EXECUTIVE HEAD.

(a) The Police Department shall consist of a Police Chief and not less than thirty-eight regular police officers.

(b) There is hereby established within the Police Department one Police Chief, one Captain, not less than six Police Sergeants and not less than one Police Lieutenant, and a Detective Bureau. Such officers shall be appointed by the Director of Public Safety from the regular full-time membership of the Police Department.

(c) Under the direction of the Mayor, the Director of Public Safety shall be the executive head of the Police Department. He shall have all powers and duties connected with and incident to the appointment, regulation and government of such Department, except as otherwise provided by law.

SECTION 2: Former Section 141.02(a) of the Brook Park Codified Ordinances as enacted by Ordinance No. 2650-1966, passed November 1, 1966 and Ordinance No. 8664-2000, passed October 20, 2009, is hereby expressly repealed.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4 This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason of amending Section 141.02 of the Brook Park Codified Ordinances; therefore, provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS



DIRECTOR OF LAW

DATE

P/C 5/2/17 Service
Cau 5/9/17
1st R
2nd R
3rd R
B/C

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING THE CITY OF BROOK PARK'S PARTICIPATION
IN THE ODOT COOPERATIVE PURCHASING PROGRAM
FOR THE PURCHASE OF ONE PLOW ASSEMBLY FOR A
2018 WESTERN STAR 4700SB TRUCK,
AND DECLARING AN EMERGENCY

WHEREAS, Section 5513.01(B) provides the opportunity for Counties, Townships, Municipal Corporations, Conservancy Districts, Township Park Districts, Park Districts created under Chapter 1545 of the Ohio Revised Code, Port Authorities, Regional Transit Authorities, Regional Airport Authorities, Regional Water and Sewer Districts, County Transit Boards, State Universities or Colleges to participate in contracts of the Ohio Department of Transportation for the purchase of one plow assembly for a 2018 Western Star 4700SB Truck for use in the Service Department; and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor of the City of Brook Park hereby requests authority to participate in the Ohio Department of Transportation contracts for the purchase one plow assembly for a 2018 Western Star 4700SB Truck from Gledhill Road Machinery.

SECTION 2: That the Mayor of the City of Brook Park is hereby authorized to be bound by all terms and conditions as the Director of Transportation prescribes.

SECTION 3: That the Mayor of the City of Brook Park is authorized to directly pay vendors, under each such contract of the Ohio Department of Transportation in which the City of Brook Park participates, for items it receives pursuant to the contract for the purchase of one plow assembly for a 2018 Western Star 4700SB 330HP in the amount of \$9,803.00 and to be paid from the Capital Improvement Fund 401.

SECTION 4: That the City of Brook Park agrees to be responsible for resolving all claims or disputes arising out of its participation in the cooperative purchasing program under Section 5513.01(B) of the Ohio Revised Code. The City of Brook Park

releases and forever discharges the Director of Transportation and the Ohio Department of Transportation from all such claims, actions, expenses, or other damages arising out of its participation in the cooperative purchasing program which the City of Brook Park may have or claim to have against ODOT or its employees, unless such liability is the result of negligence on the part of ODOT or its employees.

SECTION 5: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 6: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to participate in ODOT Cooperative Purchase Program for the purchase of a plow assembly for a 2018 Western Star 4700SB Truck; provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

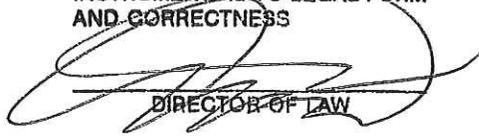
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS


DIRECTOR OF LAW

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT WITH
HENDERSON PRODUCTS, FOR THE PURCHASE OF ONE 2018 DUMP BODY
AND PLOW PACKAGE FOR WESTERN STAR TRUCK
AND DECLARING AN EMERGENCY

WHEREAS, the Mayor has determined that the Service Department for the City is in need of a new dump body and plow package to properly maintain our City streets; and

WHEREAS, the City of Brook Park is a member of the National Joint Powers Alliance ("NJPA") which is an organization that creates national cooperative contract purchasing solutions for its member agencies; and

WHEREAS, Henderson Products is an Ohio truck equipment vendor that has been authorized by the NJPA to provide trucks and truck equipment to NJPA members.

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: Pursuant to Section 7.04(h) of the Charter of the City of Brook Park, the Mayor is authorized to enter into an Agreement with Henderson Products for the purchase of one new 2018 dump body and plow package; a proposal for said truck and equipment is attached hereto and incorporated herein as Exhibit "A."

SECTION 2: The money needed for the aforesaid transaction shall be paid from funds theretofore appropriated or to be appropriated for said purpose; the total amount of the purchase of said dump body and plow is \$57,153.00 and to be paid from the Capital Improvement Fund 401.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this

Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to allow the City to purchase one dump body & plow package; provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

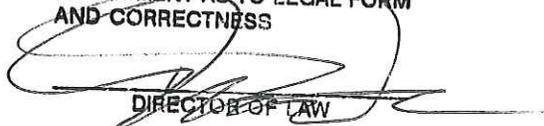
PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS



DIRECTOR OF LAW

DATE



CITY OF BROOKPARK
PLOW TRUCK PACKAGE
NJPA PRINCING

2-1-2017

***HENDERSON PRODUCTS-OH IS PLEASED TO PROVIDE YOU WITH THE
FOLLOWING QUOTE***

*HENDERSON PRODUCTS IS A DIVISION OF HENDERSON MANUFACTURING AND THUS ALLOWS US
THE ABILITY TO FOCUS ON A SPECIFIC PRODUCT LINE, HENDERSON. OUR OHIO FACILITY ONLY
INSTALLS HENDERSON PRODUCTS AND THEREFORE WE ARE ABLE TO OFFER A SUPERIOR
INSTALLATION AND SERVICE TO OUR CUSTOMERS.*

SNOW PLOW HITCH

- HENDERSON MODEL HFF-LP -QCC FRONT FRAME SNOW PLOW HITCH
- HENDERSON QUICK HITCH WITH PIN AND LOOP
- ALL ½" WALLED TUBLAR CONSTRUCTION
- GREASEABLE TOP PIVOT PINS AND DROP PIN
- HENDERSON FULL 5/8" STEEL SIDE PLATES
- 5 POSITION TELESCOPIC LIFT ARM
- SANDBLASTED AND PRIMED

DUMP BODY

- HENDERSON 11' STAINLESS STEEL DUMP BODY
- CROSSMEMBERLESS-UNIBODY DESIGN
- 7GA. 2B STAINLESS STEEL
- SLOPED LOWER DIRT SHEDDING RUB RAIL.
- 11' LONG
- 7' WIDTH
- 36" SIDES
- 44 " AIR TAILGATE
- (3) HORIZONTAL BRACES ON TAILGATE
- GREASEABLE TAILGATE JAWS AND LINKAGES
- ¼" AR400 STEEL FLOOR 200,000 PSI
- SLOPED BOX TOP RAIL
- (2) HORIZONTAL VEE CRIMP SIDE BRACES
- (1) COAL DOOR IN TAILGATE
- 8" REAR APRON
- FULL DEPTH REAR CORNER POST
- 4" SIDE TO FLOOR RADIUS
- ONE PIECE FRONT CORNER POST
- 22" X 86" FULLY WELDED
- WALK RAILS/STEP OVER LADDER
- STAINLESS STEEL FOLD OUT LADDER
- ALL LED FMVSS # 108 MARKER LIGHTS
- INSTALLED AND NOT PAINTED



HOIST

- HENDERSON MODEL CS FRONT TELESCOPIC MAILHOT HOIST
- 29 TON CAPACITY
- 12" DOGHOUSE IN-FRONT OF BODY
- 9" MOUNTING HEIGHT
- FULL DOUBLE ACTING HOIST
- GREASEABLE REAR PINS
- INSTALLED
- BODY AND HOIST INSTALLED 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS

HENDERSON FSH2 V-HOPPER

- 11' LONG
- 56" HIGH SIDES
- 7GA. STAINLESS STEEL CONSTRUCTION
- DUAL AUGER
- TOP GRATE SCREENS
- FRONT BEARING GREASE TUBES EXTENDED TO REAR
- INVERTED VEE
- TILT UP SPINNER CHUTE
- DUMP BODY HOLD DOWN KIT
- TRUNNION LATCH KIT
- INSTALLED

CENTRAL HYDRAULIC SYSTEM

- CERTIFIED POWER-STORMGUARD/LOAD SENSING SYSTEM
- DANFOSS TRANSMISSION MOUNT PUMP AND WET SPLINE PTO
- DANFOSS MODEL PVG 32 CONTROL VALVE
CONTROL VALVE TO RUN BODY/SNOW PLOW/SPREADER
- STORMGUARD CUSTOM STAND MODEL MULTIGUARD WITH CABLE CONTROL HANDLES
- HENDERSON STEEL FLOOR PLATE
- DUAL KNOB MANUAL SPREADER CONTROL SYSTEM
- HENDERSON 30-GALLON STEEL OIL RESERVOIR
- ALL WEATHERHEAD "RHINO-GUARD" HOSES AND FITTING WITH STAINLESS STEEL QUICK COUPLERS
- ALL PRESSURE HOSES SAE 100R2
- ALL FITTING JIC STYLE
- MID-STATE STAINLESS STEEL REAR TUBES FOR SPREADER
- MID-STATE STAINLESS STEEL FRONT TUBES FOR PLOW OPERATION
- INSTALLED 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS

MISC EQUIPMENT

- MUD FLAPS IN FRONT AND BEHIND REAR AXLE
- PLOWS LIGHTS MOUNTED TO HOOD ON STAINLESS STEEL BRACKETS
- BODY UP LIGHT

- POWER PANEL MOUNTED TO BACK OF CAB
- 8 AMBER LED STROBES MOUNTED IN BODY
- UNDER COATED TRUCK FRAME AND BODY

INSTALLATION AND WARRANTY

- **2 FULL YEAR WARRANTY ON ALL EQUIPMENT**
- ALL MOUNTING TO BE 100% TO YOUR SPECIFICATIONS-NO EXCEPTIONS
- PRE-BUILD MEETING AT OUR FACILITY REQUIRED PRIOR TO START OF BUILD
- HENDERSON TRUCK EQUIPMENT WILL HANDLE ALL TRANSPORTATION AND REPAIRS TO VEHICLE FOR WARRANTY AND SERVICE WORK IN A TIMELY MANNER
- ALL EQUIPMENT WILL BE INSTALLED BY A SINGLE BODY COMPANY BY OUR EMPLOYEES AT OUR FACILITY.
- ALL EQUIPMENT IS ENGINEERED BY A SINGLE MANUFACTURER, HENDERSON PRODUCTS INC.
- INSTALLATION OF COMPONENTS WILL NOT BE SUBCONTRACTED BY THE BODY COMPANY TO OTHERS
- NO WELDING TO BE DONE ON CHASSIS FRAME BETWEEN FRONT OF MOST FORWARD SPRING HANGER AND REAR OF REARMOST SPRING HANGER.
- COPY OF CENTRAL HYDRAULIC SYSTEM SCHEMATIC WILL BE FURNISHED UPON COMPLETION
- COPY OF WIRING SCHEMATIC WILL BE FURNISHED UPON COMPLETION
- PARTS AND SERVICE MANUALS FOR ALL COMPONENTS WILL BE FURNISHED UPON COMPLETION
- VEHICLE TO BE CERTIFIED TO MEET ALL FEDERAL MOTOR VEHICLE SAFETY STANDARDS
- HENDERSON TO CONDUCT OPERATOR TRAINING SESSION AT YOUR FACILITY AFTER DELIVERY OF COMPLETED TRUCK
- SNOW AND ICE CONTROL REFERENCES AVAILABLE UPON REQUEST

FULL PACKAGE INSTALLED \$57,153.00 NET YOUR COST

**HENDERSON PRODUCTS-OHIO
COLLIN SCHIFER-OHIO SALES REP**

CONTRACT ACCEPTANCE: _____ DATE: _____

TITLE: _____ PURCHASE ORDER #: _____



**HENDERSON PRODUCTS – OH
NJPA CONTRACT HOLDER/CONTRACT #080114-HPI**

• PH: 419-617-7509 • FAX: 563-927-7002 • hendersonproducts.com

Prepared for:
John Pensis
City of Brook Park -- ODOT CO-
OP Purchasing
19065 Holland Road
Brook Park, OH 44142
Phone: 440-227-4159

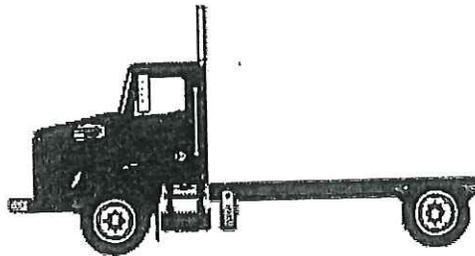
Prepared by:
Dave Hibner
KINSTLE WESTERN STAR
TRUCK CENTER
1770 WAPAK FISHER RD.
WAPAKONETA, OH 45895
Phone: 419-738-9684

A proposal for
City of Brook Park -- ODOT CO-OP Purchasing

Prepared by
KINSTLE WESTERN STAR TRUCK CENTER
Dave Hibner

Apr 04, 2017

Western Star 4700SB



Components shown may not reflect all spec'd options and are not to scale

Prepared for:
 John Pensis
 City of Brook Park -- ODOT CO-
 OP Purchasing
 19065 Holland Road
 Brook Park, OH 44142
 Phone: 440-227-4159

Prepared by:
 Dave Hibner
 KINSTLE WESTERN STAR
 TRUCK CENTER
 1770 WAPAK FISHER RD.
 WAPAKONETA, OH 45895
 Phone: 419-738-9884

S P E C I F I C A T I O N P R O P O S A L

	Weight Front	Weight Rear
Price Level		
WESTERN STAR 4700 PRL-15T (EFF:10/25/16)		
Data Version		
SPECPRO21 DATA RELEASE VER 018		
Vehicle Configuration		
4700 SET-BACK FRONT AXLE CHASSIS	9,215	8,630
2018 MODEL YEAR SPECIFIED		
SET BACK AXLE - TRUCK		
STRAIGHT TRUCK PROVISION		
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK CONFIGURATION		
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
CONSTRUCTION SERVICE		
GOVERNMENT BUSINESS SEGMENT		
DIRT/SAND/ROCK COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
WESTERN STAR VOCATIONAL WARRANTY		
EXPECTED FRONT AXLE(S) LOAD : 14700.0 lbs		
EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 37700.0 lbs		
Truck Service		
FRONT PLOW/END DUMP BODY		



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Prepared by:
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 KINSTLE WESTERN STAR
 TRUCK CENTER
 1770 WAPAK FISHER RD.
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 Phone: 419-738-9684

Description	Weight Front	Weight Rear
EXPECTED TRUCK BODY LENGTH : 11.0 ft		
Engine		
CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM	-850	-70
Electronic Parameters		
75 MPH ROAD SPEED LIMIT		
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
PTO MINIMUM RPM - 700		
REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine/Equipment		
2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
STANDARD OIL PAN		
ENGINE MOUNTED OIL CHECK AND FILL		
ONE PIECE VALVE COVER		
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10	
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
(3) ALLIANCE ABSORBED GLASS MAT MODEL 7A31, GROUP 31, 12 VOLT MAINTENANCE FREE 2190 CCA THREADED STUD BATTERIES		
PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB		
BATTERY BOX MOUNTED UNDER PASSENGER SEAT		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
PLASTIC BATTERY BOX COVER		



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Description	Weight Front	Weight Rear
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE AIR COMPRESSOR DISCHARGE LINE		
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM		
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE		
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
6 GALLON DIESEL EXHAUST FLUID TANK 100 PERCENT DIESEL EXHAUST FLUID FILL STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
CUMMINS SPIN ON FUEL FILTER		
COMBINATION FULL FLOW/BYPASS OIL FILTER		
1300 SQUARE INCH ALUMINUM RADIATOR MOUNTING FOR FIREWALL MOUNTED SURGE TANK	-20	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		



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Description	Weight Front	Weight Rear
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
RADIATOR DRAIN VALVE		
NO RADIATOR/OIL PAN GUARD	-5	
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
NO OIL PREHEATER		
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ALUMINUM FLYWHEEL HOUSING		
ELECTRIC GRID AIR INTAKE WARMER		
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10	
Transmission		
ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-110	-35
Transmission Equipment		
ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
S2 PERFORMANCE 2 SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		



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Description	Weight Front	Weight Rear
LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
MAXIMUM ENGINE SPEED FOR PTO OPERATION 3000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
MAXIMUM OUTPUT SPEED FOR PTO ENGAGEMENT 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
MAXIMUM OUTPUT SPEED FOR PTO OPERATION 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
150 AMP SERVICE FOR BODY BUILDER INSTALLED COMPONENTS		
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR, BLUNT CUT, MOUNTED BETWEEN DRIVER AND PASSENGER SEATS		
CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
PUSH BUTTON ELECTRONIC SHIFT CONTROL DASH MOUNTED		
TRANSMISSION PROGNOSTICS - ENABLED 2013		
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

MFS-14-143A 14,700# FF1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	-130
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	-10
NON-ASBESTOS FRONT BRAKE LINING	
CONMET CAST IRON FRONT BRAKE DRUMS	
SKF SCOTSEAL PLUS XL FRONT OIL SEALS	
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	



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Description	Weight Front	Weight Rear
STANDARD SPINDLE NUTS FOR ALL AXLES		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
STANDARD KING PIN BUSHINGS		
TRW TAS-85 POWER STEERING POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR	5	
SYNTHETIC 50W FRONT AXLE LUBE		
Front Suspension:		
16,000# FLAT LEAF FRONT SUSPENSION		
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		-2,310
6.14 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-60	-60
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
INDICATOR LIGHT FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH		
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS REAR BRAKE LINING		
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
CONMET CAST IRON REAR BRAKE DRUMS		5
REAR BRAKE DUST SHIELDS		
SKF SCOTSEAL PLUS XL REAR OIL SEALS		
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20
MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
SYNTHETIC 75W-90 REAR AXLE LUBE		



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Description	Weight Front	Weight Rear
Rear Suspension		
30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		150
SPRING SUSPENSION - NO AXLE SPACERS		
STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
FORE/AFT CONTROL RODS		
Brake System		
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
FIBER BRAID PARKING BRAKE HOSE		
STANDARD BRAKE SYSTEM VALVES		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER		
WABCO OIL COALESCING FILTER FOR AIR DRYER		
AIR DRYER MOUNTED INBOARD ON LH RAIL		
STEEL AIR TANKS MOUNTED BELOW FRAME RAILS	5	5
PETCOCK DRAIN VALVES ON ALL AIR TANK(S)		
Wheelbase & Frame		
4050MM (159 INCH) WHEELBASE		
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI		
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	195	-5
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
1275MM (50 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 41 INCH TO 50 INCH	10	-80
12 INCH INTEGRAL FRONT FRAME EXTENSION	95	-10
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 95.69 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 92.69 in		



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Description	Weight Front	Weight Rear
CALC'D FRAME LENGTH - OVERALL : 266.6		
CALC'D SPACE AVAILABLE FOR DECKPLATE : 95.69 In		
CALCULATED FRAME SPACE LH SIDE : 58.22 In		
CALCULATED FRAME SPACE RH SIDE : 126.8 In		
SQUARE END OF FRAME		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
Chassis Equipment		
14 INCH CHROMED STEEL BUMPER		
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS		
GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
NO SPECIFIED HARNESS COVERING		
Fuel Tanks		
60 GALLON/227 LITER ALUMINUM FUEL TANK - LH		
25 INCH DIAMETER FUEL TANK(S)		
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
DAVCO 245 FUEL/WATER SEPARATOR WITH 12 VOLT HEAT AND WATER IN FUEL SENSOR	20	
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
NO FUEL COOLER	-10	
Tires		
CONTINENTAL HSC1 12R22.5 16 PLY RADIAL FRONT TIRES	50	



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Description	Weight Front	Weight Rear
CONTINENTAL HDC1 11R22.5 16 PLY RADIAL REAR TIRES		68
Hubs:		
CONMET PRESET PLUS IRON FRONT HUBS		
CONMET PRESET PLUS IRON REAR HUBS		
Wheels		
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66	
MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		30
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
Cab/Exterior		
110 INCH BBC STEEL CONVENTIONAL CAB		
WESTERN STAR PAINTED ALUMINUM CAB SKIRT		
AIR CAB MOUNTS WITH CHECK VALVE		
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDERS		
2 INCH FENDER EXTENSIONS	5	
LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST		
STATIONARY BRIGHT FINISH GRILLE		
CHROME HOOD MOUNTED AIR INTAKE GRILLE		
GALVANEALD STEEL SEVERE SERVICE CAB		
FIBERGLASS HOOD		
DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB		
DUAL ELECTRIC HORNS		
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER D420		
SINGLE RECTANGULAR SEALED BEAM HEADLIGHTS WITH BRIGHT BEZELS		
(5) AMBER MARKER LIGHTS		
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH SINGLE CONNECTION AT LH FORWARD		
INTEGRAL STOP/TAIL/BACKUP LIGHTS		
STANDARD FRONT TURN SIGNAL LAMPS		



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Description	Weight Front	Weight Rear
DUAL STAINLESS STEEL HEATED MIRRORS WITH LIGHTS		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		
LH AND RH SUREPLUS 574 8 INCH BRIGHT FINISH HEATED CONVEX MIRRORS WITH SEPARATE ADJUSTMENT, MOUNTED BELOW MIRROR		
RH DOWN VIEW MIRROR		
STANDARD SIDE/REAR REFLECTORS		
17.5X35 INCH TINTED REAR WINDOW		
TINTED DOOR GLASS		
RH AND LH ELECTRIC POWERED WINDOWS	4	
2-PIECE TINTED CURVED BONDED WINDSHIELD		
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL		

Cab Interior

GRAY VINYL BASE INTERIOR
 BLACK HARD TRIM
 BASE LEFT HAND DOOR TRIM
 BASE RIGHT HAND DOOR TRIM
 BLACK MATS WITH SINGLE INSULATION
 DASH MOUNTED ASH TRAY AND LIGHTER, DRIVER SIDE
 FORWARD ROOF MOUNTED CONSOLE
 PASSENGER SIDE WING DASH MOUNTED GLOVE BOX WITH LOCKING DOOR
 LH AND RH DOOR MAP POCKETS
 COAT HOOK ON RH BACKWALL OF CAB
 (1) CUP HOLDER MOUNTED IN BOTTOM CENTER OF DASH
 TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER
 STANDARD WIRING
 2-1/2 LB. FIRE EXTINGUISHER MOUNTED OUTBOARD OF DRIVER SEAT
 HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT OUTLET TEMPERATURE CONTROL

5



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Description	Weight Front	Weight Rear
HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER AND OUTSIDE PRE-FILTER		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES		
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
CAB INSULATION		
AUTOMATIC SELF-RESET CIRCUIT BREAKER IN MAIN DASH POWER DISTRIBUTION BOX AND CIRCUIT BREAKER/FUSE IN AUXILIARY POWER DISTRIBUTION BOXES		
DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS		
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB	10	
BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT		
BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT		
INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST	2	
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
2-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL(S)		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls



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Description	Weight Front	Weight Rear
NON-ADJUSTABLE SUSPENDED PEDALS		
STAR GAUGES WITH BLACK BEZELS		
ROYAL ROSEWOOD MATTE FINISH DRIVER INSTRUMENT PANEL		
ROSEWOOD VINYL MATTE FINISH CENTER INSTRUMENT PANEL INSERT		
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
CRUISE CONTROL SWITCHES IN THE CENTER PANEL		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
WARNING LAMP/LIGHT BAR DISPLAY, NON-DATA LINKED		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10	
ROOF/OVERHEAD CONSOLE MOUNTED RADIO (4) RADIO SPEAKERS IN CAB		
POWER AND GROUND WIRING FOR CB RADIO IN OVERHEAD CONSOLE		
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER		
STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS		



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Description	Weight Front	Weight Rear
ELECTRONIC 3000 RPM TACHOMETER NO VEHICLE PERFORMANCE MONITOR NO DETROIT CONNECT SERVICES SELECTED NO ZONAR SERVICES SELECTED IGNITION SWITCH CONTROLLED ENGINE STOP 2 INCH TURBO AIR PRESSURE GAUGE 2 INCH VOLTMETER SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES CAB MARKER LIGHT AND HEADLIGHT SWITCH WITH SEPARATE SWITCH AND TERMINALS FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR SELF CANCELING TURN SIGNAL SWITCH WITH INTEGRAL HEADLAMP DIMMER WITH BRAKE OVERRIDE PACIFIC INSIGHT ELECTRONIC FLASHER		

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L2225EB CANDY APPLE RED
 ELITE BC
 CAB INTERIOR PAINTED SAME AS CAB COLOR
 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
 PAINT
 POWDER WHITE (N0006EA) FRONT
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
 POWDER WHITE (N0006EA) REAR
 WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES
 CABS AND GLIDER KITS

Secondary Factory Options

NO PDI INSTALLED GRILLE/HOOD TRIM
 DEALER HAS BEEN ADVISED OF AND
 ACCEPTED RESPONSIBILITY FOR
 MODIFICATIONS DUE TO POSSIBLE
 PTO/CHASSIS INTERFERENCE

TOTAL VEHICLE SUMMARY



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Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8534 lbs	4324 lbs	12858 lbs
Total Weight⁺	8534 lbs	4324 lbs	12858 lbs

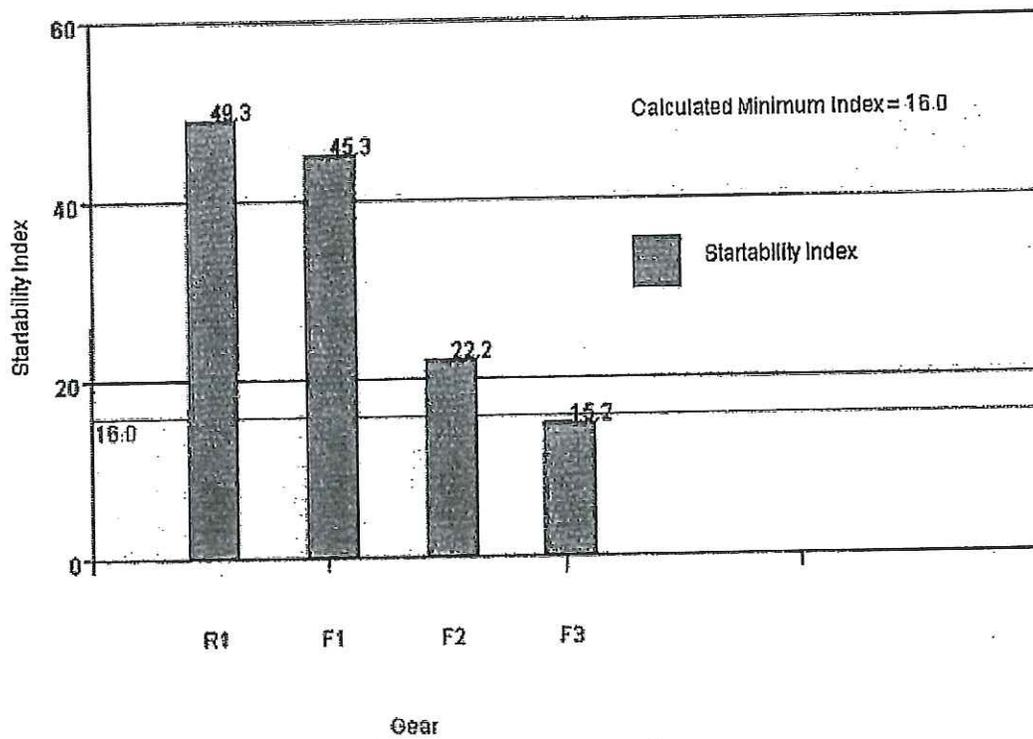
(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.



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STARTABILITY



VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY

Model	4700SB
Cab Size (829)	110 INCH BBC STEEL CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	14700.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	23000.0



Prepared for:
 John Pensis
 City of Brook Park – ODOT CO-
 OP Purchasing
 19065 Holland Road
 Brook Park, OH 44142
 Phone: 440-227-4159

Prepared by:
 Dave Hibner
 KINSTLE WESTERN STAR
 TRUCK CENTER
 1770 WAPAK FISHER RD.
 WAPAKONETA, OH 45895
 Phone: 419-738-9684

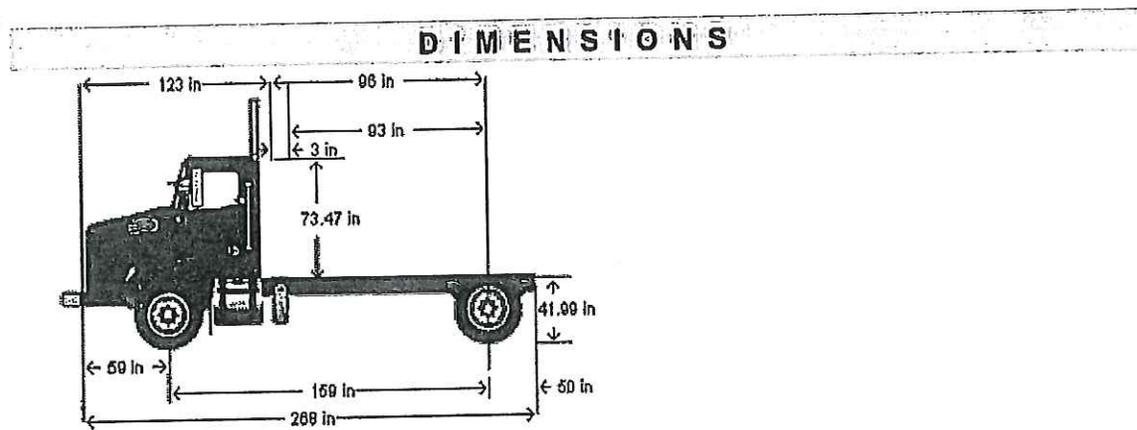
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	37700
Expected GCW (lbs).....	0.0
Engine (101).....	CUM I9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft).....	500
Transmission (342).....	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1.....	4.59
Gear Ratio: Forward 2.....	2.25
Gear Ratio: Forward 3.....	1.54
Gear Ratio: Reverse 1.....	5
Gear Ratio: Reverse 2.....	N/A
Gear Ratio: Reverse 3.....	N/A
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Transfer Case (373).....	NO TRANSFER CASE
Low Gear Ratio.....	N/A
High Gear Ratio.....	N/A
Rear Axle (420).....	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	6.14 REAR AXLE RATIO
Rear Tires (094).....	CONTINENTAL HDC1 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile.....	488
Vehicle Service (A85).....	CONSTRUCTION SERVICE
Startability Factor.....	8
Terrain (AA5).....	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor.....	0
Most Severe Grade Expected (AB1).....	MAXIMUM 8% EXPECTED GRADE
Startability Factor.....	8
Road Surface (AB5) SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Startability Factor.....	0
Suggested Torque Converter Stall Ratio.....	1.77

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	4700SB
Wheelbase (545)	4050MM (159 INCH) WHEELBASE
Rear Frame Overhang (552)	1275MM (50 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	110 INCH BBC STEEL CONVENTIONAL CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL, AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS



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Dimensions	Inches
Bumper to Back of Cab (BBC)	122.7
Bumper to Centerline of Front Axle (BA)	59.4
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	95.7
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	92.7
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	145.7
Cab Height (CH)	73.5
Wheelbase (WB)	159.0
Frame Overhang (OH)	50.0
Overall Length (OAL)	268.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.0

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545).....4050MM (159 INCH) WHEELBASE
 Frame Rails (546).....1 1/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/D.344X10.94 INCH) 120KSI(546)
 Yield Strength (psi).....120000
 Section Modulus (per rail) (cu in).....16.979
 RBM (per rail) (bf-in).....2037600
 Inner Frame Reinforcement (547).....PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
 Outer Frame Reinforcement (548) ..BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW
 PLOW

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4050MM (159 INCH) WHEELBASE
Frame	1 1/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/D.344X10.94 INCH) 120KSI
Inner Frame Reinforcement	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
Outer Frame Reinforcement	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	16.98
Frame RBM - per rail (bf-in)	2037600

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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QUOTATION

4700 SET-BACK FRONT AXLE CHASSIS

SET BACK AXLE - TRUCK
 CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000
 LB/FT @ 1400 RPM
 ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH
 PTO PROVISION
 RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH
 HELPER AND RADIUS ROD
 MFS-14-143A 14,700# FF1 71.5 INCH KPI/3.74 INCH
 DROP SINGLE FRONT AXLE

16,000# FLAT LEAF FRONT SUSPENSION
 110 INCH BBC STEEL CONVENTIONAL CAB
 4050MM (159 INCH) WHEELBASE
 11/32X3-1/2X10-15/16 INCH STEEL FRAME
 (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
 1275MM (50 INCH) REAR FRAME OVERHANG
 PARTIAL INNER FRAME REINFORCEMENT AT FRONT
 SUSPENSION
 BODY COMPANY INSTALLED ADDITIONAL FRONT
 FRAME REINFORCEMENT FOR SNOW FLOW

	TOTAL # OF UNITS (1)	PER UNIT	TOTAL
VEHICLE PRICE	\$	81,309	\$ 81,309
EXTENDED WARRANTY	\$	0	\$ 0
DEALER INSTALLED OPTIONS	\$	0	\$ 0
CUSTOMER PRICE BEFORE TAX	\$	81,309	\$ 81,309

TAXES AND FEES

TAXES AND FEES	\$	75	\$ 75
OTHER CHARGES	\$	0	\$ 0

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$ (0)
--------------------	----	-----	--------

BALANCE DUE (LOCAL CURRENCY) \$ 81,384 \$ 81,384

COMMENTS:

Projected delivery on ___/___/___ provided the order is received before ___/___/___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___/___/___

Daimler Truck Financial
 Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtifoffers.com.
 Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.



CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING THE CITY OF BROOK PARK'S PARTICIPATION
IN THE STATE OF OHIO PURCHASING PROGRAM,
FOR THE PURCHASE OF ONE SEWER VACTOR TRUCK WITH
A TRADE-IN OF A 2007 VACTOR TRUCK,
AND DECLARING AN EMERGENCY

WHEREAS, Section 125.04(B) of the Ohio Revised Code provides the opportunity for political subdivisions in the State of Ohio to participate in contracts of the Ohio Department of Administrative Services for the purchase one sewer vactor truck with a combination sewer cleaner mounted on a Western Star series tandem axle cab and chassis with a trade-in of one 2007 vactor truck;

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Mayor is hereby requests authority, in the name of the City of Brook Park to participate in the Ohio Department of Administrative Services contract for the purchase of one sewer vactor truck. Specifically the City of Brook Park requests authority to purchase said vehicle.

SECTION 2: The Mayor of the City of Brook Park is hereby authorized to be bound by all terms and conditions as the Department of Administrative Services prescribes, and as further evidenced in the attachment "A" attached hereto and incorporated herein.

SECTION 3: The Mayor of the City of Brook Park is authorized to directly pay vendors, under each such contract of the Ohio Department of Administrative Services in which the City of Brook Park participates, for items it receives pursuant to the contract.

SECTION 4: The money needed for the aforesaid transaction shall be paid from funds theretofore appropriated or to be

appropriated for said purpose from fund nos. 401 and 429 Capital.

SECTION 5: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 6: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to allow the City to participate in the Ohio Department of Administrative Services in purchasing one sewer vactor truck with combination sewer cleaner mounted on a Western Star Series tandem axle cab and chassis; therefore this Ordinance shall take effect and be in force immediately from and after its passage and approval by the Mayor.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS



DIRECTOR OF LAW

DATE



777 DOHENY COURT
 PO BOX 609
 NORTHVILLE MI 48167
 t 248.349.0904
 f 248.349.2774

To: City of Brook Park
 19065 Holland Road
 Brook Park, OH 44142
 Attn: John Pensis
 Email: jpensis@cityofbrookpark.com

Date: April 11, 2017

Phone: 216-433-7193

We are pleased to submit a quotation for the equipment listed below.

One (1) Vactor Manufacturing Model 2115 "Plus Combination Sewer Cleaner mounted on a Western Star series tandem axle cab & chassis,

Per the State of Ohio Department of Administrative Services State Term Schedule Number #800228

Sale Price per State Term Schedule.....	\$323,489.00
Sale Price including 3% STS Discount.....	\$313,784.33
Options Price per State Term Schedule.....	\$ 88,014.00
Options Price including 3% STS Discount.....	\$ 85,373.58
Total Sale Price.....	\$399,157.91
Trade-In of 2007 Vactor 2115	(\$55,000.00)
Total Net Sale Price.....	\$344,157.91
Street Flusher system with 2 front mounted spray nozzles.....	N/C
5-Year lease/purchase with annual payments in advance.....	\$ 73,234.61
6-Year lease/purchase with annual payments in advance.....	\$ 61,969.44
7-Year lease/purchase with annual payments in advance.....	\$ 53,930.86

Interest Rate is 3.13%

Can be higher or lower depending on date of lease application

This quotation becomes a contract for payment and delivery of the merchandise listed above only when signed by the customer or one of its officers.

Customer: _____

By: _____

Date: _____

Karl M. Dickinson
 Karl M. Dickinson
 Jack Doheny Supplies Ohio, Inc.

W W W . D O H E N Y E X H I B I T M P A N I E S . C O M





Dealer: Jack Doheny Companies
 Customer: City of Brook Park
 Date: 4/11/2017

Discount 3%

Qty	Option Number	Description	List Price	List Price of Selected Options
-----	---------------	-------------	------------	--------------------------------

Base Model:

	2110CB	2110 Catch Basin Cleaner (CB Unit) mounted on a 46,000 GVW single axle cab and chassis with a 370 HP min. diesel engine and a 3000 series Allison automatic transmission	\$ 261,976	\$ -
	2115CB	2115 Catch Basin Cleaner (CB Unit) mounted on a 66,000 GVW tandem axle cab and chassis with a 370 HP min. diesel engine and a 3000 series Allison automatic transmission	\$ 284,284	\$ -
	2110P	2110 Combination Sewer Cleaner mounted a 46,000 GVW single axle cab and chassis with a 370 HP min. diesel engine and a 3000 series Allison automatic transmission	\$ 301,181	\$ -
1	2115P	2115 Combination Sewer Cleaner mounted a 66,000 GVW tandem axle cab and chassis with a 370 HP min. diesel engine and a 3000 series Allison automatic transmission	\$ 323,489	\$ 323,489

Debris Body Options:

1	020PSTD	Double Acting Hoist Cylinder	STD	\$ -
1	026PSTD	Ex-Ten Steel Cylindrical Debris Tank	STD	\$ -
1	045PSTD	Suction Tube Storage - 4 Pipe	STD	\$ -
1	1001PSTD	Flat Rear Door w/Hydraulic Locks	STD	\$ -
1	1005PSTD	Dual Stainless Steel Float Shut Off System	STD	\$ -
1	1024PSTD	Debris Body Vacuum Relief System	STD	\$ -
1	1031PSTD	Debris Deflector Plate	STD	\$ -
1	1032PSTD	48" Dump Height	STD	\$ -
1	1033PSTD	60" Dump Height	STD	\$ -
1	2023PSTD	Liquid Float Level Indicator	STD	\$ -
1	1003P	Debris Body Washout	\$ 1,430	\$ 1,430
	1003PB	Rear Door Valve Flushout	\$ 405	\$ -
	1004P	Debris Body Load Limit Alarm tied to Body Vac Relief	\$ 1,969	\$ -
	1004PB	Onboard Electronic/Digital Scale & Vacuum Relief	\$ 12,211	\$ -
	1005PA	S.S Float Ball Cage for Float Shut Off System	\$ 540	\$ -
1	1007P	6" Rear Door Butterfly Valve, 3:00 position	\$ 784	\$ 784
	1007PA	6" Door Butterfly Valve w/Port & Fixed Basket Screen, 6:00	\$ 1,010	\$ -

Vactor Manufacturing, Inc
2016 State of Ohio Department of Administrative Services State Term Schedule

	1008P	6" Rear Door Knife Valve w/Camloc, 3:00 position	\$ 1,175	\$ -
	1008PA	6" Door Knife Valve, Camloc, Port Basket Screen, 6:00	\$ 1,402	\$ -
	1008PB	6" Rear Door Drain Port w/Fixed Basket Screen, 6:00	\$ 557	\$ -
	1008PC	Standpipe and Screen for 6:00 Port	\$ 990	\$ -
	1008PE	6" Rear Door Knife Valve w/Camlock, Air Actuated, 3:00	\$ 1,789	\$ -
	1008PF	6" Door Knife Valve, Camlock, Air Actuated & Basket Screen, 6:00	\$ 2,015	\$ -
	1009P	Internally Mounted Trash Pump w/Screen	\$ 10,362	\$ -
	1009PA	Externally Mounted Trash Pump w/Floating Arm	\$ 11,133	\$ -
	1009PB	Internal Body Screen with Pump Off Ports Only	\$ 659	\$ -
	1009PD	Full Rear Door Swinging Screen	\$ 749	\$ -
	1010P	Pump Off Plumbing to Front	\$ 2,831	\$ -
	1010PA	Pump Off Ports Only	\$ 551	\$ -
	1010PB	Pump Off Ports and Programming	\$ 2,298	\$ -
	1010PC	Pump Off Plumbing to Back of Cab	\$ 2,831	\$ -
	1011P	Gravity Drain Plumbed to Front	\$ 2,870	\$ -
	1011PC	Gravity Drain Plumbed to Back of Cab	\$ 2,870	\$ -
	1012P	6" Decant System w/Knife Valve, Curbside	\$ 2,206	\$ -
	1012PA	6" Decant System w/Knife Valve, Streetside	\$ 2,206	\$ -
	1013P	Additional Water, Water and Debris Tanks Joined	\$ 2,298	\$ -
1	1014P	Centrifugal Separators (Cyclones)	\$ 5,001	\$ 5,001
	1014PA	Upgrade to Stainless Steel Cyclones	\$ 1,449	\$ -
1	Special	CYCLONE FLUSHOUT	\$ 400	\$ 400
1	1015P	Folding Pipe Rack, Curbside	\$ 992	\$ 992
	1015PH	Folding Pipe Rack, Curbside, Hydraulic	\$ 1,871	\$ -
1	1015PA	Folding Pipe Rack, Streetside	\$ 992	\$ 992
	1015PAH	Folding Pipe Rack, Streetside, Hydraulic	\$ 1,871	\$ -
	1015PB	Folding Pipe Rack, Rear Door	\$ 992	\$ -
	1015PBH	Folding Pipe Rack, Rear Door, Hydraulic	\$ 1,871	\$ -
1	1022P	Rear Door Splash Shield	\$ 1,457	\$ 1,457
1	1023P	Lube Manifold	\$ 2,162	\$ 2,162
	1023PA	Plastic Lube Chart	\$ 59	\$ -
	1030P	Debris Body Inspection Port w/Ladder	\$ 1,192	\$ -
	1041P	Body-Up Alarm	\$ 864	\$ -

Boom and Blower Options:

	Vacuum System	Single Engine Single Stage Fan	STD	\$ -
1	Vacuum System	Single Engine Dual Stage Fan	\$ 17,500	\$ 17,500
	Vacuum System	Positive Displacement Blower	\$ 9,900	\$ -
	Vacuum System	Positive Displacement Blower HD	\$ 16,000	\$ -
	Vacuum System	Positive Displacement Blower SD*	\$ 36,000	\$ -
	Comment	<i>*May effect debris body capacity and requires additional 425 HP option</i>		
1	014PSTD	Electric/Hydraulic Four Way Boom	STD	\$ -
1	016PSTD	Color Coded Sealed Electrical System	STD	\$ -
1	018PSTD	Remote Pendant Control With 35' Cord	STD	\$ -
1	019PSTD	Vansco Electronic Package	STD	\$ -
1	1016PSTD	SS Microstrainer Prior to Blower	STD	\$ -

Vactor Manufacturing, Inc

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1	4000PSTD	180 deg. Non-Extending Boom	STD	\$ -
1	4010PSTD	Boom Hose Storage, Post	STD	\$ -
1	6017PSTD	Hydraulic Shutoff Valves	STD	\$ -
1	7006PSTD	Tachometer & Hourmeter for Centrifugal Compressor	STD	\$ -
1	7007PSTD	Tachometer & Hourmeter/Blower	STD	\$ -
1	S390ASTD	8" Vacuum Pipe Package	STD	\$ -
	3015PA	Hot Shift Blower Drive	\$ 3,000	\$ -
	3017P	Blower High Temp Safety Shutdown	\$ 505	\$ -
	4003P	180 deg. 8ft Extendable Boom	\$ 9,229	\$ -
	4014P	180 deg. 5 x 5 Extendable/Telescoping Boom	\$ 17,000	\$ -
1	4015P	180 deg. 10ft Telescoping Boom	\$ 14,619	\$ 14,619
	4006P	Front Joystick Boom Control	\$ 755	\$ -
	4008P	Grate Lifting Hook, Installed on Boom	\$ 297	\$ -
	4009P	Water Ring Assembly, At Hose End	\$ 781	\$ -
	4009PA	Water Ring Assembly, At Debris Body Inlet	\$ 781	\$ -
1	4011PB	Bellypack Wireless Controls	\$ 2,945	\$ 2,945
	4013P	Rotatable Boom Inlet Hose, Extendable Boom	\$ 551	\$ -
1	4013P	Rotatable Boom Inlet Hose, Telescoping Boom	\$ 551	\$ 551
	4013PA	Rotatable Boom Inlet Hose, 5 x 5 Boom	\$ 852	\$ -
	4022PSTD	Telescopic Boom Elbow, Standard	STD	\$ -
	4022PD	Telescopic Boom Elbow, Nickel Plated - EXTENDED LIFE	\$ 381	\$ -
1	5023P	Fan Flushout System	\$ 486	\$ 486

Water System Options:

	2014PSTD	1000 Gallons STD (5 yrd)	STD	\$ -
	2019PSTD	600 Gallons STD (Single Axle)- CATCH BASIN ONLY	STD	\$ -
	2019PASTD	900 Gallons STD (Tandem Axle)- CATCH BASIN ONLY	STD	\$ -
	2015PSTD	1300 Gal Water Total (15 yrd)	STD	\$ -
	2018P	Additional Water, 1500 Gal Total (10 yrd)	\$ 3,877	\$ -
1	2017P	Additional Water, 1500 Gal Total (15 yrd)	\$ 1,295	\$ 1,295
	5000P	40 GPM/2500 PSI	STD	\$ -
	5003P	50 GPM/3000 PSI	STD	\$ -
	5001PA	60 GPM/2500 PSI	STD	\$ -
	5003PA	70 GPM/3000 PSI	STD	\$ -
	5002P	80 GPM/2000 PSI	STD	\$ -
1	5002PA	80 GPM/2500 PSI	STD	\$ -
	5004PB	100 GPM/2000 PSI	\$ 2,049	\$ -
	5005PSTD	10 GPM/ 700 PSI Water System - CB Unit Only	STD	\$ -
	5005PA	10 GPM/ 2500 PSI Water System for HXX Kit - CB Unit Only	\$ 14,392	\$ -
	5005PB	20 GPM/ 2500 PSI Water System for HXX Kit - CB Unit Only*	\$ 20,412	\$ -
		*Required for body washout - CB Unit Only		
	5025P	Cold Weather Package / Heated Water Pump Toolbox - CB Unit Only	\$ 2,722	\$ -
1	025PSTD	Handgun Assembly w/35' x 1/2" Hose & Quick Disconnects	STD	\$ -
1	030PSTD	Flexible Hose Guide	STD	\$ -
1	032PSTD	(3) Nozzles with Carbide Inserts w/Rack	STD	\$ -

Vactor Manufacturing, Inc
2016 State of Ohio Department of Administrative Services State Term Schedule

1	2022PSTD	Additional Water Tank Sight Gauge	STD	\$ -
1	5011PSTD	3" Y-Strainer @ Water Pump w/3" Drain Valve	STD	\$ -
1	5014PSTD	1" Water Relief Valve	STD	\$ -
1	5015PSTD	Midship Handgun Coupling	STD	\$ -
1	5022PSTD	Side Mounted Water Pump	STD	\$ -
1	6005PSTD	Hose Footage Counter Front Side of Hose Reel	STD	\$ -
1	6005PASTD	Additional Hose Footage Counter Included	STD	\$ -
1	6007PSTD	Hose Reel Manual Hyd Extend/Retract	STD	\$ -
1	6009PSTD	Hose Reel Chain Cover	STD	\$ -
1	6020PBSTD	Hydraulic Extending 15", Rotating Hose Reel	STD	\$ -
1	2001P	Low Water Light w/Alarm and Water Pump Flow Indicator	\$ 615	\$ 615
	2003P	Laval Water Separator at Fill	\$ 1,694	\$ -
	2004P	Continuous Water Tank Fill	\$ 1,694	\$ -
	2006P	Air Purge	\$ 1,236	\$ -
	022PSTD	2" Y-Strainer with 25' Fill Hose	STD	\$ -
1	2011P	3" Y-Strainer at Passenger Side Fill, with 25' Fill Hose	\$ 415	\$ 415
	2011PA	3" Y-Strainer at Driver Side Fill, with 25' Fill Hose	\$ 415	\$ -
	2020P	6" Gravity Fill Port on Water Tank	\$ 863	\$ -
	2021P	Additional Water Tank Fill	\$ 707	\$ -
	3019P	Digital Water Pressure Gauge	\$ 608	\$ -
1	5008PB	Cold Weather Recirculator, PTO Driven, 25 GPM	\$ 1,639	\$ 1,639
1	5010P	Jet Rodder Water System Accumulator	\$ 2,632	\$ 2,632
	5015P	Handgun Couplers, Front and Rear	\$ 502	\$ -
	5024PA	Water Heater, 400,000 BTU* <i>*(May limit Water and Debris Body Capacity)</i>	\$ 12,835	\$ -
	5024PC	Water Heater, 800,000 BTU* <i>*(May limit Water and Debris Body Capacity)</i>	\$ 15,928	\$ -
	5027P	Vaporooter System	\$ 9,407	\$ -
	6000PBSTD	400' x 1" Sewer Hose 2500 PSI, Piranha	STD	\$ -
	6000PBSTD	400' x 1" Piranha Sewer Hose 3000 PSI	STD	\$ -
	6000P	400' x 1" Aeroquip Sewer Hose 2500 PSI	\$ 113	\$ -
	6001P	500' x 1" Aeroquip Sewer Hose 2500 PSI	\$ 535	\$ -
	6001PB	500' x 1" Piranha Sewer Hose 2500 PSI	\$ 467	\$ -
	6002P	600' x 1" Aeroquip Sewer Hose 2500 PSI	\$ 957	\$ -
	6002PB	600' x 1" Piranha Sewer Hose 2500 PSI	\$ 874	\$ -
	6002PH	700' x 1" Aeroquip Sewer Hose 2500 PSI	\$ 1,378	\$ -
	6002PG	700' x 1" Piranha Sewer Hose 2500 PSI	\$ 1,282	\$ -
	6003P	800' x 1" Aeroquip Sewer Hose 2500 PSI	\$ 1,800	\$ -
	6003PC	800' x 1" Piranha Sewer Hose 2500 PSI	\$ 1,691	\$ -
	6000P3	400' x 1" Aeroquip Sewer Hose 3000 PSI	\$ 975	\$ -
	6001P3	500' x 1" Aeroquip Sewer Hose 3000 PSI	\$ 1,612	\$ -
	6001PB3	500' x 1" Piranha Sewer Hose 3000 PSI	\$ 731	\$ -
	6002P3	600' x 1" Aeroquip Sewer Hose 3000 PSI	\$ 2,249	\$ -
	6002PB3	600' x 1" Piranha Sewer Hose 3000 PSI	\$ 1,192	\$ -
	6002PH3	700' x 1" Aeroquip Sewer Hose 3000 PSI	\$ 2,888	\$ -
	6002PG3	700' x 1" Piranha Sewer Hose 3000 PSI	\$ 1,654	\$ -

Vactor Manufacturing, Inc

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	6003P3	800' x 1" Aeroquip Sewer Hose 3000 PSI	\$ 3,525	\$ -
1	6003PC3	800' x 1" Piranha Sewer Hose 3000 PSI	\$ 2,114	\$ 2,114
	6004PSTD	Hose Wind Guide, Manual	STD	\$ -
	6004PA	Hose Wind Guide, Auto, Non-Indexing with Pinch Roller	\$ 4,547	\$ -
1	6004PB	Hose Wind Guide, Auto, Indexing	\$ 4,962	\$ 4,962
	6004PD	Rodder Hose Pinch Roller	\$ 1,355	\$ -
	6006P	Rodder Hose Guard - Lexan	\$ 1,100	\$ -
	6006PA	Rodder Hose Guard - Expanded Metal	\$ 1,494	\$ -
1	6011P	Handgun Hose Reel w/Spring Retract	\$ 1,231	\$ 1,231
1	6012P	Lateral Cleaning Kit w/150' Hose, 25 GPM @ 2000 PSI	\$ 2,967	\$ 2,967
	6019P	Rodder Pump Drain Valves	\$ 474	\$ -
	6020PC	Rotating Hose Reel, 1" x 1000' Capacity	\$ 2,278	\$ -
	7005PA	Intelliview in Cab Mount	\$ 575	\$ -

\$ -
\$ -

Lighting Options:

1	8001P	Rear, Split Arrow Traffic Controller, 10 Lights	\$ 1,338	\$ 1,338
	8001PB	Rear, Signal Master LED Arrow Stick, 8 Lights	\$ 1,964	\$ -
	8001PE	Rear, Split LED Arrow Traffic Controller, 10 Lights	\$ 1,531	\$ -
1	8002PA	Hand Held LED Spot Light	\$ 340	\$ 340
	8004PC	Revolving Rear LED Beacon Light	\$ 967	\$ -
	8004PB	Revolving Front LED Beacon Light	\$ 967	\$ -
	8007P	Rear Strobe Light: Federal Signal US-5 Series, Amber	\$ 934	\$ -
	8007PC	Rear Strobe Light: Federal Signal LED-Amber	\$ 1,041	\$ -
	8008P	Brackets and Wiring for Customer Installed Rear Light	\$ 415	\$ -
	8004PA	Revolving Light, Cab Guard, Federal Signal 100 Series	\$ 669	\$ -
	8007PA	Strobe Light, Cab Guard, Federal Signal US-5 Series, Amber	\$ 934	\$ -
	8007PB	Strobe Light, LED, Cab Guard, Federal Signal, Amber	\$ 1,041	\$ -
	8008PA	Brackets and Wiring for Customer Installed - Cab Guard	\$ 415	\$ -
	8013P	Rear Beacon Limb Guard	\$ 190	\$ -
	8013P	Front Beacon Limb Guard	\$ 190	\$ -
1	8020PE	DOT 3 Lighting Package, 6 Federal Signal Strobe Lights	\$ 2,762	\$ 2,762
	8020PG	DOT 3 Lighting Package, 5 Federal Signal Strobe Lights-LED	\$ 2,535	\$ -
	8020PC	Four Flashing Light Assembly, Two Piece, (4) 7" Amber	\$ 594	\$ -
	8022P	Rear Bumper Strobes, Two 5" Fed Sig Amber LED Strobes	\$ 1,208	\$ -
	8027P	LED Mid-Ship Turn Signals	\$ 519	\$ -
1	8028P	Worklights (2), LED, All booms	\$ 744	\$ 744
	8029P	Worklights (2), LED, Rear Door	\$ 591	\$ -
	8029PA	Worklight, LED, Operators Station	\$ 626	\$ -
	8029PB	Worklight, LED, Hose Reel Manhole	\$ 626	\$ -
	8029PC	Worklight, LED, Curb Side	\$ 469	\$ -
	8029PD	Worklight, LED, Street Side	\$ 469	\$ -
	8029PE	Worklight, LED, Vacuum system area	\$ 469	\$ -

Specialty Systems:

1	9021PSTD	Camera System, Rear Only	STD	\$ -
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	9021PA	Camera System, Front and Rear	\$ 600	\$ -
	9021PB	Camera System, Front, Rear and Both Sides	\$ 1,155	\$ -
	6022P	Sewer Inspection Camera System, IBAK	\$ 83,272	\$ -
	7005P	Hydraulic Oil Temp Alarm	\$ 356	\$ -
1	5021P	Hydro Excavation Kit/Retract Reel w/50' Hose and Nozzle	\$ 3,275	\$ 3,275
	6013P	Hydraulic Tool Package	\$ 1,407	\$ -
	9001P	Ziebart Corrosion Protection	\$ 1,472	\$ -
	9001PA	Road Salt Protection	\$ 361	\$ -

Tool Storage Options:

1	010PSTD	48w x 22h x 24d Curbside Toolbox	STD	\$ -
	9023P	Safety Cone Storage Rack - Drop in Style	\$ 155	\$ -
1	9023PA	Safety Cone Storage Rack - Post Style	\$ 155	\$ 155
	9024P	Water Cooler Storage Rack	\$ 155	\$ -
	9027P	Regen Warning System	\$ 402	\$ -
1	9070PA	Toolbox, Front Bumper Mounted, 16 x 12 x 18	\$ 1,882	\$ 1,882
	9070PB	Long Handle Tool Storage	\$ 334	\$ -
	9071P	Tooltray, Behind Cab	\$ 701	\$ -
1	9071PE	Toolbox, Behind Cab	\$ 3,004	\$ 3,004
	46849QL	Toolbox, Behind Cab with Slide Out Drawer	\$ 4,462	\$ -
	9072PC	Toolbox, Driver Side Chassis Frame	\$ 2,268	\$ -
	9073PA	Toolbox, Passenger Side Chassis Frame	\$ 1,657	\$ -
1	9074PA	Toolbox, Driver Side Subframe	\$ 1,268	\$ 1,268

Paint:

	P110STD	Module Paint - SPECIFY COLOR <i>White</i>	\$ -	\$ -
		Chassis Paint - SPECIFY COLOR <i>White</i>	\$ -	\$ -
		Vactor 2100 Plus Body Decal - Multi Color	\$ -	\$ -
		Rear Door Stripe SPECIFY COLOR	\$ 150	\$ -

Chassis:

1	Chassis	Freightliner 114 SD Chassis/Western Star Chassis	STD	\$ -
	Chassis	Premium Chassis Upgrade Single Axle Peterbilt	\$ 2,500	\$ -
	Chassis	Premium Chassis Upgrade Tandem Axle Peterbilt	\$ 3,500	\$ -
	Chassis	Premium Chassis Upgrade Single Axle Kenworth	\$ 3,500	\$ -
	Chassis	Premium Chassis Upgrade Tandem Axle Kenworth	\$ 4,500	\$ -
	Chassis	Premium Chassis Upgrade Single Axle Western Star	\$ 4,000	\$ -
	Chassis	Premium Chassis Upgrade Tandem Axle Western Star	\$ 5,000	\$ -
	Chassis	Class 8 Premium Chassis Upgrade - Tandem Only	\$ 10,000	\$ -

Chassis Options:

1	STD	Full Printed Vactor Manual	STD	\$ -
	9000P	Additional Vactor Manual	\$ 150	\$ -
1	011PSTD	Aluminum Fenders	STD	\$ -
1	012PSTD	Mud Flaps	STD	\$ -
1	7001PSTD	Tachometer/Chassis Engine w/Hourmeter	STD	\$ -
1	7003PSTD	Water Pump Hour Meter	STD	\$ -

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1	7004PSTD	PTO Hour Meter	STD	\$ -
1	8000PSTD	Circuit Breakers	STD	\$ -
1	8025PSTD	LED Lights, Clearance, Back-up, Stop, Tail & Turn	STD	\$ -
1	9002PSTD	Tow Hooks, Front	STD	\$ -
1	9002PSTD	Tow Hooks, Rear	STD	\$ -
1	9003PSTD	Electronic Back-Up Alarm	STD	\$ -
1	S560STD	Emergency Flare Kit	STD	\$ -
1	S590STD	Fire Extinguisher 5 Lbs.	STD	\$ -
	9011P	Pintle Hitch Assembly, 20,000 LBS	\$ 1,160	\$ -
	9011P	Pintle Hitch Assembly, 30,000 LBS	\$ 1,160	\$ -
1	Chassis Option	Passenger Side Air Seat	\$ 700	\$ 700
	Chassis Option	Differential Locks - Single	\$ 385	\$ -
	Chassis Option	Differential Locks - Tandem	\$ 685	\$ -
	Chassis Option	Polished Aluminum Wheels - Single	\$ 680	\$ -
	Chassis Option	Polished Aluminum Wheels - Tandem	\$ 1,015	\$ -
	Chassis Option	Power Windows & Locks	\$ 170	\$ -
	Chassis Option	C-Brake by Jacobs (Exhaust Brake)	\$ 1,375	\$ -
1	Chassis Option	In Cab Clock, Weather Band, CD player, and Bluetooth with Microphone	\$ 150	\$ 150
	Chassis Option	EXTERIOR SUN VISOR	\$ 375	\$ -
1	Chassis Option	HEATED POWER WESTCOAST MIRRORS	\$ 315	\$ 315
	Chassis Option	Upgrade to 425 HP Engine with 4000 Series Allison	\$ 10,000	\$ -

Warranty Options:

	Warranty	Warranty - 24 Months, Parts and Labor excluding Blower	\$ 2,408	\$ -
	Warranty	Warranty - 36 Months, Parts and Labor excluding Blower	\$ 5,233	\$ -
	Warranty	Warranty - 48 Months, Parts and Labor excluding Blower	\$ 8,058	\$ -
	Warranty	Warranty - 60 Months, Parts and Labor excluding Blower	\$ 10,882	\$ -
	Warranty	Warranty - 24 Months, Parts Only excluding Blower	\$ 1,777	\$ -
	Warranty	Warranty - 36 Months, Parts Only excluding Blower	\$ 4,082	\$ -
	Warranty	Warranty - 48 Months, Parts Only excluding Blower	\$ 5,757	\$ -
	Warranty	Warranty - 60 Months, Parts Only excluding Blower	\$ 7,534	\$ -
	Warranty	Warranty - 36 Months, Parts and Labor, Rodder Pump Only	\$ 1,777	\$ -
	Warranty	Warranty - 48 Months, Parts and Labor, Rodder Pump Only	\$ 2,614	\$ -
1	Warranty	Warranty - 60 Months, Parts and Labor, Rodder Pump Only	\$ 3,559	\$ 3,559
	Warranty	Warranty - 36 Months, Parts Only, Rodder Pump Only	\$ 1,254	\$ -
	Warranty	Warranty - 48 Months, Parts Only, Rodder Pump Only	\$ 1,777	\$ -
	Warranty	Warranty - 60 Months, Parts Only, Rodder Pump Only	\$ 2,408	\$ -
	Warranty	Warranty - 24 Months, Parts and Labor, Blower Only	\$ 1,777	\$ -
	Warranty	Warranty - 36 Months, Parts and Labor, Blower Only	\$ 4,082	\$ -
	Warranty	Warranty - 48 Months, Parts and Labor, Blower Only	\$ 6,276	\$ -
	Warranty	Warranty - 60 Months, Parts and Labor, Blower Only	\$ 8,058	\$ -

Rentals:

	Rental	Vactor Rental Per Day	\$ 1,150	\$ -
	Rental	Vactor Rental Per Week	\$ 3,470	\$ -
	Rental	Vactor Rental Per Month	\$ 14,200	\$ -

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Subject to availability

Vacuum System Accessories:

1	25637C-30	8" x 3' Aluminum Vacuum Tube	\$ 118	\$ 118
2	25637-30	8" x 5' Aluminum Vacuum Tube	\$ 133	\$ 266
	25637F-30	8" x 7'-6" Aluminum Vacuum Tube	\$ 201	\$ -
	25268-30	8" x 6'-6" Aluminum Catch Basin Nozzle Assembly	\$ 170	\$ -
	34763-30	6" x 3' Aluminum Vacuum Tube	\$ 120	\$ -
	34763A-30	6" x 5' Aluminum Vacuum Tube	\$ 172	\$ -
	34763B-30	6" x 7'-6" Aluminum Vacuum Tube	\$ 204	\$ -
	34766-30	6" x 6'-6" Aluminum Catch Basin Nozzle Assembly	\$ 214	\$ -
1	89957-30	8" x 78" Higbee C/B Nozzle Assembly	\$ 735	\$ 735
	89957A-30	8" x 3'-0" Higbee C/B Nozzle Assembly	\$ 445	\$ -
	501523A-30	6" x 7'-6" Higbee C/B Nozzle Assembly	\$ 535	\$ -
	501523-30	6" x 3'-0" Higbee C/B Nozzle Assembly	\$ 527	\$ -
3	16584-30	8" Quick Clamp Assembly	\$ 18	\$ 54
	32087-30	6" Quick Clamp Assembly	\$ 17	\$ -
	50507-30	Underwater Debris Nozzle (Snorkel Kit)	\$ 635	\$ -
	58990-30	8" Adjustable Air Adapter	\$ 177	\$ -
	HHX	Jake-A-Vator	\$ 1,261	\$ -
	36158-30	8" Jet Digger	\$ 990	\$ -
	25262-30	Catch Basin Handle Assemblies	\$ 300	\$ -
	29314-30	Water Ring Assembly	\$ 216	\$ -
	35097-30	8" to 6" Flanged Reducers	\$ 72	\$ -
	33838-30	8" Flange to (2) 4" Round non-Flanged Reducer	\$ 213	\$ -
	35096-30	8" x 6" Flanged Transition	\$ 135	\$ -

Hose Accessories:

	31096B-30	1" x 10' Leader Hose Assembly	\$ 108	\$ -
1	31096C-30	1" x 15' Leader Hose Assembly	\$ 160	\$ 160
	31096D-30	1" x 25' Leader Hose Assembly	\$ 260	\$ -
	44314E-30	1-1/4" x 25' Leader Hose Assembly	\$ 256	\$ -
	66286-30	1" Swage Kit - Aeroquip Hose	\$ 1,753	\$ -
	48806D-30	1" Swage Kit - Piranha	\$ 488	\$ -
	48786D-30	1" Swage Kit - Piranha Armor Belt	\$ 527	\$ -
	48786D-30	1" Swage Kit - Piranha Armor Belt Beacon	\$ 527	\$ -
	66286-30	1" Swage Kit - Aeroquip Hose	\$ 1,753	\$ -
	66286A-30	1-1/4" Swage Kit - Aeroquip	\$ 1,545	\$ -
	48806E-30	1-1/4" Swage Kit - Piranha	\$ 566	\$ -

Nozzles:

	Warthog	WT-3/8C 3"-6" Lines	\$ 847	\$ -
	Warthog	WS-1/2 4"-8" Lines	\$ 1,218	\$ -
	Warthog	WH-1/2 (Nozzle w/Centrallizer Only)	\$ 1,081	\$ -
	Warthog	WH-3/4 (Nozzle w/Centrallizer Only)	\$ 1,081	\$ -
	Warthog	WGR-PKG 8"-36" Lines	\$ 2,914	\$ -
	Warthog	WG-1 8"-36" (Nozzle w/ Centralizer Only)	\$ 1,416	\$ -

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ENZ	1" Nozzle Kit-80 GPM	\$ 7,250	\$ -
ENZ	1" Nozzle Kit with Bulldog Nozzle-80 GPM	\$ 9,670	\$ -
ENZ	1" Nozzle Kit with Turbine Nozzle-80 GPM	\$ 10,067	\$ -
ENZ	1" Nozzle Kit with Turbine 80 Nozzle-80 GPM	\$ 9,438	\$ -
ENZ	1" Nozzle Kit-60 GPM	\$ 6,988	\$ -
ENZ	1" Nozzle Kit with Bulldog Nozzle-60 GPM	\$ 7,014	\$ -
ENZ	1" Nozzle Kit with Turbine Nozzle- 60 GPM	\$ 7,410	\$ -
ENZ	1" Nozzle Kit with Turbine80 Nozzle-60 GPM	\$ 6,782	\$ -
ENZ	1" Standard Cleaning Nozzle	\$ 510	\$ -
ENZ	1/8" Chisel Point Nozzle	\$ 50	\$ -
ENZ	1/2" Chisel Point Nozzle	\$ 345	\$ -
ENZ	3/4" Chisel Point Nozzle	\$ 463	\$ -
ENZ	1" Chisel Point Nozzle (60100)	\$ 510	\$ -
ENZ	1" Chisel Point Nozzle (60100L)	\$ 1,895	\$ -
ENZ	1" Roto Jet KBR	\$ 1,086	\$ -
ENZ	HRH Semi Radially (rearward) 3/4"	\$ 1,055	\$ -
ENZ	HRH Semi Radially (rearward) 1"	\$ 2,605	\$ -
ENZ	HRV Semi-Radially (forward) 1"	\$ 2,605	\$ -
ENZ	Radial Rotating Nozzle 1"	\$ 2,605	\$ -
ENZ	Radial Rotating Nozzle 3/4"	\$ 1,071	\$ -
ENZ	1/2" Bulldog	\$ 2,550	\$ -
ENZ	3/4" Bulldog	\$ 3,064	\$ -
ENZ	1" Bulldog (400060BS)	\$ 3,362	\$ -
ENZ	1" Bulldog (400080)	\$ 3,502	\$ -
ENZ	1" Anti-Blast Bulldog	\$ 5,026	\$ -
ENZ	Rotodrill	\$ 633	\$ -
ENZ	1" Bulldozer	\$ 5,047	\$ -
ENZ	1-1/4" Bulldozer	\$ 5,922	\$ -
ENZ	KBVR Rotating Combo FW (04100AV)	\$ 2,475	\$ -
ENZ	KBVR Rotating Combo FW (04060V)	\$ 1,086	\$ -
ENZ	1" Rotoplus Vibration Nozzle	\$ 1,555	\$ -
ENZ	1/2"- 3/4" Turboplus	\$ 4,964	\$ -
ENZ	1"- 1-1/4" Turboplus	\$ 6,592	\$ -
ENZ	4" Impact Drilling Cutter (Milling Head)	\$ 5,356	\$ -
ENZ	6" Impact Drilling Cutter (Milling Head)	\$ 6,600	\$ -
ENZ	8" Milling Cutter Standard Housing	\$ 10,918	\$ -
ENZ	10" Milling Cutter Standard Housing	\$ 11,124	\$ -
ENZ	12" Milling Cutter Standard Housing	\$ 14,832	\$ -
ENZ	14" Milling Cutter Standard Housing	\$ 16,120	\$ -
ENZ	16" Milling Cutter Standard Housing	\$ 17,185	\$ -
ENZ	18" Milling Cutter Standard Housing w/adaptor plates	\$ 19,497	\$ -
ENZ	20" Milling Cutter Standard Housing w/adaptor plates	\$ 21,115	\$ -
ENZ	24" Milling Cutter Standard Housing w/adaptor plates	\$ 22,673	\$ -
ENZ	1" Grenade Bomb-A	\$ 1,071	\$ -
ENZ	1" Grenade Bomb-B	\$ 1,337	\$ -
ENZ	3/4" Grenade Bomb	\$ 690	\$ -
ENZ	1/2" KBR Rotating Combo-A	\$ 968	\$ -

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ENZ	1/2" KBR Rotating Combo-B	\$ 978	\$ -
ENZ	3/4" KBR Rotating Combo	\$ 968	\$ -
ENZ	1" KBR Rotating Combo	\$ 1,086	\$ -
ENZ	1" KBR Rotating Combo-A	\$ 2,605	\$ -
ENZ	3/8" Rotating Chain Scraper	\$ 2,389	\$ -
ENZ	1" Chain Scraper 10125TR-Us	\$ 3,270	\$ -
ENZ	1" Chain Scraper 6"-10" Pipe	\$ 5,407	\$ -
ENZ	1" Chain Scraper 8"-16" Pipe	\$ 8,425	\$ -
HXX	3 Tip HXX Nozzle	\$ 169	\$ -
HXX	2 Tip HXX Nozzle	\$ 139	\$ -
HXX	HXX Turbo-Nozzle	\$ 153	\$ -
HXX	HXX Ripsaw Nozzle	\$ 218	\$ -
HXX	Switchblade Nozzle	\$ 278	\$ -
60307BFB-30	1" - 60 GPM @ 2000 PSI - 15 DEG Sand Nozzle	\$ 134	\$ -
60307BFC-30	1" - 60 GPM @ 2500 PSI - 15 DEG Sand Nozzle	\$ 134	\$ -
60307BJB-30	1" - 80 GPM @ 2000 PSI - 15 DEG Sand Nozzle	\$ 134	\$ -
60307BJC-30	1" - 80 GPM @ 2500 PSI - 15 DEG Sand Nozzle	\$ 134	\$ -
58927BFB-30	1" - 60 GPM @ 2000 PSI - 30 DEG Penetrator Nozzle	\$ 142	\$ -
58927BFC-30	1" - 60 GPM @ 2500 PSI - 30 DEG Penetrator Nozzle	\$ 142	\$ -
58927BJB-30	1" - 80 GPM @ 2000 PSI - 30 DEG Penetrator Nozzle	\$ 130	\$ -
58927BJC-30	1" - 80 GPM @ 2500 PSI - 30 DEG Penetrator Nozzle	\$ 130	\$ -
60308BFB-30	1" - 60 GPM @ 2000 PSI - 15 DEG Penetrator Nozzle	\$ 142	\$ -
60308BFC-30	1" - 60 GPM @ 2500 PSI - 15 DEG Penetrator Nozzle	\$ 142	\$ -
60308BJB-30	1" - 80 GPM @ 2000 PSI - 15 DEG Penetrator Nozzle	\$ 142	\$ -
60308BJC-30	1" - 80 GPM @ 2500 PSI - 15 DEG Penetrator Nozzle	\$ 142	\$ -
44228BFB-30	1" - 60 GPM @ 2000 PSI - 15 DEG Probe Nozzle	\$ 256	\$ -
44228BFC-30	1" - 60 GPM @ 2500 PSI - 15 DEG Probe Nozzle	\$ 304	\$ -
44228BJB-30	1" - 80 GPM @ 2000 PSI - 15 DEG Probe Nozzle	\$ 221	\$ -
44228BJC-30	1" - 80 GPM @ 2500 PSI - 15 DEG Probe Nozzle	\$ 256	\$ -
58756BFB-30	1" - 60 GPM @ 2000 PSI - 30 DEG Sanitary Nozzle	\$ 122	\$ -
58756BFC-30	1" - 60 GPM @ 2500 PSI - 30 DEG Sanitary Nozzle	\$ 122	\$ -
58756BJB-30	1" - 80 GPM @ 2000 PSI - 30 DEG Sanitary Nozzle	\$ 122	\$ -
58756BJC-30	1" - 80 GPM @ 2500 PSI - 30 DEG Sanitary Nozzle	\$ 122	\$ -
60306BFB-30	1" - 60 GPM @ 2000 PSI - 15 DEG Sanitary Nozzle	\$ 122	\$ -
60306BFC-30	1" - 60 GPM @ 2500 PSI - 15 DEG Sanitary Nozzle	\$ 134	\$ -
60306BJB-30	1" - 80 GPM @ 2000 PSI - 15 DEG Sanitary Nozzle	\$ 122	\$ -
60306BJC-30	1" - 80 GPM @ 2500 PSI - 15 DEG Sanitary Nozzle	\$ 122	\$ -
58926BFB-30	1" - 60 GPM @ 2000 PSI - 30 DEG Sand Nozzle	\$ 125	\$ -
58926BFC-30	1" - 60 GPM @ 2500 PSI - 30 DEG Sand Nozzle	\$ 136	\$ -
58926BJB-30	1" - 80 GPM @ 2000 PSI - 30 DEG Sand Nozzle	\$ 149	\$ -
58926BJC-30	1" - 80 GPM @ 2500 PSI - 30 DEG Sand Nozzle	\$ 125	\$ -
49078CBB-30	3/4" - 40 GPM @ 2000 PSI - 15 DEG Probe Nozzle	\$ 208	\$ -
49078CBC-30	3/4" - 40 GPM @ 2500 PSI - 15 DEG Probe Nozzle	\$ 214	\$ -
49078CCC-30	3/4" - 45 GPM @ 2500 PSI - 15 DEG Probe Nozzle	\$ 208	\$ -
58929BFB-30	1" - 60 GPM @ 2000 PSI - 3" General Purpose Nozzle	\$ 159	\$ -
58929BFC-30	1" - 60 GPM @ 2500 PSI - 3" General Purpose Nozzle	\$ 159	\$ -
58929BJB-30	1" - 80 GPM @ 2000 PSI - 3" General Purpose Nozzle	\$ 159	\$ -

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58929BJC-30	1" - 80 GPM @ 2500 PSI - 3" General Purpose Nozzle	\$ 159	\$ -
36058A-30	60 GPM Storm Sewer #10 Nozzle	\$ 228	\$ -
36058C-30	80 GPM Storm Sewer #10 Nozzle	\$ 228	\$ -
54800A-30	6" Dia. Nozzle - 40 GPM	\$ 1,883	\$ -
54800B-30	6" Dia. Nozzle - 60 GPM	\$ 2,048	\$ -
54800C-30	6" Dia. Nozzle - 80 GPM	\$ 2,048	\$ -
54800D-30	6" Dia. Nozzle - 100 GPM	\$ 2,126	\$ -
54590A-30	8" Dia. Nozzle - 80 GPM	\$ 2,945	\$ -
54590B-30	8" Dia. Nozzle - 100 GPM	\$ 3,141	\$ -
54608A-30	Culvert Nozzle - 40 GPM	\$ 1,513	\$ -
54608B-30	Culvert Nozzle - 60 GPM	\$ 1,498	\$ -
54608C-30	Culvert Nozzle - 80 GPM	\$ 1,498	\$ -
54608D-30	Culvert Nozzle - 100 GPM	\$ 1,494	\$ -
34955-30	1" x 12" Finned Pipe Weld - Large	\$ 56	\$ -
67488-30	1-1/4" x 12" Finned Pipe Weld - Large	\$ 64	\$ -
31685-30	1" x 12" Finned Pipe Weld - Small	\$ 60	\$ -
43516-30	1" Root Cutter Kit	\$ 1,634	\$ -
43517-30	6" Spiral Saw Blades	\$ 154	\$ -
43518-30	8" Spiral Saw Blade	\$ 189	\$ -
43519-30	10" Spiral Saw Blades	\$ 185	\$ -
43520-30	12" Spiral Saw Blade	\$ 199	\$ -
43521-30	15" Spiral Saw Blades	\$ 246	\$ -

Additional Options:

1	Earthquaker	EARTHQUAKER PLUS -High Performance Excavation Gun	N/C	N/C
	Special	Grease Control Injection System	\$ 2,500	\$ -
	45803-30	2" Y-Strainer Screen	\$ 14	\$ -
	41280-30	3" Y-Strainer Screen	\$ 16	\$ -
	29898-30	6" Lay-Flat Drain Hose - 1ft	\$ 5	\$ -
	65297A-30	Handgun w/35ft Hose Assembly	\$ 376	\$ -
	45124-30	Fire Extinguishers	\$ 58	\$ -
	20836-30	Hydrant Wrenches	\$ 16	\$ -
	40615-30	Emergency Flare Kit	\$ 21	\$ -
	52846-30	Flexible Hose Guides	\$ 38	\$ -
	36983-30	Offset Manhole Roller	\$ 307	\$ -

Manhole Tools:

	HYH-8	8" Hydrovac-Handle	\$ 108	\$ -
	DTH-8	8" Deep Tube Holder	\$ 215	\$ -
	BT-8	8" Vac Trap for 8" Vactor Tube Flat	\$ 309	\$ -
	CAM-1	Camera Gaffing Hook- 200lbs.	\$ 82	\$ -
	PS-1	9" DIA Rounded Catch Basin Spoon	\$ 106	\$ -
	SMAG-1	Sewer Magnet, 100lb capacity	\$ 97	\$ -
	SC-6	6" Scoopa For Fiberglass Poles	\$ 150	\$ -
	LC-9	6" Curved Chopper	\$ 98	\$ -
	HG-1	9" Long Hose Grabber	\$ 102	\$ -
	4PG-1	8" Wide 4 Pronged Debris Grabber	\$ 136	\$ -

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	DB-8	8" Debris Basket	\$ 263	\$ -
	STD-6	Single Male X Female Pole	\$ 67	\$ -

Wireless Communication Accessories:

	Jetview	JETVIEW - Wireless Remote Monitoring System	\$ 4,500	\$ -
	Sonetics	SONETICS- Headset Bluetooth Communication System	\$ 7,499	\$ -

Pipe Rehabilitation:

	Pipe-Robotec	Pipe Robotec - Internal Pipe Sealing Systems-6" Installation Packer & Coupling Rod	\$ 5,300	\$ -
	Pipe-Robotec	Pipe Robotec - Internal Pipe Sealing Systems-8-12" Installation Packer & Coupling Rod	\$ 5,330	\$ -
	Pipe-Robotec	Pipe Robotec - Internal Pipe Sealing Systems-15-18" Installation Packer & Coupling Rod	\$ 6,700	\$ -
	Pipe-Robotec	Pipe Robotec - Internal Pipe Sealing Systems-15-18" Installation Packer & Coupling Rod	\$ 7,975	\$ -
	Pipe-Robotec	6" Pipe Seal Fix Stainless Steel Sleeve	\$ 756	\$ -
	Pipe-Robotec	8" Pipe Seal Fix Stainless Steel Sleeve	\$ 756	\$ -
	Pipe-Robotec	10" Pipe Seal Fix Stainless Steel Sleeve	\$ 786	\$ -
	Pipe-Robotec	12" Pipe Seal Fix Stainless Steel Sleeve	\$ 819	\$ -
	Pipe-Robotec	15" Pipe Seal Fix Stainless Steel Sleeve	\$ 948	\$ -
	Pipe-Robotec	18" Pipe Seal Fix Stainless Steel Sleeve	\$ 1,042	\$ -
	Pipe-Robotec	21" Pipe Seal Fix Stainless Steel Sleeve	\$ 1,191	\$ -
	Pipe-Robotec	24" Pipe Seal Fix Stainless Steel Sleeve	\$ 1,405	\$ -

Portable Mini-Mainline Camera System:

	Proteus	PROTEUS Portable Mini-Mainline camera system with straight view camera & 656' manual cable reel, CRP-150 Crawler & Wheel sets from 6" -18" pipe, cable pulley guide, MPR manhole protection ring	\$ 41,300	\$ -
	Proteus	Upgrade to Pan & Tilt Zoom Camera	\$ 7,879	\$ -
	Proteus	Additional Pan & Tilt Zoom Camera	\$ 11,650	\$ -
	Proteus	Upgrade To "The Beast" Crawler-12"-60" Pipe	\$ 14,900	\$ -
	Proteus	Additional "The Beast" Crawler-12"-60" Pipe	\$ 28,016	\$ -
	Proteus	Upgrade To 984 Ft. Manual Cable Reel	\$ 4,000	\$ -
	Proteus	Upgrade To 656 Ft. Automatic Cable Reel	\$ 9,000	\$ -
	Proteus	Upgrade To 984 Ft. Automatic Cable Reel	\$ 12,850	\$ -
	Proteus	Auxiliary Light & Rear View Camera	\$ 2,472	\$ -
	Proteus	Portable Cart	\$ 2,472	\$ -
	Proteus	Battery Pack	\$ 2,472	\$ -
	Proteus	Data Output Box (For Software)	\$ 1,030	\$ -
	Software	Muni-XS Software System	\$ 3,090	\$ -
	Software	Pipe Logix Lite Software	\$ 4,223	\$ -
	Software	Pipe Logix Full Software	\$ 8,858	\$ -
	Software	Dvs Capture Module	\$ 4,635	\$ -
	Software	Laptop Computer	\$ 1,648	\$ -
	Software	Laptop Computer With Docking Station And Printer	\$ 2,678	\$ -

Vactor Manufacturing, Inc
2016 State of Ohio Department of Administrative Services State Term Schedule

	Vyper	Vyper Push Camera System	\$ 6,695	\$ -
	Vyper	Vyper Battery Pack	\$ 2,266	\$ -
	Vyper	Vyper 6"-8" Roller Skid Assembly	\$ 308	\$ -
	Infosense	Infosense SI-Rat-Acoustic Rapid Assessment Tool	\$ 23,590	\$ -

Locating Equipment:

	C-SCOPE	C-SCOPE Locator	\$ 1,699	\$ -
	C-SCOPE	C-SCOPE Line Energizer	\$ 1,236	\$ -

Safety Equipment:

	Gas Monitor	G450-11410 W/Alkaline Batteries	\$ 715	\$ -
	Gas Monitor	G450-11410 W/Rechargeable Batteries	\$ 787	\$ -
	Gas Monitor	G450-Calibration Kit	\$ 490	\$ -
	Tripod	Mechanical Safety Tripod Package	\$ 3,085	\$ -
	Tripod	DBI SALA Tripod Package	\$ 6,595	\$ -

Training:

	Training	Advanced Pipe Cleaning	\$ 232	\$ -
	Training	Confined Space Entry	\$ 232	\$ -
	Training	Operation and Maintenance	\$ 232	\$ -
	Training	Inspection Operation Mainline Pipeline Products	\$ 700	\$ -
	Training	Inspection Operation Portable Pipeline Products	\$ 465	\$ -
	Training	PACP, MACP, LACP	\$ 1,000	\$ -
	Training	PACP, MACP, LACP Recertification	\$ 400	\$ -

**Training Prices are Per Person*

Contract Escalator:

	Escalator	Contract Year 2 Escalator - If applicable	2%	\$ -
	Escalator	Contract Year 3 Escalator - If applicable	3%	\$ -
	Escalator	Contract Year 4 Escalator - If applicable	4%	\$ -
	Escalator	EPA surcharge - If applicable	\$ 3,500	\$ -
	Escalator	Steel surcharge - If applicable	\$ 6,000	\$ -

Sale Price	\$ 411,503.00
Less STS 3% Discount	\$ 12,345.09

Total Sale Price	\$ 399,157.91
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Customer Acceptance:

Customer Name: _____

Signature: _____

Date: _____

Vactor Manufacturing, Inc
2016 State of Ohio Department of Administrative Services State Term Schedule

P/C 5-2-17 Service
CA _____
1st R _____
2nd R _____
3rd R _____
B/C _____

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING A CHANGE ORDER FOR THE
2016 SIDEWALK REPAIR PROGRAM,
AND DECLARING AN EMERGENCY

WHEREAS, the Mayor was authorized to Advertise for Bids and enter into a Contract for the construction of the 2016 Sidewalk Repair Program pursuant to Ordinance 10002-2016, passed by the Council of Brook Park on April 5, 2016; and

WHEREAS, a Contract with Konstruction King, Inc. for the 2016 Sidewalk Repair Program was approved by the Board of Control on September 6, 2016 in the amount of \$262,000; and

WHEREAS, the Contract Amount was increased by \$125,000 to a total of \$387,000 pursuant to Ordinance 10065-2016, passed by the Council of Brook Park on December 20, 2016; and

WHEREAS, residents have been allowed to participate in the Program after the sign-up deadline has passed and has resulted in the need to increase the Contract Value such that the work can be completed.

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Mayor on behalf of the City of Brook Park is hereby authorized to amend the Contract with Konstruction King, Inc. to complete the additional work for the 2016 Sidewalk Repair Program.

SECTION 2: The Finance Director is hereby authorized to pay for additional adjustments, specifically outlined in Exhibit "A" attached hereto and incorporated herein.

SECTION 3: The money needed for the aforesaid transaction shall not exceed \$65,000.00.

SECTION 3: The money needed for the aforesaid transaction shall not exceed \$65,000.00.

SECTION 4: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 5: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to provide funds for the additional quantities of the Contract Bid Items for 2016 Sidewalk Repair Program; therefore this Ordinance shall take effect and be in force immediately from and after its passage and approval by the Mayor.

PASSED: _____

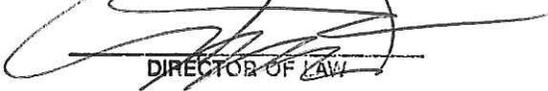
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS

DATE



DIRECTOR OF LAW

2016 SIDEWALK REPAIR PROGRAM
CONTRACT 1602

CHANGE ORDER NO. 2
April 28, 2017

Contractor: Konstruction King, Inc.
1270 West 130th Street, #300
Brunswick, Ohio 44212-2318

Nature of Changes

- Total number of sidewalk blocks that are anticipated for removal and replacement exceed the original contract quantity because residents have been allowed to participate in the Program of after the sign-up deadline has passed.

Original Contract Amount	\$262,000.00
Contract Amount Prior to this Change Order	\$387,000.00
Increase Resulting from this Change Order	<u>\$ 65,000.00</u>
Final Contract Amount Including this Change Order	\$452,000.00

Recommended For Approval.

Edward R. Piatak, P.E.

Date

Change Order Approved.

City of Brook Park

Date

Konstruction King, Inc.

Date

Exhibit "A"