CITY OF
WASILLA
• ALASKA •

Date of Action: 11/23/15	
Approved ☑	Denied ☐
By:	

CITY COUNCIL ACTION MEMORANDUM

AM No. 15-42: Contract Award to RWC International in the amount of $162,770 for a new vacuum pumper truck.

Originator: Public Works Director
Date: November 5, 2015 Agenda of: November 23, 2015

Route to:	Department Head	Signature	Date
X	Public Works Director		11/5/15
X	Finance Director		11-5-15
X	Deputy Administrator		11/6/15
X	City Clerk		11/9/15

Reviewed by Mayor Bert L. Cottle: 11:09:2015

Fiscal Impact: ☒ yes $162,770 **Funds Available:** ☒ yes

Account name/number: Pumper Truck Replacement/310-4359-435.45-30
Attachments: Vacuum Truck Specifications (5 pages)

Summary Statement: This is a planned equipment purchase to replace the sewer department's 10 year old septic tank pumper truck. The invitation to bid was issued on October 9, 2015 through ITB-1009-0-2015/AG. The bid opening occurred on November 5, 2015 with the following results:

RWC International	$162,770
Trailercraft	$165,178
Construction Machinery Industrial	$166,500
Yukon Equipment	$167,223

RWC International provided to low responsive bid to supply an International Truck with a 4,000 gallon aluminum pumper tank.

Staff Recommendation: Adopt AM No. 15-42.

CITY OF WASILLA
NEW VACUUM PUMPER TRUCK
BID SPECIFICATION
CHECK LIST-REVISED

GENERAL SPECIFICATION

It is the intent of these specifications to describe a new Class 8 vacuum pumper truck (one truck). It will be used to support municipal septic tank maintenance. Production model is defined as a standard model with minimum of 10 sold and in service in Alaska for 24 months of more. Unit bid to be a NEW model year to meet or exceed the following minimum specifications:

SPECIFICATION		
1.	GROSS VEHICLE WEIGHT RATING:	
	A.	64,000 lbs
2.	CHASSIS DIMENSIONS:	
	A.	160" +/- 2" Cab to Trunnion (CT)
	B.	Set-back front axle design, with 40" to 51" axle set-back from bumper
3.	ENGINE:	
	A.	345 hp minimum. 9 liter minimum
	B.	1150 lb-ft torque minimum
	C.	To meet Federal emissions regulations
	D.	All oil, water and fuel filters as required by manufacturer
	E.	Dual dry element under hood air cleaner with snow valve and in-cab control
	F.	Automatic on/off type fan drive
	G.	Electronic cruise control
	H.	Electronic hand throttle control
	I.	Long Life coolant to minus 60 degrees Fahrenheit.
	J.	Lower radiator drain
	K.	Horizontal muffler with stainless steel turn-back tail pipe & heat guard
	L.	Constant torque radiator clamps on hoses over 1" inside diameter
	M.	Engine block heater, 1000 watt minimum
	N.	Engine oil pan heater, 300 watt minimum
4.	TRANSMISSION:	
	A.	Allison RDS Series, 6-Speed Automatic
	B.	PTO Gear
	C.	Transmission oil cooler
	D.	Synthetic Lube
5.	REAR AXLE/DIFFERENTIAL:	
	A.	Meritor RT-46-160P, 46,000 lbs with lube pump
	B.	Driver controlled locking differential in BOTH rear axles with single switch
	C.	Synthetic Lube
	D.	4.89 gear ratio
6.	REAR SUSPENSION:	
	A.	Air-Ride Suspension, 46,000 lbs.
	B.	54" axle spacing

SPECIFICATION

7.	FRONT AXLE:	
	A.	I-Beam, 18,000 lb capacity minimum
	B.	Wide track design for better turning radius
8.	FRONT SUSPENSION:	
	A.	Parabolic taper leaf spring, 18,000 lb capacity minimum
	B.	To include shock absorbers
9.	FRAME/BUMPER:	
	A.	Single 120,000 psi yield strength minimum C-channel frame rails
	B.	Full length 120,000 psi yield strength C-channel frame reinforcement
	C.	3,500,000 In-Lbs resisting bending moment (RBM) minimum per rail
	D.	Two (2) front frame mounted tow hooks
	E.	Huck bolts throughout frame
	F.	Powder coated black steel front bumper
10.	BRAKE SYSTEM:	
	A.	Full air brake system with 4-channel ABS
	B.	Automatic front & rear slack adjusters
	C.	Dust shields on front and rear brakes
	D.	Pull cable type drain valves on all air tanks
	E.	S-Cam brakes, 16.5" x 5.0" front, 16.5" x 7.0" rear
	F.	Four (4) Haldex Gold Seal spring actuated parking brake chambers
	G.	13.2 CFM minimum air compressor
	H.	Meritor Wabco System Saver 1200 Air dryer with heater
11.	FUEL TANK/COMPONENTS:	
	A.	Single 100 gallon aluminum fuel tank
	B.	Fuel/water separator with 12 volt heater & water-in-fuel light
12.	STEERING:	
	A.	Dual power steering gears
	B.	Tilting steering wheel
13.	CAB CONSTRUCTION:	
	A.	Cab to be severe service double galvanized steel conventional cab design
	B.	107" Bumper to back of cab dimension minimum
	C.	Overall cab width as measured from door to door to be to be 82" minimum
	D.	Sloping hood to be forward tilting fiberglass or composite with stationary grille
	E.	Hood to include rubber fender extensions
	F.	Rear cab mounts to be air suspension type
14.	CAB INTERIOR:	
	A.	Driver seat to be air suspension, high back with air lumbar support with cloth upholstery
	B.	Passenger seat to be non-suspension, high back with cloth upholstery and under-seat storage compartment
	C.	Interior trim to have full cloth or vinyl headliner and cab back panel
	D.	Inside doors shall be covered with no metal exposed. Cloth, vinyl, molded composite panels or a combination are acceptable
	E.	Metal floor shall be covered by a rubber padded floor mat with 1" backing
	F.	Insulation to be high density foam located behind dash and under engine cover
	G.	Storage pockets on driver & passenger doors
	H.	Dual interior sun visors
	I.	Two (2) cup holders minimum

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	J.	One (1) USB power outlet
	K.	Two (2) 12V power outlets, cigar lighter type
	L.	High output heater and defroster with replaceable HVAC fresh air filter
	M.	Electric cab door locks
	N.	Electric cab windows
	O.	Interior lighting to include door activated cab dome light with additional courtesy lights to illuminate door threshold when doors are opened
	P.	Interior grab handles for 3-point cab entry at both doors
	Q.	AM/FM CD Stereo with Bluetooth and two (2) speakers
15.	CAB EXTERIOR:	
	A.	Dual heated rear view mirrors, approximately 7" x 16" with 102" inside spacing stainless steel or composite heads with stainless steel breakaway brackets, LED amber clearance light to be on back side of mirror heads
	B.	Dual heated convex mirrors, approximately 7" stainless steel or composite heads. These may be incorporated into the rear view mirror housing
	C.	Dual windshield wipers with intermittent switch
	D.	Windshield wiper tray below windshield to be completely covered to prevent snow build up
	E.	Cab access to include 2 entry steps at both doors, stair-step design with self-cleaning surface.
	F.	Exterior grab handles for 3-point cab entry at driver's side door minimum
	G.	Bug screen mounted behind grille
16.	ELECTRICAL/EXTERIOR LIGHTING SYSTEM:	
	A.	To be 12-Volt multiplex electrical system
	B.	All chassis wiring to be color coded and continuously numbered
	C.	Single electric horn
	D.	Single air horn with snow shield if mounted on cab roof
	E.	Back-up alarm, self-adjustable 87-112 dBA
	F.	160 amp minimum pad mounted alternator
	G.	Three (3) or Four (4) maintenance free batteries, 2600 CCA total minimum
	H.	Battery pad or blanket heater for 4-battery system
	I.	Battery disconnect switch mounted in cab
	J.	L E D headlights
	K.	2 sets of front turn signals to be flush mounted next to headlights and front fender mounted
	L.	Rear stop, tail, turn & all marker lights to be LED
	H.	Five (5) amber LED marker lights above windshield
	M.	Solid state turn signal flasher lights with self-canceling feature
	N.	All engine and battery heaters are to be plugged into a single sealed, water resistant junction box mounted in a protected, yet accessible area
	O.	Moose / Fog lights, RIGID Amber & White Dual Function LED 20" Mounted centered in hood or bumper with stainless steel or aluminum brackets, with cab switch
	P.	LED Amber & White strobe system mounted on top of cab with dash control
	Q.	Six (6) chassis OEM dash mounted switches with programmable logic functions & remote power modules for body builder connections of PTO control and auxiliary lighting functions
17.	INSTRUMENTATION:	
	A.	Cab Gauges
		i. Speedometer
		ii. Odometer with resettable trip meter
		iii. Tachometer
		iv. Engine hour meter
		v. Fuel gauge

SPECIFICATION

	vi.	Dual air pressure gauge
	vii.	Engine oil pressure gauge
	viii.	Engine coolant temperature gauge
	ix.	Transmission oil temperature gauge
	x.	Air cleaner restriction gauge in cab
	xi.	Voltmeter
B.	Cab Warning indicators to include:	
	i.	DPF status
	ii.	brake system
	iii.	park brake application
	iv.	low oil pressure
	v.	high coolant temperature
	vi.	transmission
	vii.	fuel/water separator water-in-fuel indicator light
C.	On-board fault code diagnostics display in instrument panel	
D.	All dash gauges to be back-lit	
18.	WHEELS:	
A.	Front, Hub piloted aluminum disc, 22.5" x 12.25"	
B.	Rear, hub piloted steel disc, 22.5" x 8.25"	
C.	Front wheel seals to be approved synthetic oil lubricated or permanently sealed	
D.	To include Accuride or Nylon wheel guards between all hub and wheels and between rear dual wheels	
19.	TIRES:	
A.	2 Front, 385/65R22.5, 20 Ply, Continental HTC1 steer tread or equal from other manufacturer	
B.	8 Rear, 11R22.5, 14 Ply, Continental HDR1 open shoulder mud and snow traction tread or equal from other manufacturer	
20.	CHASSIS PAINT:	
A.	Cab shall be painted white by the OEM with 3-part primer, base coat & clear coat	
B.	Frame and running gear shall be black	
C.	Rear wheels shall be white	
21.	SEPTIC TANK: ALUMINUM	
A.	4000 Gallon ¼" grade 5454 ALUMINUM Tank with W/ 5/16" dished heads 3/8" full length skids	
B.	3-6" Interior channel ribs or other reinforcing with 5 year warranty	
C.	Full double plate bottom 1/3 of tank or single plate bottom with 5 year warranty	
D.	Baffle, Anti – Surge, Tank shall have a minimum of 2 interior fully welded baffles	
E.	Tank to be pressure tested to 7 psi and vacuum tested to 29 inch/Hg	
F.	Primary moisture shutoff	
G.	Secondary moisture shutoff	
H.	Brass pressure relief valve	
I.	Side access ladder	
J.	Pressure & Vacuum gauge	
K.	5 ½" cleanable sight glasses, (3), inside of rear compartment	
L.	Vacuum relief valve	
M.	Exhaust eliminator	
N.	Rear hose hanger support	
O.	Pre-filter	
P.	Exterior tank to be unpainted Aluminum Lower 1/3 to be sprayed with rubberized & hardened protective coating black	
Q.	Heated valves	

SPECIFICATION

	R.	Vacuum pump, Masport HXL 400 series with mechanical lubrication pump, remote lubrication tank, integral pressure / VAC. Control valve
	S.	Vacuum pump to be chassis mounted W right angle gear box PTO driven
	T.	Primary trap to be Masport 16331
	U.	Inlet filter to be Masport 15118
	V.	Super scrubber moisture trap to be Masport 16430
	W.	Oil separator to be Masport 15466
	X.	Pressure relief valve, ASME code, placement and setting as specified by vacuum pump manufacturer
	Y.	Liquid filled vacuum / Pressure gauge, placement and setting as specified by vacuum pump manufacturer
	Z.	Intake valve, manual, with cam lock fittings 3", mounted at rear of tank, mounting shall be separate from dump valve mounting
	AA.	Intake line, inside tank shall extend above the expected liquid surface
	BB.	Dump valve, manual, with Cam Lock fittings 4", mounted at rear of tank on rear swing away hatch
	CC.	Lift lugs
	DD.	20" Top hinged top hatch
	EE.	20" Rear swing away hatch
	FF.	LED Amber & White strobe system mounted on top of tank back end with dash control
	GG.	2 LED Rear Flood lights, RIGID D-Series HD mounted on rear light bar, with dash control
22.	WARRANTY:	
	A.	12 month minimum basic vehicle on chassis
	B.	24 month minimum engine including injectors and turbo
	C.	24 month minimum transmission and rear axles
	D.	12 month minimum on hydraulics, pump, valves and tank
23.	MANUALS:	
	A.	One (1) set parts and service manuals for chassis, engine, hydraulics, pump, valves and tank
	B.	One (1) set parts and service manuals for chassis, engine, hydraulic, pump, valve, and tank to be Electronic USB Drive