

Contract Award Notice



City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/procurement

Contract Number: T15-097-01

Rush Truck Centers of Arizona, Inc,
dba Rush Truck Center of Phoenix
George Beal
9600 W. Roosevelt Street
Tolleson AZ 85353

Contract Period 08/17/2015
To
08/16/2016

Phone: (602)422.8122
bealg@rushenterprises.com

Vendor Number: 00618

Solicitation/Contract Requirements

This Contract Award Notice is issued for the purchase of **Refuse Vehicles** per the terms, conditions, specifications and requirements of **RFP #15-097**. The contract shall remain in effect through **08/16/2016** unless extended, renewed or canceled per terms and conditions of **T15-097-01**. It is to be noted that any contracted vendor document(s) that conflict with the language and requirements of the City's solicitation are not acceptable and will void the contract. In addition, contracted vendor is not to begin work or make delivery of awarded items until any and all required insurance and/or performance bonds are posted with the City Procurement Office.

Item No.	Pricing Item Description	Unit Price
Per contract documents		

Vendor Address Change

If contracted vendor has a change of address for mailing payments and/or for mailing future bid solicitations, it is the vendor's responsibility to notify the City Procurement Officer identified with this contract and to ensure all such mailing address information is kept current. At least once a year, contact the Procurement Officer identified for this contract and ensure your current address has been entered to the City Procurement Office automated system.

Please note that your City of Tempe contract number is **T15--01**. This number **must** appear on all receivers, invoices and statements. Payment will be made on a monthly basis following receipt of a monthly itemized statement. Monthly invoices must be segregated by City departments and mailed directly to each City customer department. Invoices **must** be mailed to the following address: City of Tempe, **Division, Attn:**, P.O. Box 5002, Tempe, AZ. 85280. Statements **must** be mailed to: City of Tempe, **Accounting** PO Box 5002, Tempe, Arizona 85280.


Tony Allen, CPPB
Procurement Officer
(480) 350-8548


Michael Greene, CPM
Central Services Administrator

THIS IS NOT A PURCHASE ORDER.

All terms and conditions of this Award Document are per the City's Solicitation Document

Vendor's Offer

Form 201-B (RFP)

"Return this Section with your Response"

It is required that Offeror complete, sign and submit the original of this form to the City Procurement Office with the proposal response. An unsigned "Vendor's Offer", late proposal response and/or a materially incomplete response will be considered nonresponsive and rejected.

Offeror is to type or legibly write in ink all information required below.

Company Name: <u>Brush Truck Centers of Arizona, Inc DBA Brush Truck Center Phoenix</u>		
Company Mailing Address: <u>9600 W. Roosevelt St.</u>		
City: <u>Tolleson</u>	State: <u>Arizona</u>	Zip: <u>85353</u>
Contact Person: <u>George Beal</u>	Title: <u>Sales Representative</u>	
Phone No.: <u>602-422-8122</u>	FAX: <u>602-422-8175</u>	E-mail: <u>bealg@brushenterprises.com</u>
<u>Company Tax Information:</u>		
Arizona Transaction Privilege (Sales) Tax No.:	<u>07-599669-K</u>	or
Arizona Use Tax No.:	_____	
Federal I.D. No.:	<u>74-2927286</u>	
City & State Where Sales Tax is Paid:	<u>Tolleson, Arizona</u>	
If a Tempe based firm, provide Tempe Transaction Privilege (Sales) Tax No.:	_____	

THIS PROPOSAL IS OFFERED BY

Name of Authorized Individual (TYPE OR PRINT IN INK) Chris Ryan

Title of Authorized Individual (TYPE OR PRINT IN INK) Regional Manager

REQUIRED SIGNATURE OF AUTHORIZED OFFEROR (MUST SIGN IN INK)

By signing this Vendor's Offer, Offeror acknowledges acceptance of all terms and conditions contained herein and that prices offered were independently developed without consultation with any other Offeror or potential Offeror. Failure to sign and return this form with proposal response will be considered nonresponsive and rejected.



Signature of Authorized Offeror
(H:/RFP 3-2008)

5/7/2015
Date

Proposal Questionnaire
Return this Section with your Response

Bidder shall submit answers to the following questions. Responses will be utilized in determination of contract award.

	Question	Response
1	Provide the address of the facility that will supply units to the City of Tempe.	4600 W. Roosevelt St. Tolleson, Arizona 85353
a	If you do not have a Tempe, or valley address, how do you intend to handle repair/warranty issues	—
2	Describe your company and its history – include years in business	see attached
3	Please provide contact information for the primary account representative and a backup contact for the City of Tempe. • Contact Name • Phone Number • Cell Phone Number • e-mail address	Provide contact information below George Beal 602-422-8122, cell 602-418-4355 gealg@rushenterprises.com
4	Do you have factory-trained personnel on site to perform installation, maintenance and repair on the equipment you are offering?	yes
5	What is the delivery time ARO for the equipment you are offering – liquidated damages will apply if delivery timelines are not met. The City of Tempe prefers a delivery time of 180 days or less. Liquidated damages are \$100 per day per truck will be assessed after the agreed upon delivery date has expired.	220 days or less
a	Do you understand and accept this condition?	yes
6	If required warranty work requires that vehicle to be taken to your facility for repairs to be effected, will you pick up and return vehicle at no cost to the City of Tempe?	yes for chassis
7	Do you provide, at no cost, human based technical support for the cab and chassis to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	yes for chassis
a	If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	8:00 A.M - 5:00 P.M Monday - Friday assistance provided upon request
8	Do you provide, at no cost, human based technical support for the refuse body to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	Dadee Mfg. (Yes) local dealer and manufacture, local support 6 AM - 4:30 PM Plus emergency call.
a	If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	
9	Do you agree to the Terms and Conditions of this RFP?	yes
a	If No, explain to right	
10	List three (3) governmental or large corporate references for which you currently provide similar services.	

	<ul style="list-style-type: none"> • Organization/Firm Name • Contact Name • Phone Number 	Provide Reference Information Below City of Mesa, Pete Scarratelli 480-644-5909 City of Phoenix, Ross Labadie 602-262-4788 City of Peoria, Charlie Johnson 623-773-7495
11	List number of units already built to these specifications and body configurations	Provide quantities below
	Front Loaders	McNeilus 2000 plus
	Rear Loaders	McNeilus 2000 plus
	Side Loaders	Dodge Mfg 200+

City of Scottsdale, Rick Tognio 480-312-5577
 City of Avondale, Ross Ellis 623-333-4474
 Town of Gilbert, Bill Kohn 480-503-6526

Specifications – Cab and Chassis

Return this Section with your Response

Desired minimum specification for vehicle chassis. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

A	Cab	Vendor Response			
		Yes	No	Exception	
	1	2 door COE Design - Required	✓		
	a	Specify Manufacturer			<i>Peterbilt</i>
	b	Specify Model			<i>320</i>
	c	Specify Warranty			<i>Base, 1 year 100k see attached</i>
	2	Instruments – Fuel, voltmeter, oil pressure, air pressure, water temperature, transmission temperature, tachometer, & speedometer.	✓		
	a	Each gauge shall be independently wired and grounded. Units with “Smart Gauge” systems will not be accepted unless software, hardware and training is provided to allow the City the ability to reprogram and reset gauges.	✓		<i>what are you doing</i>
	3	Driver’s seat with air lumbar support, National Seating model Standard Plus or Captain series or equal high-back, low profile air ride- cloth covered.	✓		<i>Not incl, not Standard plus or captain</i>
	a	Drives seat shall be mounted in a way to provide the maximum amount of rearward adjustment that the cab will allow providing maximum legroom for driver.	✓		
	4	Matching air ride Passenger seat supplied with air control on right side of seat - cloth covered.	✓		
	5	Dual windshield wipers and washers	✓		
	6	Dual sun visors	✓	✓	<i>single RV style</i>
	7	AM/FM/CD radio	✓		
	8	Tinted safety glass	✓		
	9	All windows, excluding windshield, to be covered with the darkest available high performance metalized film (complaint with local legal requirements).	✓		
	a	Windshield shall have a full width strip, 4” to 5” wide, of tint along the top edge across the entire windshield	✓		
	10	Door windows shall be power assisted with controls easily accessible to the driver.	✓		
	a	Motors shall be mounted inside the door and shall not protrude past door panel	✓		
	11	Dual 6” x 16” collapsible west coast mirrors with 8” convex mirror mounted at base of frame	✓	✓	<i>Velvac RV Style</i>
	12	Dual air conditioning system. Factory installed dash air system and roof air system designed to operate with A/C coming out dash and roof vents at the same time if needed. To be of sufficient size and rating for use in ambient	✓		

		temperatures of up to 120 degrees Fahrenheit.	✓		
13		Roof air conditioning will incorporate a Red Dot R-2000 ceiling mount evaporator or equal. All repair components to be available locally. Condenser to be factory installed dual fan, roof mount. Unit and all components, including condenser, installed in a manner that does not interfere with any of the truck or refuse operational controls.	✓	✓	Additional Red Dot system, Installed at Bush Truck Center.
14		Factory installed heater and defroster	✓		
15		LED chassis lighting package incorporating solid mounts with mid body turn signal is required	✓		
16		All wiring must be neatly loomed and routed	✓		
17		12 volt cigarette lighter style power accessory receptacle within easy access of driver is to be provided – minimum 15 amp rating	✓		
18		Double/extended brake pedal	✓		
19		Color Nutmeg – AXALTA (Dupont) Imron Elite or equal)	✓		
20		Any wiring or plumbing running up the side or over the roof of body shall be protected from tree limbs, or other obstructions, that might contact the body	✓		
	a	Weather pack connectors shall be used at all connectors that might be subject to inclement weather.	✓		
	b	All areas where wiring passes through sheet metal and panel openings are to be grommeted	✓		
21		Mud flaps installed on front and rear fenders to keep mud and debris from getting on refuse box or any components – no advertising allowed	✓		
22		Metal shield to be mounted ahead of front tandem tires and extend downward a sufficient length to prevent mud and debris from getting on refuse box or any components.	✓		
23		Full engine enclosure and cab floor heat and noise insulation to be provided	✓		
	a	Insulation is to cover the complete underside of the “doghouse” and extend out both sides coating the cab floor	✓		
	b	Bayseal 2.7P closed cell roofing foam or approved equal	✓		
	c	Ceramic insulating beads added into topcoat for additional heat reflective properties	✓		
24		Full cab wall and roof insulation to be provided – minimum R-18	✓		
	a	Area behind driver shall be fully insulated and finished – floor to headliner with the exception of rear window	✓		
			Vendor Response		
B	Chassis		Yes	No	Exception
1		GVRW – minimum 58,000#	✓		
2		Wheel-base, cab to axle and overhang shall all meet respective body manufacturer’s requirements. It is the vendor’s responsibility to design the unit and guarantee legal load limits and weight distribution using average weights under normal conditions.	✓		
3		Frame rails of sufficient strength and rating to withstand continuous refuse truck service. The RBM rating of at least 3,000,000 in the main section, primarily of bolted construction with as few rivets as possible.	✓		
	a	No welding or frame rails or cross members	✓		
	b	No drilling of frame rail flanges	✓		
4		Front axle - 20,000# minimum with springs and shocks	✓		
5		Springs and spring hangers for front axle to exceed the rating of the axle.	✓		
6		Rear axle – Tandem axles with dual wheels and a minimum 40,000# rear axle rating – Meritor MT40-14X .	✓		Rena Spicer OSH 44
7		Axles to have outboard drums and hub seals.	✓		
8		6.14 gear ratio to optimize refuse can to can power and speed, and be able to obtain approximately 60 mph road speed.	✓		
	a	State gear ratios and MPH calculations offered			6.17 60mph @ 2,000 rpm
9		Rear suspension – Hendrickson Haulmaax HMX-400 or approved equal. Suspension capable of withstanding a minimum GVWR of 40,000 #.	✓		

	a	Specify Brand, Model and rating offered	<i>Hendrickson HMX-400</i>		
10		Rear suspension – Hendrickson HMX-400 or approved equal. Suspension capable of withstanding a GVWR of 60,000#.	✓		
	a	Specify Brand, Model and rating offered	<i>Hendrickson HMX-400, 60k creep</i>		
11		Brakes – dual circuit anti-lock, air	✓		
	a	S cam actuators with automatic slack adjusters required	✓		
	b	18.0 CFM minimum compressor	✓		
	c	Air dryer with replaceable cartridge shall be included – spin on preferred	✓		
	d	Air system to have air coupling or stem valve to allow pressurization of system from an outside source	✓		
	e	Air tanks shall be plumbed to allow manual draining without getting under the vehicle			
	f	State front brake size	<i>16.5" x 7"</i>		
	g	State rear brake size – Tandem Drive Axle	<i>16.5" x 8.6"</i>		
12		Parking Brake – air activated release, spring loaded	✓		
13		Tires – radial tubeless with standard highway tread (must be new tires – no retreads)			
	a	Size - 315/80R22.5 load range L	✓		
14		Wheels – Aluminum disc, 10 hole hub-piloted	✓		
15		Fuel Tank Capacity – approximately 70 gallon DFE	✓		
	a	State tank capacity	<i>min 70 gal. varies with body supplier.</i>		
16		A means for towing vehicle with wrecker must be provided. Pick up loops or eyes on front of vehicle strong enough to tow the vehicle with the front wheels off the ground. Must have a front bumper.	✓		
17		Hydraulic power steering	✓		
	a	Reservoir shall be mounted that allows checking and filling from ground level	✓	✓	<i>check from ground, fill with short step ladder</i>
18		Smallest available steering wheel to be installed	✓		
	a	State outside diameter of wheel to be provided	<i>16"</i>		
			Vendor Response		
C	Engine		Yes	No	Exception
1		EPA compliant electronically controlled, water cooled, 4 cycle CNG engine. Cummins ISL-G (320 HP) minimum or equal.	✓		
	a	State Manufacturer	<i>Cummins</i>		
	b	State Model	<i>ISL-G</i>		
	c	State Horsepower	<i>320/2200</i>		
	d	State Torque	<i>1000/1300</i>		
	e	State year of manufacture	<i>2015</i>		
2		It is required that engine, injectors, fuel pump, turbo, and after treatment if equipped, be warranted for 5 years/100,000 miles with no deductible	✓		<i>5yr 150k w/ ISL-G</i>
3		Oil Filter – full flow, spin-on	✓		
4		Air Cleaner – dry type – dual element. Air intake for the engine must be from a point above roof of cab and properly bonneted to keep out moisture. Intake system to have restriction gauge mounted on the air cleaner housing.	✓		
5		Coolant Filtration System – spin on type with pre charged element		✓	
6		Cooling system must have the largest heavy-duty components available with coolant recovery system. Cooling system filter equipped. Manufacturer must state that cooling system will keep engine at normal operating temperature in very dusty conditions and in temperatures that can reach 120 degree Fahrenheit. The preferred cooling system will have no more than one radiator, frontally mounted.	✓	✓	<i>no coolant filter,</i>
	a	Metal surge tank preferred	✓		
	b	If plastic tank used, it must be warrantied for a minimum of five (5) years for workmanship, cracks, leaks or sun damage			
	c	Hoses (radiator, by-pass and heater) – Gates Blue Stripe or equal	✓		

	d	Hose clamps to be worm drive compatible with silicone rubber	✓		
7		Turbo shall have a separate heat shield to deflect heat from cab floor or vehicle interior	✓		
8		Engine alarm and shutdown system for high water temperature and low oil pressure. System must be OEM approved.	✓		
9		Engine supplied with high quality fuel filtering system to remove all impurities, including water, from the fuel with spin on filter.	✓		
10		Alternator – 12 volt Delco HD 33Si series 135 amp minimum .	✓		
	a	State alternator manufacturer, model and amperage			<i>Delco 36 si, 160 amp. Brushless.</i>
11		Batteries – 3 ea 12 volt low, or maintenance free, 2250 CCA minimum	✓	✓	<i>2100 CCA.</i>
12		Cables professionally formed and routed with the shortest cable possible to reduce voltage drop and amp loss.	✓		
13		Batteries housed in covered container that is resistant to corrosion and yet must be easily accessible for servicing.	✓		
14		Unit must be supplied with a battery cut off switch with lockout. The switch is to be mounted as close to the batteries as possible and wired to interrupt the positive battery feed.	✓		
	a	Fused circuit to maintain power to cab radio for retention of set station memory	✓		
	b	No keyed battery disconnect switches	✓		
15		Exhaust System – Proper heat shielding is required to preclude refuse debris from contacting any heat sources created by the turbo and exhaust system components. Height of system, including diffuser, should not exceed height of body.	✓		
D Transmission			Vendor Response		
			Yes	No	Exception
1		Allison automatic – 4500 RDS, 6 speed – wide ratio	✓		
	a	Push button selector	✓		
	b	Filter – spin-on, located conveniently for service	✓		
	c	Transmission oil to air or oil to coolant water cooler	✓		
2		Equipped with internal retarder			
3		Dipstick provided – must be accessible from the ground without tilting the cab.	✓		
4		Transmission must be supplied from the factory with Allison approved Transynd synthetic fluid.	✓		
5		Allison ETC 5 year extended warranty to be included	✓		
E Manuals			Vendor Response		
			Yes	No	Exception
1		The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.	✓	✓	<i>Peterbilt Web E-Cab 2 year \$350 per year thereafter</i>
2		If online manuals are not yet available, digital versions can be substituted; however, they must be in PDF format. Pdf manuals must be searchable by item/topic.		✓	
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.	✓		
3		Service Manuals – to include comprehensive hydraulic and wiring schematics			
	a	Chassis	✓		
	b	Engine	✓		
	c	Transmission	✓		
	d	ABS	✓		
	e	Body	✓		<i>Supplied by body Co.</i>
4		Parts Manuals			
	a	Chassis	✓		
	b	Engine	✓		

	c	Transmission	✓		
	d	ABS	✓		
	e	Body	✓		← Supplied by body co.
	5	Operators manual – two (2) – to be supplied with each unit	✓		
			Vendor Response		
F	Training		Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel	✓		
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.	✓		
			Vendor Response		
G	Miscellaneous		Yes	No	Exception
	1	Data label shall be affixed to the vehicle that lists all fluid capacities and fluid type	✓		
	2	MCO supplied at time of delivery is required	✓		
	3	A minimum of 4 sets of keys shall be supplied at time of delivery	✓		
	4	If multiple units are ordered, all units shall be keyed alike unless otherwise specified	✓		

McNeilus

Specifications – Front Loader

Return this Section with your Response

Desired minimum specification for front load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate "No" and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of 'approved equals'.

Specification Multiplier

- Item marked with are required - if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

Item	Description	Vendor Response		
		Yes	No	Exception
1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process	✓		
a	State wall to wall turning diameter for unit submitted	205 WB - 3 Axle / 69' / 67 WB - 1 Axle / 68' approx.		
b	State curb to curb turning diameter for unit submitted			
c	State wheel cut for submitted unit	13-16°		
2	Unit shall be supplied with a dual camera system. Safety Vision SV-CLCD-65 or approved equal, with 7" flat screen monitor in cab.	X		
a	State Manufacturer and Model	McNeilus Street Smart 7"		
b	One camera mounted on the tailgate, illumination provided by two flood lights facing rearward - wired to illuminate when transmission is put in reverse.	X		
c	Second camera to be armored and mounted in a protected area above the hopper to provide view of the hopper interior. Camera to be wired to be activated by the driver from the drivers seat.	X		
	Third camera mounted to right side of tailgate pointing directly to the right to show oncoming traffic if backing into the street.	X		
d	Display to be able to display split image from cameras	X		
e	One protected floodlight is to be provided situated to illuminate the rear side of packer blade. Light shall be mounted as close as possible to the screen in front of the hopper area in order to reduce light reflection off the screen.	X		
	One (1) flood light mounted on each side of the refuse body midpoint	X		

		designed to light up toward the rear of the truck when in reverse.			
	3	Shall have an under ride bumper that meets all federal, state and local requirements	X		
	4	Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.	X		
	5	Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss	X		
	6	All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.	X		
	7	The body shall incorporate a electric over hydraulic service hoist that can easily lift the body off of the frame when the truck is unloaded. The lift shall be constructed in a way to raise the front portion of the body with the pivot at the rear of body. There shall be body props that safely hold the body in the lifted position. The minimum raised height of a safely propped body shall be 26" high. The point of measure shall be no more than 24" back from the most forward point of the body.	X		
	a	Lifting of body shall not require tools. An operator in the field must be able to remove any body to frame fastening devices and raise the body with no additional help from an assistant or hardware.		X	1 7/8" Wrench
	8	3,600 PSI CNG tanks will be roof mounted on the refuse body with a protective shield to guard the tanks from damage from alley operations. Guards will be easily removed for service work. A total DGE of approximately 70 gallons.	X		
		State gallons offered			75 DGE
	9	One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.	X		
	10	Body height of CNG unit will be low profile body design that does not increase the height of the truck beyond a diesel powered truck.	X		
	11	State total transport height of completed unit mounted on chassis.			13'6"
B	Warranties		Vendor Response		
	1	Minimum two (2) year on all parts, materials and labor	X		
	a	Specify the warranty that you will offer			2 Years
	2	All hydraulic cylinders shall be four (4) years on parts and labor including seals	X		
	a	State the warranty that you will offer			4 Years
	3	Minimum seven (7) years on hopper floor and sides on all parts and labor	X		
	a	Specify the warranty that you will offer			7 Years
	4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.	X		
	a	Specify the warranty that you will offer			5 Years
C	DGE's		Vendor Response		
	1	40 yard capacity	X		
	a	State Manufacturer			McNeilus
	b	State Model			Contender/Meridian
	c	State wet weight of Cab & Chassis			16,525
	d	State wet weight of Refuse Unit			20,270
	e	State wet weight of entire unit without refuse load			36,795

	f	State Wheelbase for unit	205 - 3 Axle	197 - 4 Axle
	g	State Length of completed unit	386 inches	
	h	State Width of completed unit	96 inches	
	i	State Height of completed unit	13'6"	
	j	State achievable payload capacity for unit offered	28,000	
	k	State achievable pounds per yard compaction	700	
2		Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components	X	
3		LED lighting package with solid mounts required.	X	
4		Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.	X	
5		Center mounted LED brake light is required	X	
6		Ecco model 210 electronic back up alarm to be installed	X	
7		All exterior seams and abutments continuously welded for strength and neatness of appearance.	X	
8		A front cab guard protector is required. Top anchor points of cab guard mounted to cab roof. Lower anchor points mounted to cab hinges in such a way that guard will tilt with cab.	X	
9		Body equipped with a cab protector shield. Cab shield designed to allow full tilting of the cab without raising body. The cab protector will be provided with a hydraulic tilting feature to hydraulically move the cover allowing the cab to be tilted fully forward. The cab protector will include a drain trough that will direct liquids from the cab protector into the body sump.	X	
	a	If two piece canopy is used in order to facilitate the ability to tilt the cab forward without lifting the body, the hinge point of the canopy shall be no further forward than the rear edge of the cab. This will allow Tempe to utilize a larger roof mounted A/C	X	
10		Wind screen attached to prevent blowing of material during discharge of the container	X	
11		A bolt on expanded metal screen will be mounted on the front of the refuse body. The screen will prohibit the escaping of loose refuse from the hopper area behind the packer and onto the truck engine and transmission.	X	
	a	Screen shall have a frame around it that is secured to the body without welding to allow removal for access during repairs	X	
12		A ladder is to be provided on the rear to gain access to the top of the refuse body. State location of ladder.	X	
	a	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.	X	
	b	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight	X	
	c	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion	X	
13		State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.	13,205 - 3 Axle	18,545 - 4 Axle
			Material Standards	
			YES	NO
	1	Entire body to be constructed of eight (8) gauge 80,000 PSI steel minimum to withstand repeated packing cycles without distortion or creasing of the refuse containing area.	X	
	2	Body floor shall be flat full width minimum 3/16" 150,000 PSI steel.		X Curved Body Floor
	3	Floor longitudinals required with crossmembers located on minimum 18"	X	

		Weight Restrictions	
		Max	Exceeds
	centers to withstand continuous operation at maximum loads.		
4	12 gauge steel may be used for roof constructions – adequate bracing of the roof crown must be provided to dissipate forces equally through the body structure	X	
1	Tailgate to be top hinged – one piece	X	
2	Tailgate constructed of minimum 10 gauge steel and sufficiently reinforced to withstand repeated packing	X	
	a State tailgate configuration	Hinge Mount 8 point Lock	
	b State tailgate size	4.3 yds	
	c State tailgate design	Bubble	
3	Tailgate shall be raised by hydraulic cylinders for load ejection.	X	
a	Tailgate cylinders to incorporate a restriction device to prevent rapid descent in the case of hydraulic failure	X	
4	Tailgate movement and latching controlled from inside of cab.	X	
5	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation to a minimum level of 24".	X	
6	The tailgate is to incorporate a heavy duty positive type hydraulic latch operated from inside the cab.	X	
a	Controls shall be guarded to prevent accidental activation during travel or loading	X	
b	System shall include a visual and audible warning to notify operator if latch is not fully closed.	X	
7	Hinge mounts reinforced where attached to body.	X	
8	Heavy duty tailgate service props provided.	X	
1	Hopper area to receive from the top and be designed to accommodate containers from one (1) through ten (10) cubic yard capacity.	X	
2	12 yd hopper capacity minimum	X	
	State hopper capacity in cubic yards and also state height, width and length.	12 yards 7'H x 7'L x 6.8' W	
3	Hopper design to include a flat floor with straight vertical sidewalls. Hopper floor to be ¼" preferred hardox AR-450 abrasion resistant steel plate (203,000 PSI tensile strength). Sufficient under floor bracing to include full width crossmembers on 18" center minimum that are interlaced with longitudinal supports.	X	¼" AR-400
4	All external welds of hopper side bracing shall be continuous full seam.	X	
5	Inside of the hopper shall be plug welded for additional strength	X	
6	An under hopper liquid sump shall be designed to provide a 40 gallon sump for liquid retention. Clean out doors with seals shall be provided on both curb and street sides to remove debris from the liquid sump without having to enter the truck body. A clean out rake or similar tool provided with a saddle mounted on the truck body provided to carry the tool	X	
7	Clean out doors with water tight seals	X	
a	If the design of the packer is such that debris that falls behind the packer blade is cleaned out automatically and completely, then clean out doors are not required. Tempe will be the sole determiner if the design is adequate to completely clean the hopper area of debris.	N/A	
8	Access to hopper to be provided for cleaning purposes.	X	
a	Access to meet ANSI Safety Requirements.	X	
b	Door to be equipped with a reliable, positive latch and inter-lock system to prevent arm or packer blade movement if not properly latched.	X	
c	Two grab handles are preferred - one above door and on the side of door	X	
d	Door shall have a minimum opening of 24" wide x 32" tall	X	
9	Hydraulically operated horizontal sliding top hopper door to be included.	X	

		Welding Requirements		
		Yes	No	Exception
	Operated by a double acting hydraulic cylinder with a red warning light on dash to warn the operator when the door is not fully closed.			
	a Hopper top door will have an interlock that will prevent the arms from dumping onto the top door	X		
	b Open to close time to be 6 seconds maximum	X		
	c Shall be constructed of steel sheet metal and able to support a 220 pound operator without denting, creasing or permanently distorting.	X		
Packers		Welding Requirements		
		Yes	No	Exception
1	Partial pack – full eject packer system.	X		
	a State design of packing system offered	Half Pack – Full Eject		
2	Packer blade shall be constructed of 3/16" minimum 100,000 PSI steel braced to withstand, without distortion, repeated application of maximum packing	X		
	a Packer shall be reinforced with a combination of structural members for maximum strength and rigidity	X		
3	Packer designed to prevent spillage of refuse over the top of the packer during both the pack and retract cycle.	X		
	a Sharks teeth at the top of the packer blade to help prevent spillage of trash over the blade during compaction	X		
4	It is preferred that the packer cycle time not to exceed 20 seconds (Cycle is full packer stroke out and return)	X		
	a State guaranteed packer cycle time in seconds	20 seconds		
5	Packer guide tracks shall be welded in and made from Hardox AR-450 -- 203,000 PSI tensile strength steel	Exc		Chromium Carbide
6	Packer shall have a wear plate/scrapper blade across the bottom of packer that runs across the entire width of packer	X		
7	Packer cylinders shall have the ability to be greased without entering the hopper.	X		
	a If remote hoses are used to accomplish this, all hoses must be steel braided for strength and durability and secured in a way that prevents damage from refuse material	X		
8	Packer blade size and travel designed to clear hopper area of trash without having to pack multiple times.	X		
9	Packer system must allow packing while driving from can to can.	X		
Dumping		Welding Requirements		
		Yes	No	Exception
1	Dumping shall allow for complete emptying of the refuse body without the operator having to pull or clean remaining refuse from body.	X		
Hydraulics		Welding Requirements		
		Yes	No	Exception
1	It is preferred that the system operate at 2,500 psi or less	X		
	a State system operating pressure	2,500 psi		
2	Will your system use a front mount or transmission mount PTO setup			Front Vauc
	a If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.	X		
	b State distance the front mount pump will extend forward of bumper or extend the bumper.	3.5 inches		
3	Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit	X		
4	Hydraulic reservoir shall be properly baffled	X		
	a State capacity of reservoir	50 Gallons		
	b Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.	X		
	c Tank shall be complete with screened fill port, magnetic drain plug, shut off	X		

		vale, oil level sight gauge and temperature gauge			
5		Preferred hydraulic system shall be fuel efficient and designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions		X	Cannot be done with city preferred Front-mounted Pump
	a	Pump(s) shall have full load sensing controls that provide power only when needed and thus reduce HP draw from the engine when hydraulic functions are not being used		X	
	b	System shall be designed in a way so that the hydraulic pump(s) will only provide the minimum flow required for each specific hydraulic function when commanded		X	
	c	System shall be designed in a way so that the pump(s) will go to zero flow and low pressure standby when no hydraulic functions are commanded regardless of engine speed		X	
	d	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss		X	Transmission mounted pump needed for this option
		Give a detailed description how your hydraulic system will accomplish this goal.	Chelsea 890 PTO with Fuel Saving Vane Pump will achieve this and other options. Available in option section.		
6		All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise.		X	
	a	Tubes running the length of the body roof shall be protected from tree limbs.		X	
	b	Exposed hoses or tubes running over the body structure will not be accepted.		X	
7		Pump to body hard plumbing shall be provided. Flex hoses shall be provided at each end of the hard plumbing to provide adequate flexure to prevent hydraulic leaks		X	
8		All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output		X	
	a	Hoses shall conform to SAE standards for designed pressure.		X	
	b	Bends shall not be more than recommended by SAE standards		X	
	c	Flat spots in hoses or lines will not be acceptable		X	
	d	Pressure hoses shall be protected with fabric guard		X	
9		All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel		X	
10		In line high pressure filter assembly mounted for easy access.		X	
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator		X	
	b	Spin on filter preferred		X	
	c	Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage		X	
	d	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid		X	
11		All valves shall be located in a manner to allow easy access by technician for diagnosis and repair		X	
12		Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing		X	
13		All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve		X	
14		Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.		X	
	a	Cylinder design shall decrease the speed of the cylinder at least the last ½"		X	

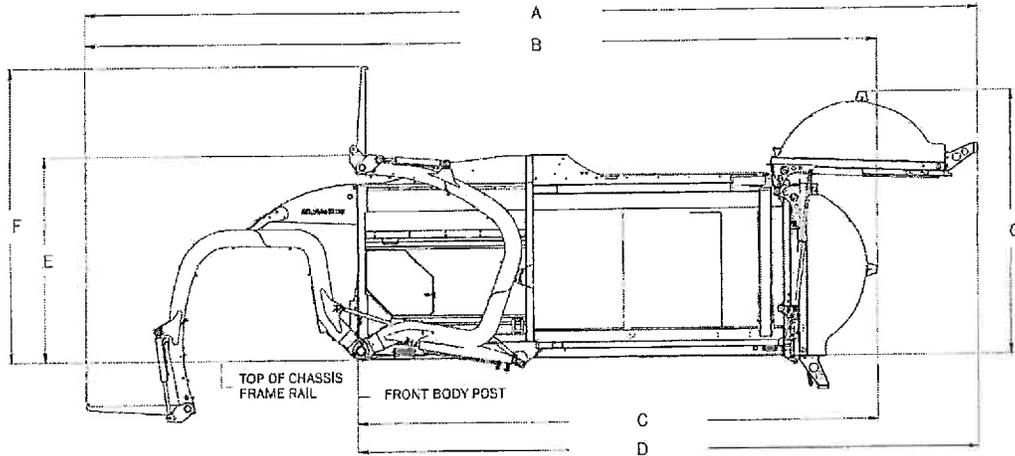
		of cylinder stroke in both direction of travel			
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.	X		Nitrated
	c	Rods of all cylinders shall be chrome plated	X		Nitrated Packer
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally	X		
	e	State brand of cylinders on unit offered		Mailhot - packer	Rosenboom - all others
Front Loader		Variable Features			
		Yes	No	New Option	
1		Arms of the front loading refuse body capable of lifting a minimum of 8,000 pounds gross load measured at the centerline of an eight (8) cubic yard container.	X		
	a	State design and type of construction			Solid Piece Steel
	b	State manner in which the arms attach to body			Bolt On
2		Lifting arms must not obstruct cab doors on either side during dumping cycle.	X		
		Bolt on replaceable rubber arm stops are required	X		
4		Lifting arms provided with 51" forks for pickup of containers equipped with side sleeves.	X		
5		Lift arms and forks shall be designed to service container of one (1) to eight (8) cubic yard capacity.	X		
	a	Replaceable fork cross shaft rubber bumpers required	X		
6		Lift arms to have limiting cylinders or safety device to prevent them from tilting into cab and windshield when in the stored position.	X		
	a	State design and placement of lift arms in travel position			Pulled Back over Body - Tucked Away
7		Rabbit ear style control levers for all functions provided inside cab within easy reach of the driver.	X		
8		Lifting device and packer controls shall be electric over hydraulic with proportional control or feathering capabilities		X	Air/Hydraulic
9		Controls shall have an operator initiated "shake" function to allow operator to simulate a quick back and forth motion of the refuse container at the hopper to help loosen stuck debris in refuse container. "Shake" function control shall be mounted in a way that does not require the operator to move their hand to another control position to use feature. "shake feature shall move container back and forth a minimum of 2 times. Custom programming of the length, speed and quantity of container shaking is preferred.		X	
10		Hydraulic system and controls shall have on board diagnostic capabilities from information screen in the cab	X		
	a	Information screen shall provide real time information as well as allow for user programming, system diagnostic and customization of functions	X		
	b	On board customization shall have security levels of permissions so that the City can control the level of permissions for operators and technicians	X		
	c	Lift arm counter shall be provided that measures refuse can dump cycles as well as packer cycles.	X		
11		Lifting arms equipped with steel tubular type hydraulic cylinders with sufficient rated capacity to effectively operate with the maximum rated load at maximum efficiency.	X		
12		Hydraulic cylinders will rotate containers into hopper with sufficient angle to cleanly and quickly discharge material	X		
13		It is preferred that the dump cycle time not to exceed 16 seconds (Cycle is full sweep up, dump, un-dump and lowered to the fully down position)	X		
	a	State guaranteed dump cycle time			16 seconds
14		Forks shall have a raised protrusion on the top of the outward end to assist in the prevention of cans slipping off of fork when the can is upright	X		
15		System shall incorporate an automatic function of slowing the arms to a smooth	X		

		Vendor Response		
		Yes	No	Exception
	stop when moving the arms to the fully stored position to prevent damage to arm stops and other affected arm components.			
a	Heavy duty bolt-on hard rubber arm stops located at the side of body shall cushion and prevent over travel of the lift arms	X		
		Vendor Response		
		Yes	No	Exception
1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted	X		
2	Finish shall be white to match cab color	X		
3	City prefers powder coat finish with a minimum 4 mil thickness		X	
a	Specify the type of finish will you provide? Atzo High Solids Acrylic Urethane			
		Vendor Response		
		Yes	No	Exception
1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.	X		
2	If online manuals are not yet available, digital versions can be substituted, however, they must be in PDF format. Pdf manuals must be searchable by item/topic.	X		
a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.	X		
3	Service Manuals -- to include comprehensive hydraulic and wiring schematics	X		
a	Body	X		
b	Hydraulics	X		
4	Parts Manuals			
a	Body	X		
b	Hydraulics	X		
5	Operators manual -- two (2) -- to be supplied with each unit	X		
		Vendor Response		
		Yes	No	Exception
1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel	X		
2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.	X		



CONTENDER FRONT END LOADER

Key Specifications and Features



DESCRIPTION	CONTENDER									
	32 YD	29.3M	36 YD	32.9M	40 MED	36.6M	40 LONG	36.6M	43 YD	39.3M
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
O.A.L.-Arms Down, TG Open (A)	480	12,179	520	13,195	520	13,195	534	13,551	534	13,551
O.A.L.-Arms Down, TG Closed (B)	420	10,671	442	11,217	460	11,687	456	11,572	474	12,042
O.A.L.-Arms Stowed, TG Closed (C)	262	6,642	283	7,188	302	7,658	297	7,543	316	8,014
O.A.L.-Arms Stowed, TG Open (D)	321	8,151	361	9,167	361	9,167	375	9,523	375	9,523
Height-Arms/Fork Stowed (E)	119	3,025	119	3,025	119	3,025	119	3,025	119	3,025
Height-Arms Stowed/Forks Up (F)	171	4,336	171	4,336	171	4,336	171	4,336	171	4,336
Height-Tailgate Raised (G)	153	3,891	135	3,421	153	3,891	135	3,421	153	3,891

The Contender Front Loader is a middleweight that hits the sweet spot – delivering optimal payload & durability for commercial & residential haulers.

- Range of body sizes, from 32-43 cubic yards, to meet a wide range of requirements.
- High-strength, 3/16-inch AR400 single-sheet steel hopper wall for added durability, and 3/16-inch AR400 steel hopper floor for added strength.
- 13-cubic-yard hopper with flat floor offers excellent capacity.
- The Contender maximizes efficiency with a fast pack cycle that keeps the hopper clear at all times.
- Rounded body floor for easier clean out.
- Air lift canopy offers excellent coverage on all chassis cabs.
- Command Zone™ multiplexed and CAN-based controls are the most advanced, easiest to use in the industry, with operator status display and full diagnostics.
- Exclusive McNeilus® Excalibre™ cylinders feature a hardened tool steel scraper that drastically reduces hydraulic contamination.
- Industry's best factory-direct service and support network, with mobile service trucks ready to answer your call.
- Paint process features high solids epoxy primer and Sikkens top coat for long lasting protection and appearance.
- Proudly Made in the USA.
- Next Generation (NGEN) Compressed Natural Gas (CNG) available on a range of chassis choices and configurations.



Specifications – Rear Loader

Return this Section with your Response

Desired minimum specification for rear load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

A	Rear Load Specific Specifications	Vendor Response		
		Yes	No	Exception
1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process	✓		
	a State wall to wall turning diameter for unit submitted	1' 8" vs 6' 67' approx		
	b State curb to curb turning diameter for unit submitted			
	c State wheel cut for submitted unit	43-46°		
2	Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.	X		
3	Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss	X		
4	All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.	X		
5	CNG tanks will be mounted outboard on the truck frame with one on each side with a total DGE of approximately 70 gallons.	X		
	State gallons offered	64DGE		
6	One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.	X		

B	Warranty	Vendor Response		
		Yes	No	Exception
1	Minimum two (2) year on all parts, materials and labor	X		
a	Specify the warranty that you will offer	2 Years		
2	All hydraulic cylinders shall be four (4) years on parts and labor including seals	X		
a	State the warranty that you will offer	4 Years		
3	Minimum seven (7) years on hopper floor and sides on all parts and labor	X		
a	Specify the warranty that you will offer	7 Years		
4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.	X		
a	Specify the warranty that you will offer	5 Years		
C	Body	Vendor Response		
		Yes	No	Exception
1	25 yard capacity exclusive of tailgate hopper	X		
a	State Manufacturer	McNeilus		
b	State Model	Heavy Duty 3.5yd TG		
c	State wet weight of cab and chassis	15,770		
d	State wet weight of refuse unit	18,611		
e	State wet weight of entire unit without refuse load	34,381		
f	State Wheelbase of unit	188 inches		
g	State Length of completed unit	375 inches		
h	State Width of completed unit	96 inches		
i	State Height of completed unit	141 inches		
j	State achievable payload capacity for unit offered	25,000		
k	State achievable pounds per yard compaction	1,000		
2	Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components	X		
3	LED lighting package incorporating solid mounts is required .	X		
4	Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.	X		
5	Center mounted LED brake light is required	X		
6	Ecco model 210 electronic back up alarm to be installed	X		
7	Structural integrity of the body shall allow high density loading – minimum of 1,000 pounds per cubic yard of normal refuse.	X		
8	Body shall be constructed in such a fashion, and from materials, that will allow repeated packing cycles without distortion of body.	X		
9	Body side door supplied. Access must meet ANSI Safety requirements. Door must be equipped with a reliable and positive latch.	X		
h	Door to be equipped with a safety interlock to disable pump functioning when door is open.	X		
10	State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.	12,754		
D	Tailgate	Vendor Response		
		Yes	No	Exception
1	Tailgate to be top hinged	X		
2	Tailgate shall be raised by hydraulic cylinders for load ejection.	X		
a	Tailgate cylinders to incorporate a restriction device to prevent rapid decent in the case of hydraulic failure	X		
3	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation.	X		
4	Tailgate shall incorporate a heavy duty positive type latch.	X		
5	Heavy duty tailgate service props provided.	X		

		Vendor Response				
		Yes	No	Exception		
	6	Tailgate and latch shall be constructed in such a way that it will handle a hitch installation to provide for a 12,000 GVWR trailer to be pulled by this vehicle		X		
E	Hopper		Vendor Response			
			Yes	No	Exception	
	1	Capacity 3.5 cubic yards – minimum	X			
	a	State hopper capacity			3.5 yards	
	2	Hopper opening height 50" – minimum	X			
	a	State opening height			60 inches	
	3	Hopper loading width 80" – minimum	X			
	a	State opening width			80 inches	
	4	Hopper able to accept a solid object of not less than 30" diameter	X			
	a	State maximum diameter of object			60 inches	
	5	The City will be using these vehicles for collection of uncontained refuse which may include tree stumps and other large bulky items. Hopper must be of Heavy Duty construction	X			
	6	Hopper floor, sides and loading area to be constructs of 1/4" 150,000 PSI steel - minimum	X			
	a	Hopper floor, face and sides shall be overlaid with minimum 3/16" 150,000 PSI steel.	X			
	b	Liners shall be plug welded in place for convenience during replacement.	X			
F	Packer		Vendor Response			
			Yes	No	Exception	
	1	Packing mechanism to consist of two primary structures – Carrier Panel and Packing Blade.	X			
	2	Carrier panel shall be mounted in the tailgate and guided by upper and lower slide shoes	X			
	a	Shoes shall provide both vertical and lateral load bearing	X			
	b	Shoes shall be able to rotate 180 degrees for extended service life	X			
	c	Carrier panel to be constructed from 3/16" 150,000 PSI steel in all areas having contact with refuse.	X			
	d	Packing blade hinge lugs shall be constructed using 2-1/2" minimum 150,000 PSI steel	X			
	e	Link arm type carrier panels will not be accepted.	N/A			
	f	Primary compaction to be accomplished with two double action hydraulic cylinders mounted inside of the hopper confines.	X			
	3	Packer blade shall be mounted to and pivot on the carrier panel hinge lugs with heat treated induction hardened steel pins and steel spherical bearings to maintain alignment.	X			
	a	Blade shall be constructed of 3/16" 150,000 PSI steel.	X			
	b	A 3/16" 150,000 PSI steel liner shall be plug welded to packer face.	X			
	c	Packer blade lower edge double supported to resist distortion during packing cycle of large bulk items.	X			
d	Pre compaction accomplished by two double action large bore cushioned hydraulic cylinders located inside of hopper.	X				
4	Each hopper full of material shall be compressed between the packing blade, carrier panel and ejector panel. The ejector panel will automatically advance forward as the body fills, in reaction to the packing forces and a pre-adjusted ejector unload valve. No operator attention shall be required to adjust the panel forward as the body fills	X				
5	The packer mechanism shall be equipped with an automatic crowd pressure sensing device which will enable the packing mechanism to find a path through the load and will neither stall the mechanism or damage the structure.	X				
6	Packer cycle control shall be mechanical, lever operated on the right hand side of tailgate.	X				
a	Electric over hydraulic controls are permissible. If used, there must be a large, easily visible and accessible emergency "stop" button or device	X				

		provided			
	b	Capable of start, stop and reverse at any time throughout the cycle.	X		
	c	Both packer blade and the carrier panel shall have the ability to "hold" valve in either direction with a detent or other design so that the operator does not have to hold the control to complete the cycle. Control will automatically free up and move to neutral position at the end of the hydraulic cycle.	X		
	d	An auto pack function shall allow for first the sweep and then the packing function in sequential and automatic fashion.	X		
7		Packer cycle time of 20 seconds or less preferred	X		
	a	State guaranteed packer cycle time			20 seconds
8		Operator reload time of 10 seconds or less preferred	X		
	a	State guaranteed packer reload time			10 seconds
G	Load Discharge		Vendor Response		
			Yes	No	Exception
1		Load discharge shall be by means of a positive ejections system.	X		
	a	Double acting, telescopic, hydraulic cylinder shall extend and retract the ejector panel the full length of the body.	X		
2		Ejector panel shall be constructed from minimum 11 gauge hi-tensile strength steel on all surfaces	X		
	a	Panels construction shall include reinforcement to withstand repeated packing and ejection forces without distortion to the ejector panel	X		
3		Ejector panel shall travel the length of the body on a minimum of 4 replaceable wear shoes	X		
	a	State material for shoes			Quick Change UHMW Polyethylene Shoes
	b	Wear shoes must be replaceable without removal of the ejector panel.	X		
H	Hydraulics		Vendor Response		
			Yes	No	Exception
1		It is preferred that the system operate at 2,500 psi or less	X		
	a	State system operating pressure			2450
2		Will your system use a front mount or transmission mount PTO setup – Transmission – Front available as option			
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.	X		
	b	State distance the front mount pump will extend forward of bumper or extend the bumper.			3.5 inches if front were used
3		Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit	X		
4		Hydraulic reservoir shall be properly baffled	X		
	a	State capacity of reservoir			50 Gallons
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.	X		
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off valve, oil level sight gauge and temperature gauge	X		
5		It is preferred that the hydraulic system shall be designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions		X	Pack at idle is listed on option page
	a	If load sensing system is used is it a proven design guaranteed to operate system in the same fashion as a convention pump setup		X	
	b	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss	X		
6		All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output	X		

	a	Hoses shall conform to SAE standards for designed pressure.	X		
	b	Bends shall not be more than recommended by SAE standards	X		
	c	Flat spots in hoses or lines will not be acceptable	X		
	d	Pressure hoses shall be protected with fabric guard	X		
7		All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel	X		
8		In line high pressure filter assembly mounted for easy access.	X		
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator	X		
	b	Spin on filter preferred	X		
9		Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage	X		
	a	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid	X		
10		If hydraulic tank is a front mount design requiring the operator to access the top of the truck to check fluid levels, a ladder shall be provided in a convenient location to access the tank	N/A		
	a	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.	N/A		
	b	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight	N/A		
	c	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion	N/A		
11		All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve	X		
12		Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing	X		
13		Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.	X		
	a	Cylinder design shall decrease the speed of the cylinder at least the last ½" of cylinder stroke in both direction of travel	X		
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.	X		
	c	Rods of all cylinders shall be chrome plated	X		
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally	X		
	e	State brand of cylinders on unit offered			Rosenboom
1	Controls		Vendor Response		
			Yes	No	Exception
	1	Ejector panel and tailgate raise controls are to be mounted outside the body on front left had side	X		
	a	Throttle advance switch shall be mounted within easy reach of the control	X		
	b	System shall automatically raise the engine RPM to the proper speed during the packing cycle	X		
	2	PTO switch to be mounted inside the cab.	X		
2	Painting		Vendor Response		
			Yes	No	Exception
	1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted	X		
	2	Finish shall be Nutmeg to match cab color	X		
	3	City prefers powder coat finish with a minimum 4 mil thickness		X	
	a	Specify the type of finish will you provide?			Akzo Coating High Solids Acrylic Urethane
3	Marking		Vendor Response		
			Yes	No	Exception

	1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.	X		
	2	If online manuals are not yet available, digital versions can be substituted, however, they must be in PDF format. Pdf manuals must be searchable by item/topic.	X		
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.	X		
	3	Service Manuals – to include comprehensive hydraulic and wiring schematics	X		
	a	Body	X		
	b	Hydraulics	X		
	4	Parts Manuals			
	a	Body	X		
	b	Hydraulics	X		
	5	Operators manual – two (2) – to be supplied with each unit	X		
			Vendor Response		
L	Training		Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel	X		
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.	X		

Specifications – Side Loader

Return this Section with your Response

Desired minimum specification for side load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

A	Side Load Specific Specifications	Vendor Response		
		Yes	No	Exception
1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process	YES ✓		
	a State wall to wall turning diameter for unit submitted	CHASSIS <i>Single drive + Tag 66'</i>		
	b State curb to curb turning diameter for unit submitted	CHASSIS <i>210" base spec.</i>		
	c State wheel cut for submitted unit	CHASSIS <i>43° 46°</i>		
2	Chassis is to be right hand drive . All controls within easy reach of driver while seated.	YES		
	a Dual steering is not acceptable	NA		
	b Operating controls for right hand drive shall include, but not limited to, ignition switch, horn (electric), brake release, accelerator pedal, dual extended brake pedal, light switch, turn signal/hazard switch, windshield wiper switch, heating and AC controls, transmission gear selector.	✓		CHASSIS
	c Right hand driving position be equipped with air horn	✓		CHASSIS
3	Instruments for right hand drivers position – Fuel, voltmeter, oil pressure, air pressure, water temperature, transmission temperature, tachometer, & speedometer	✓		CHASSIS
4	Unit shall be supplied with a rear view monitor system. Safety Vision SV-CLCD-65, or approved equal, with 7" flat screen monitor in cab, camera mounted on the tailgate, illumination provided by two flood lights facing rearward – wired to illuminate when transmission is put in reverse.	YES		
	a Picture of rear camera image shall include a “grid” to show the approximate distances to objects in close proximity to vehicle	YES		
	b State Manufacturer and Model Offered	3 RD EYE – 5 YEAR WARRANTY		
	c A second camera shall be provided and wired into the same monitor that	YES		

		captures cans being dumped into the hopper as well as the hopper.			
	d	Camera shall be armored in a way that prevents damage to the camera from refuse, tree limbs, or other obstructions.	YES		
	e	YES			
5		Work light shall be provided to illuminate the hopper area	YES		
	a	YES			
6		Lift arm light shall be provided – Truck Lite LED model 8136 or equal	YES		
	a	YES			
	b	YES			
7		Cover shall be installed over the transmission to prevent debris from accumulating on top of transmission. The cover must be designed for easy removal and able to support the weight of an operator.	YES		
8		Shall have an under ride bumper that meets all federal, state and local requirements	YES		
9		Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.	YES		
10		Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss	YES		
11		All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.	YES		
12		3,600 PSI CNG tanks will be roof mounted on the refuse body with a protective shield to guard the tanks from damage from alley operations. Guards will be easily removed for service work. A total DGE of approximately 70 gallons.	YES		
		State gallons offered			75 DGE
13		One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.	YES		
14		Body height of CNG unit will be low profile body design that does not increase the height of the truck beyond a diesel truck.	YES		
		State total transport height of completed unit mounted on chassis.			12' – 6"
B Warranty			Vendor Response		
			Yes	No	Exception
1		Minimum two (2) year on all parts, materials and labor	YES		
	a	Specify the warranty that you will offer			TWO YEAR
2		All hydraulic cylinders shall be four (4) years on parts and labor including seals	YES		
	a	State the warranty that you will offer			FOUR YEAR
3		Minimum seven (7) years on hopper floor and sides on all parts and labor	YES		
	a	Specify the warranty that you will offer			SEVEN YEAR
4		Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.	YES		
	a	Specify the warranty that you will offer			FIVE YEAR
C Body			Vendor Response		
			Yes	No	Exception
1		27 yard capacity exclusive of hopper	YES		
	a	State Manufacturer			DaDee Manufacturing
	b	State Model			SCORPION ASL 27
	c	State wet weight of Cab & Chassis			CHASSIS
	d	State wet weight of Refuse Unit			17,300 (DEDUCT LINERS 1,000 LBS.)
	e	State wet weight of entire unit without refuse load			CHASSIS + BODY 17,300 LBS 16,000 = 33,300 # approx.

	f	State Wheelbase of unit	MINIMUM 171" C.T. USABLE		
	g	State Length of completed unit	CHASSIS (BODY LENGTH IS 278")		
	h	State Width of completed unit	101.8"		
	i	State Height of completed unit	12.6"		
	j	State achievable payload capacity for unit offered	18,000		
	k	State achievable pounds per yard compaction	650 LB Per CU YD LEGAL		
2		Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components		YES	
3		LED lighting package with solid mounts required .		YES	
4		Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.		YES	
5		Center mounted LED brake light is required		YES	
6		Ecco model 210 electronic back up alarm to be installed		YES	
7		All exterior seams and abutments continuously welded for strength and neatness of appearance.		YES	
8		Structural integrity of the body shall allow high density loading – minimum of 700 pounds per cubic yard of normal refuse.		YES	
9		Body shall be constructed in such a fashion, and from materials, that will allow repeated packing cycles without distortion of body.		YES	
10		Accessibility of large adult, 6'2" – 220 lbs, must be provided in area of refuse box behind the packer.		YES	
	a	Ladder shall be provided on street side at the forward end of hopper		YES	
	b	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.		YES	
	c	Ladder must be designed to allow thee point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight		YES	
	d	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion		YES	
11		State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.	CHASSIS DEPENDENT (UNIT AVERAGE 17,000)		
D	Body Materials			Vendor Response	
				Yes	No
				Exception	
	1	Sides shall be fabricated from minimum 10-gauge Hi tensile steel with continuously welded bracing to eliminate water pockets		YES	
	2	Roof shall be fabricated from minimum 12-gauge Hi tensile steel		YES	
	a	Connection to body sides shall be with integral full-length roof rails to contain and dissipate the high-density side loading forces equally throughout the body structure		YES	
	3	Floor shall be fabricated from minimum 7-gauge sheet steel with 1/4" AR 400 or HARDOX equivalent overlay		YES	1/4" AR400 FLOOR NO OVERLAY
	a	Long members of 1/4" structural steel interlaced construction affording maximum floor support		YES	10" STRUCTURAL CHANNEL
	4	All body panels shall be braced with 2" x 6" steel channel		YES	
	5	Flat floor with radiused corners at sidewalls		YES	
	6	Hopper walls to be 1/4" AR400 or Hardox		YES	
E	Tailgate			Vendor Response	
				Yes	No
				Exception	
	1	Tailgate to be top hinged – one piece		YES	
	2	Tailgate shall be raised by hydraulic cylinders for load ejection.		YES	
	a	Tailgate cylinders to incorporate a restriction device to prevent rapid decent in the case of hydraulic failure		YES	
	3	Tailgate movement and latching controlled from inside of cab.		YES	

	4	Tailgate controls shall be guarded to prevent accidental activation during travel or loading	YES		
	5	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation.	YES		
	6	It is preferred that the tailgate incorporate a heavy duty positive type hydraulic latch operated from inside the cab	YES		
	a	System shall include a visual and audible warning to notify operator if latch is not fully closed	YES		
	7	Tailgate constructed of minimum 10 gauge steel and sufficiently reinforced to withstand repeated packing	YES		
	8	Hinge mounts reinforced where attached to body.	YES		
	9	Heavy duty tailgate service props provided.	YES		
F	Hopper		Vendor Response		
			Yes	No	Exception
	1	Hopper opening in body to be sufficient size to allow dumping of 90 thru 300 gallon containers.	YES		
	2	Hydraulically actuated top door/cover for hopper area to be included	YES		PACKER BLADE
	3	Hopper loading width 80" - minimum	YES		
	4	The floor area to be minimum ½" ASTM-A36 steel with balance of the floor area to be equivalent to 7 gauge using 150,000 PSI yield steel.	YES		¼" AR400
	a	Hopper floor area shall be overlaid with minimum 3/16" 100,000 PSI steel.	YES		¼" AR400
	b	Liners shall be plug welded in place for convenience during replacement.	YES		
G	Packer		Vendor Response		
			Yes	No	Exception
	1	Paddle style packer system preferred.	YES		
	a	State design of packing system offered	SWEEP BLADE & SLIDE		
	2	Packer plate shall be constructed out of ¼" AR400 or Hardox material. There shall be no distortion or bending occurring during repeated cycles of maximum packing pressures.	YES		3/8" AR400
	3	Packer plated shall be designed for continuous operation and refuse dumping in any position.	YES		
	4	Packing sweep cycle shall displace an approximately volume of three (3) cubic yards at idle in a maximum of nine (9) seconds at 750 RPMs is preferred	YES		
	a	State guaranteed packer cycle time	8 SECONDS SWEEP DN/SLIDE BACK		
	b	State achievable compaction ratio in pounds per yard in operation for Tempe's climatic conditions.	750 LBS PER CU YD		
	5	All packing system grease points must be designed in a way that allows greasing all points while standing on the ground next to the unit.	YES		
	a	Any grease plumbing shall be out of the trash containment area and also be protected from any damage	YES		
	6	Packing system shall have the ability to pack in a continuous and automatic fashion	YES		
	a	System shall have the ability to continuously move through its packing cycle while the vehicle is in motion	YES		
	b	Operator shall also have the ability to manually move the packer into any position utilizing the existing control panel	YES		
	7	Capable of collecting and dumping 1,200 to 1,500 refuse cans per 10 hour work day up to 5 days per week	YES		
	a	All manufacturers are to explain how the body they offer will accomplish and meet this specification	EXISTING UNITS IN CITY FLEET WORKING NOW FOR 5 YEARS		
H	Load Discharge		Vendor Response		
			Yes	No	Exception
	1	Dumping shall allow for complete emptying of the refuse body without the operator having to pull or clean remaining refuse from body.	YES		

I	Hydraulics		Vendor Response		
			Yes	No	Exception
1	It is preferred that the system operate at 2,500 psi or less		YES		2400 PSI ARM
	a	State system operating pressure	2400 PSI ARM, 2700 PSI RELIEF ON PACKER		
2	Will your system use a front mount or transmission mount PTO setup		YES		PTO
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.	NA		
	b	State the distance the front mount pump will extend forward of bumper or extend the bumper.	NA		
3	Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit		YES		
4	Hydraulic reservoir shall be properly baffled		YES		
	a	State capacity of reservoir	50 GAL		
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.	YES		MOUNTED ABOVE PUMP
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off vale, oil level sight gauge and temperature gauge			
5	It is preferred that the hydraulic system shall be designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions		YES		
	a	If load sensing system is used is it a proven design guaranteed to operate system in the same fashion as a convention pump setup	N/A		
	b	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss			SHUT OFF VALVE LOCATED AT TANK. CLUTCH PACK PTO AND OIL LEVEL SENSOR TO DISINGAGE PUMP
6	All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise.		YES		
	a	Tubes running the length of the body roof shall be protected from tree limbs.	YES		
	b	Exposed hoses or tubes running over the body structure will not be accepted.	YES		
7	All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output		YES		
	a	Hoses shall conform to SAE standards for designed pressure.	YES		
	b	Bends shall not be more than recommended by SAE standards	YES		
	c	Flat spots in hoses or lines will not be acceptable	YES		
	d	Pressure hoses shall be protected with fabric guard	YES		
8	All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel		YES		
9	In line high pressure filter assembly mounted for easy access.		YES		
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator	YES		
	b	Spin on filter preferred	YES		
	c	Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage	YES		
	d	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid	YES		
10	All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve		YES		
11	Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing		YES		

12	Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.		YES		ELECTRONIC CUSHIONING
	a	Cylinder design shall decrease the speed of the cylinder at least the last 1/2" of cylinder stroke in both direction of travel	YES		
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.	YES		
	c	Rods of all cylinders shall be chrome plated	YES		
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally	YES		
	e	State brand of cylinder on unit offered	PARKER		
13	Hydraulic system and controls shall have on board diagnostic capabilities from information screen in the cab		YES		
	a	Information screen shall provide real time information as well as allow for user programming, system diagnostic and customization of functions	YES		
	b	On board customization shall have security levels of permissions so that the City can control the level of permissions for operators and technicians	YES		
J Lifting Device			Vendor Response		
			Yes	No	Exception
1	It is preferred that the device shall, in continuous duty operation, be capable of extending arms, grasping, raising, dumping and returning container to the full down position in a maximum cycle time of six (6) seconds at 750 RPM in gear.			NO	"NO EXTENSION" ARM OUT TIME
	a	State guaranteed lifting device cycle time	7.54 SECONDS WITH NO EXTEND-RETRACT		
2	The device shall, in continuous operation, be capable of lifting up to a 300 gallon plastic container weighing 1,800 pounds at any extension of the arm, in ambient temperatures of 120 degrees Fahrenheit, with feathering capability.		YES		
3	Arms are to be designed to pickup 90 and 300 gallon containers.		YES		
	a	There shall be no need for the operator to make any modifications or adjustments to alternate between different size cans	YES		
4	Arm shall be designed to operate off the right side of the vehicle.		YES		
5	The lift shall have a minimum reach capability of 84" – reach from the side of the body to the center line of a 90 gallon container		YES		
	a	State reach of unit proposed	84"		
6	Total mounting height must not exceed fourteen (14) feet.		YES		
	a	State height of arc when dumping a 300 gallon container	13' – 4"		
7	Unit is to be equipped with and electronic can counter. Counter shall be incorporated into the grip cycle – each time a can is gripped it is counted. Counter shall have an LCD display dash mounted to display the number of cans dumped.		YES		
	a	Can counter must be accurate without errors caused by shaking of the can during lift arm cycle	YES		
8	Lift mechanism must deliver container to hopper -- units with kick out will not be accepted		YES		
	a	Does your unit design incorporate a kick out design	YES		MIN 8"
9	Driver must have a means to observe the entire operation from drivers seat.		YES		
	a	How will you achieve this requirement?	CAMERAS AND MIRRORS		
10	Grip arm surfaces shall have a minimum of 270 degrees contact with the container circumference.		YES		
	a	Grip arm surfaces shall have vulcanized rubber-like material where they contact the can.	YES		
11	Grip arm controls				
	a	Controls shall have an operator initiated "shake" function to allow operator to simulate a quick back and forth motion of the refuse can at the hopper to help loosen stuck debris in the refuse can.	YES		
	i	"Shake" feature shall move the can back and forth a minimum of 2	YES		

			times.			
		ii	Custom programming of the length, speed and quantity of can shaking is preferred	YES		
	b		Electric over hydraulic controls with proportional control or feathering capabilities are required	YES		
	c		Must be able to utilize both rocker switches and joystick controls	YES		
	d		Controls shall be provided to both manual arm functions and for automatically performed sequences of multiple arm motions. Control system shall include a coordinator to control multiple arm motion sequences.	YES		
	e		Joystick to be mounted on the left side of driver and ergonomically correct	YES		
		i	Joystick to be wired to perform the following: forward – undump; curbside direction – arm out; street side direction – arm in; rear – dump; trigger up – arm grip; trigger down – arm release	YES		
	f		Rocker switches shall be mounted on the right side of driver and ergonomically correct	YES		
		i	“Soft touch” rocker switches shall be at least 1/2” wide, momentarily-on type with spring-loaded to automatically return to the off position when not depressed	YES		
		ii	Rocker switches to provide speed sensitive or feathering control	YES		
		iii	CAN bus system with minimal wiring preferred that provides variable and proportional hydraulic speeds based on the operators variance of force applied to switches	YES		
12			Lift arm shall not extend beyond the width of the body in the retracted position and have a minimum road clearance of 18”	YES		
13			Lift arm shall have a safety system/device to prevent movement of arm outward when engine RPM is above idle as well as prevent accidental or inadvertent extension of arm while traveling.	YES		
	a		Inward movement of arm above idle is preferred so that operator can bring in arm while vehicle is in motion	YES		
	b		There shall also be visual and audible safety indicators to notify driver of an extended arm when engine RPM is above idle	YES		
K Painting				Vendor Response		
				Yes	No	Exception
	1		Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted	YES		
	2		Finish shall be Nutmeg to match cab color	YES		
	3		City prefers powder coat finish with a minimum 4 mil thickness	YES		
	a		Specify the type of finish will you provide?			POWDER COAT
L Manuals				Vendor Response		
				Yes	No	Exception
	i		The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.	YES		
	2		If online manuals are not yet available, digital versions can be substituted; however, they must be in PDF format. Pdf manuals must be searchable by item/topic.	YES		
	a		Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.	YES		
	3		Service Manuals – to include comprehensive hydraulic and wiring schematics	YES		
	a		Body	YES		
	b		Hydraulics	YES		
	4		Parts Manuals			
	a		Body	YES		

	b	Hydraulics	YES		
	5	Operators manual – two (2) – to be supplied with each unit	YES		
M	Training		Vendor Response		
			Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel	YES		
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.	YES		

Price Sheet – Front Load
Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost		
Front load refuse vehicle <i>Peterbilt 320, McNeilus Frontload</i>		\$ <i>293,994.00</i>		
Options		Cost		
1	TruTrack steering geometry correction kit to be installed	\$ <i>NA</i>		
2	Upgrade to disk brakes	\$ <i>1,753.00</i>		
3	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$ <i>400.00</i>		
4	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismantling of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ 150		
5	Spare wheel and mounted tire for front axle	\$ <i>no bid</i>		
6	Spare wheel and mounted tire for rear axle	\$ <i>no bid</i>		
7	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$ <i>-39,815.00</i>		
8	Deduct – Remove integral retarder	\$ <i>-4,896.00</i>		
9	Deduct – Change to conventional real axle setup with no liftable tag	\$ <i>see item 28</i>		
10	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	Yes	No	Not Required
	a. Engine diagnostic software and cables		<input checked="" type="checkbox"/>	
	b. Transmission diagnostic software and cables		<input checked="" type="checkbox"/>	
	c. Anti-Lock brake diagnostic software and cables		<input checked="" type="checkbox"/>	
	d. Chassis diagnostic software and cables		<input checked="" type="checkbox"/>	
	e. Regenerative exhaust system diagnostic software and cables		<input checked="" type="checkbox"/>	
	f. Other diagnostic software and cable to be supplied – list below:			
11	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	Yes	No	Not Required
	a. Refuse body diagnostic software			<input checked="" type="checkbox"/>
	b. Other diagnostic software – list below			
12	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ <i>1,750.00</i>		
13	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ <i>no bid</i>		
14	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost	\$ <i>no bid</i>		

	of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	
15	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ \$ Included
16	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$ 915
17	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$ 534
18	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$ 550
19	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$ 325
20	Cone Holder	\$ 150
21	Zonar GPS/Pretrip system – Hardware and complete installation only	\$ 550
22	Air operated cab jack with hydraulic override if air system is not working.	\$ 95.00
23	Full air suspension on conventional tandem	\$ 2,780.00
24	Vulcan scale system with Haulmax suspension 6x4 configuration	\$ 2323
25	Vulcan scale system with Air Suspension 6x4 configuration	\$ 2029
26	Vulcan scale system with Meritor FUELite 6x2 configuration	\$ 2029
27	Super single tires on tandem axle	\$ -1,613.00
28	Optional 43 CY body with steerable tag axle State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 43 CY body	\$ 9,863.00 17,242
Other supplier recommended options (including extended warranties) – add pages if needed.		
	Vulcan 6 – Cell Body Scale	\$ 11,263
	Vulcan Fork Scale Weigh in Motion	\$ 10,886
	9" Camera Monitor Upgrade	\$ 1,000
	3 Year CNG Warranty (2 Year included)	\$ 1591
	Chelsea 890 PTO with Fuel Saving Vane Pump	\$ 2,185
	Hendrickson Composolite 13k Steerable Tag Axle – McNeilus Installed	\$ 8,424
	64 DGE Frame Rail Mounted CNG System	\$ 2,000
	Steel Toolbox	\$ 517

8,300 + 25,00

* Applicable Tax ____ %

*** State correct jurisdiction to receive sales tax on the Vendor's Offer, Form 201-B (RFP) included in this Request for Proposal.**

Less prompt payments discount terms of ___% ___days/ or net thirty (30) days. (To apply after receipt and acceptance of an itemized monthly statement.) For evaluation purposes, the City cannot utilize pricing discounts based upon payments being made in less than thirty (30) days from receipt of statement.

Ordering and Invoice Instructions

In order to facilitate internal control and accounting, each City Department will order and must be invoiced separately. Monthly invoices must be segregated by City Department number and mailed or delivered directly to the City Customer Department. For most materials, there will be between three (3) and six (6) ordering departments. At the time an order is

Price Sheet – Rear Load

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost		
Rear load refuse vehicle <i>Peterbilt 320, McNeilus</i>		\$ <i>272,851.00</i>		
Options		Cost		
1	TruTrack steering geometry correction kit to be installed	\$	<i>NA</i>	
2	Upgrade to disk brakes	\$	<i>1,753.00</i>	
3	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$	<i>400.00</i>	
4	Heavy duty pintle hitch – mounted so that the contact point with the pintle eye will be 29" off the ground	\$ 3443		
5	Trailer brake controller to be installed within easy reach of driver. Trailer connector to be provided. Standard 7-way RV style wired to be compatible with Tempe vehicles	included w/ Hitch		
6	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ 150		
7	Bolt on rake holder – with rake provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ 150		
8	Spare wheel and mounted tire for front axle	\$	<i>no bid</i>	
9	Spare wheel and mounted tire for rear axle	\$	<i>no bid</i>	
10	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$	<i>- 34,815.00</i>	
11	Deduct – Remove transmission integral retarder	\$	<i>- 4,896.00</i>	
12	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$ <i>NA</i>		
13	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	Yes	No	Not Required
	a. Engine diagnostic software and cables		<input checked="" type="checkbox"/>	
	b. Transmission diagnostic software and cables		<input checked="" type="checkbox"/>	
	c. Anti-Lock brake diagnostic software and cables		<input checked="" type="checkbox"/>	
	d. Chassis diagnostic software and cables		<input checked="" type="checkbox"/>	
	e. Regenerative exhaust system diagnostic software and cables		<input checked="" type="checkbox"/>	
	f. Other diagnostic software and cable to be supplied – list below:			
14	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	Yes	No	Not Required
	a. Refuse body diagnostic software			<input checked="" type="checkbox"/>
	b. Other diagnostic software – list below			
15	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of			

Oshkosh Corporation Classification: Unrestricted

	training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ 1,750.00
16	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ no bid
17	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ no bid
18	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ \$ Included
19	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$ 915
20	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$ 534
21	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$ 550
22	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$ 325
23	Cone Holder	\$ 150
24	Zonar GPS/Pretrip system – Hardware and complete installation only	\$ 550
25	Air operated cab jack with hydraulic override if air system is not working.	\$ 95.00
26	Full air suspension on conventional tandem	\$ 2,780.00
27	Vulcan scale system with Haulmax suspension 6x4 configuration	\$ 2323
28	Vulcan scale system with Air Suspension 6x4 configuration	\$ 2029
29	Vulcan scale system with Meritor FUELite 6x2 configuration	\$ NA
30	Super single tires on tandem axle	\$ -1,613.00
31	Optional 32/33 CY body with pusher axle (diesel fuel only)	\$ 9,263.00
	State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 32/33 CY body.	14,850
Other optional recommended options (including extended warranties) – add pages if needed		
	9" Camera Monitor Upgrade	\$ 1000
	Pack at Idle Pump System	\$ 2800
	3 year CNG Warranty	\$ 1591
	Front mounted gear pump	\$ 478.00
		\$

Peto / Dadee
side

Price Sheet – Side Load

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost
Side Load refuse vehicle <i>Petabilt 320</i>		\$ <i>327,386.00</i>
Options		Cost
1	Single drive rear axle with dual wheels –with liftable tag with dual wheels per specifications below	\$ <i>1,263.00</i>
a	26,000# minimum axle rating with largest brakes available – would prefer 31,000# rating – indicate compliance to right	
a	Specify manufacturer, model and rating	<i>Dana Spicer S26-190 26,000 lb.</i>
b	Specify brake size	<i>16.5 x 8.6 drive, 16.5 x 7 Tog</i>
b	23,000# minimum liftable tag axle (Watson-Chalin or equal) – indicate compliance to right	<i>yes</i>
a	Specify manufacturer, model and rating	<i>Watson Chalin AT 2200 23,000 #</i>
b	Specify brake size	<i>16.5" x 7"</i>
c	Rear suspension rating shall exceed axle ratings– indicate compliance to right	<i>empty</i>
d	Drive axle to have spring suspension	
a	Provide manufacturer, model and rating of drive suspension	<i>Rexco 102cc 29,000 #</i>
e	Liftable tax axle to be air suspension– indicate compliance to right	<i>yes</i>
a	Provide manufacturer, model and rating of tag suspension	<i>Included in Watson Chalin AT 2200</i>
2	Auto down feature for liftable tag based on weight on drive axle	\$ <i>2,000.00</i>
3	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$ <i>not available</i>
4	TruTrack steering geometry correction kit to be installed	\$ <i>not available</i>
5	Upgrade to disk brakes <i>Std on steer axle Single drive + Tog</i>	\$ <i>1,802.00</i>
6	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$ <i>400.00</i>
7	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	<i>not available</i>
8	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ <i>146.00</i>
9	Spare wheel and mounted tire for front axle	\$ <i>no bid</i>
10	Spare wheel and mounted tire for rear axle	\$ <i>no bid</i>
11	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$ <i>- 40,781.00</i>
12	Deduct – Remove integral transmission retarder	\$ <i>- 4,896.00</i>
13	Deduct – Change to conventional real axle setup with no liftable tag	\$ <i>? see line 33</i>
14	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$
		Yes No Not Required
a.	Engine diagnostic software and cables	<input checked="" type="checkbox"/> <input type="checkbox"/> <i>not offered</i>
b.	Transmission diagnostic software and cables	
c.	Anti-Lock brake diagnostic software and cables	
d.	Chassis diagnostic software and cables	
e.	Regenerative exhaust system diagnostic software and cables	
f.	Other diagnostic software and cable to be supplied – list below:	

15	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right: a. Refuse body diagnostic software b. Other diagnostic software – list below	\$		
		Yes	No	Not Required X
16	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$	1,750.00	
17	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$	no bid	
18	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$	no bid	
19	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$	0	
20	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$	2,284.00	
21	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$	214.00	
22	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$	0	
23	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$	664.00	
24	Cone Holder	\$	146.00	
25	Zonar GPS/Pretrip system – Hardware and complete installation only	\$	1,328.00	
26	Air operated cab jack with hydraulic override if air system is not working.	\$	95.00	
27	Full air suspension on conventional tandem	\$	2,780.00	
28	Vulcan scale system with Haulmax suspension 6x4 configuration	\$	3,444.00	
29	Vulcan scale system with Air Suspension 6x4 configuration	\$	2,416.00	
30	Vulcan scale system with Meritor FUELite 6x2 configuration	\$	no bid	
31	Super single tires on tandem axle	\$	-1,613.00	
32	Optional 33 CY body with tandem axle and 13,500 liftable steerable tag axle. State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 33CY body.	\$	9,300.00	
			w/CNB	11.5 Tons
Other supplier recommended options (including extended warranties) – add pages if needed.				



**AFFIDAVIT OF COMPLIANCE WITH TEMPE CITY CODE
CHAPTER 2 ARTICLE VIII SECTION 2-603(5)**

Per Tempe City Code Chapter 2 Article VIII Section 2-603(5), it is unlawful for a City vendor or City contractor, because of race, color, gender, gender identity, sexual orientation, religion, national origin, familial status, age, disability, or United States military veteran status, to refuse to hire or employ or bar or discharge from employment any person, or to discriminate against such person in compensation, conditions, or privileges of employment.

City vendors and contractors shall provide a copy of their antidiscrimination policy to City to confirm compliance with this requirement or attest in writing to compliance.

- CONTRACTOR means any person who has a contract with the City.
- VENDOR means a person or firm in the business of selling or otherwise providing products, materials, or services.

CONTRACTOR/VENDOR, select one:

OR Current copy of antidiscrimination policy attached

I hereby certify VENDOR (contractor/vendor) to be in compliance with Tempe City Code Chapter 2 Article VIII Section 2-603(5).

Signature 

Print Name Chris Ryan

Company Reish Truck Center

Date: 4/21/2015

Title: Regional Manager

One Year Warranty on Structural Integrity
Continuous Pack
Solid Floor
Ground Level Maintenance

CNG READY
OPTION



Department of Procurement
Co-Operative Purchasing Partnership



THE NEW STANDARD IN AUTOMATED SIDE LOADERS!
Designed and Built With Quality
for CLEAN EFFICIENT OPERATION and MAINTENANCE

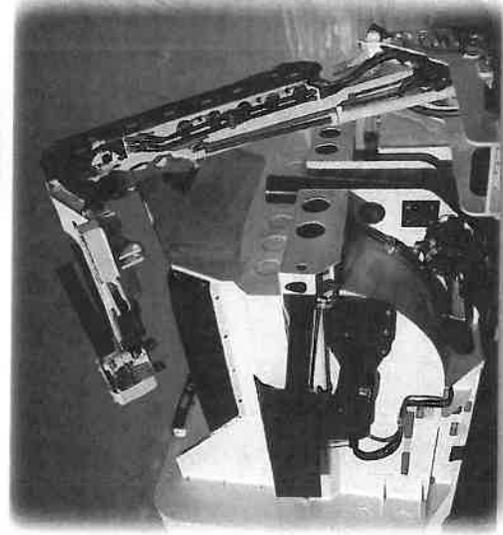
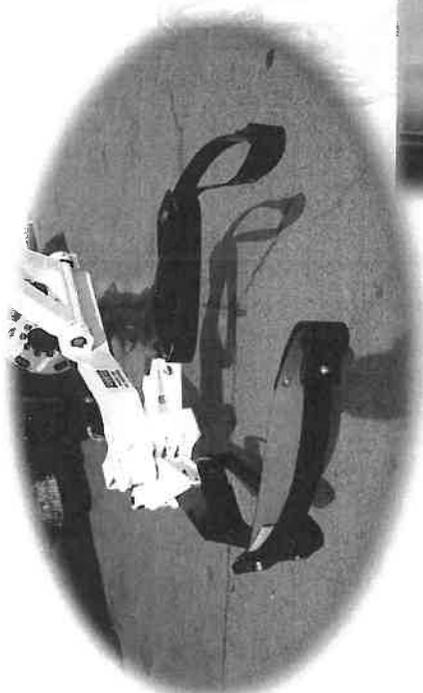


The Refuse Equipment **INNOVATORS**

1930 W Broadway Road
Phoenix, AZ 85041
800-940-7467
www.DaDeeMfg.com

PERFORMANCE SPECIFICATIONS

Lift Capacity Proven 1600 lbs
Lift Cycle Time Under 8 seconds
Lift Reach 96 inches
Working RPM 725 (operate-in-gear-at-idle)
Compaction 750 lbs per cu.yd.



Solid Floor

Continuous Pack System



1930 W Broadway Road
 Phoenix, AZ 85041
 800-940-7467

www.DaDeeMFG.com

SPECIFICATIONS

CAPACITY

Body Capacity Not less than 27 cubic yards
Hopper Capacity Not less than 3 cubic yards
High Density Loading of Body 750 lbs per cubic yard
Lift Mechanism Capacity 1,600 lbs at any extension

CYCLE TIMES

Sweep Blade Displacement 3 cubic yards in max. 14 – 16 seconds
Lift Cycle Speed Under 8 seconds

PACKING MECHANISM

Slider Cylinders 4" dia bore x 2" rod x 29" stroke
Sweep Cylinders 4" dia bore x 2" rod x 14 3/8" stroke

TAILGATE MECHANISM

Tailgate Double Acting Cylinders 3" dia bore x 1 1/2" rod x 18 1/2" stroke

LIFTING MECHANISM

Reach Cylinders 2" dia bore x 70" stroke
Grab Cylinder 2 1/2" dia bore x 8" stroke
Raise Cylinder 2 1/2" dia bore x 30" stroke
Dump Cylinder 2 1/2" dia bore x 8" stroke

BODY HOIST MECHANISM

Body Hoist three stage Telescopic Cylinder 6 1/2" dia bore x 114" stroke

HYDRAULICS

Hydraulic Pump Tandem vane pump
Arm Pump 2500 PSI
Packer Circuit 2800 PSI
Hydraulic Oil Reservoir Gross capacity of 55 gallons
Hydraulic Return Line Filter 10 micron
Hydraulic Tank Suction Strainer 100 mesh (140 micron)
Packing Cycle Controls Electronic over hydraulic
Hydraulic Valves Solenoid controlled electronic over hydraulic
Body Controls Electronic over hydraulic

ELECTRICAL

Body Functions Electronic in-cab control center

LIGHTING

All Lighting including Strobe and Work LED

Illustrations and/or specifications published herein are informational in nature and are not to be construed to warrant suitability of the unit for any particular purpose, as individual performance may vary. The only warranty is the DaDee Manufacturing standard written warranty for this product.

MANTIS and SCORPION Refuse Bodies

Setting the standard for “Safety”!

“Go Safe”

- **No requirement to enter into the Hopper or Body area**
- **No need to enter under the Body**
- **No maintenance to be performed in the Hopper or Body**
- **All lubrication done from ground level**
(no ladders or platforms required)
- **ANSI Compliance Product**
- **Hopper and Body tapered**
(no material jamming or wedging)
- **No sweep blade tied to Hopper floor**
- **No holes in the Hopper floor for unsanitary leaks**
- **No follower panel to maintain**
- **No panel mechanism requiring clean out behind Blade**
- **No clean out doors requiring clean out behind Blade at dumping stations**
- **Automatic shut down system in case of an emergency**
- **No Cylinders or Valves under Body**
- **Maintenance adjustments made from inside cab**



DaDee Manufacturing fully supports the national **SLOW DOWN TO GET AROUND** campaign and installs additional safety decals on all refuse vehicles.

MANTIS and SCORPION Refuse Bodies Setting the standard for “Green”!



- **NO Holes in floor ~ NO unsanitary leaks**
- **Automatic Hopper Cover**
- **Environmentally friendly Powder Coat (Low VOC)**
- **Leak-Free hydraulic fittings**
- **Diesel Fuel Savings from low HP draw hydraulic system**
- **No Lube Rollers**
- **Sealed Tailgate**
- **LED Lighting (Standard)**

Options

- **Hydraulic System Leak Detection**
- **Integrated CNG Systems**
- **Biodegradable Hydraulic Oil**

REFERENCES

City of Denton, Texas*Terry Kader*

215 E McKinney Street

Denton, TX 76201

Phone: 940-349-8729

FAX: 940-349-8492

2012 – 2013 8 units: Scorpion ASL**City of Durango, Colorado***Tom Kramer*

105 Sawyer Drive.

Durango, CO 81303

Phone: 970-759-4304

FAX: 970-375-4928

2012 – 2013 4 unit: Scorpion ASL**City of Phoenix, Arizona***Brad Frisk*200 W Washington 6th Floor

Phoenix, AZ 85004

Phone: 602-256-5676

FAX: 602-534-1766

2011 – 2014 66 units: Scorpion ASL**City of El Paso, Texas***Richard Adams*

7969 San Paulo Dr

El Paso, TX 79907

Phone: 915-621-6739

FAX: 915-621-6711

2012 20 units: Scorpion ASL**City of Scottsdale, Arizona***Rick Lagno*

Fleet Equipment Coordinator

9191 E San Salvador Dr

Scottsdale, AZ 85258

Phone: 480-312-3111

2011 – 2013 10 units: Scorpion ASL**City of Tucson, Arizona***Pat Tapia, OPERATIONS*

Phone: 520-791-3175

Jim Seeds, FLEET EQUIPMENT

Phone: 520-791-3131

4004 S Park Ave

Tucson, AZ 85714

FAX: 520-791-5753

2010 – 2014 55 units: Scorpion ASL**2012 – 2014 4 units: Mantis AFL****City of Harlingen, Texas***Rene De La Garza*404 S 54th

Harlingen, TX 78552

Phone: 956-216-5300

FAX: 956-423-2113

2012 – 2013 4 units: Scorpion ASL**City of Tempe, Arizona***Kevin Devery*

53 S Priest Dr Bldg D

Tempe, AZ 85281

Phone: 480-350-8281

FAX: 480-350-8155

2010 – 2013 6 units: Scorpion ASL**Vista Recycling, Inc.***Bill Long*114 W 8th St.

Safford, AZ 85546

Phone: 928-428-0830

2010 – 2014: 3 unit: Scorpion ASL**City of Sierra Vista, Arizona***Darrin Stansby*

401 Giulio Cesare Avenue

Sierra Vista, AZ 85635

Phone: 520-458-5775

2012: 2 units: Scorpion ASL**2012: 1 unit: Mantis AFL**

This is not a complete list of customers. An expanded list is available upon request.

SCORPION Automated Side Loader
MANTIS Automated Front Loader
NEW EQUIPMENT ONE YEAR LIMITED WARRANTY

DaDee Manufacturing warrants the SCORPION Automated Side Loader or the MANTIS Automated Front Loader to be free from defects in material and workmanship under normal use for a period of **one year from ORIGINAL IN SERVICE DATE** as documented on the **Ownership REGISTRATION** form, only when the unit has been properly serviced, and maintenance has been performed as described in the SCORPION ASL or MANTIS AFL Parts and Operations/Maintenance Manual. Failure to comply with the then current Warranty Policy and Procedures may, in discretion, invalidate this Warranty in its entirety or invalidate any individual warranty claim.

Before ANY warranty can be allowed on any new equipment the **completed, signed and dated Ownership REGISTRATION** form with **ORIGINAL IN SERVICE DATE** must be on file with DaDee Mfg.

This warranty is expressly limited to the repair or replacement of any component or part thereof, on any SCORPION ASL that is proven to DaDee Mfg's satisfaction to have been defective in material or workmanship. Such components or parts thereof, shall be repaired or replaced with cost to the unit Owner for parts and labor reimbursed provided unit is returned for such repair or replacement to an authorized DaDee Mfg Dealer or authorized OEM Service Center, or such other place as may be designated by DaDee Mfg within one year from the date the unit was put into service by the original Owner. All components or parts in question must then be returned to DaDee Mfg through the authorized Dealer or OEM Service Center for warranty consideration. Upon satisfaction by DaDee Mfg's review the owner or service center will be reimbursed for parts and labor. Labor is reimbursed at a flat rate published by DaDee Mfg. Transportation and shipping costs are the responsibility of the owner. Replacement of hydraulic fluids in all circumstances is the responsibility of the owner.

DaDee Mfg makes no warranty on products manufactured by others, and supplied by us, the same being subject to warranties, if any, of their respective manufacturers.

This warranty excludes coverage on any parts deemed by the manufacturer to be normal wear and tear items. This warranty excludes any damage caused by operator error, driver negligence, driving hazards, or foreign obstacles that come in contact with the body, packer, or arm as a result of anything other than approved operation of this unit in compliance with the manufacturer training and operation instructions provided within the Parts and Operations/Maintenance Manual.

Unless published otherwise, any **service parts** sold by DaDee Mfg shall carry a one year limited warranty for replacement only (labor not included) providing the factory inspection reveals a material or workmanship defect. DaDee Mfg reserves the right to make changes in the design or make additions to or improvement on its products without creating any obligation for installation in previously manufactured units.

In no event, regardless of the form of action, whether in contract or in tort, including but not limited to negligence, product liability or strict liability, shall DaDee Mfg be liable for incidental or consequential damages, including but not limited to, loss of profits, products, down time, temporary replacement cost or any other direct, indirect, special, or punitive damages, including attorneys' fees. In no event shall DaDee Mfg be liable for any loss, damage, claim, cost or expense, including attorneys' fees, arising from or related to any leak or spill of hydraulic fluid or any hazardous material (as defined under any applicable Federal, State or Local statute, regulation or the like) or the failure to properly dispose of hydraulic fluid or any hazardous material. The Owner of the unit agrees to defend and hold DaDee Mfg harmless from any loss, damage, claim, cost or expense, including attorneys' fees arising from or related to any environmental or hazardous material claim.

Other than extension of the warranty period under purchased **DaDee Mfg's Extended Warranty Program**, no employee or representative is authorized to change this warranty in any way or grant any other warranty. This is the sole and exclusive warranty offered by DaDee Mfg.

THIS WARRANTY supersedes and is in lieu of all other warranties expressed or implied. All other warranties whether expressed or implied, including but not limited to the implied warranty of merchantability, fitness for a particular purpose and non-infringement are hereby disclaimed. The remedies provided in this warranty are exclusive remedies available and are limited to repair and replacement of the nonconforming parts.

**ALL ITEMS ON THIS PAGE ARE
STANDARD EQUIPMENT ON THE SCORPION ASL**

- Listed body capacity does not include the 3 cubic yard hopper
- Hopper features a Patented continuous hopper cover and Patented Power Sweep Packer System
- System is Self Cleaning with no clean out doors or sump traps to be cleaned
- Packer is a continuous dump system. No need to wait for the packer to complete its cycle before dumping next can
- Packer system features low dBA electronically cushioned packer cycle
- Joystick control standard
- Integrated and simplistic Scorpion electronic control system
- Scorpion system provides a single motion "Auto Cycle" arm function and Smooth Shift electronically "Cushioned" independent arm functions
- SCORPION arm PROVEN to 2,000 pound lift capacity and rated for 1600 pound continuous operation
- 90 Gallon Grip Assembly standard
- Low RPM operate-in-gear hydraulic dual vane pump
- Outside frame accessible hydraulic tank shut off valve
- 10 micron hydraulic fluid filtration
- Hydraulic tank is mounted above the chassis frame
- Zero VOC White Powder Coating standard
- Complete LED lighting package
- One Year Warranty Standard
- The Scorpion ASL is ANSI and FMVSS compliant
- Because there is no need for clean out doors for access behind the packer panel the SCORPION ASL DOES NOT create a Confined Work Space as defined by OSHA #3138-017



SCORPION ASL

PART #	DESCRIPTION OF OPTIONS	PRICE
GRIPPER		
<input type="checkbox"/> GRIP-STD	35 - 90 Belt Grabber Included in Standard Unit	N/C
<input type="checkbox"/> GR1	60 - 300 Belt Grabber	\$687.00
<input type="checkbox"/> GR1-A	48 - 300 Belt Grabber	\$916.00
<input type="checkbox"/> GR2	90 Gallon SAME DAY Grabber	\$500.00
<input type="checkbox"/> GR-ST	Soft Touch Can Controls	\$1,200.00
PUMP DRIVE KIT		
<input type="checkbox"/> PTOMP4500	PTO Mount Pump Kit 4500 Series Transmission	N/C
<input type="checkbox"/> PTOMP3000	PTO Mount Pump Kit 3000 Series Transmission	\$1,150.00
<input type="checkbox"/> PTO-GR	Greaseable PTO	\$375.00
<input type="checkbox"/> FMP	Front Mount Pump Kit	N/C
CONTROLS		
<input type="checkbox"/> LST1	LST Switch Controls	\$630.00
<input type="checkbox"/> ADJS1	Adjustable Joystick	\$575.00
MOUNTING		
<input type="checkbox"/> FLP-R	Rear Mud Flaps (Required Option)	\$175.00
<input type="checkbox"/> FLP-C	Center Rear Mud Flap Over Brake Pods (Required Option)	\$175.00
<input type="checkbox"/> FLP	Front of Rear Axle Mud Flap (Required Option)	\$230.00
<input type="checkbox"/> BIO1	Biodegradable Oil	\$2,300.00
<input type="checkbox"/> CLR1	Hydraulic Fluid Cooler	\$1,700.00
<input type="checkbox"/> HTR1	Hydraulic Tank Heater	\$345.00
<input type="checkbox"/> TEMP	Hydraulic Oil Temperature Indicator in Cab	\$400.00
<input type="checkbox"/> LEV1	Hydraulic Oil Low Level Indicator in Cab	\$400.00
<input type="checkbox"/> LEV2	DUAL Hydraulic Oil Low Level Indicator in Cab and Critical Level Turns Pump Off	\$630.00
<input type="checkbox"/> RFPS	Return Line Filter Pressure Indicator in Cab	\$275.00
<input type="checkbox"/> DISC1	Hydraulic Fluid Quick Disconnect Kit	\$745.00
<input type="checkbox"/> TAG2	Advanced Tag Axle Control Kit (Chassis must have J1939 interface with: RPM, Current Gear, and Miles Per Hour)	\$4,500.00
<input type="checkbox"/> THR1	Throttle Block (Chassis Requirements)	\$458.00
<input type="checkbox"/> CLD1	Cold Weather Package (HV122 Hyd. Fluid, Heated Cameras, additional protection on electrical components and wiring)	\$2,300.00

CAMERAS

<input type="checkbox"/>	CAM-2	Dual Color Camera with 7" Monitor (Required Option)	\$2,860.00
<input type="checkbox"/>	CAM-3	3-Color Camera with 7" Monitor	\$3,430.00
<input type="checkbox"/>	CAM-4	4-Color Camera with 7" Monitor	\$4,000.00
<input type="checkbox"/>	CAM1	Additional Color Camera and Cable	\$500.00
<input type="checkbox"/>	CAM2	Upgrade to DVR Monitor (in place of standard 7" NON-DVR)	\$400.00
<input type="checkbox"/>	CAM3	Arm Camera Trigger	\$150.00

COLOR

<input type="checkbox"/>	PT03	CUSTOM Powder Coat Color Match (Sample Required)	\$2,060.00
<input type="checkbox"/>	PT01	TWO COLOR Powder Coat Match (Sample Required)	\$4,200.00
<input type="checkbox"/>	PT02	PAINT or Decal Color Stripe (Sample Required)	\$2,060.00
<input type="checkbox"/>	AWPT	Adverse Weather Pre-Treat	\$2,060.00
<input type="checkbox"/>	DEC2	CUSTOM Graphics for Body Side (approx. 96" x 48")	TBD
<input type="checkbox"/>	DEC1	95.5 x 31.5 3M Transit Graphics Vinyl Decals (one each side)	\$1,145.00

FUEL

<input type="checkbox"/>	CNG1	CNG Tank System Mounted	\$47,250.00
--------------------------	------	-------------------------	-------------

Specific sizes and configurations impact price

WARRANTY

<input type="checkbox"/>	WRS2	**Two Year Body and Arm Structure Warranty	\$3,200.00
<input type="checkbox"/>	WRS4	**Five Year Packer Blade Warranty	\$3,200.00
<input type="checkbox"/>	WRS7	**Seven Year Hopper Floor Warranty (Hopper Liners Required)	\$4,000.00
<input type="checkbox"/>	WRH3	**Three Year Hydraulic System Warranty (Does Not Include Cylinders)	\$7,500.00
<input type="checkbox"/>	WRH5	**Five Year Cylinder Warranty	\$7,500.00

OTHER OPTIONS

<input type="checkbox"/>	LIN1	Hopper Floor and Wall Liners (Required with 7-Year Hopper Warranty)	\$2,500.00
<input type="checkbox"/>	P-EXT	Packer Blade Extension	\$2,290.00
<input type="checkbox"/>	R-TEETH	Retaining Teeth on Floor	\$570.00
<input type="checkbox"/>	TH01	Broom, Shovel or Rake Tool Holder on Body Side	\$175.00
<input type="checkbox"/>	TAB1	Tailgate Side View Tabs 8 x 8 Amber	\$175.00
<input type="checkbox"/>	SHTH1	Arm and Body Hose Sheathing	\$285.00
<input type="checkbox"/>	SGN1	Roadway Display Sign Frames (one each side)	\$1,375.00
<input type="checkbox"/>	MIR1	Right Hand Convex Mirror	\$85.00
<input type="checkbox"/>	CLMP1	Additional Wiring Clamping	\$200.00

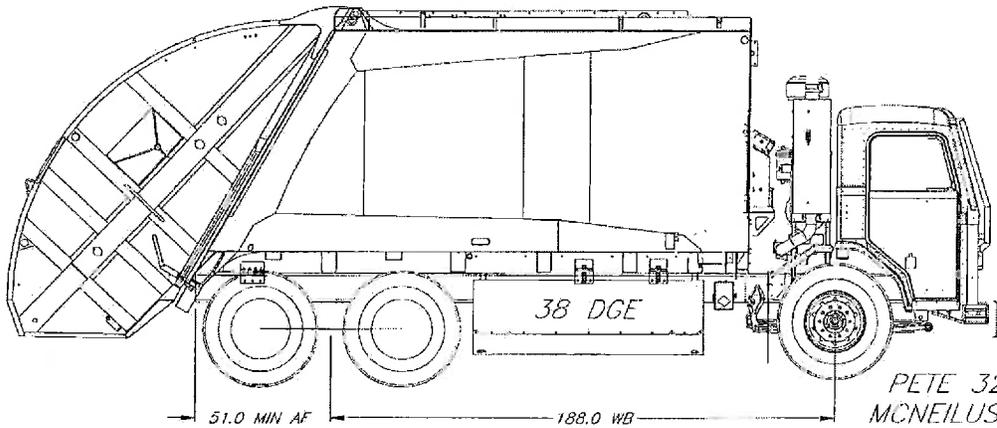
<input type="checkbox"/>	NITRIDE	Nitride Cylinder Rods	\$3,276.00
LIGHTING			
<input type="checkbox"/>	LTK-R	Overhead Oval Dual flashing LED strobes Rear Facing (Required Option)	\$570.00
<input type="checkbox"/>	LTK1	Three Light Flashing Kit on Tailgate tied to Brakes	\$570.00
<input type="checkbox"/>	LTK2	Three Light Flashing Kit on Tailgate tied to PTO	\$630.00
<input type="checkbox"/>	LTK3	AMBER Strobe Beacon above cab (light and mounting brackets)	\$800.00
<input type="checkbox"/>	LTK4	L E D Work Light	\$175.00
<input type="checkbox"/>	LTK5	Additional License Plate Light	\$57.00
<input type="checkbox"/>	LTK6	Illuminated Mushroom Palm Button	\$85.00
ADDITIONAL			
<input type="checkbox"/>	TB24	Tool Box (18" x 18" x 24") (each)	\$800.00
<input type="checkbox"/>	TB36	Tool Box (18" x 18" x 36") (each)	\$916.00
<input type="checkbox"/>	TH02	Cone Holder	\$175.00
<input type="checkbox"/>	TH03	Chock Holder	\$175.00
<input type="checkbox"/>	FEX1	10 lb. Fire Extinguisher & Mounting Bracket	\$175.00
<input type="checkbox"/>	FEX2	20 lb. Fire Extinguisher & Mounting Bracket	\$257.00
<input type="checkbox"/>	TRK	Triangle Reflector Kit & Bracket	\$85.00
CHASSIS			
<input type="checkbox"/>	TPMS-6	Doran 6 Wheel Tire Pressure Kit	\$950.00
<input type="checkbox"/>	TPMS-10	Doran 10 Wheel Tire Pressure Kit	\$1,240.00
<input type="checkbox"/>	SCALE	Cleral On-Board Scale System (Sensors axle groups)	\$3,350.00
<input type="checkbox"/>	ZON1	***Zonar Tracking and Diagnostics Hardware	\$1,085.00
<input type="checkbox"/>	ZON2	***Zonar CSA Inspection Hardware (EVIR, Tags & Mount)	\$515.00
<input type="checkbox"/>	ZON3	***Zonar 2020 Mobile Platform (Tablet, Tags & Mount)	\$825.00
MAINTENANCE			
<input type="checkbox"/>	TEST1	Scorpion Diagnostics Tester	\$4,007.00
<input type="checkbox"/>	TEST1-H	Scorpion Diagnostics Tester additional Harness	\$515.00
<input type="checkbox"/>	TEST2	Scorpion SOFTWARE INTEGRATED Diagnostic Tester	\$1,715.00
<input type="checkbox"/>	SIM1	Simulator	\$5,155.00

All prices are subject to change without notice
** TOTAL number of years for warranty
***Does not include activation or annual service fees

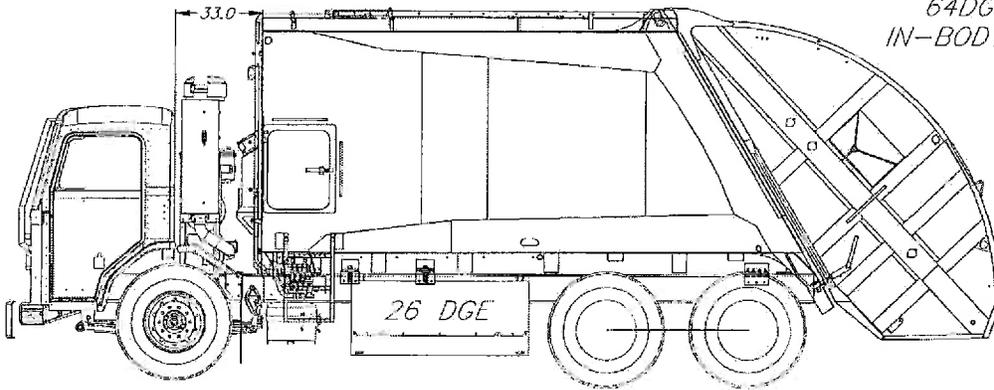
SCORPION ASL LADDER AND SAFETY INTERLOCKS

The Scorpion ASL utilized the Parker IQAN Integrated control system. The system ties into the chassis engine controller through the J1939 signal. RPM, Neutral, Drive, Reverse, & MPH functions are used to control various interlock set points and alarms on the Scorpion ASL.

- **THE MAIN POWER SWITCH turns PUMPS OFF**
- **PUMPS TURN OFF and PACKING SYSTEM is DISABLED when the ladder is DOWN. A Warning Screen comes up on the IQAN Control Module indicating Ladder Down**
- **THE AUTOPACK SYSTEM operates in drive gear only**
- **ARM operates in drive or neutral gears**
- **ARM OUT INTERLOCK**
- **THE ASL ARM will not go UP when the GRABBERS are OPEN**
- **THERE IS NO ARM FUNCTION above 900 RPM except RELEASE and IN functions and in drive gear**
- **JOYSTICK and LST SWITCHES will not operate at the same time**
- **NO ARM FUNCTION when the BODY is advancing to or in the UP position**
- **IN-CAB ALARM SOUNDS if the ARM is OUT and or GRABBERS CLOSING and the truck engine speed exceeds 900 RPM. A Warning Screen comes up on the IQAN Control Screen Indicating LOADER ARM OUT.**
- **IN-CAB ALARM SOUNDS when TAILGATE is OPENING. A VISUAL FLASHING IMAGE appears on the IQAN Control Screen when TAILGATE is OPENING.**
- **IN-CAB ALARM SOUNDS when BODY is going UP. A VISUAL FLASHING IMAGE appears on the IQAN Control Screen when BODY is going UP.**
- **IN-CAB ALARM SOUNDS when SYSTEM VOLTAGE drops below 11.1 VOLTS**
- **EXTERNAL BODY ALARM sounds when BODY is going UP**
- **EXTERNAL BODY ALARM sounds when TAILGATE is OPENING**



PETE 320 WITH 25YD
MCNEILUS REAR LOADER
64DGE FRAME CNG
IN-BODY OIL RESERVOIR



McNeilus
Street Smart. Street Tough.

HD HEAVY-DUTY REAR LOADER

Our HD trucks step up performance in two ways. They're heavy-duty, with beefier cylinders that can handle more demanding routes, including commercial applications. And they're high-density, packing more into the same amount of space for longer routes. A larger body and hopper are also available for even greater capacity.



HD HEAVY-DUTY REAR LOADER

McNeilus
Street Smart. Street Tough.

BODY SPECIFICATIONS

- Floor: 3/16" AR200
- Roof: 10-gauge AR200
- Side Walls, Front Section (ejector area): 10-gauge AR200
- Side Walls, Rear Section (compaction area): 1/8" AR450

TAILGATE AND HOPPER

- Hopper Floor: 1/4" AR200
- Quick-change UHMW polyethylene slide shoes

PACKER

- Slide Face Plate: 3/16" GRD 50
- Sweep Face Plate: 1/4" AR200
- Packer Edge Strip: 3/4" GRD 50

HYDRAULICS

- Pump Make/Model (single or dual pump): Parker with Pack-on-the-go flow control system
- Front Mount: P350 or P75
- Transmission Mount: P365
- Control Valves, Primary: Parker VA35 with Smart-Pak*
- Oil Reservoir: 17 - 20 yard: 40 gallons, 25 - 32 yard: 50 gallons
- Filter: Parker 40 CN, 100 mesh suction strainer

CYLINDERS

- Ejector: 6-1/4" bore x 5-3/4" rod x 88-3/4" stroke (20 yard, 3 stage),
7-1/2" bore x 7" rod x 119-1/2" stroke (25 yard, 4 stage)
- Slide: 5" bore x 4" rod x 32-1/2" stroke
- Sweep: 4-1/2" bore x 3-1/2" rod x 23" stroke
- Tailgate: 2-7/8" bore x 2-1/2" rod x 38" stroke

PERFORMANCE

- Pack and Sweep Cycle: 20 - 25 seconds
- Compaction: 1000 pounds per yard (depending on refuse density)

HARDWARE

- Weather Pak and Deutsch connectors
- Aeroquip hoses and fittings
- Hydra-Zorb™ and Stauff clamps
- Zinc-dichromate coated hydraulic lines

PAINTING

- Packer steel shot-blasted prior to priming with Akzo Coating's high-solids epoxy primer and acrylic urethane

OTHER OPTIONS AVAILABLE

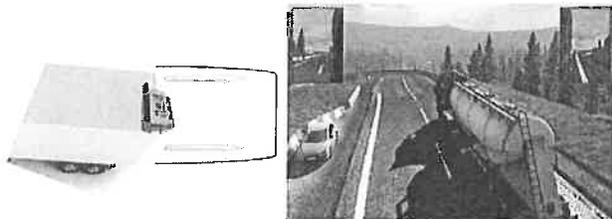
- Hopper work lights
- Strobe light
- Camera-assist lights
- Peterson smart lights
- Clear coat
- Fire extinguisher/bracket
- Auxiliary axles (call for application)
- Camera systems — single, dual, and triple
- Mud flaps — front and/or rear
- Decals (call for pricing)
- Plastic shovel
- Toolbox
- Paint colors
- Reeving cylinder
- Cart tipper
- Container tipper (kick bar)
- Broom and shovel holder



BUY ONCE. BUY RIGHT. BUY SMART.

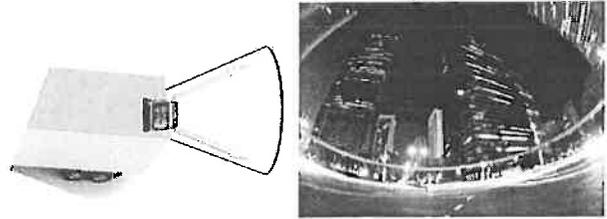
STREET SMART VISION SYSTEMS...with True Vision HD

SSV Camera



True Vision HD

Common Commercial Backup Camera



Fish Bowl Effect

- True Vision HD eliminates the "fishbowl" effect to give drivers a safer backup camera by eliminating the need for strong depth perception. Other commercial backup cameras commonly give an "objects are closer than they appear" look to them. As a result, the image cannot be focused as sharply.
- The SSV high definition camera is all digital, equipped with auto-dimming infrared night vision. The patent pending auto dimmer allows automatic or manual adjusted night vision of up to 100 ft.
- The SSV monitor is made from heavy duty aluminum with a 15G shock rating. Supports up to 4 cameras with memory and motion detection recording capability.
- When replaced together using adapter cables(see extreme cable), the camera and monitor will work with existing SV or AWT body cable.
- 4 Year Comprehensive Warranty! Warranty covers all failures, except those caused by customer mis use or abuse.
- It's undoubtedly the highest quality and most robust commercial grade camera system available on the market today.
- Compatible with Preco™ PreView® radar systems. Kit p/n 1474028 required. 

CALL 1-888-MTM-PART (1-888-686-7278) www.StreetSmartParts.com

		designed to light up toward the rear of the truck when in reverse.			
	3	Shall have an under ride bumper that meets all federal, state and local requirements	X		
	4	Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.	X		
	5	Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss	X		
	6	All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerck into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.	X		
	7	The body shall incorporate a electric over hydraulic service hoist that can easily lift the body off of the frame when the truck is unloaded. The lift shall be constructed in a way to raise the front portion of the body with the pivot at the rear of body. There shall be body props that safely hold the body in the lifted position. The minimum raised height of a safely propped body shall be 26" high. The point of measure shall be no more than 24" back from the most forward point of the body.	X		
	a	Lifting of body shall not require tools. An operator in the field must be able to remove any body to frame fastening devices and raise the body with no additional help from an assistant or hardware.		X	1 7/8" Wrench
	8	3,600 PSI CNG tanks will be roof mounted on the refuse body with a protective shield to guard the tanks from damage from alley operations. Guards will be easily removed for service work. A total DGE of approximately 70 gallons.	X		
		State gallons offered			75 DGE
	9	One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.	X		
	10	Body height of CNG unit will be low profile body design that does not increase the height of the truck beyond a diesel powered truck.	X		
	11	State total transport height of completed unit mounted on chassis.			13'6"
B	Warranty		Vendor Response		
			Yes	No	Exception
	1	Minimum two (2) year on all parts, materials and labor	X		
	a	Specify the warranty that you will offer			2 Years
	2	All hydraulic cylinders shall be four (4) years on parts and labor including seals	X		
	a	State the warranty that you will offer			4 Years
	3	Minimum seven (7) years on hopper floor and sides on all parts and labor	X		
	a	Specify the warranty that you will offer			7 Years
	4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.	X		
	a	Specify the warranty that you will offer			5 Years
C	Body		Vendor Response		
			Yes	No	Exception
	1	40 yard capacity	X		
	a	State Manufacturer			McNeilus
	b	State Model			Contender/Meridian
	c	State wet weight of Cab & Chassis			16,525
	d	State wet weight of Refuse Unit			20,270
	e	State wet weight of entire unit without refuse load			36,795

	f	State Wheelbase for unit	205 – 3 Axle	197 – 4 Axle
	g	State Length of completed unit	386 inches	
	h	State Width of completed unit	96 inches	
	i	State Height of completed unit	13'6"	
	j	State achievable payload capacity for unit offered	28,000	
	k	State achievable pounds per yard compaction	700	
2		Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components	X	
3		LED lighting package with solid mounts required .	X	
4		Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.	X	
5		Center mounted LED brake light is required	X	
6		Ecco model 210 electronic back up alarm to be installed	X	
7		All exterior seams and abutments continuously welded for strength and neatness of appearance.	X	
8		A front cab guard protector is required. Top anchor points of cab guard mounted to cab roof. Lower anchor points mounted to cab hinges in such a way that guard will tilt with cab.	X	
9		Body equipped with a cab protector shield. Cab shield designed to allow full tilting of the cab without raising body. The cab protector will be provided with a hydraulic tilting feature to hydraulically move the cover allowing the cab to be tilted fully forward. The cab protector will include a drain trough that will direct liquids from the cab protector into the body sump.	X	
	a	If two piece canopy is used in order to facilitate the ability to tilt the cab forward without lifting the body, the hinge point of the canopy shall be no further forward than the rear edge of the cab. This will allow Tempe to utilize a larger roof mounted A/C	X	
10		Wind screen attached to prevent blowing of material during discharge of the container	X	
11		A bolt on expanded metal screen will be mounted on the front of the refuse body. The screen will prohibit the escaping of loose refuse from the hopper area behind the packer and onto the truck engine and transmission.	X	
	a	Screen shall have a frame around it that is secured to the body without welding to allow removal for access during repairs	X	
12		A ladder is to be provided on the rear to gain access to the top of the refuse body. State location of ladder.	X	
	a	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.	X	
	b	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight	X	
	c	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion	X	
13		State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.	13,205 – 3 Axle	18,545 – 4 Axle
			Vendor Response	
D		Body Materials	Yes	No
	1	Entire body to be constructed of eight (8) gauge 80,000 PSI steel minimum to withstand repeated packing cycles without distortion or creasing of the refuse containing area.	X	
	2	Body floor shall be flat full width minimum 3/16" 150,000 PSI steel.		X
	3	Floor longitudinals required with crossmembers located on minimum 18"	X	
				Curved Body Floor

		Vendor Response		
		Yes	No	Exception
	centers to withstand continuous operation at maximum loads.			
4	12 gauge steel may be used for roof constructions – adequate bracing of the roof crown must be provided to dissipate forces equally through the body structure	X		
E	Tailgate			
	1 Tailgate to be top hinged – one piece	X		
	2 Tailgate constructed of minimum 10 gauge steel and sufficiently reinforced to withstand repeated packing	X		
	a State tailgate configuration	Hinge Mount 8 point Lock		
	b State tailgate size	4.3 yds		
	c State tailgate design	Bubble		
3	Tailgate shall be raised by hydraulic cylinders for load ejection.	X		
	a Tailgate cylinders to incorporate a restriction device to prevent rapid descent in the case of hydraulic failure	X		
4	Tailgate movement and latching controlled from inside of cab.	X		
5	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation to a minimum level of 24”.	X		
6	The tailgate is to incorporate a heavy duty positive type hydraulic latch operated from inside the cab.	X		
	a Controls shall be guarded to prevent accidental activation during travel or loading	X		
	b System shall include a visual and audible warning to notify operator if latch is not fully closed.	X		
7	Hinge mounts reinforced where attached to body.	X		
8	Heavy duty tailgate service props provided.	X		
F	Hopper			
	1 Hopper area to receive from the top and be designed to accommodate containers from one (1) through ten (10) cubic yard capacity.	X		
	2 12 yd hopper capacity minimum	X		
	State hopper capacity in cubic yards and also state height, width and length.	12 yards 7’H x 7’L x 6.8’ W		
3	Hopper design to include a flat floor with straight vertical sidewalls. Hopper floor to be ¼” preferred hardox AR-450 abrasion resistant steel plate (203,000 PSI tensile strength). Sufficient under floor bracing to include full width crossmembers on 18” center minimum that are interlaced with longitudinal supports.	X		¼” AR-400
4	All external welds of hopper side bracing shall be continuous full seam.	X		
5	Inside of the hopper shall be plug welded for additional strength	X		
6	An under hopper liquid sump shall be designed to provide a 40 gallon sump for liquid retention. Clean out doors with seals shall be provided on both curb and street sides to remove debris from the liquid sump without having to enter the truck body. A clean out rake or similar tool provided with a saddle mounted on the truck body provided to carry the tool	X		
7	Clean out doors with water tight seals	X		
	a If the design of the packer is such that debris that falls behind the packer blade is cleaned out automatically and completely, then clean out doors are not required. Tempe will be the sole determiner if the design is adequate to completely clean the hopper area of debris.	N/A		
8	Access to hopper to be provided for cleaning purposes.	X		
	a Access to meet ANSI Safety Requirements.	X		
	b Door to be equipped with a reliable, positive latch and inter-lock system to prevent arm or packer blade movement if not properly latched.	X		
	c Two grab handles are preferred – one above door and on the side of door	X		
	d Door shall have a minimum opening of 24” wide x 32” tall	X		
9	Hydraulically operated horizontal sliding top hopper door to be included.	X		

		Operated by a double acting hydraulic cylinder with a red warning light on dash to warn the operator when the door is not fully closed.			
	a	Hopper top door will have an interlock that will prevent the arms from dumping onto the top door	X		
	b	Open to close time to be 6 seconds maximum	X		
	c	Shall be constructed of steel sheet metal and able to support a 220 pound operator without denting, creasing or permanently distorting.	X		
G	Packer		Vendor Response		
			Yes	No	Exception
	1	Partial pack – full eject packer system.	X		
	a	State design of packing system offered	Half Pack – Full Eject		
	2	Packer blade shall be constructed of 3/16" minimum 100,000 PSI steel braced to withstand, without distortion, repeated application of maximum packing	X		
	a	Packer shall be reinforced with a combination of structural members for maximum strength and rigidity	X		
	3	Packer designed to prevent spillage of refuse over the top of the packer during both the pack and retract cycle.	X		
	a	Sharks teeth at the top of the packer blade to help prevent spillage of trash over the blade during compaction	X		
	4	It is preferred that the packer cycle time not to exceed 20 seconds (Cycle is full packer stroke out and return)	X		
	a	State guaranteed packer cycle time in seconds	20 seconds		
	5	Packer guide tracks shall be welded in and made from Hardox AR-450 – 203,000 PSI tensile strength steel	Exc eeds		Chromium Carbide
	6	Packer shall have a wear plate/scrapper blade across the bottom of packer that runs across the entire width of packer	X		
	7	Packer cylinders shall have the ability to be greased without entering the hopper.	X		
	a	If remote hoses are used to accomplish this, all hoses must be steel braided for strength and durability and secured in a way that prevents damage from refuse material	X		
	8	Packer blade size and travel designed to clear hopper area of trash without having to pack multiple times.	X		
	9	Packer system must allow packing while driving from can to can.	X		
H	Load Discharge – Full Eject		Vendor Response		
			Yes	No	Exception
	1	Dumping shall allow for complete emptying of the refuse body without the operator having to pull or clean remaining refuse from body.	X		
I	Hydraulics		Vendor Response		
			Yes	No	Exception
	1	It is preferred that the system operate at 2,500 psi or less	X		
	a	State system operating pressure	2,500 psi		
	2	Will your system use a front mount or transmission mount PTO setup			Front Vane
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.	X		
	b	State distance the front mount pump will extend forward of bumper or extend the bumper.	3.5 inches		
	3	Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit	X		
	4	Hydraulic reservoir shall be properly baffled	X		
	a	State capacity of reservoir	50 Gallons		
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.	X		
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off	X		

		vale, oil level sight gauge and temperature gauge			
5		Preferred hydraulic system shall be fuel efficient and designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions		X	Cannot be done with city preferred Front-mounted Pump
	a	Pump(s) shall have full load sensing controls that provide power only when needed and thus reduce HP draw from the engine when hydraulic functions are not being used		X	
	b	System shall be designed in a way so that the hydraulic pump(s) will only provide the minimum flow required for each specific hydraulic function when commanded		X	
	c	System shall be designed in a way so that the pump(s) will go to zero flow and low pressure standby when no hydraulic functions are commanded regardless of engine speed		X	
	d	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss		X	Transmission mounted pump needed for this option
		Give a detailed description how your hydraulic system will accomplish this goal.	Chelsea 890 PTO with Fuel Saving Vane Pump will achieve this and other options. Available in option section.		
6		All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise.	X		
	a	Tubes running the length of the body roof shall be protected from tree limbs.	X		
	b	Exposed hoses or tubes running over the body structure will not be accepted.	X		
7		Pump to body hard plumbing shall be provided. Flex hoses shall be provided at each end of the hard plumbing to provide adequate flexure to prevent hydraulic leaks	X		
8		All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output	X		
	a	Hoses shall conform to SAE standards for designed pressure.	X		
	b	Bends shall not be more than recommended by SAE standards	X		
	c	Flat spots in hoses or lines will not be acceptable	X		
	d	Pressure hoses shall be protected with fabric guard	X		
9		All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel	X		
10		In line high pressure filter assembly mounted for easy access.	X		
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator	X		
	b	Spin on filter preferred	X		
	c	Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage	X		
	d	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid	X		
11		All valves shall be located in a manner to allow easy access by technician for diagnosis and repair	X		
12		Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing	X		
13		All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve	X		
14		Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.	X		
	a	Cylinder design shall decrease the speed of the cylinder at least the last ½"	X		

		of cylinder stroke in both direction of travel			
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.	X		Nitrated
	c	Rods of all cylinders shall be chrome plated	X		Nitrated Packer
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally	X		
	e	State brand of cylinders on unit offered		Mailhot – packer	Rosenboom – all others
J	Lifting Device		Vendor Response		
			Yes	No	Exception
1		Arms of the front loading refuse body capable of lifting a minimum of 8,000 pounds gross load measured at the centerline of an eight (8) cubic yard container.	X		
	a	State design and type of construction	Solid Piece Steel		
	b	State manner in which the arms attach to body	Bolt On		
2		Lifting arms must not obstruct cab doors on either side during dumping cycle.	X		
3		Bolt on replaceable rubber arm stops are required	X		
4		Lifting arms provided with 51" forks for pickup of containers equipped with side sleeves.	X		
5		Lift arms and forks shall be designed to service container of one (1) to eight (8) cubic yard capacity.	X		
	a	Replaceable fork cross shaft rubber bumpers required	X		
6		Lift arms to have limiting cylinders or safety device to prevent them from tilting into cab and windshield when in the stored position.	X		
	a	State design and placement of lift arms in travel position	Pulled Back over Body – Tucked Away		
7		Rabbit ear style control levers for all functions provided inside cab within easy reach of the driver.	X		
8		Lifting device and packer controls shall be electric over hydraulic with proportional control or feathering capabilities		X	Air/Hydraulic
9		Controls shall have an operator initiated "shake" function to allow operator to simulate a quick back and forth motion of the refuse container at the hopper to help loosen stuck debris in refuse container. "Shake" function control shall be mounted in a way that does not require the operator to mover their hand to another control position to use feature. "shake feature shall move container back and forth a minimum of 2 times. Custom programming of the length, speed and quantity of container shaking is preferred.		X	
10		Hydraulic system and controls shall have on board diagnostic capabilities from information screen in the cab	X		
	a	Information screen shall provide real time information as well as allow for user programming, system diagnostic and customization of functions	X		
	b	On board customization shall have security levels of permissions so that the City can control the level of permissions for operators and technicians	X		
	c	Lift arm counter shall be provided that measures refuse can dump cycles as well as packer cycles.	X		
11		Lifting arms equipped with steel tubular type hydraulic cylinders with sufficient rated capacity to effectively operate with the maximum rated load at maximum efficiency.	X		
12		Hydraulic cylinders will rotate containers into hopper with sufficient angle to cleanly and quickly discharge material	X		
13		It is preferred that the dump cycle time not to exceed 16 seconds (Cycle is full sweep up, dump, un-dump and lowered to the fully down position)	X		
	a	State guaranteed dump cycle time	16 seconds		
14		Forks shall have a raised protrusion on the top of the outward end to assist in the prevention of cans slipping off of fork when the can is upright	X		
15		System shall incorporate an automatic function of slowing the arms to a smooth	X		

		stop when moving the arms to the fully stored position to prevent damage to arm stops and other affected arm components.			
	a	Heavy duty bolt-on hard rubber arm stops located at the side of body shall cushion and prevent over travel of the lift arms	X		
K	Painting		Vendor Response		
			Yes	No	Exception
	1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted	X		
	2	Finish shall be white to match cab color	X		
	3	City prefers powder coat finish with a minimum 4 mil thickness		X	
	a	Specify the type of finish will you provide?	Akzo High Solids Acrylic Urethane		
L	Manuals		Vendor Response		
			Yes	No	Exception
	1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.	X		
	2	If online manuals are not yet available, digital versions can be substituted, however, they must be in PDF format. Pdf manuals must be searchable by item/topic.	X		
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.	X		
	3	Service Manuals -- to include comprehensive hydraulic and wiring schematics	X		
	a	Body	X		
	b	Hydraulics	X		
	4	Parts Manuals			
	a	Body	X		
	b	Hydraulics	X		
	5	Operators manual -- two (2) -- to be supplied with each unit	X		
M	Training		Vendor Response		
			Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel	X		
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.	X		

Proposal Questionnaire
Return this Section with your Response

Bidder shall submit answers to the following questions. Responses will be utilized in determination of contract award.

	Question	Response
1	Provide the address of the facility that will supply units to the City of Tempe.	9600 Cor. Roosevelt St. Tolleson, Arizona 85353
	a If you do not have a Tempe, or valley address, how do you intend to handle repair/warranty issues	—
2	Describe your company and its history – include years in business	see attached
3	Please provide contact information for the primary account representative and a backup contact for the City of Tempe. • Contact Name • Phone Number • Cell Phone Number • e-mail address	Provide contact information below George Beal 602-422-8122, cell 602-418-4355 beal/g.e.rushenterprises.com
4	Do you have factory-trained personnel on site to perform installation, maintenance and repair on the equipment you are offering?	yes
5	What is the delivery time ARO for the equipment you are offering – liquidated damages will apply if delivery timelines are not met. The City of Tempe prefers a delivery time of 180 days or less. Liquidated damages are \$100 per day per truck will be assessed after the agreed upon delivery date has expired.	220 days or less
	a Do you understand and accept this condition?	yes
6	If required warranty work requires that vehicle to be taken to your facility for repairs to be effected, will you pick up and return vehicle at no cost to the City of Tempe?	yes for chassis
7	Do you provide, at no cost, human based technical support for the cab and chassis to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	yes for chassis
	a If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	8:00 A.M - 5:00 P.M Monday - Friday assistance provided upon request
8	Do you provide, at no cost, human based technical support for the refuse body to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	Dadee Mfg. (Yes) local dealer and manufacture, full support 6 AM - 4:30 PM Plus emergency call.
	a If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	
9	Do you agree to the Terms and Conditions of this RFP?	yes
	a If No, explain to right	
10	List three (3) governmental or large corporate references for which you currently provide similar services.	

	<ul style="list-style-type: none"> • Organization/Firm Name • Contact Name • Phone Number 	Provide Reference Information Below <i>City of Mesa, Pete Sparatiotti 480-644-5909</i> <i>City of Phoenix, Ross Labadie 602-262-4788</i> <i>City of Peoria, Charlie Johnson 623-773-7495</i>
11	List number of units already built to these specifications and body configurations	Provide quantities below
	Front Loaders	<i>McNeilus 2000 plus</i>
	Rear Loaders	<i>McNeilus 2000 plus</i>
	Side Loaders	<i>Dodge Mfg 200+</i>

City of Scottsdale, Rick Tognio 480-312-5577
City of Avondale, Ross Ellis 623-333-4474
Town of Gilbert, Bill Kohn 480-503-6526

Proposal Checklist for Submittals

The following checklist has been provided to assist you in submission of your offer.

This list should not be considered complete, other information or documents may be necessary as part of your submission.

The items listed are the primary documents and information that must be completed and/or included with your submittal.

Please include any information or documents that will clarify your submittal.

Description		Included √
1	One signed and complete original of the RFP response – only sections marked “Return this Section with your Response” are required but you may include supplemental materials you believe necessary to clarify your submittal.	✓
a	Vendor’s Offer – Form 201-B (RFP) has been signed and included with response	✓
2	Two (2) additional copies of RFP response on Flash Drive – a single copy of your response should be put on each requested Flash Drive - only sections marked “Return this Section with your Response” are required but you may include supplemental materials you believe necessary to clarify your submittal.	
a	It is required that responses be returned in “Word” format. The signature page can be in pdf format.	
b	If utilizing a PDF file format for any additional information submitted with response, please optimize the file (low resolution) to lower memory space requirements	
3	Questionnaire has been completed and included	✓
4	Price information is complete and included	
5	Literature included for options and training are included	
6	Signed and completed Affidavit of Compliance with Tempe City Code Chapter 2 Article VIII Section 2-603(5) or acceptable alternative	
7	Any addendum(s) have been included	✓

Evaluation Criteria

An evaluation committee composed of City staff will review the responses and score them according to the criteria listed below.

Award Criteria		Weight	x	Rating	=	Points
1	Cost	8 (32%)	x		=	
	a Base Vehicle					
	b Options					
	c Diagnostic Software and cables					
	d Training					
2	Ability to meet or exceed requested parameters	6 (25%)	x		=	
	a Specifications					
	b Experience in producing units meeting Tempe specifications					
	c Warranty Offered					
	d Guaranteed cycle times for packing operations, etc.					
	e Delivery Time (subject to liquidated damages if not met)					
3	Functionality of unit	4 (17%)	x		=	
	a Curb to Curb turning diameter					
	b Wall to Wall turning distances					
	c Height of unit					
4	Local parts inventory, warranty and service availability (or the ability to provide an acceptable alternative)	3 (13%)	x		=	
5	Training for Service Technician & Support	2 (8%)	x		=	
	a Quality and Variety of Manuals Offered					
	b Quality and Variety of Training Offered					
	c Quality and quantity of diagnostic tools and software offered					
	d Vehicle diagnostic support					
6	Overall response to RFP	1 (5%)	x		=	
	a Quality, composition and completeness of response					
	b Acceptance of Terms and Conditions of the RFP					
Total						

This proposal will be evaluated on a cumulative point system.

Scoring

Outstanding	8 to 10
Good	6 to 7.9
Average	3 to 5.9
Poor	0 to 2.9

McNeilus
McNeilus Corporation

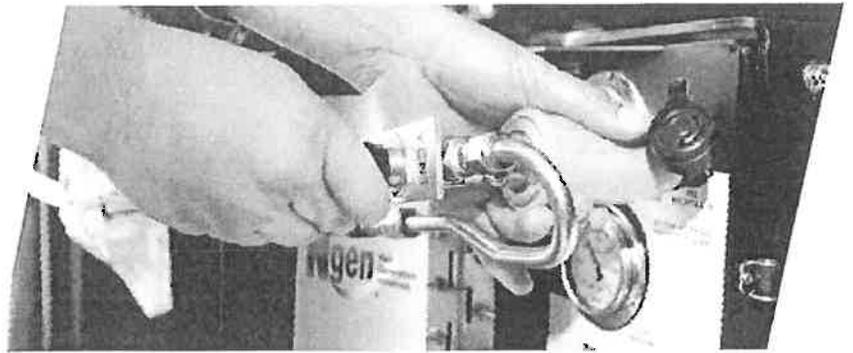
McNeilus Next Generation (NGEN) initiatives promote alternative-fuel powered solutions for heavy-duty fleets of all types. NGEN initiatives are supported by a comprehensive, factory-direct sales and service network. McNeilus is leading the drive toward the next generation of vehicle solutions.

Ngen Next Generation Initiatives

THE PEOPLE WHO MADE
CNG WORK ARE MAKING IT
—WORK EVEN HARDER.



McNeilus Compressed Natural Gas (CNG) powered refuse trucks are built for the rugged refuse environment. Designed with the operator and service team in mind, they are configurable to meet your needs. We've led the way in offering a route ready, fully tested, integrated CNG system. And now it's even better.



FUEL CONTROL MODULE:

DESIGNED FOR EVERYTHING YOU'LL LIKELY ENCOUNTER. AND THEN SOME.

Whether time filling or fast filling, we can meet your needs. You'll notice the swing-open maintenance door for accessing the coalescing filter and bleeder valve, the stainless steel piano hinges to prevent rusting, and glycerin-filled high and low-pressure fuel gauges for long life. Remote fill ports with an internal check valve eliminate the need for additional check valves. A standard warning buzzer or optional ignition interlock will thwart drive-offs. And a coolant loop integrates seamlessly with the OEM heating system.

All vehicles feature a standard NGV1 fueling receptacle and Deutsch brand electrical connections.

PLUMBING:

PERFORMANCE UNDER PRESSURE, REDEFINED.

At the heart of the plumbing is CNC-formed high-pressure lines, compression fittings, and high-pressure hoses with 5000 psi working pressure. Spring strain relief at fittings prevent fatigue and damage. The system is designed with few connection points to deliver consistent, reliable fuel flow.

FUEL GAUGE:

CLEAR. ACCURATE. RELIABLE. THAT'S THE JOB DESCRIPTION.

White backlighting ensures clarity and an orange low fuel warning light illuminates at approximately 1/8 capacity. The entire system is fully integrated into the chassis.

FUEL STORAGE POD:

LIGHTWEIGHT. LONG-LASTING. GOOD LOOKING. EASY ACCESS.

The frame is sturdy and lightweight, with boss-mounted tanks and integrated 3/16" steel guards to protect both ends of tanks.

The tanks are exclusively NGV Type 4, for light weight and long life. Their solid construction meets a wide range of international standards.

The all-aluminum covers are primed to reduce oxidization and painted to match the truck color. Ease is the watchword here: easy access to tanks for inspection, easy removal from trucks, easy access to lifting points. Most systems can be removed from trucks without removal of the covers. Covers have no wires or props to abrade tanks. A thermal pressure relief device (PRD) provides continuous full tank length protection, and is standard on all NGEN CNG systems.



Company History

Rush Truck Centers of Arizona, Inc. ("RTC Arizona") is a wholly owned subsidiary of Rush Enterprises, Inc. ("Rush Enterprises") which owns and operates the largest network of commercial vehicle dealerships in the United States. Rush Enterprises is a public company traded on NASDAQ under the symbols RUSHA and RUSHB. Rush Enterprises owns and operates North America's largest network of heavy- and medium-duty truck dealerships. It sells and services leading truck and bus manufacturers including International, IC Bus, Peterbilt, Ford, Hino, Isuzu, and Blue Bird at over 110 state-of-the-art locations in 20 states across the U.S.

RTC Arizona began operations in Arizona in October 1999 when it purchased assets of Southwest Peterbilt, Inc. and Southwest Truck Center, Inc. At present, RTC Arizona operates commercial truck dealerships in Phoenix, Flagstaff, Tucson and Yuma.

Rush Enterprises has been involved in operating commercial truck dealerships since 1965, and enjoys a reputation of providing quality commercial vehicles and professional automotive service through professionally staffed and managed operations. The professionals at Rush Truck Center dealerships are trained by manufacturers and expert automotive consultants in all aspects of financing motor vehicle sales and providing valuable risk management services.

Rush Limited Warranty

LIMITED WARRANTY ON SERVICES. Rush warrants that all repair and maintenance services performed by Rush for a customer ("Services"), will be performed in a good and workmanlike manner ("Services Warranty"). The Services Warranty is valid for a period of one (1) year from the date the Service is completed. Customer's sole and exclusive remedy, and Rush's entire liability, under the Services Warranty is the repair of any nonconforming portion of the Services. RUSH PROVIDES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, CONCERNING ITS SERVICES. The Services Warranty is strictly limited to Services performed by Rush for customer. Rush does not warrant any services provided by any third-party. Any warranties are solely those that are provided by the third-party service provider.

NEW PRODUCTS – MANUFACTURER WARRANTIES ONLY. Any warranties on any new product(s) sold by Rush are limited only to any printed warranty provided by the applicable manufacturer of the product. EXCEPT FOR ANY SUCH WARRANTIES MADE BY MANUFACTURERS, THE PRODUCT(S) ARE SOLD WITHOUT ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EACH OF WHICH IS EXPRESSLY DISCLAIMED.

USED PRODUCTS – NO WARRANTIES. All used product(s) sold by Rush are sold on an "AS IS, WHERE IS" basis, without any warranties by Rush. EXCEPT FOR ANY MANUFACTURERS' WARRANTIES THAT MAY STILL BE IN EFFECT, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED.

**PETERBILT MOTORS COMPANY LIMITED WARRANTY AGREEMENT
Class 8 Standard Service (On-Highway) Warranty
UNITED STATES**

THIS LIMITED WARRANTY AGREEMENT ("AGREEMENT") LISTS THE RESPECTIVE RIGHTS AND RESPONSIBILITIES OF YOU, PETERBILT MOTORS COMPANY ("PETERBILT"), AND THE SELLING PETERBILT DEALER ("SELLING DEALER"). PLEASE READ THIS LIMITED WARRANTY CAREFULLY.

Peterbilt warrants directly to you that the Peterbilt vehicle ("Vehicle") identified below will be free from defects in materials and factory workmanship ("Warrantable Failures") appearing under normal commercial use and service during the time or mileage limitations set forth in the attached Warranty Schedule (dated 11/09). **The Vehicle warranty extends only to you, the First Purchaser.**

YOUR SOLE AND EXCLUSIVE REMEDY AGAINST PETERBILT AND THE SELLING DEALER ARISING FROM YOUR PURCHASE AND USE OF THIS VEHICLE IS LIMITED TO THE REPAIR OR REPLACEMENT OF "WARRANTABLE FAILURES" AT AUTHORIZED UNITED STATES AND CANADIAN PETERBILT DEALERS, SUBJECT TO PETERBILT'S TIME AND MILEAGE LIMITATIONS LISTED IN THE ATTACHED VEHICLE ONLY WARRANTY SCHEDULE. The maximum time and mileage limitation in the Warranty Schedule begin on the Date of Delivery to the First Purchaser, as shown below. **The accrued time and mileage is calculated when this Vehicle is brought into an Authorized Dealer for correction of Warrantable Failures.**

WARRANTY DISCLAIMER AND LIMITATIONS OF LIABILITY

This limited warranty is the sole warranty made by Peterbilt and the Selling Dealer. Except for the above limited warranty, Peterbilt and the Selling Dealer make no other warranties, express or implied. PETERBILT AND THE SELLING DEALER EXPRESSLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IT IS AGREED THAT PETERBILT AND THE SELLING DEALER SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO: LOSS OF INCOME OR LOST PROFITS; VEHICLE DOWNTIME; THIRD PARTY DAMAGE, INCLUDING DAMAGE OR LOSS TO OTHER VEHICLES OR PROPERTY, ATTACHMENTS, TRAILERS AND CARGO; LOSS OR DAMAGE TO PERSONAL CONTENTS; COMMUNICATION EXPENSES; LODGING AND/OR MEAL EXPENSES; FINES; APPLICABLE TAXES OR BUSINESS COSTS OR LOSSES; ATTORNEY'S FEES; AND ANY LIABILITY YOU MAY HAVE IN RESPECT TO ANY OTHER PERSON OR ENTITY.

The following components may be warranted directly to you by their respective manufacturers and are NOT warranted by Peterbilt: engine and engine accessories, Allison automatic transmission, fifth wheel, tires, wheels and rims, tubes, pintle hook, hitch, batteries not listed in the Vehicle Schedule, trade accessories (such as fire extinguishers, refrigerators, chains, emergency kits, and tools), and items not installed by the Peterbilt factory at the time of the Vehicle's manufacture.

Peterbilt does not warrant antifreeze, lubricants, bulbs, fuses, filters, mud-flaps, winter front, wiper nozzles, wiper blades, filter elements, or any other part which is considered a maintenance item.

You are responsible for the safe operation and maintenance of the Vehicle, as specified in the applicable Operator's Manuals. You are responsible for providing proof that all recommended inspections and maintenance have been performed. Before the expiration of the applicable warranty, you must notify an Authorized Dealer of any Warrantable Failures and make the Vehicle available for repair by such Authorized Dealer. You are responsible for delivery of the Vehicle to the Authorized Dealer. Locations in the United States and Canada of authorized Peterbilt dealers may be found on WWW.PETERBILT.COM

PETERBILT IS NOT RESPONSIBLE FOR WEAR AND TEAR OR WEAROUT OF COVERED PARTS, storage deterioration, or changes in adjustment resulting from your use of the Vehicle. This includes, but is not limited to, wear or damage to brake and clutch linings, clutch brake, belts, upholstery, wheel balancing or axle alignment. This list is offered as an example only and shall not be construed as all inclusive.

Peterbilt does not warrant metallic chassis (frame) paint. Peterbilt is not responsible for paint chipping or fading, peeling paint from frame bolts relating to maintenance, paint peeling from road chemical or salt damage, or corrosion caused by damage to a cab, hood, or sleeper panel or to finish paint.

Damage due to accident, misuse, abuse, neglect, negligence, improper or insufficient maintenance, or unauthorized modification is not warranted.

All warranties are null and void should a Vehicle be converted to a motor coach, motor home, or recreational vehicle.

Vibrations, squeaks, loose fitting and hose leaks, unusual noises, rattles, loose nuts/bolts and hose/electrical connections can develop during the early use of the vehicle. Peterbilt will make the necessary adjustments under warranty up to the earlier of the first 25,000 miles or the first 90 days after the Date of Delivery.

[Empty rectangular box for Chassis Number(s)]

Chassis Number(s) (17-digit VIN)

Customer Initials _____

Parts used to repair a Warrantable Failure may be new parts, approved remanufactured parts, or repaired parts. Peterbilt is not responsible for failures resulting from the use of parts not approved by Peterbilt. A new or approved remanufactured part used to repair a Warrantable Failure assumes the identity of the part it has replaced and is entitled to the remaining warranty coverage, if any.

Peterbilt is not responsible for towing or roadside assistance should there be a defect in the Vehicle. Peterbilt is not responsible for damage or loss resulting from engine horsepower/torque upgrades.

Peterbilt reserves the right to inspect and download data from the Vehicle and Engine Electronic Control Modules (ECM) for purposes of failure analysis.

TIME LIMIT ON COMMENCING LEGAL ACTION / OTHER TERMS

It is agreed that you have 12 months from the accrual of the cause of action to commence any legal action arising from the purchase or use of the Vehicle, or be barred forever.

To the extent any provision of this limited warranty is found to contravene the law of any jurisdiction, the remainder of the warranty shall not be affected thereby.

PETERBILT MOTORS COMPANY

By: Douglas K. Lunter
National Warranty Manager

I, the undersigned have read the above limited warranty agreement including the attached schedules and understand and accept its terms and acknowledge receipt of a copy of the agreement (3 pages).

X _____ Date: _____
First Purchaser's Signature

Date of Sale: _____
Date of Delivery to First Purchaser:

Optional Extended Limited Vehicle Coverage: _____ Customer Initials: _____

Dealer Name/Code: _____
/

I, the above signed, have elected not to purchase an optional extended limited Vehicle coverage at this time on the Vehicle(s) covered by this document.

Reference: _____
First Purchaser's Name (Company or Individual)

City, State: _____

Contact Name: _____

By: _____
Authorized Dealer Representative/Title

Mailing Address: _____

The following pre-delivery items are to be performed by the dealer at the time of the vehicle delivery. Sign off each item as verification that it was performed

<input type="checkbox"/> Review Operation & Service Manual with customer.	Peterbilt Motors Company A DIVISION OF PACCAR 1700 Woodbrook St. Denton, TX 76205-7864
<input type="checkbox"/> Explain and demonstrate vehicle accessory operation to customer.	
<input type="checkbox"/> Explain maintenance program to customer.	
<input type="checkbox"/> Re-Explain Peterbilt Warranty to customer.	

Dealers Initials: _____

Chassis Number(s) (17-digit VIN) _____

Customer Initials _____

PETERBILT MOTORS COMPANY
Class 8 Standard Service (On-Highway) Warranty Schedule
UNITED STATES
VEHICLE ONLY

THIS VEHICLE WARRANTY SCHEDULE APPLIES ONLY TO ORIGINAL FACTORY EQUIPMENT AND IS SUBJECT TO THE TERMS AND LIMITATIONS IN THE ATTACHED LIMITED WARRANTY AGREEMENT. Pursuant to the terms of the attached Limited Warranty Agreement, Peterbilt Motors Company will pay warranty claims for Warrantable Failures within the following maximum limits in time or mileage, **whichever shall occur first**. The Warrantable Failure must be brought to the attention of an Authorized Dealer within 30 days of discovery.

	MONTHS	MILES
Basic Vehicle This coverage applies to the basic highway Vehicle, except for additional coverage and warranty exclusions.	12	100,000
Major Components Eaton, Meritor & Dana Spicer front axle (beam, spindles, kingpin & kingpin bushings, steering arm, tie rod & tie rod arms). Eaton, Meritor & Dana Spicer rear axle, differential assembly, axle shafts & axle housing. Manual transmissions Eaton Auto Shift transmission Bendix and Meritor brakes, brackets, cam shafts, spiders and slack adjusters (excludes Air Disc Brakes). Structural components of the cab, hood, hood half fenders and sleeper. Sheppard and TRW steering gears.	36	300,000
Eaton Hydraulic Launch Assist (HLA) Model 320 Accumulator*, Pump Motor Assy, Transfer Case, ECU, Reservoir *Bladder component is excluded as it is a maintenance item	12	Unlimited
Frame, Gussets, Crossmembers and Cab Corrosion Frame rails, gussets, crossmembers and A-brace. Cab, hood and sleeper perforation caused by corrosion from within. This warranty does not apply to corrosion caused by damage to a cab, hood and sleeper panel or to finish paint.	60	500,000
Other Coverage		
PACCAR Batteries	12	100,000
Gaskets and Wheel Seals	12	50,000
Cab, Hood & Sleeper Paint	12	100,000
Frame Paint – Black only	12	100,000
Frame Paint – All colors other than black	6	50,000
Frame Paint – Logger, Mixer, Dump, Refuse, Oil Field & Construction applications	3	25,000

Chassis Number(s) (17-digit VIN)

Customer Initials _____

Addendum to Solicitation



City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

Issue Date: April 8, 2015

This addendum will modify and/or clarify:

Solicitation No.: 15-097

and is

Addendum No. | 1

Procurement Description: | Refuse Vehicles

Below is a modification to the Evaluation Criteria that will be utilized during the review of submittals – change is highlighted.

Award Criteria		Weight	x	Rating	=	Points
1	Cost	8 (32%)	x		=	
	a Base Vehicle					
	b Options					
	c Diagnostic Software and cables					
d Training						
2	Ability to meet or exceed requested parameters	6 (25%)	x		=	
	a Specifications					
	b Experience in producing units meeting Tempe specifications					
	c Warranty Offered					
	d Guaranteed cycle times for packing operations, etc.					
	e References --to include Tempe's experience with offered units when applicable					
f Delivery Time (subject to liquidated damages if not met)						
3	Functionality of unit	4 (17%)	x		=	
	a Curb to Curb turning diameter					
	b Wall to Wall turning distances					
c Height of unit						
4	Local parts inventory, warranty and service availability (or the ability to provide an acceptable alternative)	3 (13%)	x		=	
5	Training for Service Technician & Support	2 (8%)	x		=	
	a Quality and Variety of Manuals Offered					
	b Quality and Variety of Training Offered					
	c Quality and quantity of diagnostic tools and software offered					
d Vehicle diagnostic support						
6	Overall response to RFP	1 (5%)	x		=	
	a Quality, composition and completeness of response					
b Acceptance of Terms and Conditions of the RFP						
Total						

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

Rush Truck Center
NAME OF COMPANY

9600 W. Roosevelt St.
ADDRESS (or PO Box)

Tolleson, AZ 85353
CITY STATE ZIP

Chris Ryan
BY NAME (please print) TITLE

602-422-8100
TELEPHONE


AUTHORIZED SIGNATURE

Addendum to Solicitation

City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

This addendum will modify and/or clarify:

Solicitation No.: | 15-097

and is

Addendum No. | 2

Procurement Description: | Refuse Vehicles

The Proposal Due Date/Time has been changed to:

Wednesday, May 13, 2015 at 3:00pm local time

Following are question that have been submitted for RFP 15-097 (Refuse Vehicles) and the City's response.

Question

On page 58 there is an option cost for a single rear axle with lift tag axle in lieu of a the basic tandem rear axle spec. Am I supposed to give you the cost of the entire chassis or a partial line item cost increase/decrease for switching to this spec?

Answer

This line is requesting a price difference for changing to the lift tag axle from the specified tandem axle truck

Question

Also again I don't see where as part of the base chassis spec starting on page 25 you have requested a lift axle, but then in the options section there are references on options to control the deployment of said axle

Answer

This references the lift tag axle in the question above

Question

On page 60 item 9 you ask for pricing to go with standard suspension and deduct the tag axle as well. However, I don't see prior where you spec'd in the tag axle as part as the standard chassis section. If I missed something, please let me know, but as I read this the basic chassis spec is CNG, 20k front with 40k rear.

Answer

Line item 9 on price sheet for Front Load vehicle should have been deleted.

Question

Rear Loader and Front Loader Section A "One slow fill nozzle on the front bumper and one slow fill nozzle and one fast on the right side of the truck". The Majority of all CNG fueling modules and boxes are on the left side (streetside) of the truck. Will this be acceptable?

Answer

Right side is needed because of the traffic pattern at the Transit yard for CNG fueling.

Continued on next page

Question

Each hydraulic section asks about a front mount or transmission mounted PTO setup. Does the City have a preference if each is available?

Answer

Rear Loader and Front Loader – Front mount is preferred but we will evaluate the distance it extends the front bumper area.

Side Loader – Transmission mount.

Question

The City is asking for a Safety Vision SV-CLCD-65 or approved Equal camera. Attached is a camera model that we offer and would like to get approved. It is a McNeilus brand camera with a better warranty than most other brands.

Answer

The camera appears to be "or equal" so it is acceptable.

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

Rush Truck Center
NAME OF COMPANY

9600 W. Roosevelt St
ADDRESS (or PO Box)

Tolleson, Az 85353
CITY STATE ZIP

Chris Ryan
BY NAME (please print) TITLE

602-422-8100
TELEPHONE

[Signature]
AUTHORIZED SIGNATURE

Addendum to Solicitation



City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

This addendum will modify and/or clarify:

Solicitation No.: | 15-097

and is

Addendum No. | 3

Procurement Description: | Refuse Vehicles

The City has modified the air suspension, requested as an option on the price sheet, to be specific to a Hendrickson Primaax EX Pax 462 or equal.

The line from each of the various price sheet configurations is displayed below:

Price Sheet – Rear Load

Description		Unit Cost
Rear load refuse vehicle		\$
Options		Cost
26	Full air suspension on conventional tandem – Hendrickson Primaax EX Pax 462 or equal	\$ 2,780.00

Price Sheet – Side Load

Description		Unit Cost
Side Load refuse vehicle		\$
Options		Cost
27	Full air suspension on conventional tandem – Hendrickson Primaax EX Pax 462 or equal	\$ 2,780.00

Price Sheet – Front Load

Description		Unit Cost
Front load refuse vehicle		\$
Options		Cost
23	Full air suspension on conventional tandem – Hendrickson Primaax EX Pax 462 or equal	\$ 2,780.00

*Hendrickson Primaax includes:
6X6 M anti lock system*

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

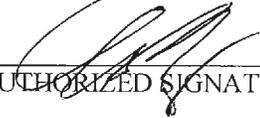
Acash Truck Center
NAME OF COMPANY

9600 W. Roosevelt St.
ADDRESS (or PO Box)

Tolleson Az 85353
CITY STATE ZIP

Chris Ryan
BY NAME (please print) TITLE

602-422-8100
TELEPHONE


AUTHORIZED SIGNATURE

Addendum to Solicitation



City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

This addendum will modify and/or clarify:

Solicitation No.: | 15-097

and is

Addendum No. | 4

Procurement Description: | Refuse Vehicles

Following is a correction to the specifications for the Front Load Refuse body.

In original document

I	Hydraulics	Vendor Response			
		Yes	No	Exception	
	5	Preferred hydraulic system shall be fuel efficient and designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions			
	a	Pump(s) shall have full load sensing controls that provide power only when needed and thus reduce HP draw from the engine when hydraulic functions are not being used			
	b	System shall be designed in a way so that the hydraulic pump(s) will only provide the minimum flow required for each specific hydraulic function when commanded			
	c	System shall be designed in a way so that the pump(s) will go to zero flow and low pressure standby when no hydraulic functions are commanded regardless of engine speed			
	d	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss			
		Give a detailed description how your hydraulic system will accomplish this goal.			

Revised specifications

I	Hydraulics	Vendor Response			
		Yes	No	Exception	
	5	It is preferred that the hydraulic system shall be designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions	X		
	a	If load sensing system is used is it a proven design guaranteed to operate system in the same fashion as a convention pump setup	X		
	b	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss	X		

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

Brush Truck Center
NAME OF COMPANY

9600 W. Roosevelt St.
ADDRESS (or PO Box)

Tolleson, Az 85353
CITY STATE ZIP

Chris Lyon
BY NAME (please print) TITLE

602-422-8100
TELEPHONE


AUTHORIZED SIGNATURE

Addendum to Solicitation



City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

This addendum will modify and/or clarify:

Solicitation No.: | 15-097

and is

Addendum No. | 5

Procurement Description: | Refuse Vehicles

While it is the primary intention of the City to purchase complete units, the City has determined that there are special circumstances when only a cab and chassis **or** refuse body may be needed. The price sheet has been modified to include this option. Return this modified price sheet with your submission

In the case of a refuse body only purchase, the City would provide the chassis and the vendor would be responsible for complete installation of a refuse body to include all labor and elements necessary to produce a complete working vehicle.

Question

	Response
Is the submitting firm willing to sell only a cab and chassis unit or refuse body as separate element?	<i>yes, chassis</i>
If firm is willing, please complete the modified price sheet and submit with your proposal.	



Complete all price sheets which can be found on the following pages

Price Sheet – Rear Load - Modified per Addendum 5

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost				
Rear load refuse vehicle – Complete Unit		\$				
Cab and Chassis only		\$	162,555.00			
Refuse Body Only – installed on City provided chassis		\$	—			
Options		Cost				
1	Upgrade to disk brakes	\$	1,753.00			
2	Exterior engine hour meter readable from ground level, engine oil pressure activated or by OEM computer that only accrues hours when engine running	\$	400.00			
3	Heavy duty pintle hitch – mounted so that the contact point with the pintle eye will be 29” off the ground	\$	—			
4	Trailer brake controller to be installed within easy reach of driver. Trailer connector to be provided. Standard 7-way RV style wired to be compatible with Tempe vehicles	\$	—			
5	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$	—			
6	Bolt on rake holder – with rake provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$	—			
7	Spare wheel and mounted tire for front axle	\$	no bid			
8	Spare wheel and mounted tire for rear axle	\$	no bid			
9	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$	- 3,415.00			
10	Deduct – Remove transmission integral retarder	\$	- 4,896.00			
11	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$	No bid			
12	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$	Yes	No	Not Required	
				✓		
		a. Engine diagnostic software and cables			✓	
		b. Transmission diagnostic software and cables			✓	
		c. Anti-Lock brake diagnostic software and cables			✓	
		d. Chassis diagnostic software and cables			✓	
		e. Regenerative exhaust system diagnostic software and cables			✓	
	f. Other diagnostic software and cable to be supplied – list below:					
13	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$	Yes	No	Not Required	
		a. Refuse body diagnostic software				
	b. Other diagnostic software – list below					

14	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ 1,750.00
15	Service Technician Training - per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ no bid
16	Service Technician Training - per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ no bid
17	Service Technician Training - per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ —
18	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$ —
19	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$ —
20	Grote #64123 LED amber lights - quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$ —
21	Amber strobe light (LED) - quantity of one (1) mid mounted tail gate with in cab control switch	\$ —
22	Cone Holder	\$ —
23	Zonar GPS/Pretrip system - newest version available to the market. Hardware and complete installation only - no monthly monitoring costs	\$ —
24	Air operated cab jack with hydraulic override if air system is not working.	\$ 95.00
25	Full air suspension on conventional tandem - Hendrickson Primaax EX Pax 462 or equal	\$ 2,780.00
26	Vulcan scale system with Haulmax suspension 6x4 configuration	\$ —
27	Vulcan scale system with Air Suspension 6x4 configuration	\$ —
28	Vulcan scale system with Meritor FUELite 6x2 configuration	\$ —
29	Super single tires on tandem axle with aluminum wheels	\$ -1,613.00
30	Optional 32/33 CY body with pusher axle (diesel fuel only) State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 32/33 CY body.	\$ 7,863.00
Other supplier recommended options (including extended warranties) - add pages if needed.		
		\$
		\$
		\$
		\$
		\$

Price Sheet – Side Load – Modified per Addendum 5

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost
Side Load refuse vehicle		\$
Cab and Chassis only		\$ 162,555
Refuse Body Only – installed on City provided chassis		\$ —
Options		Cost
1	Single drive rear axle with dual wheels –with liftable tag with dual wheels per specifications below	\$ 1,263.00
a	26,000# minimum axle rating with largest brakes available – would prefer 31,000# rating – indicate compliance to right	
a	Specify manufacturer, model and rating	Dana Spicer S26-190 26,000 lb.
b	Specify brake size	16.5 x 8.6 drive 16.5 x 7 Tag
b	23,000# minimum liftable tag axle (Watson-Chalin or equal) – indicate compliance to right	yes
a	Specify manufacturer, model and rating	Watson Chalin AT 2200 23,000 #
b	Specify brake size	16.5 x 7"
c	Rear suspension rating shall exceed axle ratings– indicate compliance to right	
d	Drive axle to have spring suspension	
a	Provide manufacturer, model and rating of drive suspension	Rexro 102cc 29,000#
e	Liftable tag axle to be air suspension– indicate compliance to right	
a	Provide manufacturer, model and rating of tag suspension	Included in Watson Chalin AT 2200
2	Auto down feature for liftable tag based on weight on drive axle (manual override to be included)	\$ —
3	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$ not available
4	Upgrade to disk brakes <i>Included on single drive and tag</i>	\$ 1,802.00
5	Exterior engine hour meter readable from ground level, engine oil pressure activated or by OEM computer that only accrues hours when engine running	\$ 400.00
6	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	no bid
7	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ —
8	Spare wheel and mounted tire for front axle	\$ no bid
9	Spare wheel and mounted tire for rear axle	\$ no bid
10	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$ - 3,415.00
11	Deduct – Remove integral transmission retarder	\$ - 4,896.00
12	Deduct – Change to conventional real axle setup with no liftable tag	\$? in base spec.
13	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$ not offered
	a. Engine diagnostic software and cables	Yes <input type="checkbox"/>
	b. Transmission diagnostic software and cables	Yes <input type="checkbox"/>

	c. Anti-Lock brake diagnostic software and cables				
	d. Chassis diagnostic software and cables				
	e. Regenerative exhaust system diagnostic software and cables				
	f. Other diagnostic software and cable to be supplied – list below:				
14	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$	Yes	No	Not Required
	a. Refuse body diagnostic software				
	b. Other diagnostic software – list below				
15	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			1,750.00
16	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			no bid
17	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			no bid
18	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			—
19	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$			—
20	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$			—
21	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$			—
22	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$			—
23	Cone Holder	\$			—
24	Zonar GPS/Pretrip system – newest version available to the market. Hardware and complete installation only – no monthly monitoring costs	\$			—
25	Air operated cab jack with hydraulic override if air system is not working.	\$			95.00
26	Full air suspension on conventional tandem – Hendrickson Primaax EX Pax 462 or equal	\$			2,780.00
27	Vulcan scale system with Haulmax suspension 6x4 configuration	\$			—
28	Vulcan scale system with Air Suspension 6x4 configuration	\$			—
29	Vulcan scale system with Meritor FUELite 6x2 configuration	\$			—
30	Super single tires on tandem axle with aluminum wheels	\$			-1,613.00
31	Optional 33 CY body with tandem axle and 13,500 liftable steerable tag axle. State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 33CY body.	\$			7,926.00
Other supplier recommended options (including extended warranties) – add pages if needed.					

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

McNeilus
NAME OF COMPANY
4724 W. Roosevelt St.
ADDRESS (or PO Box)
Phoenix AZ 85043
CITY STATE ZIP

Jon Loftis - Sales Manager
BY NAME (please print) TITLE
480-489-8806
TELEPHONE
[Signature]
AUTHORIZED SIGNATURE

Price Sheet – Front Load – Modified per Addendum 5

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost		
Front load refuse vehicle		\$		
Cab and Chassis only		\$ 162,555		
Refuse Body Only – installed on City provided chassis		\$ —		
Options		Cost		
1	Upgrade to disk brakes	\$ 1,753.00		
2	Exterior engine hour meter readable from ground level, engine oil pressure activated or by OEM computer that only accrues hours when engine running	\$ 400.00		
3	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$ —		
4	Spare wheel and mounted tire for front axle	\$ no bid		
5	Spare wheel and mounted tire for rear axle	\$ no bid		
6	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$ -3,415.00		
7	Deduct – Remove integral retarder	\$ -4,896.00		
8	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$		
		Yes	No	Not Required
	a. Engine diagnostic software and cables		✓	
	b. Transmission diagnostic software and cables		✓	
	c. Anti-Lock brake diagnostic software and cables		✓	
	d. Chassis diagnostic software and cables		✓	
	e. Regenerative exhaust system diagnostic software and cables		✓	
	f. Other diagnostic software and cable to be supplied – list below:			
9	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$		
		Yes	No	Not Required
	a. Refuse body diagnostic software			—
	b. Other diagnostic software – list below			
10	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ 1,750.00		
11	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ no bid		
12	Service Technician Training – per person	\$ no bid		

	Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	
13	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$ —
14	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation)	\$ —
15	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$ —
16	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$ —
17	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$ —
18	Cone Holder	\$ —
19	Zonar GPS/Pretrip system – newest version available to the market. Hardware and complete installation only – no monthly monitoring costs	\$ —
20	Air operated cab jack with hydraulic override if air system is not working.	\$ 95.00
21	Full air suspension on conventional tandem – Hendrickson Primaax EX Pax 462 or equal	\$ 2,780.00
22	Vulcan scale system with Haulmax suspension 6x4 configuration	\$ —
23	Vulcan scale system with Air Suspension 6x4 configuration	\$ —
24	Vulcan scale system with Meritor FUELite 6x2 configuration	\$ —
25	Super single tires on tandem axle with aluminum wheels	\$ -1,613.00
26	Optional 43-CY body with steerable tag axle	\$ 7,926.00
	State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 43 CY body.	\$ —
Other supplier recommended options (including extended warranties) – add pages if needed.		
		\$
		\$
		\$
		\$
		\$

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

Rush Truck Center
NAME OF COMPANY

9600 W. Roosevelt St
ADDRESS (or PO Box)

Tolleson, AZ 85353
CITY STATE ZIP

Chris Ryan
BY NAME (please print) TITLE

602-422-8100
TELEPHONE


AUTHORIZED SIGNATURE

Addendum to Solicitation

City Procurement Office/City of Tempe • PO Box 5002 • 20 East 6th Street • Tempe, AZ 85280 • (480) 350-8324 • www.tempe.gov/purchasing

Issue Date: | 05/12/2015

This addendum will modify and/or clarify:

Solicitation No.: | 15-097

and is

Addendum No.: | 6

Procurement Description: | Refuse Vehicles

The Proposal Due Date/Time has been changed to:

Wednesday, May 20, 2015 at 3:00pm local time

The balance of the specifications and bid solicitation instructions to remain the same. Bidders/Proposal Offerors are to acknowledge receipt and acceptance of this addendum by returning of signed addendum with bid/proposal response. Failure to sign and return an addendum prior to bid/proposal opening time and date may make the bid/proposal response non-responsive to that portion of the solicitation as materially affected by the respective addendum.

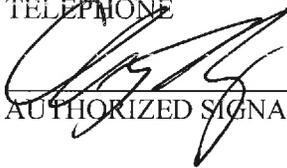
Rush Truck Center
NAME OF COMPANY

Chris Ryan
BY NAME (please print) TITLE

9600 W. Roosevelt St.
ADDRESS (or PO Box)

602-422-8100
TELEPHONE

Tolleson, Arizona 85353
CITY STATE ZIP


AUTHORIZED SIGNATURE



rushtruckcenters.com

Rush Truck Center - Phoenix | 9600 West Roosevelt Street | Tolleson, Arizona 85353 | 602-422-8100 | 602-422-8175 fax

May 11, 2015

City of Tempe

RE: RFP 15-097

Additional options for consideration.

- | | |
|--|-----------------|
| 1. Stainless steel external sun visor. | ADD \$325.00 |
| 2. Donaldson ECG Pre-cleaner. | ADD \$110.00 |
| 3. Delete double brake pedal. | Deduct \$700.00 |
| 4. Delete Allison 5 yr. warranty. | Deduct \$982.00 |

George Beal

Sales Representative

A handwritten signature in cursive script that reads "George Beal".



**CITY OF TEMPE
REQUEST FOR COUNCIL ACTION**

**Council Meeting Date: mm/dd/yy
Agenda Item:**

ACTION: Award a one-year contract with four, one-year renewal options to Rush Truck Centers of Arizona for the purchase of refuse vehicles to be used by the Public Works Department.

FISCAL IMPACT: Total cost of this one-year contract will not exceed \$ 2,300,000. Sufficient funds have been budgeted in the Solid Waste Fund – cost centers 3713 (Residential)– for the anticipated expenditure in the current fiscal year.

RECOMMENDATION: Award the contract.

BACKGROUND INFORMATION: (RFP 15-097) The City of Tempe issued a Request for Proposal (RFP) to establish a contract for the purchase of refuse vehicles used for the collection of residential and commercial refuse.

The City of Tempe’s trash and recycling operational programs include; residential collection of trash and recyclables, commercial/industrial collection of trash and recyclables, and residential uncontained bulk/brush collection. Ongoing analysis and optimization of fleet operations is resulting in a reduction of the number of vehicles needed to efficiently provide quality service to Tempe residents and businesses. The current fleet of collection vehicles is comprised of 47 units:

Type	Used For	Quantity
Side Loader	Residential – Trash/Recyclables	21
Front Loaders	Commercial/Industrial – Trash/Recyclable	12
Rear Loaders	Residential – Uncontained Bulk/Brush	9
Roll-Off Loaders	Commercial/Industrial – Trash/Recyclable	5

This request is for the purchase of six automated side load vehicles used in the weekly residential trash and recycling collection operation. These units will replace vehicles that have reached the point in their lifecycle where they have exhausted the ability to be efficient, effective and achieve the overall lowest cost of operation. This request includes the purchase of three vehicles which were scheduled for replacement in fiscal year 2014/2015 but were not purchased pending ongoing budget and operational analysis. Funds for these vehicles have been rolled forward into the current fiscal year.

This contract also established pricing for front load and rear load that may be purchased under this contract in future years.

The City’s vehicle replacement strategy is based on the analysis of capital costs, depreciation, operating costs, maintenance costs, and residual value at auction. Fleet Services determines the lowest annualized cost of equipment to establish replacement guidelines that provide the lowest overall vehicle cost.

Industry best practices suggest a seven-year replacement cycle for automatic side load vehicles – 45% of the current residential collection fleet (automated side loaders) is more than seven-years old. The replacement vehicles requested in this RFCA will reduce the ‘over seven-year old’ percentage to 15% which strengthens the City’s ability to provide a consistent level of customer service to Tempe residents.

Additionally, this request includes an option to upgrade the vehicles to be compressed natural gas (CNG) powered which adds approximately \$38,000 to the cost of each vehicle. Incorporating CNG fueled vehicles into the fleet is an element of Public Works fuel diversification strategy and reflects the department’s commitment to provide fiscally and environmentally sustainable services. Based on current fleet cost records, the incremental cost for CNG equipment can be recovered in approximately four years.

Evaluation Process

Six firms submitted offers representing 25 truck/body combinations. Three firms submitted offers for bodies only – these offers were not reviewed since the City was looking for complete units and only requested costs for 'body only' for unique circumstances. The three remaining firms offered 'body only' pricing in addition to complete vehicles as part of their responses.

The responses were scored on the following criteria:

Criteria	Weight
Cost	8 (32%)
Base vehicle	
Options	
Requested vehicle parameters	6 (25%)
Specifications	
Experience in producing units	
Warranty	
Guaranteed cycle times	
References	
Delivery time	
Functionality of unit	4 (17%)
Turning distances	
Height of unit	
Weight of unit	
Local parts and service	3 (13%)
Training and support	2 (8%)
Manuals offered	
Training offered	
Diagnostic tools	
Diagnostic support	
Overall response to RFP	1 (5%)
Quality, composition & completeness	
Acceptance of terms and conditions	

Results of Scoring

Each type of vehicle was reviewed and scored separately – front load, side load, and rear load.

Front Loader

Firm	Chassis/Body	Overall Score	Cost	Warranty Body/Floor/Cylinders (Months)
Rush Truck Centers of Arizona	Peterbilt/McNeilus	227.67	\$ 293,994	60/84/48
Freightliner of Arizona	AutoCar/McNeilus	227.21	\$ 297,960	60/84/48
Vanguard Truck Center	Mack/McNeilus	226.90	\$ 289,049	60/84/48
Rush Truck Centers of Arizona	Peterbilt/Bridgeport	224.55	\$ 282,740	60/12/12
Freightliner of Arizona	AutoCar/Bridgeport	224.35	\$ 286,706	60/12/12
Vanguard Truck Center	Mack/Bridgeport	224.12	\$ 277,795	60/12/12
Vanguard Truck Center	Mack/Dadee	219.72	\$ 312,998	60/84/48
Rush Truck Centers of Arizona	Peterbilt/Labrie	219.19	\$ 307,555	24/24/60
Rush Truck Centers of Arizona	Peterbilt/Dadee	218.02	\$ 317,943	60/84/48
Freightliner of Arizona	AutoCar/Dadee	217.72	\$ 321,908	60/84/48
Freightliner of Arizona	AutoCar/Labrie	213.01	\$ 311,521	24/24/60

Cost is for base vehicle only (no tax) – pricing for options were evaluated but are not included

Highlighted entry is recommended for award

Through the utilization of the Request for Proposal (RFP) procurement process, the City is able to evaluate not only the cost of a vehicle but several other factors which are equally important when making a best value decision. The best value decision included the analysis of; 244 individual specification elements, unit operating times, unit weights, warranty, build experience of offeror, delivery time, functionality of unit, parts availability, and dealer support.

While there are four offers with lower outright costs, two primary evaluation criteria indicate that the higher cost unit from Rush Truck Centers of Arizona is a better value for the City. The recommended firm has offered a significantly longer warranty than three of the lower priced firms and offered the lightest chassis of the group which allows the finished unit the ability to carry more refuse and reduce overall operating costs.

The increased cost associated with this recommendation is approximately 5.6% higher than the low submitting firm, however, the warranty increases by 72 months on the floor and 36 months on the cylinders as opposed to the lower priced firm.

Rear Loader

Firm	Chassis/Body	Overall Score	Cost	Warranty Body/Floor/Cylinders (Months)
Rush Truck Centers of Arizona	Peterbilt/McNeilus	227.93	\$ 272,851	60/84/48
Vanguard Truck Center	Mack/McNeilus	227.35	\$ 265,996	60/84/48
Freightliner of Arizona	AutoCar/McNeilus	226.86	\$ 276,264	60/84/48
Vanguard Truck Center	Mack/Dadee	225.28	\$ 270,745	60/84/48
Freightliner of Arizona	AutoCar/Dadee	224.95	\$ 279,103	60/84/48
Vanguard Truck Center	Mack/Heil	220.58	\$ 284,439	60/60/60
Freightliner of Arizona	AutoCar/Heil	220.37	\$ 294,007	60/60/60
Rush Truck Centers of Arizona	Peterbilt/Leach	220.14	\$ 267,555	24/24/60
Vanguard Truck Center	Mack/Wayne	217.81	\$ 269,321	60/0/60
Freightliner of Arizona	AutoCar/Wayne	217.16	\$ 279,589	60/0/60
Freightliner of Arizona	AutoCar/Leach	214.09	\$ 270,968	24/24/60

Cost is for base vehicle only (no tax) – pricing for options were evaluated but are not included
 Highlighted entry is recommended for award

Through the utilization of the Request for Proposal (RFP) procurement process, the City is able to evaluate not only the cost for a vehicle but several other factors which are equally important when making a best value decision. The best value decision included the analysis of; 209 individual specification elements, unit operating times, unit weights, warranty, build experience of offeror, delivery time, functionality of unit, parts availability, and dealer support.

While there are five offers with lower outright costs, two primary evaluation criteria indicate that the higher cost unit from Rush Truck Centers of Arizona is a better value for the City. The recommended firm has offered a significantly longer warranty than three of the lower price firms and offered the lightest chassis of the group which allows the finished unit the ability to carry more refuse and reduce overall operating costs.

The increased cost associated with this recommendation is approximately 2% higher than the low submitting firm, however, the warranty increases by 84 months on the floor, incurs a 12 month loss in cylinder warranty but adds load capacity of 846 pounds as opposed to the lower priced firm.

Side Loader

Firm	Chassis/Body	Overall Score	Cost	Warranty Body/Floor/Cylinders (Months)
Rush Truck Centers of Arizona	Peterbilt/Dadee	236.22	\$ 327,386	60/84/48
Vanguard Truck Center	Mack/Dadee	235.44	\$ 321,688	60/84/48
Freightliner of Arizona	AutoCar/Dadee	231.14	\$ 331,305	60/84/48

Cost is for base vehicle only (no tax) – pricing for options were evaluated but are not included

Highlighted entry is recommended for award

Through the utilization of the Request for Proposal (RFP) procurement process, the City is able to evaluate not only the cost for a vehicle but several other factors which are equally important when making a best value decision. The best value decision included the analysis of; 245 individual specification elements, unit operating times, unit weights, warranty, build experience of offeror, delivery time, functionality of unit, parts availability, and dealer support.

While there is one offer with a lower outright cost, the evaluation indicates that the higher cost unit from Rush Truck Centers of Arizona is a better value for the City. The recommended firm has offered the lightest chassis of the group which allows the finished units the ability to carry more refuse and reduce overall operating costs.

The increased cost associated with this recommendation is approximately 1.8% higher than the low submitting firm, however, the carrying capacity of the unit increases by 2,867 pounds as opposed to the lower priced firm.

Summary

It is recommended that a contract be awarded to Rush Truck Center of Arizona, the high scorer for each of the categories, whose offer represents the best overall value to the City.

Although the committee is recommending a firm who is modestly higher in initial purchase cost, it is strongly believed that the longer warranties and greater load capacities associated with these refuse vehicles will create greater value over time that will far exceed this initial cost difference.

ATTACHMENTS: Vendor offer page

STAFF CONTACT(S): John Osgood, Deputy Public Works Director – Field Operations, (480) 350-8949

Department Director: Renie Broderick, Internal Services Director
Legal review by: David Park, Assistant City Attorney
Prepared by: Tony Allen, CPPB, Procurement Officer

Fiscal Impact: The amount of the grant award from July 1, 2015 through June 30, 2017 is \$50,000. Funds will be disbursed as \$25,000 payable now, \$25,000 payable in 2016. Sufficient budget appropriations for expenditure of this grant were authorized in the Governmental Grants Fund (Fund 46) as part of the fiscal year 2015-16 adopted budget.

ADOPTED

5C4. ~~REMOVED/DELETED Adopt a resolution authorizing the Mayor to execute a Development Agreement and License Agreement with Transmosis Corporation relating to the operation of a pilot workforce accelerator program focused on creating, building and growing technology companies and training underserved regional populations for careers in the broader technology industry within the Tempe Performing Arts Center building, located at 132 East Sixth Street. (Resolution No. R2015.87)~~

~~**Fiscal Impact:** The City will pay all utility expenses for the portion of the Tempe Performing Arts Center building licensed to the developer, up to \$2,000 per month. The developer will pay all utility expenses that exceed this amount. Sufficient funds have been appropriated in General Fund cost center 3241 (Facilities Services) as part of the fiscal year 2015/16 adopted budget to cover the utility expenses.~~

THIS ITEM WAS REMOVED/DELETED FROM THE AGENDA

6. NON-CONSENT AGENDA

All items listed on the Non-Consent Agenda will be considered separately. Agenda items scheduled for Introduction and First Public Hearing will be heard, but will not be voted upon at this meeting. Agenda items scheduled for Second Public Hearing and Final Adoption will be voted upon tonight.

Quasi-judicial items are indicated by "q-j". The City Council sits as a quasi-judicial body when hearing variances. In this situation, the City Council must conduct itself as a court, not as a legislative body. Pre-meeting contact with the City Council on quasi-judicial matters is prohibited. Any materials or conversations concerning the item shall only be presented to the City Council at the scheduled public hearing.

A. Miscellaneous Items/Bids/Contracts/Resolutions

6A1. Award a one-year contract with four, one-year renewal options to Rush Truck Centers of Arizona for the purchase of refuse vehicles to be used by the Public Works Department.

Fiscal Impact: Total cost of this one-year contract will not exceed \$2,300,000. Sufficient funds have been budgeted in the Solid Waste Fund – cost centers 3713 (Residential) – for the anticipated expenditure in the current fiscal year.

APPROVED

B. Ordinances and Items for Introduction and First Hearing

***6B1.** Introduce and hold the first public hearing to adopt an ordinance for an Amended Planned Area Development Overlay and a Development Plan Review for a new mixed-use 14-story development for 1000 EAST APACHE, located at 1000 East Apache Boulevard. The applicant is Snell & Wilmer LLC. The second and final public hearing is scheduled for August 27, 2015. (Ordinance No. O2015.40)

REQUEST FOR PROPOSAL

CITY OF TEMPE

REQUEST FOR PROPOSAL : 15-097

RFP ISSUE DATE: 04/01/2015

Commodity Code(s): 002-22

PROCUREMENT DESCRIPTION: Refuse Vehicles

PROPOSAL DUE DATE/TIME: **Wednesday, April 29, 2015, 3:00 P.M. Local Time**
Late proposals will not be considered.

PROPOSAL RESPONSE MUST BE DELIVERED TO CITY PROCUREMENT OFFICE.

Mailing Address: P.O. Box 5002, Tempe, AZ 85280
Street Address: 20 E. Sixth Street (2nd Floor), Tempe, AZ 85281

Mailing Alert: Firms should use the Street Address to ensure on-time express deliveries. The Mailing Address provided above routes through the City's internal mail distribution center and may impact delivery time.

PRE-PROPOSAL CONFERENCE (if scheduled): N/A

DEADLINE FOR INQUIRIES: **Friday, April 17, 2015, 5:00 P.M., Local Time**

Sealed proposals must be received and in the actual possession of the City Procurement Office on or before the exact Proposal Due Date/Time indicated above. Proposal responses will be opened and each Offeror's name will be publicly read. Prices are not read and shall be kept confidential until award. Late proposals will not be considered.

Proposals must be submitted by a sealed envelope/package with the Request for Proposal number, Offeror's name and address clearly indicated on the envelope/package. **It is critical that the RFP number be included on the front of the envelope to ensure proper handling.**

Proposals must be completed in ink or typewritten and a completed proposal response returned to the City Procurement Office by the Proposal Due Date/Time indicated above. The "Vendor's Offer" (Form 201-B RFP) must be completed and signed in ink. Proposals by electronic transmission, telegraph, mailgram or facsimile will not be considered.

Offerors are asked to immediately and carefully read the entire Request for Proposal and not later than ten (10) days before the Proposal Due Date/Time, address any questions or clarifications to the Procurement Officer identified below:

Tony Allen _____, CPPB E-mail: tony_allen@tempe.gov Phone No: (480)350.8548
Procurement Officer

Award recommendations are publicly posted to the City Procurement Office web page www.tempe.gov/procurement and at the Procurement Office reception counter.

Submit one (1) original signed and completed proposal response for evaluation purposes. For this specific RFP, two (2) additional copies of RFP response on Flash Drive are also to be submitted for evaluation purposes. A late, unsigned and/or materially incomplete proposal response will be considered nonresponsive and rejected.

The City Procurement Office is committed to fair and equal procurement opportunities for all firms wishing to do business with the City and encourages the participation of small and disadvantaged businesses.

Michael Greene, C.P.M.
Central Services Administrator

Vendor's Offer

Form 201-B (RFP)

“Return this Section with your Response”

It is required that Offeror complete, sign and submit the original of this form to the City Procurement Office with the proposal response. An unsigned “Vendor’s Offer”, late proposal response and/or a materially incomplete response will be considered nonresponsive and rejected.

Offeror is to type or legibly write in ink all information required below.

Company Name: _____
Company Mailing Address: _____
City: _____ State: _____ Zip: _____
Contact Person: _____ Title: _____
Phone No.: _____ FAX: _____ E-mail: _____
<u>Company Tax Information:</u>
Arizona Transaction Privilege (Sales) Tax No.: _____ or
Arizona Use Tax No.: _____
Federal I.D. No.: _____
City & State Where Sales Tax is Paid: _____, _____
If a Tempe based firm, provide Tempe Transaction Privilege (Sales) Tax No.: _____

THIS PROPOSAL IS OFFERED BY

Name of Authorized Individual (TYPE OR PRINT IN INK) _____

Title of Authorized Individual (TYPE OR PRINT IN INK) _____

REQUIRED SIGNATURE OF AUTHORIZED OFFEROR (MUST SIGN IN INK)

By signing this Vendor’s Offer, Offeror acknowledges acceptance of all terms and conditions contained herein and that prices offered were independently developed without consultation with any other Offeror or potential Offeror. Failure to sign and return this form with proposal response will be considered nonresponsive and rejected.

Signature of Authorized Offeror

(H:/RFP 3-2008)

Date

INSTRUCTIONS TO PROPOSERS

Failure to follow these instructions shall result in rejection of proposal for non-responsiveness or cancellation of any Contract awarded.

1. **Preparation of Proposal:**

- A. Proposals shall be submitted to the City of Tempe (“City”) in the sequence specified herein, on the forms attached hereto, including Vendor’s Offer, Form 201-B (RFP).
- B. All proposals shall be submitted on the forms provided in this Request for Proposal, signed by an authorized signer and returned with the proposal response to the City.
- C. Completed and signed proposal forms for offer, acceptance and any solicitation amendments shall be signed by an authorized individual. Such proposal constitutes an irrevocable Offer to sell the good and/or service specified herein. Offeror shall submit all additional data, documentation, or information as requested by the City, signifying its intent to be bound by the terms of the Request for Proposal.
- D. Negligence in preparation of a proposal confers no right of withdrawal. Offeror is solely responsible for seeking clarification of any requirement and presenting accurate information in the proposal response. The City shall not reimburse any costs for a proposal, or its submission, presentation or withdrawal, for any reason.
- E. Offeror shall identify each subcontractor to be utilized in the services and/or work set forth herein, in the proper form as indicated.

2. **Late, Unsigned and/or Incomplete Proposal:** A late, unsigned and/or materially incomplete proposal will be considered nonresponsive and rejected.

3. **Inquiries:** Questions regarding this Request for Proposal shall be directed to the City Procurement Officer identified on the cover page of this document, unless another City contact is specifically named. Inquiries shall be submitted in writing, identifying the appropriate Request for Proposal’s number, page and paragraph at issue. PLEASE NOTE: Offeror must not place the Request for Proposal’s number on the outside of an envelope containing questions. Oral responses provided by the City shall have no binding effect or legal effect. Inquiries should be submitted no later than ten (10) days before proposal due date/time. Those received within ten (10) days of the proposal due date/time shall not be considered. The City reserves the right to contact Offerors to obtain additional information for use in evaluating proposal and solicitation requirements.

4. **Proposal Conference:** If a proposal conference is scheduled, Offeror shall attend the conference to seek clarification of any points of confusion or requirements at issue.

5. **Withdrawal of Proposal:** At any time before the specified proposal due date and time, an Offeror may withdraw its proposal by way of written correspondence from the Offeror or its authorized representative.

6. **Proposal Addenda:** Receipt and acceptance of a Request for Proposal Addendum shall be acknowledged by signing and returning the document either with the vendor’s proposal response or by separate envelope prior to proposal due date/time. Failure to sign and return an addendum prior to the proposal due date/time may result in the proposal being considered nonresponsive to that portion of the Request for Proposal and may result in rejection.

7. **Evaluation:** The City shall determine whether a proposal meets the specifications and requirements of this Request for Proposal, at its sole discretion, and reject any proposals not meeting the intent or requirements set forth therein. The City reserves the right to reject any and all proposals.
8. **Payment:** For a single requirement purchase, the City will make an effort to remit payment within thirty (30) calendar days from receipt and approval of acceptable products, materials and/or services and approval of correct invoice. For ongoing term Contract purchases, the City will make an effort to remit payment within thirty (30) calendar days from approval of monthly statement.
9. **Discounts:** Payment discounts periods shall be computed from the date of receipt of acceptable products, materials and/or services or correct invoice, whichever is later to the date payment is mailed. Discounts shall be taken on the full amount of the invoice, unless otherwise indicated. The City shall be entitled to receive any discounts offered by Offeror, if payment is made within the discount period.
10. **Compliance with City Solicitation Requirements:** Unless stated otherwise in this Request for Proposal, the City reserves the right to award by individual line item, by group of items, or as a total at the City's discretion. The City expressly reserves the right to waive any immaterial defect or informality, or reject any or all proposals, or portions thereof, or reissue this Request for Proposal.
11. **Award of Contract:** A proposal shall constitute a binding Offer to Contract with the City based on the terms, conditions and specifications contained in this Request for Proposal. An Offeror shall become a Contractor only upon execution of a formal Contract from the City Procurement Office ("Contract"). Unless this Request for Proposal includes separate contract document(s) or requires the Offeror to submit a contract for review, a contract shall be formed when the City Procurement Office provides a written notice of award or a purchase order to the successful Offeror. All items and conditions of the Contract are contained herein, unless modified by an amendment approved by the City. Proposals that take exception to the terms, conditions, specifications and/or other requirements stated within this Request for Proposal may cause the vendor's Offer to be considered non-responsive and rejected. Exceptions will be evaluated on an individual basis to determine compliance with the purpose and intent of the terms and conditions stated within this solicitation. The City shall be the sole judge as to whether an exception complies with the general purpose and intent of any term, condition and/or specification set forth herein.
12. **Taxes:** All materials, equipment and/or products shall be proposed as F.O.B. City, prepaid. Unless specified herein, sales, use or federal excise tax shall not be included in proposal pricing. The City is exempt from payment of federal excise tax. For proposal evaluation, transaction (sales) privilege tax paid (returned) to the City is considered a pass-through cost, calculated as zero (0) expense. For information on privilege (sales) tax, please contact the City's Tax and License Office at (480) 350-2955 or visit their web site at www.tempe.gov/salestax.
13. **Payment by City Procurement Card:** The City Procurement Office may elect to remit payment through the use of a City procurement card. Each Offeror may indicate on the Price Sheet of this Request for Proposal its ability to accept City procurement card payments. The inability to accept payment by City procurement card will not disqualify a proposal.
14. **Proposal Results:** Offerors may attend the scheduled proposal opening at which the name of each Offeror will be publicly read. All other information contained in the proposals shall be kept confidential until contract is awarded. After award of contract, an appointment may be made with the City Procurement Officer to review proposal documents. Formal Contract award results shall be placed on the Procurement Office web page (www.tempe.gov/procurement) and posted at the front counter of the Procurement Office at the time the Contract award is approved by the City Council. Award recommendations may also be viewed via the City Clerk's web site normally up to five (5) days prior to the scheduled City Council meeting by visiting (<http://documents.tempe.gov/sirepub/web>).

15. **Protests:** Any actual or prospective Offeror who is aggrieved in conjunction with this Request for Proposal or award may protest the award to the City Procurement Office. A protest based upon alleged improprieties in this Request for Proposal that are apparent before the proposal opening shall be filed prior to the proposal due date/time. A protest concerning an award recommendation must be filed within ten (10) business days after the date of award. Up to five (5) days before award of a contract, the City Procurement Office will post award recommendations on the City Clerks web site at (http://documents.tempe.gov/sirepub/?sort=meet_date) and at the Procurement Office front counter and website for public review (www.tempe.gov/procurement). A protest shall be in writing and include the protester's name, address and phone number, identification of the solicitation or Contract being protested, a detailed statement of the legal and factual grounds of the protest, including copies of all relevant documents, and the form of relief requested. A protest is to be on the protester's company letterhead and signed by the protester or its authorized representative.
16. **Compliance of Proposal Offeror/Contractor Forms:** Any documents or forms (including separate contract, maintenance agreement or training agreement intended by the Offeror to be utilized in any resulting Contract, must be submitted with proposal. Any documents inconsistent with or taking exception to the terms, conditions, specifications and/or other requirements stated within this Request for Proposal may cause the proposal to be considered as nonresponsive and rejected. No documents will be considered unless submitted with vendor's proposal Offer and approved by the City Procurement Office.
17. **Definitions:** For purposes of this Request for Proposal and resultant Contract, the following definitions apply:
- A. "City" means the municipal corporation of the City of Tempe, Arizona.
 - B. "Code Governance" means unless otherwise specified herein, the provisions of the Tempe City Code, Chapter 26A shall apply and govern this Request for Proposal.
 - C. "Contract" means the agreement for the procurement of goods, services, work, construction or concessions.
 - D. "Contractor" means an Offeror responding to a Request for Proposal who has been awarded a Contract with the City.
 - E. "Offer" means a written offer to furnish goods, services, work, materials, construction and/or concessions to the City, in conformity with the standards, specifications, delivery terms and conditions, and all other requirements established in a competitive solicitation.
 - F. "Offeror" means a business, entity or person who submits an Offer in response to a competitive solicitation.
 - G. "Public Record" means proposals and all other documents submitted in response to this solicitation shall become the property of the City and shall be a matter of public record available for review following the Contract award.
 - H. "Purchase Order" means a document issued by the City Procurement Office directing the Contractor to deliver goods, services, work, materials, construction and/or concessions to the City.
 - I. "Request for Proposal" means a competitive solicitation issued by the City for the procurement of goods, services, work, materials, construction and/or concessions.

18. **Responsiveness to Specifications:** Performance or feature requirements which are designated as mandatory or minimums are needed in order to satisfy an identified task or performance need. A description is given for each designated feature. This description shall be used to determine if the Offeror's proposed product(s) and/or service(s) is/are capable of performing the function(s) specified in the Request for Proposal.

It is recognized that more than one method may be used to accomplish the sought after task functionality. If Offeror has an alternate method of performing functional tasks, then Offeror shall list such method as an "alternate", and described in full detail within the Proposal. The City shall be the sole judge as to whether any alternate methodology will be accepted.

"Must", "shall", "will", "minimum", "required" and/or "mandatory" performance/feature statements must be met or exceeded by the Offeror. Should no Offeror be found totally responsive to all designated Request for Proposal requirements, the City at its option, may either award the Contract to the most responsive Offeror or cancel the Request for Proposal and issue another Request for Proposal for the need under revised specifications.

19. **Technical Questionnaire:** Offeror must complete the Technical Questionnaire portion of this Request for Proposal and provide any documentation required to support the answers to the Questionnaire. Questionnaire items, which are designated as mandatory, are needed to satisfy a required task or performance criteria. Items, which may be listed as desirable, are not required to be responsive to the Request for Proposal and will be relatively evaluated against other proposals in making a final award decision.

If supporting documentation is required, Offeror shall provide the documentation in the sequence set forth in the Request for Proposal and ensure all technical literature and/or narrative explanations fully address the specifics of the question. Vague or disorganized responses that do not allow sufficient information for evaluation purposes may result in rejection of a Proposal.

20. **Proposal Opening:** Proposals shall be opened at the time and place designated on the cover page of this Request for Proposals. The name of each Offeror and the identity of the Request for Proposal for which the proposal was submitted shall be publicly read and recorded in the presence of witnesses. Proposals, modifications and all other information received in response to this Request for Proposal shall be shown only to City personnel having a legitimate interest in its evaluation. Prices shall not be read. After Contract award, the proposals and the evaluation documentation shall be open for public inspection.

21. **Technical Proposal Opening:** Technical proposals (as received in step one of a two step bidding process) shall be opened at the time and place designated on the cover page of this document. The name of each Offeror and the identity of the Request for Proposal for which the proposal was submitted shall be publicly read and recorded in the presence of witnesses. Proposals, modifications and all other information received in response to this Request for Proposal shall be shown only to City personnel having a legitimate interest in the evaluation. Evaluation documentation to substantiate technical proposal selection(s) shall be open for public inspection.

22. **Proposal Evaluation and Award:** Award(s) shall be made to the responsible Offeror whose proposal is determined in writing to be the most advantageous to the City, taking into consideration the evaluation factors set forth in the Request for Proposal. The City shall be the sole judge as to the acceptability of the products and/or services offered.

23. **Clarifications and Negotiations with Offerors and Revisions to Proposal:** Clarifications may be made with any submitting firm at any time during the evaluation phase of this procurement. Clarifications are not negotiations and may be utilized by the City to ensure thorough and complete understanding of, and responsiveness to, the solicitation requirements. Negotiations may be conducted with responsible Offerors who submit proposals determined to be reasonably susceptible of being selected for award. The purpose of negotiations is to allow the City and the Offeror(s) to revise initial Offers through an exchange or series of exchanges. Should the City elect to call for final proposal revisions (best and final Offers), Offerors shall be accorded fair and equal treatment with respect to any opportunity for negotiations and revision of proposals, and such revisions may be permitted after submissions and prior to award. In conducting clarifications and negotiations there shall be no disclosure of any information derived from proposals submitted by competing Offerors. The purposes of such negotiations shall include but not be limited to:
- A. Determine in greater detail such Offeror's qualifications;
 - B. Explore with the Offeror the scope and nature of the project, the Offeror's proposed method of performance, and the relative utility of alternate methods of approach;
 - C. Determine that the Offeror will make available the necessary personnel and facilities to perform within the required time; and
 - D. Agree upon compensation which is fair and reasonable, taking into account the estimated value of the required services, and the scope, complexity and nature of such services.
24. **Code Governance:** Unless otherwise specified herein, the provisions of the Tempe City Code, Chapter 26A shall apply and govern this Request for Proposal.
25. **Public Record:** Proposals and all other documents submitted in response to this solicitation shall become the property of the City and shall be a matter of public record available for review following the Contract award. Material portions of the recommended Offer(s) as determined by the City may be posted to the City's web site up to five (5) days prior to the City Council meeting.

STANDARD TERMS & CONDITIONS

Please note that these Standard Terms & Conditions shall be fully complied with by Offeror. Failure to comply with these requirements may result in rejection of a proposal for non-responsiveness, or cancellation or termination of any awarded Contract.

1. **Applicable Law:** This Contract shall be governed by, and the City and Contractor shall have all remedies afforded each by the Uniform Commercial Code as adopted in the State of Arizona, except as otherwise provided in this Request for Proposal and resultant Contract, and all statutes or ordinances pertaining specifically to the City. This Contract shall be governed by State of Arizona law and suits pertaining to this Contract may only be brought in courts located in Maricopa County, Arizona.
2. **Arizona Climate Action Compliance:** Offeror shall comply with all applicable standards, laws, rules, orders and regulations issued pursuant to A.R.S. §49-101, *et seq.*, including but not limited to, Arizona Executive Orders Nos. 2006-13 and 2005-02, with regard to reducing GHG emissions, increasing energy efficiency, conserving natural resources and developing renewable energy sources.
3. **Availability of Funds for the Next Fiscal Year:** The City's obligation for performance of the Contract is contingent upon the availability of City, state and federal funds that are allocated or appropriated for payment obligations of the Contract. If funds are not allocated by the City or available for the continued use or purchase of services, work and/or materials set forth herein, the City may terminate the Contract. The City will use reasonable efforts to notify Contractor of such non-allocation affecting the obligations of the Contractor and/or City. The City shall not be penalized or adversely affected for exercise of its termination rights. Further, the City shall in no way be obligated or liable for additional payments or other damages as a result of such termination. No legal liability on the part of the City for any payment may arise for performance under this Contract.
4. **Certification:** By signing the "Vendor's Offer", form 201-B (RFP), the Offeror certifies:
 - A. The submission of the vendor's proposal Offer response did not involve collusion or other anti-competitive practices.
 - B. Offeror agrees that it will comply with section 2-603(5) of the Tempe City Code ("TCC"), and will not refuse to hire or employ or bar or discharge from employment any person or discriminate against such person in compensation, conditions, or privileges of employment because of race, color, gender, gender identity, sexual orientation, religion, national origin, familial status, age, disability, or United States military veteran status. Offeror further agrees to provide a copy of its antidiscrimination policy to the City's Procurement Officer to demonstrate compliance with TCC section 2-603(5), or attest in writing to its compliance in accordance with the attached Affidavit of Compliance.
 - C. Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted Offer. Failure to sign the "Vendor's Offer" or signing it with a false statement shall void the submitted proposal and any resulting Contract. In addition, the Offeror may be barred from future proposal and bidding participation with the City and may be subject to such further actions as permitted by law.
 - D. The Offeror agrees to promote and offer to the City only those materials and/or services as stated and allowed by this Request for Proposal and resultant Contract award. Violation of this condition shall be grounds for Contract termination by the City.

- E. The Offeror expressly warrants that it has and will continue to comply in all respects with Arizona law concerning employment practices and working conditions, pursuant to A.R.S. § 23-211, *et seq.*, and all laws, regulations, requirements and duties relating thereto. Offeror further warrants that to the extent permitted by law, it will fully indemnify the City for any and all losses arising from or relating to any violation thereof.
- F. Contractor agrees and covenants that it will comply with any and all applicable governmental restrictions, regulations and rules of duly constituted authorities having jurisdiction insofar as the performance of the work and services pursuant to the Contract, and all applicable safety and employment laws, rules and regulations, including but not limited to, the Fair Labor Standards Act, the Walsh-Healey Act, and the Legal Arizona Workers Act (LAWA), and all amendments thereto, along with all attendant laws, rules and regulations. Contractor acknowledges that a breach of this warranty is a material breach of this Contract and Contractor is subject to penalties for violation(s) of this provision, including termination of this Contract. City retains the right to inspect the documents of any and all contractors, subcontractors and sub-subcontractors performing work and/or services relating to the Contract to ensure compliance with this warranty. Any and all costs associated with City inspection are the sole responsibility of Contractor. Contractor hereby agrees to indemnify, defend and hold City harmless for, from and against all losses and liabilities arising from any and all violations thereof.
5. **Commencement of Work:** Contractor is cautioned not to commence any work or provide any materials or services under the Contract until and unless Contractor receives a purchase order, Notice to Proceed, or is otherwise directed in writing to do so, by the City.
6. **Confidentiality of Records:** The Contractor shall establish and maintain procedures and controls that are acceptable to the City for the purpose of assuring that no information contained in its records or obtained from the City or from others in carrying out its functions under the Contract shall be used by or disclosed by it, its agents, officers, or employees, except as required to efficiently perform duties under the Contract. Persons requesting such information should be referred to the City. Contractor also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of Contractor as needed for the performance of duties under the Contract, unless otherwise agreed to in writing by the City.
7. **Conflict of Interest:** This Contract is subject to the cancellation provisions of A.R.S. § 38-511.
8. **Contract Formation:** This Contract shall consist of this Request for Proposal and the vendor's proposal Offer submitted, as may be found responsive and approved by the City. In the event of a conflict in language between the documents, the provisions of the City's Request for Proposal shall govern. The City's Request for Proposal shall govern in all other matters not otherwise specified by the Contract between the parties. All previous contracts between the Offeror and the City are not applicable to this Contract or other resultant contracts. Any contracted vendor documents that conflict with the language and requirements of the City's solicitation are not acceptable and void the Contract.
9. **Contract Modifications:** This Request for Proposal and resultant Contract may only be modified by a written contract modification issued by the City Procurement Office and counter-signed by the Contractor. Contractors are not authorized to modify any portion of this solicitation or resulting Contract without the written approval of the City Procurement Office and issuance of an official modification notice.
10. **Contracts Administration:** Contractor must notify the designated Procurement Officer from the City's Procurement Office for guidance or direction of matters of Contract interpretation or problems regarding the terms, conditions or scope of this Contract. The Contract shall contain the entire agreement between the City and the Contractor and the Contract shall prevail over any and all previous agreements, contracts, proposals, negotiations, purchase orders or master agreements in any form.

11. **Cooperative Use of Contract:** Any Contract resulting from this solicitation shall be for the use of the City of Tempe. In addition, public and nonprofit agencies that have entered into a Cooperative Purchasing Agreement with the City of Tempe's Department of Procurement are eligible to participate in any subsequent Contract. Additionally, this Contract is eligible for use by the Strategic Alliance for Volume Expenditures (SAVE) cooperative. See <http://www.maricopa.gov/Materials/SAVE/save-members.pdf> for a listing of participating agencies. The parties agree that these lists are subject to change. Any such usage by other municipalities and government agencies must be in accord with the ordinance, charter and/or rules and regulations of the respective political entity.

Any orders placed to, or services required from, the successful Contractor(s) will be requested by each participating agency. Payment for purchases made under this agreement will be the sole responsibility of each participating agency. The City shall not be responsible for any disputes arising out of transactions made by others. Contractor shall be responsible for correctly administering this Contract in accordance with all terms, conditions, requirements, and approved pricing to any eligible procurement unit.

12. **Dispute Resolution:** This Contract is subject to arbitration to the extent required by law. If arbitration is not required by law, the City and the Contractor agree to negotiate with each other in good faith to resolve any disputes arising out of the Contract. In the event of any legal action or proceeding arising out of this Contract, the prevailing party shall be entitled to recover its reasonable attorneys' fees and costs incurred with said fees and costs to be included in any judgment rendered.

13. **Energy Efficient Products:** The City may consider energy conservation factors including costs in the evaluation of equipment and product purchases for the purpose of obtaining energy efficient products. In addition, vendor proposal Offers may specify items that have been given an energy efficient classification by the federal government for consideration by the City.

14. **Billing:** All invoices submitted by Contractor for the City's review and approval shall be in itemized form to identify the specific item(s) being billed. Items must be identified by the name, model number, and/or serial number most applicable. Any purchase/delivery order issued by the City shall refer to the Contract number resulting from this Request for Proposal. Separate invoices are required on individual contracts or purchase orders. Only invoices with items resulting from this Request for Proposal will be accepted for review and approval by the City.

15. **Estimated Quantities:** This Request for Proposal references quantities as a general indication of the City's needs. The City anticipates considerable activity resulting from Contracts that will be awarded as a result of this Request for Proposal; however, the quantities shown are estimates only and the City reserves the right to increase or decrease any quantities actually acquired, in its sole discretion. No commitment of any kind is made concerning quantities and Offeror hereby acknowledges and accepts same.

16. **Events of Default and Termination:**

A. The occurrence of any or more of the following events shall constitute a material breach of and default under the Contract. The City reserves the right to terminate the whole or any part of the Contract due to Contractor's failure to fully comply with any term or condition herein.

- i) Any failure by Contractor to pay funds or furnish materials, services and/or goods that fail to conform to any requirement of this Contract or provide personnel that do not meet Contract requirements;
- ii) Any failure by Contractor to observe, perform or undertake any provision, covenant or condition of this Contract to be observed or performed by Contractor herein, including but not limited to failing to submit any report required herein;

- iii) Any failure to make progress in the performance required pursuant to the Contract and/or gives the City reason to believe that Contractor cannot or will not perform to the requirements of the Contract; or,
- iv) Any failure of Contractor to commence construction, work or services within the time specified herein, and to diligently undertake Contractor's work to completion.

B. Upon and during the continuance of an event of default, the City, at its option and in addition to any other remedies available by law or in equity, without further notice or demand of any kind to Contractor, may do the following:

- i) Terminate the Contract;
- ii) Pursue and/or reserve any and all rights for claims to damages for breach or default of the Contract; and/or,
- iii) Recover any and all monies due from Contractor, including but not limited to, the detriment proximately caused by Contractor's failure to perform its obligations under the Contract, or which in the ordinary course would likely result there from, including, any and all costs and expenses incurred by the City in: (a) maintaining, repairing, altering and/or preserving the premises (if any) of the Project; (b) costs incurred in selecting and retaining substitute Contractor for the purchase of services, materials and/or work from another source; and/or (c) attorneys' fees and costs in pursuing any remedies under the Contract and/or arising there from.

C. The exercise of any one of the City's remedies as set forth herein shall not preclude subsequent or concurrent exercise of further or additional remedies. In addition, the City shall be entitled to terminate this Contract at any time, in its discretion. The City may terminate this Contract for default, non-performance, breach or convenience, or pursuant to A.R.S. § 38-511, or abandon any portion of the project for which services have not been fully and/or properly performed by the Contractor.

D. Termination shall be commenced by delivery of written notice to Contractor by the City personally or by certified mail, return receipt requested. Upon notice of termination, Contractor shall immediately stop all work, services and/or shipment of goods hereunder and cause its suppliers and/or subcontractors to cease work pursuant to the Contract. Contractor shall not be paid for work or services performed or costs incurred after receipt of notice of termination, nor for any costs incurred that Contractor could reasonably have avoided.

E. The City, in its sole discretion, may terminate or reduce the scope of this Contract if available funding is reduced for any reason.

17. **Termination for Convenience:** The City at its sole discretion may terminate this Contract for convenience with thirty (30) days advance notice to Contractor. Contractor shall be reimbursed for all appropriate costs as provided for within the Contract up to the termination date specified.

18. **Force Majeure:**

- A. Except for payment of sums due, neither party shall be liable to the other nor deemed in default under the Contract only in the event that and to the extent that such party's performance of the Contract is prevented by reason of force majeure. Force majeure means an occurrence that is beyond the control of the party affected and occurs without its fault or negligence. Without limiting the foregoing, force majeure includes acts of God, acts of the public enemy, war, riots, mobilization, labor disputes, civil disorders, fire, floods, lockouts, injunctions, failures or refusal to act by government authority, and other similar occurrences beyond the control of the party declaring force majeure which such party is unable to prevent by exercising reasonable diligence.
- B. Force majeure shall not include the following occurrences:
- i) Late delivery of equipment or materials caused by congestion at a manufacturer's plant or elsewhere, an oversold condition of the market, inefficiencies, or similar occurrences.
 - ii) Late performance by a subcontractor.
- C. If either party is delayed at any time in the progress of the work by force majeure, then the delayed party shall notify the other party in writing of such delay within forty-eight (48) hours of the commencement thereof and shall specify the causes of such delay in the notice. Such notice shall be hand delivered or sent via certified mail and shall make a specific reference to this clause, thereby invoking its provisions. The delayed party shall cause such delay to cease as soon as practicable and shall notify the other party in writing by hand delivery or certified mail when it has done so. The time of completion shall be extended by Contract modification for a period of time equal to the time that the results or effects of such delay prevent the delayed party from performing in accordance with the Contract.

19. **Gratuities:** The City may elect to terminate any resultant Contract, if it is found that gratuities in any form were offered or given by the Contractor or agent thereof, to any employee of the City or member of a City evaluation committee with a view toward securing an order, securing favorable treatment with respect to awarding, amending or making of any determinations with respect to performing such order. In event the Contract is terminated by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from Contractor the amount of gratuity.

20. **Indemnification:** To the fullest extent permitted by law, the Contractor shall defend, indemnify and hold harmless the City, its agents, officer, officials, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees, court costs, and the costs of appellate proceedings), arising out of, or alleged to have resulted from the acts, errors, mistakes, omissions, work, services, or professional services of the Contractor, its agents, employees, or any other person (not the City) for whose acts, errors, mistakes, omissions, work, services, or professional services the Contractor may be legally liable in the performance of this Contract. Contractor's duty to hold harmless and indemnify the City, its agents, officers, officials and employees shall arise in connection with any claim for damage, loss or expenses that is attributable to bodily injury, sickness disease, death, or injury to, impairment, or destruction of any person or property, including loss of use resulting from, caused by any acts, errors, mistakes, omissions, work, services, or professional services in the performance of this Contract by Contractor or any employee of the Contractor or any other person (not the City) for whose acts, errors, mistakes, omissions, work, or services the Contractor may be legally liable. The amount and type of insurance coverage requirement set forth herein will in no way be construed as limiting the scope of indemnity in this paragraph. This provision shall survive the term of this Contract.

21. **Interpretation of Parole Evidence:** This Contract is intended as a final expression of the agreement between the parties and as a complete and exclusive statement of the Contract, unless the signing of a subsequent Contract is specifically called for in this Request for Proposal. No course of prior dealings between the parties and no usage of the trade shall be relevant to supplement or explain any term used in the Contract. Acceptance or acquiescence in a course of performance rendered under this Contract shall not be relevant to determine the meaning of the Contract, even though the accepting or acquiescing party has knowledge of the nature of the performance and opportunity to object.

Contractor shall respond within five (5) calendar days after notice by the City of any defects and/or maintenance requests to immediately remedy the condition of the job site. Should the Contractor fail to respond promptly as set forth herein, the City shall correct the job site at the expense of the Contractor, and recover all attendant costs.

22. **Key Personnel:** Contractor shall provide adequate experienced personnel, capable of and devoted to the successful accomplishment of work to be performed under this Contract during the Contract term and any renewal periods. The Contractor must agree to assign specific individuals to the key positions.

A. The Contractor agrees that, once assigned to work under this Contract, key personnel shall not be removed or replaced without prior written notice to the City.

B. If key personnel are not available for work under this Contract for a continuous period exceeding thirty (30) calendar days, or are expected to devote substantially less effort to the work than initially anticipated, the Contractor shall immediately notify the City, and shall replace each person with personnel of substantially equal ability and qualifications upon prior City approval.

23. **Licenses and Permits:** Contractor shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Contractor, at its sole expense.

24. **No Assignment:** No right or interest in this Contract shall be assigned by Contractor and no delegation of any duty of Contractor shall be made without prior written permission of the City.

25. **Notices:** All notices, requests, demands, consents, approvals, and other communications which may or are required to be served or given hereunder (for the purposes of this provision collectively called "Notices"), shall be in writing and shall be hand delivered or sent by registered or certified United States mail, return receipt requested, postage prepaid, addressed to the party or parties to receive such notice as follows:

City of Tempe Procurement Office
Attn: Procurement Officer
20 E. 6th Street (Second Floor)
PO Box 5002
Tempe, Arizona 85280

[Contractor's Name]
[Attn of Offeror Named in Contract]
[Address]

Or to such other address as either party may from time to time furnish in writing to the other by notice hereunder.

26. **No Waiver:** No breach of default hereunder shall be deemed to have been waived by the City, except by written instrument to that effect signed by an authorized agent of the City. No waiver of any such breach or default shall operate as a waiver of any other succeeding or preceding breach or default or as a waiver of that breach or default after demand by the City for strict performance of this Contract. Acceptance of partial or delinquent payments or performance shall not constitute the waiver of any right of the City. Acceptance by the City for any materials shall not bind the City to accept remaining materials, future shipments or deprive the City of the right to return materials already accepted. Acceptance by the City of delinquent or late delivery shall not constitute a waiver of a later claim for damages and/or bind the City for future or subsequent deliveries.
27. **Overcharges by Antitrust Violations:** The City maintains that, in actual practice, overcharges resulting from antitrust violations are borne by the City. Therefore, to the extent permitted by law, the Contractor hereby assigns to the City any and all claims for such overcharges as the goods and/or services used fulfill the Contract.
28. **Performance Standards:** Equipment shall operate in accordance with the performance criteria specified in the Request for Proposal, including the manufacturer's published specifications applicable to the machine involved. Each machine is expected to be available for productive use, as provided in the procurement documents. Penalties and/or bonuses applicable to machine and system performance, if any, shall be calculated as specified in the Request for Proposal.
29. **Preparation of Specifications by Persons Other Than City Personnel:** No person preparing specifications for this Request for Proposal shall receive any direct or indirect benefit from the use of these specifications.
30. **Procurement of Recycled Materials:** If the price of recycled material that conforms to specifications is within five percent (5%) of the lower priced material that is not recycled and the recycled Offeror is otherwise the lowest responsive and responsible Offeror, the proposal containing recycled material shall be considered more advantageous; provided the item(s) to be obtained contains at least the minimum amount of recycled content material as defined in the City's solicitation and sufficient funds have been budgeted for the purchase.
31. **Provisions By Law:** Each and every provision of law and any clause required by law to be in this Contract will be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party the Contract will forthwith be physically amended to make such insertion or correction.
32. **Public Record:** After award of Contract, proposal responses shall be considered public record and open for public inspection except to the extent the withholding of information is permitted or required by law. If an Offeror believes a specific section of its proposal response is confidential, the Offeror shall mark the page(s) confidential and isolate the pages marked confidential in a specific and clearly labeled section of its proposal response. The Offeror shall include a written statement as to the basis for considering the marked pages confidential and the City Procurement Office will review the material and make a determination, pursuant to A.R.S. §§ 39-121, *et seq.*, and 41-1330, *et seq.* A general statement of confidentiality (boiler plate statement) that is not appropriately referenced to a specific section of the RFP will not be sufficient to warrant protection by the City. The confidential portion of the submission must be clearly noted with accompanying justification for treating the section confidential. Failure of the vendor to appropriately designate confidential information in this manner will relieve the City of any obligation to protect this information as confidential.
33. **Records:** Pursuant to provisions of Title 35, Chapter 1, Article 6 Arizona Revised Statutes §§ 35-214 and 36-215, Contractor shall retain, and shall contractually require each subcontractor to retain, all books, accounts, reports, files and other records relating to the acquisition and performance of the Contract for a period of five (5) years after the completion of the Contract. All such documents shall be subject to inspection and audit at reasonable times. Upon request, a legible copy of any or all such documents shall be produced at the offices of the City Attorney or City Procurement Office.

34. **Relationship of Parties:** It is clearly understood that each party to this Contract will act in its individual capacity and not as an agent, employee, partner, joint venture, or associate of the other party. The Contractor is an independent contractor and shall be solely responsible for any unemployment or disability insurance payments, or any social security, income tax or other withholdings, deductions or payments that may be required by federal, state or local law with respect to any compensation paid to the Offeror. An employee or agent of one party shall not be an employee or agent of the other party for any purpose whatsoever.
35. **Rights and Remedies:** No provisions of this Request for Proposal or in the proposal shall be construed, expressly or by implication, as a waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of Contract. The failure of the City to insist upon strict performance of any term or condition of the Contract or to exercise or delay the exercise of any right or remedy provided in the Contract, or by law, shall not release the Contractor from any responsibilities or obligations imposed by the Contract or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of the Contract.
36. **Safety Standards:** All items supplied on this Contract must comply with the current applicable Occupational Safety and Health Standards of the State of Arizona Industrial Commission, the National Electric Code and the National Fire Protection Association Standards.
37. **Serial Numbers:** Proposals shall include equipment on which the original manufacturer's serial number has not been altered in any way. The City reserves the right to reject any and all equipment.
38. **Severability:** The provisions of this Contract are severable to the extent that any provision or application held to be invalid shall not affect any other provision or application of the Contract which may remain in effect without the invalid provision or application.
39. **Specially Designated Nationals and Blocked Persons List:** Contractor represents and warrants to the City that neither Contractor nor any affiliate or representative of Contractor:
- A. Is listed on the Specially Designated Nationals and Blocked Persons List maintained by the Office of Foreign Asset Control, Department of the Treasury (OFAC) pursuant to Executive Order no. 13224, 66 Fed. Reg. 49079 (“Order”);
 - B. Is listed on any other list of terrorists or terrorist organizations maintained pursuant to the Order, the rules and regulations of OFAC or any other applicable requirements contained in any enabling legislation or other related Order(s);
 - C. Is engaged in activities prohibited in the Order; or,
 - D. Has been convicted, pleaded *nolo contendere*, indicted, arraigned or custodially detained on charges involving money laundering or predicate crimes to money laundering.
40. **Time of the Essence:** Time is and shall be of the essence in this Contract. If the delivery date(s) specified herein cannot be met, Contractor shall notify the City using an acknowledgment of receipt of order and intent to perform without delay, for instruction. The City reserves the right to terminate this Contract and to hold Contractor liable for any cost of cover, excess cost(s) or damage(s) incurred as a result of delay.

41. **Unauthorized Firearms & Explosives:** No person conducting business on City property is to carry a firearm or explosive of any type. All Offerors, Contractors and subcontractors shall honor this requirement at all times and failure to honor this requirement shall result in Contract termination and additional penalties. This requirement also applies to any and all persons, including those who maintain a concealed weapon's permit. In addition to Contract termination, anyone carrying a firearm or explosive device will be subject to further legal action.
42. **Warranties:** Contractor expressly warrants that all materials and/or goods delivered under the Contract shall conform to the specifications of this Contract, and be merchantable and free from defects in material and workmanship, and of the quality, size and dimensions specified herein. This express warranty shall not be waived by way of acceptance or payment by the City, or otherwise. Contractor expressly warrants the following:
- A. All workmanship shall be finest and first-class;
 - B. All materials and goods utilized shall be new and of the highest suitable grade for its purpose; and,
 - C. All services will be performed in a good and workmanlike manner. Contractor's warranties shall survive inspection, acceptance and/or payment by the City, and shall run to the City, its successors, agents and assigns.

The Contractor agrees to make good by replacement and/or repair, at its sole expense and at no cost to the City, any defects in materials or workmanship which may appear during the period ending on a date twelve (12) months after acceptance by the City, unless otherwise specified herein. Should Contractor fail to perform said replacement and/or repair to City's satisfaction within a reasonable period of time, City may correct or replace said defective or nonconforming materials and recover the costs thereof from Contractor. This warranty shall not operate to reduce the statute of limitations period for breach of contract actions or otherwise, or reduce or eliminate any legal or equitable remedies.

43. **Work for Hire and Ownership of Deliverables:** Contractor hereby agrees and covenants that all the results and proceeds of Contractor's work and/or services for the Project specified herein, for Contractor and all of its agents, employees, officers and subcontractors, shall be owned by the City, including the copyright thereto, as work for hire. In the event, for any reason such results and proceeds are not deemed work for hire, Contractor agrees and covenants that it shall be deemed to have assigned to the City all of its right, title and interests in such results, proceeds and content to the City, without limitation. Contractor agrees to indemnify and hold the City harmless from and against all claims, liability, losses, damages and expenses, including without limitation, legal fees and costs, arising from or due to any actual or claimed trademark, patent or copyright infringement and any litigation based thereon, with respect to any work, services and/or materials contemplated in this Contract. Contractor agrees to pay to defend any and all such actions brought against the City. Contractor's obligations hereunder shall survive acceptance by the City of all covenants herein as well as the term of the Contract itself.
44. **Non-exclusive Contract:** Any Contract resulting from this Request for Proposal shall be awarded with the understanding and agreement that it is non-exclusive and entered into for the sole convenience of the City. The City reserves the right to obtain like goods or services from another source to secure cost savings or if timely delivery may be met by the Contractor
45. **Ordering Process:** Upon award of a Contract by the City Procurement Office, the City may procure the specific material and/or service awarded by the issuance of a purchase order to the appropriate Contractor. Each purchase order must cite the correct Contract number. Such purchase order is required for the City to order and the Contractor to deliver the material and/or service.

46. **Shipping Terms:** Prices shall be F.O.B. Destination to the delivery location(s) designated herein. Contractor shall retain title and control of all goods until they are delivered and the Contract of coverage has been completed. All risk of transportation and all related charges shall be the responsibility of the Contractor. The City will notify the Contractor promptly of any damaged materials and shall assist the Contractor in arranging for inspection. Shipments under reservation are prohibited. No tender of a bill of lading shall operate as a tender of the materials.
47. **Delegated Awards:** In the event this Contract is administratively awarded via delegated authority as provided for in Section 26A-5 of the Procurement Ordinance, the Contractor acknowledges that a final Contract with the City of Tempe requires City Council approval and possibly the signature of the Mayor. Should this Contract be rejected by the City Council, Contractor agrees that it is immediately void and unenforceable against any party. The awarded firm(s) will be compensated only for any and all costs incurred up to the date of notification of such termination.

Special Terms and Conditions

Proposals taking exception to Special Terms & Conditions stated within this Request for Proposal may cause the Proposal to be considered nonresponsive and rejected.

1. **City Procurement Document:** This Request for Proposal is issued by the City. No alteration of any portion of this Request for Proposal by an Offeror is permitted and any attempt to do so shall result in vendor's proposal Offer being considered nonresponsive, and rejected. No alteration of any portion of a resultant Contract is permitted without the written approval of the City Procurement Office and any attempt to do so shall be considered a breach of the Contract. Any such action is subject to the legal and contractual remedies available to the City inclusive of, but not limited to, Contract termination and/or suspension of the Contractor.
2. **Offer Acceptance Period:** To allow for an adequate evaluation, the City requires the vendor's proposal Offer in response to this Request for Proposal to be valid and irrevocable for 120 days after the proposal due time and date.
3. **Contract Type:** Term with justifiable price adjustments allowed, indefinite quantity.
4. **Term of Contract:** The term of the Contract shall commence on the date of award and shall continue for a period of one (1) year thereafter, unless terminated, canceled or extended as otherwise provided herein.
5. **Contract Renewal:** The City reserves the right to unilaterally extend the period of any resultant Contract for ninety (90) days beyond the stated term. In addition, the City at its option may renew for supplemental terms of up to a maximum of four (4) additional years. The period for any single renewal increment shall be determined by the City Procurement Office. Such increment shall not be for more than a period of one (1) year each, unless the City is eligible to obtain a significant cost and/or supply advantage by a longer Contract renewal period.
6. **Price Adjustment:**
 - A. The Procurement Office will review fully documented requests for price increases after the Contract has been in effect for six (6) months. The requested price increase must be based upon a cost increase that was clearly unpredictable at the time of the Proposal and can be shown to directly affect the price of the item concerned. The City Procurement Office will determine whether the requested price increase, or an alternative option, is in the best interest of the City. Advanced thirty (30) day written notification by Contractor is required for any price changes. All price adjustments will be effective on the first day of the month following approval or acceptance by the City Procurement Office. After the City approves a price increase the Contractor shall not be eligible to receive an additional increase until six (6) months from the date of the last approved price increase.
 - B. Price increase requests must be acknowledged in writing by the City Procurement Office before becoming effective. If not acknowledged within thirty (30) days, Contractor shall contact the City Procurement Office to assure the price increase request was received.
 - C. The Contractor shall offer any published price reduction or if applicable to Contract, profit sharing price advantage to the City concurrent with its announcement to other customers. A price reduction or profit sharing price advantage may be offered at any time during the terms of an awarded Contract and shall become effective upon notice and acceptance. The City shall likewise take advantage of any special sales discounts offered to the general public, which exceed contracted price discounts extended to the City by the Contractor.
7. **Multiple Awards:** The City has a large number and variety of potential customer departments. In order to assure that any ensuing Contracts will allow the City to fulfill current and future requirements, the City reserves the right to award Contracts to multiple companies. The actual utilization of any Contract will be at the sole discretion of the City. The fact that the City may make multiple awards should be taken into consideration by each Offeror.

8. **Insurance:**

- A. **Insurance Required:** Prior to commencing services under this Contract, Contractor shall procure and maintain for the duration of the Contract insurance against claims for injuries (including death) to persons and damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees, subcontractors, or sub-subcontractors. For Offerors with self-insurance, proof of self-insurance with minimum limits expressed below must be submitted on proper forms for evaluation prior to award of Contract.

A Contract Award Notice or Purchase Order will not be issued to a Vendor until receipt of all required insurance documents by the City Procurement Office with such documents meeting all requirements herein. In addition, before any Contract renewal, all required insurance must be in force and on file with the City Procurement Office. Contractor must submit required insurance within ten (10) calendar days after request by the City Procurement Office or the award may be rescinded and another Vendor selected for award.

- B. **Minimum Limits of Coverage:** Without limiting any obligations or liabilities, the Contractor, at its sole expense, shall purchase and maintain the minimum insurance specified below with companies duly licensed or otherwise approved by the State of Arizona, Department of Insurance and with forms satisfactory to the City. Each insurer shall have a current A.M. Best Company, Inc., rating of not less than A-VII. Use of alternative insurers requires prior approval from the City.

- i. **Minimum Limits of Insurance.** Contractor shall maintain limits no less than:

a. **Commercial General Liability**

Commercial general liability insurance limit of not less than \$1,000,000 for each occurrence, with a \$2,000,000 general aggregate limit. The general aggregate limit shall apply separately to the services under this Contract or the general aggregate shall be twice the required per occurrence limit. The policy shall be primary and include coverage for bodily injury, property damage, personal injury, products, completed operations, and blanket contractual coverage, including but not limited to the liability assumed under the indemnification provisions of this Contract which coverage will be at least as broad as insurance service officer policy form CG2010 11/85 edition or any replacement thereof.

In the event the general liability policy is written on a "claims made" basis, coverage shall extend for two (2) years past completion and acceptance of the services as evidenced by annual certificates of insurance.

Such policy shall contain a "severability of interests" provision.

b. **Worker's Compensation**

The Contractor shall carry worker's compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction of Contractor employees engaged in the performance of services; and employer's liability insurance of not less than \$100,000 for each accident, \$100,000 disease for each employee and \$500,000 disease policy limit.

In case services are subcontracted, the Contractor will require the subcontractor to provide worker's compensation and employer's liability to at least the same extent as provided by Contractor.

c. **Automobile Liability**

Commercial business automobile liability insurance with a combined single life or bodily injury and property damages of not less than \$1,000,000 per accident regarding any owned, hired, and non-owned vehicles assigned to or used in performance of the Contractor services. Coverage will be at least as broad as coverage Code 1 "any auto". Insurance Service Office policy form CA0001 Y87 or any replacements thereof. Such coverage shall include coverage for loading and unloading hazards.

- C. Additional Insured. The insurance coverage, except for workers compensation and professional liability coverage, required by this Contract, shall name the City, its agents, representatives, directors, officials, employees, and officers, as additional insureds, and shall specify that insurance afforded the Contractor shall be primary insurance. This provision and the naming of the city as an additional insured shall in no way be construed as giving rise to responsibility or liability of the City for applicable deductible amounts under such policy(s).
- D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or service required to be performed under the terms of the Contract is satisfactorily completed and formally accepted by the City. Failure to do so shall constitute a material breach of this Contract.
- E. Primary Coverage. Contractor's insurance shall be primary insurance to the City, and any insurance or self insurance maintained by the City shall not contribute to it.
- F. Claim Reporting. Any failure to comply with the claim reporting provisions of the policies or any breach of a policy warranty shall not affect coverage afforded under the policy to protect the City.
- G. Waiver. The policies, including workers' compensation, shall contain a waiver of transfer rights of recovery (subrogation) against the City, its agents, representatives, directors, officers, and employees for any claims arising out of the work or services of the Contractor.
- H. Deductible/Retention. The policies may provide coverage which contain deductibles or self-insured retentions. Such deductible and/or self insured retentions shall be disclosed by the contractor and shall not be applicable with respect to the coverage provided to the City under such policies. Contractor shall be solely responsible for deductible and/or self-insurance retention and the City, at its option, may require Contractor to secure the payment of such deductible or self-insured retentions by a surety bond or an irrevocable and unconditional letter of credit.
- I. Certificates of Insurance. Prior to commencing work or services under this Contract, Contractor shall furnish the City with certificates of insurance, or formal endorsements as required by the Contract, issued by the Contractor's insurer(s), as evidence that policies providing the required coverages, conditions, and limits required by this Contract are in full force and effect. Such certificates shall identify this Contract number or name and shall provide for not less than thirty (30) days advance notice of cancellation, termination, or material alteration. Such certificates shall be sent directly to: Contract Administrator, City of Tempe, P. O. Box 5002, Tempe, AZ 85280.
- J. Copies of Policies. The City reserves the right to request and to receive, within ten (10) working days, certified copies of any or all of the above policies and/or endorsements. The City shall not be obligated, however, to review same or to advise Contractor of any deficiencies in such policies and endorsements, and such receipt shall not relieve Contractor from, or be deemed a waiver of, the City's right to insist on strict fulfillment of Contractor's obligations under this Contract.

9. **Payments - After Acceptance of Delivery:** Payment in full shall be made to the Contractor within thirty (30) days after receipt and acceptance of delivery by the City, unless terms other than net thirty (30) days are offered as a discount, at the City's sole discretion.

Package Label

Please cut out and attach the following label to the outside of your submission.

RFP 15-097

Refuse Vehicles

Due Date: Wednesday, April 29, 2015

Submitting Firm: _____

Address: _____

When dropping off at the Procurement office, dial **8329** for assistance.

Proposal response must be in the possession of the City of Tempe Procurement Office by the stated due date and time.

US Mail parcels sent to the City of Tempe PO Box may not be delivered to the Procurement Office for 24 hours or more after receipt by the City because of internal mail processing procedures. Please keep this potential time delay in mind when **US Mail Service** is utilized.

Delivery addresses are shown below for your convenience.

If sending via US Mail:

Tony Allen
City of Tempe
Financial Services/Procurement Office
P O Box 5002
Tempe, AZ 85280

If sending via courier, FedEx, UPS or hand delivery:

Tony Allen
City of Tempe
Financial Services/Procurement Office
20 E Sixth St (2nd Floor)
Tempe, AZ 85281

Format of Documents

This document has been issued in Word format to allow the responding firm the ability to provide requested information, answer questions, and provide pricing within the actual document. **The answers boxes in the tables are auto expanding and will allow you to insert as much information as you feel is required.**

It is required that your Flash drive copies of your response be returned in Word format.

The signature page can be submitted as a pdf document.

Any supplemental documentation that you feel is necessary for your response should be in pdf format, however, the scan should be optimized to low resolution.

For both the hard copy and flash drive copies it is only necessary to include the items marked:

“Return this Section with your Response”

However, each respondent may submit any information it feels necessary to complete their submission.

Scope of Work

The City of Tempe is issuing this Request for Proposal to establish a one-year contract with four one-year renewal options for the purchase of refuse vehicles – front load, side load and rear load – for use by the Solid Waste Division.

The City of Tempe contract for refuse vehicles has historically been utilized by agencies throughout the state, however, no volume by other entities will be guaranteed. It is in the best interest of vendor to provide option lists beyond those requested in this RFP to be incorporated as part of the awarded contract to be utilized by cooperating agencies. Provide complete information and pricing for all optional items submitted – the optional pricing information shall include all cost for the item, eg, if a different size body is shown as an option the price quoted shall include all cost changes related to the change – cost of wheelbase change, cost change for rear frame overhang, etc.

The City reserves the right to make multiple awards and/or to award contracts by line items or aggregate award. Submitters are not required to bid all items in order to be considered for award.

Anticipated Purchases

The chart below indicates the number of vehicles currently anticipated to be purchased by the City of Tempe over the potential life of the contract.

Fiscal Year	Front Load	Side Load	Rear Load
2015/2016	3	6	
2016/2017	2	3	1
2017/2018	2	3	1
2018/2019	1	3	
2019/2020	2	3	
Total	10	18	2

Specifications – Cab and Chassis

Return this Section with your Response

Desired minimum specification for vehicle chassis. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

A	Cab	Vendor Response			
		Yes	No	Exception	
	1	2 door COE Design - Required			
		a Specify Manufacturer			
		b Specify Model			
		c Specify Warranty			
	2	Instruments – Fuel, voltmeter, oil pressure, air pressure, water temperature, transmission temperature, tachometer, & speedometer.			
		a Each gauge shall be independently wired and grounded. Units with “Smart Gauge” systems will not be accepted unless software, hardware and training is provided to allow the City the ability to reprogram and reset gauges.			
	3	Driver’s seat with air lumbar support, National Seating model Standard Plus or Captain series or equal high-back, low profile air ride– cloth covered.			
		a Drives seat shall be mounted in a way to provide the maximum amount of rearward adjustment that the cab will allow providing maximum legroom for driver.			
	4	Matching air ride Passenger seat supplied with air control on right side of seat - cloth covered.			
	5	Dual windshield wipers and washers			
	6	Dual sun visors			
	7	AM/FM/CD radio			
	8	Tinted safety glass			
	9	All windows, excluding windshield, to be covered with the darkest available high performance metalized film (complaint with local legal requirements).			
		a Windshield shall have a full width strip, 4” to 5” wide, of tint along the top edge across the entire windshield			
	10	Door windows shall be power assisted with controls easily accessible to the driver.			
		a Motors shall be mounted inside the door and shall not protrude past door panel			
	11	Dual 6” x 16” collapsible west coast mirrors with 8” convex mirror mounted at base of frame			
	12	Dual air conditioning system. Factory installed dash air system and roof air system designed to operate with A/C coming out dash and roof vents at the same time if needed. To be of sufficient size and rating for use in ambient			

		temperatures of up to 120 degrees Fahrenheit.			
	13	Roof air conditioning will incorporate a Red Dot R-2000 ceiling mount evaporator or equal. All repair components to be available locally. Condenser to be factory installed dual fan, roof mount. Unit and all components, including condenser, installed in a manner that does not interfere with any of the truck or refuse operational controls.			
	14	Factory installed heater and defroster			
	15	LED chassis lighting package incorporating solid mounts with mid body turn signal is required			
	16	All wiring must be neatly loomed and routed			
	17	12 volt cigarette lighter style power accessory receptacle within easy access of driver is to be provided – minimum 15 amp rating			
	18	Double/extended brake pedal			
	19	Color Nutmeg – AXALTA (Dupont) Imron Elite or equal)			
	20	Any wiring or plumbing running up the side or over the roof of body shall be protected from tree limbs, or other obstructions, that might contact the body			
	a	Weather pack connectors shall be used at all connectors that might be subject to inclement weather.			
	b	All areas where wiring passes through sheet metal and panel openings are to be grommited			
	21	Mud flaps installed on front and rear fenders to keep mud and debris from getting on refuse box or any components – no advertising allowed			
	22	Metal shield to be mounted ahead of front tandem tires and extend downward a sufficient length to prevent mud and debris from getting on refuse box or any components.			
	23	Full engine enclosure and cab floor heat and noise insulation to be provided			
	a	Insulation is to cover the complete underside of the “doghouse” and extend out both sides coating the cab floor			
	b	Bayseal 2.7P closed cell roofing foam or approved equal			
	c	Ceramic insulating beads added into topcoat for additional heat reflective properties			
	24	Full cab wall and roof insulation to be provided – minimum R-18			
	a	Area behind driver shall be fully insulated and finished – floor to headliner with the exception of rear window			
B	Chassis		Vendor Response		
			Yes	No	Exception
	1	GVRW – minimum 58,000#			
	2	Wheel-base, cab to axle and overhang shall all meet respective body manufacturer’s requirements. It is the vendor’s responsibility to design the unit and guarantee legal load limits and weight distribution using average weights under normal conditions.			
	3	Frame rails of sufficient strength and rating to withstand continuous refuse truck service. The RBM rating of at least 3,000,000 in the main section, primarily of bolted construction with as few rivets as possible.			
	a	No welding or frame rails or cross members			
	b	No drilling of frame rail flanges			
	4	Front axle - 20,000# minimum with springs and shocks			
	5	Springs and spring hangers for front axle to exceed the rating of the axle.			
	6	Rear axle – Tandem axles with dual wheels and a minimum 40,000# rear axle rating – Meritor MT40-14X .			
	7	Axles to have outboard drums and hub seals.			
	8	6.14 gear ratio to optimize refuse can to can power and speed, and be able to obtain approximately 60 mph road speed.			
	a	State gear ratios and MPH calculations offered			
	9	Rear suspension – Hendrickson Haulmaax HMX-400 or approved equal. Suspension capable of withstanding a minimum GVWR of 40,000 #.			

	a	Specify Brand, Model and rating offered			
10		Rear suspension – Hendrickson HMX-400 or approved equal. Suspension capable of withstanding a GVWR of 60,000#.			
	a	Specify Brand, Model and rating offered			
11		Brakes – dual circuit anti-lock, air			
	a	S cam actuators with automatic slack adjusters required			
	b	18.0 CFM minimum compressor			
	c	Air dryer with replaceable cartridge shall be included – spin on preferred			
	d	Air system to have air coupling or stem valve to allow pressurization of system from an outside source			
	e	Air tanks shall be plumbed to allow manual draining without getting under the vehicle			
	f	State front brake size			
	g	State rear brake size – Tandem Drive Axle			
12		Parking Brake – air activated release, spring loaded			
13		Tires – radial tubeless with standard highway tread (must be new tires – no retreads)			
	a	Size - 315/80R22.5 load range L			
14		Wheels – Aluminum disc, 10 hole hub-piloted			
15		Fuel Tank Capacity – approximately 70 gallon DFE			
	a	State tank capacity			
16		A means for towing vehicle with wrecker must be provided. Pick up loops or eyes on front of vehicle strong enough to tow the vehicle with the front wheels off the ground. Must have a front bumper.			
17		Hydraulic power steering			
	a	Reservoir shall be mounted that allows checking and filling from ground level			
18		Smallest available steering wheel to be installed			
	a	State outside diameter of wheel to be provided			
C	Engine		Vendor Response		
			Yes	No	Exception
1		EPA compliant electronically controlled, water cooled, 4 cycle CNG engine. Cummins ISL-G (320 HP) minimum or equal.			
	a	State Manufacturer			
	b	State Model			
	c	State Horsepower			
	d	State Torque			
	e	State year of manufacture			
2		It is required that engine, injectors, fuel pump, turbo, and after treatment if equipped, be warranted for 5 years/100,000 miles with no deductible			
3		Oil Filter – full flow, spin-on			
4		Air Cleaner – dry type – dual element. Air intake for the engine must be from a point above roof of cab and properly bonneted to keep out moisture. Intake system to have restriction gauge mounted on the air cleaner housing.			
5		Coolant Filtration System – spin on type with pre charged element			
6		Cooling system must have the largest heavy-duty components available with coolant recovery system. Cooling system filter equipped. Manufacturer must state that cooling system will keep engine at normal operating temperature in very dusty conditions and in temperatures that can reach 120 degree Fahrenheit. The preferred cooling system will have no more than one radiator, frontally mounted.			
	a	Metal surge tank preferred			
	b	If plastic tank used, it must be warrantied for a minimum of five (5) years for workmanship, cracks, leaks or sun damage			
	c	Hoses (radiator, by-pass and heater) – Gates Blue Stripe or equal			

	d	Hose clamps to be worm drive compatible with silicone rubber			
7		Turbo shall have a separate heat shield to deflect heat from cab floor or vehicle interior			
8		Engine alarm and shutdown system for high water temperature and low oil pressure. System must be OEM approved.			
9		Engine supplied with high quality fuel filtering system to remove all impurities, including water, from the fuel with spin on filter.			
10		Alternator – 12 volt Delco HD 33Si series 135 amp minimum .			
	a	State alternator manufacturer, model and amperage			
11		Batteries – 3 ea 12 volt low, or maintenance free, 2250 CCA minimum			
12		Cables professionally formed and routed with the shortest cable possible to reduce voltage drop and amp loss.			
13		Batteries housed in covered container that is resistant to corrosion and yet must be easily accessible for servicing.			
14		Unit must be supplied with a battery cut off switch with lockout. The switch is to be mounted as close to the batteries as possible and wired to interrupt the positive battery feed.			
	a	Fused circuit to maintain power to cab radio for retention of set station memory			
	b	No keyed battery disconnect switches			
15		Exhaust System – Proper heat shielding is required to preclude refuse debris from contacting any heat sources created by the turbo and exhaust system components. Height of system, including diffuser, should not exceed height of body.			
D Transmission			Vendor Response		
			Yes	No	Exception
1		Allison automatic – 4500 RDS, 6 speed – wide ratio			
	a	Push button selector			
	b	Filter – spin-on, located conveniently for service			
	c	Transmission oil to air or oil to coolant water cooler			
2		Equipped with internal retarder			
3		Dipstick provided – must be accessible from the ground without tilting the cab.			
4		Transmission must be supplied from the factory with Allison approved Transynd synthetic fluid.			
5		Allison ETC 5 year extended warranty to be included			
E Manuals			Vendor Response		
			Yes	No	Exception
1		The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.			
2		If online manuals are not yet available, digital versions can be substituted; however, they must be in PDF format. Pdf manuals must be searchable by item/topic.			
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.			
3		Service Manuals – to include comprehensive hydraulic and wiring schematics			
	a	Chassis			
	b	Engine			
	c	Transmission			
	d	ABS			
	e	Body			
4		Parts Manuals			
	a	Chassis			
	b	Engine			

	c	Transmission			
	d	ABS			
	e	Body			
	5	Operators manual – two (2) – to be supplied with each unit			
F	Training		Vendor Response		
			Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel			
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.			
G	Miscellaneous		Vendor Response		
			Yes	No	Exception
	1	Data label shall be affixed to the vehicle that lists all fluid capacities and fluid type			
	2	MCO supplied at time of delivery is required			
	3	A minimum of 4 sets of keys shall be supplied at time of delivery			
	4	If multiple units are ordered, all units shall be keyed alike unless otherwise specified			

Specifications – Rear Loader

Return this Section with your Response

Desired minimum specification for rear load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

A	Rear Load Specific Specifications		Vendor Response		
			Yes	No	Exception
1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process				
	a	State wall to wall turning diameter for unit submitted			
	b	State curb to curb turning diameter for unit submitted			
	c	State wheel cut for submitted unit			
	2	Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.			
	3	Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss			
	4	All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.			
	5	CNG tanks will be mounted outboard on the truck frame with one on each side with a total DGE of approximately 70 gallons.			
		State gallons offered			
	6	One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.			
			Vendor Response		

Rear Loader Specifications				
B	Warranty	Yes	No	Exception
	1	Minimum two (2) year on all parts, materials and labor		
	a	Specify the warranty that you will offer		
	2	All hydraulic cylinders shall be four (4) years on parts and labor including seals		
	a	State the warranty that you will offer		
	3	Minimum seven (7) years on hopper floor and sides on all parts and labor		
	a	Specify the warranty that you will offer		
	4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.		
	a	Specify the warranty that you will offer		
C	Body	Vendor Response		
		Yes	No	Exception
	1	25 yard capacity exclusive of tailgate hopper		
	a	State Manufacturer		
	b	State Model		
	c	State wet weight of cab and chassis		
	d	State wet weight of refuse unit		
	e	State wet weight of entire unit without refuse load		
	f	State Wheelbase of unit		
	g	State Length of completed unit		
	h	State Width of completed unit		
	i	State Height of completed unit		
	j	State achievable payload capacity for unit offered		
	k	State achievable pounds per yard compaction		
	2	Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components		
3	LED lighting package incorporating solid mounts is required .			
4	Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.			
5	Center mounted LED brake light is required			
6	Ecco model 210 electronic back up alarm to be installed			
7	Structural integrity of the body shall allow high density loading – minimum of 1,000 pounds per cubic yard of normal refuse.			
8	Body shall be constructed in such a fashion, and from materials, that will allow repeated packing cycles without distortion of body.			
9	Body side door supplied. Access must meet ANSI Safety requirements. Door must be equipped with a reliable and positive latch.			
a	Door to be equipped with a safety interlock to disable pump functioning when door is open.			
10	State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.			
D	Tailgate	Vendor Response		
		Yes	No	Exception
	1	Tailgate to be top hinged		
	2	Tailgate shall be raised by hydraulic cylinders for load ejection.		
	a	Tailgate cylinders to incorporate a restriction device to prevent rapid decent in the case of hydraulic failure		
	3	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation.		
	4	Tailgate shall incorporate a heavy duty positive type latch.		
	5	Heavy duty tailgate service props provided.		
6	Tailgate and latch shall be constructed in such a way that it will handle a hitch installation to provide for a 12,000 GVWR trailer to be pulled by this vehicle			
		Vendor Response		

Rear Loader Specifications					
E	Hopper	Yes	No	Exception	
	1	Capacity 3.5 cubic yards – minimum			
	a	State hopper capacity			
	2	Hopper opening height 50” – minimum			
	a	State opening height			
	3	Hopper loading width 80” – minimum			
	a	State opening width			
	4	Hopper able to accept a solid object of not less than 30” diameter			
	a	State maximum diameter of object			
	5	The City will be using these vehicles for collection of uncontained refuse which may include tree stumps and other large bulky items. Hopper must be of Heavy Duty construction			
	6	Hopper floor, sides and loading area to be constructs of ¼” 150,000 PSI steel - minimum			
	a	Hopper floor, face and sides shall be overlaid with minimum 3/16” 150,000 PSI steel.			
	b	Liners shall be plug welded in place for convenience during replacement.			
F	Packer	Vendor Response			
		Yes	No	Exception	
	1	Packing mechanism to consist of two primary structures – Carrier Panel and Packing Blade.			
	2	Carrier panel shall be mounted in the tailgate and guided by upper and lower slide shoes			
	a	Shoes shall provide both vertical and lateral load bearing			
	b	Shoes shall be able to rotate 180 degrees for extended service life			
	c	Carrier panel to be constructed from 3/16” 150,000 PSI steel in all areas having contact with refuse.			
	d	Packing blade hinge lugs shall be constructed using 2-1/2” minimum 150,000 PSI steel			
	e	Link arm type carrier panels will not be accepted.			
	f	Primary compaction to be accomplished with two double action hydraulic cylinders mounted inside of the hopper confines.			
	3	Packer blade shall be mounted to and pivot on the carrier panel hinge lugs with heat treated induction hardened steel pins and steel spherical bearings to maintain alignment.			
	a	Blade shall be constructed of 3/16” 150,000 PSI steel.			
	b	A 3/16” 150,000 PSI steel liner shall be plug welded to packer face.			
	c	Packer blade lower edge double supported to resist distortion during packing cycle of large bulk items.			
	d	Pre compaction accomplished by two double action large bore cushioned hydraulic cylinders located inside of hopper.			
	4	Each hopper full of material shall be compressed between the packing blade, carrier panel and ejector panel. The ejector panel will automatically advance forward as the body fills, in reaction to the packing forces and a pre-adjusted ejector unload valve. No operator attention shall be required to adjust the panel forward as the body fills			
	5	The packer mechanism shall be equipped with an automatic crowd pressure sensing device which will enable the packing mechanism to find a path through the load and will neither stall the mechanism or damage the structure.			
	6	Packer cycle control shall be mechanical, lever operated on the right hand side of tailgate.			
	a	Electric over hydraulic controls are permissible. If used, there must be a large, easily visible and accessible emergency “stop” button or device provided.			
	b	Capable of start, stop and reverse at any time throughout the cycle.			
	c	Both packer blade and the carrier panel shall have the ability to “hold” valve in either direction with a detent or other design so that the operator does not have to hold the control to complete the cycle. Control will automatically			

Rear Loader Specifications

		free up and move to neutral position at the end of the hydraulic cycle.			
	d	An auto pack function shall allow for first the sweep and then the packing function in sequential and automatic fashion.			
	7	Packer cycle time of 20 seconds or less preferred			
	a	State guaranteed packer cycle time			
	8	Operator reload time of 10 seconds or less preferred			
	a	State guaranteed packer reload time			
G	Load Discharge	Vendor Response			
		Yes	No	Exception	
	1	Load discharge shall be by means of a positive ejections system.			
	a	Double acting, telescopic, hydraulic cylinder shall extend and retract the ejector panel the full length of the body.			
	2	Ejector panel shall be constructed from minimum 11 gauge hi-tensile strength steel on all surfaces			
	a	Panels construction shall include reinforcement to withstand repeated packing and ejection forces without distortion to the ejector panel			
	3	Ejector panel shall travel the length of the body on a minimum of 4 replaceable wear shoes			
	a	State material for shoes			
	b	Wear shoes must be replaceable without removal of the ejector panel.			
H	Hydraulics	Vendor Response			
		Yes	No	Exception	
	1	It is preferred that the system operate at 2,500 psi or less			
	a	State system operating pressure			
	2	Will your system use a front mount or transmission mount PTO setup			
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.			
	b	State distance the front mount pump will extend forward of bumper or extend the bumper.			
	3	Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit			
	4	Hydraulic reservoir shall be properly baffled			
	a	State capacity of reservoir			
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.			
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off vale, oil level sight gauge and temperature gauge			
	5	It is preferred that the hydraulic system shall be designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions			
	a	If load sensing system is used is it a proven design guaranteed to operate system in the same fashion as a convention pump setup			
	b	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss			
	6	All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output			
	a	Hoses shall conform to SAE standards for designed pressure.			
	b	Bends shall not be more than recommended by SAE standards			
	c	Flat spots in hoses or lines will not be acceptable			
	d	Pressure hoses shall be protected with fabric guard			
	7	All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel			
	8	In line high pressure filter assembly mounted for easy access.			

Rear Loader Specifications

	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator			
	b	Spin on filter preferred			
9		Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage			
	a	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid			
10		If hydraulic tank is a front mount design requiring the operator to access the top of the truck to check fluid levels, a ladder shall be provided in a convenient location to access the tank			
	a	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.			
	b	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight			
	c	Ladder shall be designed in a way that provides a minimum of 5” of operator shoe to protrude through the ladder or have a 4” wide step surface with 1” of shoe protrusion			
11		All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve			
12		Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing			
13		Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.			
	a	Cylinder design shall decrease the speed of the cylinder at least the last ½” of cylinder stroke in both direction of travel			
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.			
	c	Rods of all cylinders shall be chrome plated			
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally			
	e	State brand of cylinders on unit offered			
I	Controls		Vendor Response		
			Yes	No	Exception
	1	Ejector panel and tailgate raise controls are to be mounted outside the body on front left had side			
	a	Throttle advance switch shall be mounted within easy reach of the control			
	b	System shall automatically raise the engine RPM to the proper speed during the packing cycle			
	2	PTO switch to be mounted inside the cab.			
J	Painting		Vendor Response		
			Yes	No	Exception
	1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted			
	2	Finish shall be Nutmeg to match cab color			
	3	City prefers powder coat finish with a minimum 4 mil thickness			
	a	Specify the type of finish will you provide?			
K	Manuals		Vendor Response		
			Yes	No	Exception
	1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.			
	2	If online manuals are not yet available, digital versions can be substituted, however, they must be in PDF format. Pdf manuals must be searchable by item/topic.			
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.			

Rear Loader Specifications

	3	Service Manuals – to include comprehensive hydraulic and wiring schematics			
	a	Body			
	b	Hydraulics			
	4	Parts Manuals			
	a	Body			
	b	Hydraulics			
	5	Operators manual – two (2) – to be supplied with each unit			
			Vendor Response		
L	Training		Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel			
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.			

Specifications – Side Loader

Return this Section with your Response

Desired minimum specification for side load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

A	Side Load Specific Specifications		Vendor Response		
			Yes	No	Exception
	1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process			
	a	State wall to wall turning diameter for unit submitted			
	b	State curb to curb turning diameter for unit submitted			
	c	State wheel cut for submitted unit			
	2	Chassis is to be right hand drive . All controls within easy reach of driver while seated.			
	a	Dual steering is not acceptable			
	b	Operating controls for right hand drive shall include, but not limited to, ignition switch, horn (electric), brake release, accelerator pedal, dual extended brake pedal, light switch, turn signal/hazard switch, windshield wiper switch, heating and AC controls, transmission gear selector.			
	c	Right hand driving position be equipped with air horn			
	3	Instruments for right hand drivers position – Fuel, voltmeter, oil pressure, air pressure, water temperature, transmission temperature, tachometer, & speedometer			
	4	Unit shall be supplied with a rear view monitor system. Safety Vision SV-CLCD-65, or approved equal, with 7” flat screen monitor in cab, camera mounted on the tailgate, illumination provided by two flood lights facing rearward – wired to illuminate when transmission is put in reverse.			
	a	Picture of rear camera image shall include a “grid” to show the approximate distances to objects in close proximity to vehicle			
	b	State Manufacturer and Model Offered			

	c	A second camera shall be provided and wired into the same monitor that captures cans being dumped into the hopper as well as the hopper.			
	d	Camera shall be armored in a way that prevents damage to the camera from refuse, tree limbs, or other obstructions.			
	e	Display to be able to display split image from both cameras			
5		Work light shall be provided to illuminate the hopper area			
	a	Hopper light shall be guarded or otherwise protected to avoid damage during operation and aimed to avoid glare in the rear window of cab.			
6		Lift arm light shall be provided – Truck Lite LED model 8136 or equal			
	a	Light shall be mounted in front of lift arm and point rearward to illuminate container and side of alley.			
	b	Light mounted on right side pointing rearward to illuminate side of truck and alley.			
7		Cover shall be installed over the transmission to prevent debris from accumulating on top of transmission. The cover must be designed for easy removal and able to support the weight of an operator.			
8		Shall have an under ride bumper that meets all federal, state and local requirements			
9		Any wiring or plumbing running up the side, or over the roof, of body shall be guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.			
10		Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss			
11		All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.			
12		3,600 PSI CNG tanks will be roof mounted on the refuse body with a protective shield to guard the tanks from damage from alley operations. Guards will be easily removed for service work. A total DGE of approximately 70 gallons.			
		State gallons offered			
13		One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.			
14		Body height of CNG unit will be low profile body design that does not increase the height of the truck beyond a diesel truck.			
		State total transport height of completed unit mounted on chassis.			
B	Warranty			Vendor Response	
				Yes	No
	1	Minimum two (2) year on all parts, materials and labor			
	a	Specify the warranty that you will offer			
	2	All hydraulic cylinders shall be four (4) years on parts and labor including seals			
	a	State the warranty that you will offer			
	3	Minimum seven (7) years on hopper floor and sides on all parts and labor			
	a	Specify the warranty that you will offer			
	4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.			
	a	Specify the warranty that you will offer			
C	Body			Vendor Response	
				Yes	No
	1	27 yard capacity exclusive of hopper			
	a	State Manufacturer			
	b	State Model			
	c	State wet weight of Cab & Chassis			
	d	State wet weight of Refuse Unit			

	e	State wet weight of entire unit without refuse load			
	f	State Wheelbase of unit			
	g	State Length of completed unit			
	h	State Width of completed unit			
	i	State Height of completed unit			
	j	State achievable payload capacity for unit offered			
	k	State achievable pounds per yard compaction			
2		Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components			
3		LED lighting package with solid mounts required .			
4		Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.			
5		Center mounted LED brake light is required			
6		Ecco model 210 electronic back up alarm to be installed			
7		All exterior seams and abutments continuously welded for strength and neatness of appearance.			
8		Structural integrity of the body shall allow high density loading – minimum of 700 pounds per cubic yard of normal refuse.			
9		Body shall be constructed in such a fashion, and from materials, that will allow repeated packing cycles without distortion of body.			
10		Accessibility of large adult, 6'2" – 220 lbs, must be provided in area of refuse box behind the packer.			
	a	Ladder shall be provided on street side at the forward end of hopper			
	b	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.			
	c	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight			
	d	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion			
11		State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.			
D	Body Materials		Vendor Response		
			Yes	No	Exception
1		Sides shall be fabricated from minimum 10-gauge Hi tensile steel with continuously welded bracing to eliminate water pockets			
2		Roof shall be fabricated from minimum 12-gauge Hi tensile steel			
	a	Connection to body sides shall be with integral full-length roof rails to contain and dissipate the high-density side loading forces equally throughout the body structure			
3		Floor shall be fabricated from minimum 7-gauge sheet steel with 1/4" AR 400 or HARDOX equivalent overlay			
	a	Long members of 1/4" structural steel interlaced construction affording maximum floor support			
4		All body panels shall be braced with 2" x 6" steel channel			
5		Flat floor with radiused corners at sidewalls			
6		Hopper walls to be 1/4" AR400 or Hardox			
E	Tailgate		Vendor Response		
			Yes	No	Exception
1		Tailgate to be top hinged – one piece			
2		Tailgate shall be raised by hydraulic cylinders for load ejection.			
	a	Tailgate cylinders to incorporate a restriction device to prevent rapid decent in the case of hydraulic failure			
3		Tailgate movement and latching controlled from inside of cab.			

	4	Tailgate controls shall be guarded to prevent accidental activation during travel or loading			
	5	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation.			
	6	It is preferred that the tailgate incorporate a heavy duty positive type hydraulic latch operated from inside the cab			
	a	System shall include a visual and audible warning to notify operator if latch is not fully closed			
	7	Tailgate constructed of minimum 10 gauge steel and sufficiently reinforced to withstand repeated packing			
	8	Hinge mounts reinforced where attached to body.			
	9	Heavy duty tailgate service props provided.			
F	Hopper		Vendor Response		
			Yes	No	Exception
	1	Hopper opening in body to be sufficient size to allow dumping of 90 thru 300 gallon containers.			
	2	Hydraulically actuated top door/cover for hopper area to be included			
	3	Hopper loading width 80" - minimum			
	4	The floor area to be minimum ½" ASTM-A36 steel with balance of the floor area to be equivalent to 7 gauge using 150,000 PSI yield steel.			
	a	Hopper floor area shall be overlaid with minimum 3/16" 100,000 PSI steel.			
	b	Liners shall be plug welded in place for convenience during replacement.			
G	Packer		Vendor Response		
			Yes	No	Exception
	1	Paddle style packer system preferred.			
	a	State design of packing system offered			
	2	Packer plate shall be constructed out of ¼" AR400 or Hardox material. There shall be no distortion or bending occurring during repeated cycles of maximum packing pressures.			
	3	Packer plated shall be designed for continuous operation and refuse dumping in any position.			
	4	Packing sweep cycle shall displace an approximately volume of three (3) cubic yards at idle in a maximum of nine (9) seconds at 750 RPMs is preferred			
	a	State guaranteed packer cycle time			
	b	State achievable compaction ratio in pounds per yard in operation for Tempe's climatic conditions.			
	5	All packing system grease points must be designed in a way that allows greasing all points while standing on the ground next to the unit.			
	a	Any grease plumbing shall be out of the trash containment area and also be protected from any damage			
	6	Packing system shall have the ability to pack in a continuous and automatic fashion			
	a	System shall have the ability to continuously move through its packing cycle while the vehicle is in motion			
	b	Operator shall also have the ability to manually move the packer into any position utilizing the existing control panel			
	7	Capable of collecting and dumping 1,200 to 1,500 refuse cans per 10 hour work day up to 5 days per week			
	a	All manufacturers are to explain how the body they offer will accomplish and meet this specification			
H	Load Discharge		Vendor Response		
			Yes	No	Exception
	1	Dumping shall allow for complete emptying of the refuse body without the operator having to pull or clean remaining refuse from body.			

I	Hydraulics		Vendor Response		
			Yes	No	Exception
1	It is preferred that the system operate at 2,500 psi or less				
	a	State system operating pressure			
2	Will your system use a front mount or transmission mount PTO setup				
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.			
	b	State the distance the front mount pump will extend forward of bumper or extend the bumper.			
3	Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit				
4	Hydraulic reservoir shall be properly baffled				
	a	State capacity of reservoir			
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20" above the pump inlet.			
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off vale, oil level sight gauge and temperature gauge			
5	It is preferred that the hydraulic system shall be designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions				
	a	If load sensing system is used is it a proven design guaranteed to operate system in the same fashion as a convention pump setup			
	b	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss			
6	All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise.				
	a	Tubes running the length of the body roof shall be protected from tree limbs.			
	b	Exposed hoses or tubes running over the body structure will not be accepted.			
7	All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output				
	a	Hoses shall conform to SAE standards for designed pressure.			
	b	Bends shall not be more than recommended by SAE standards			
	c	Flat spots in hoses or lines will not be acceptable			
	d	Pressure hoses shall be protected with fabric guard			
8	All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel				
9	In line high pressure filter assembly mounted for easy access.				
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator			
	b	Spin on filter preferred			
	c	Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage			
	d	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid			
10	All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve				
11	Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing				
12	Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.				

	a	Cylinder design shall decrease the speed of the cylinder at least the last ½” of cylinder stroke in both direction of travel			
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.			
	c	Rods of all cylinders shall be chrome plated			
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally			
	e	State brand of cylinder on unit offered			
13		Hydraulic system and controls shall have on board diagnostic capabilities from information screen in the cab			
	a	Information screen shall provide real time information as well as allow for user programming, system diagnostic and customization of functions			
	b	On board customization shall have security levels of permissions so that the City can control the level of permissions for operators and technicians			
J	Lifting Device		Vendor Response		
			Yes	No	Exception
1		It is preferred that the device shall, in continuous duty operation, be capable of extending arms, grasping, raising, dumping and returning container to the full down position in a maximum cycle time of six (6) seconds at 750 RPM in gear.			
	a	State guaranteed lifting device cycle time			
2		The device shall, in continuous operation, be capable of lifting up to a 300 gallon plastic container weighing 1,800 pounds at any extension of the arm, in ambient temperatures of 120 degrees Fahrenheit, with feathering capability.			
3		Arms are to be designed to pickup 90 and 300 gallon containers.			
	a	There shall be no need for the operator to make any modifications or adjustments to alternate between different size cans			
4		Arm shall be designed to operate off the right side of the vehicle.			
5		The lift shall have a minimum reach capability of 84” – reach from the side of the body to the center line of a 90 gallon container			
	a	State reach of unit proposed			
6		Total mounting height must not exceed fourteen (14) feet.			
	a	State height of arc when dumping a 300 gallon container			
7		Unit is to be equipped with and electronic can counter. Counter shall be incorporated into the grip cycle – each time a can is gripped it is counted. Counter shall have an LCD display dash mounted to display the number of cans dumped.			
	a	Can counter must be accurate without errors caused by shaking of the can during lift arm cycle			
8		Lift mechanism must deliver container to hopper – units with kick out will not be accepted			
	a	Does your unit design incorporate a kick out design			
9		Driver must have a means to observe the entire operation from drivers seat.			
	a	How will you achieve this requirement?			
10		Grip arm surfaces shall have a minimum of 270 degrees contact with the container circumference.			
	a	Grip arm surfaces shall have vulcanized rubber-like material where they contact the can.			
11		Grip arm controls			
	a	Controls shall have an operator initiated “shake” function to allow operator to simulate a quick back and forth motion of the refuse can at the hopper to help loosen stuck debris in the refuse can.			
	i	“Shake” feature shall move the can back and forth a minimum of 2 times.			
	ii	Custom programming of the length, speed and quantity of can shaking is preferred			

	b	Electric over hydraulic controls with proportional control or feathering capabilities are required			
	c	Must be able to utilize both rocker switches and joystick controls			
	d	Controls shall be provided to both manual arm functions and for automatically performed sequences of multiple arm motions. Control system shall include a coordinator to control multiple arm motion sequences.			
	e	Joystick to be mounted on the left side of driver and ergonomically correct			
	i	Joystick to be wired to perform the following: forward – undump; curbside direction – arm out; street side direction – arm in; rear – dump; trigger up – arm grip; trigger down – arm release			
	f	Rocker switches shall be mounted on the right side of driver and ergonomically correct			
	i	“Soft touch” rocker switches shall be at least 1/2” wide, momentarily-on type with spring-loaded to automatically return to the off position when not depressed			
	ii	Rocker switches to provide speed sensitive or feathering control			
	iii	CAN bus system with minimal wiring preferred that provides variable and proportional hydraulic speeds based on the operators variance of force applied to switches			
	12	Lift arm shall not extend beyond the width of the body in the retracted position and have a minimum road clearance of 18”			
	13	Lift arm shall have a safety system/device to prevent movement of arm outward when engine RPM is above idle as well as prevent accidental or inadvertent extension of arm while traveling.			
	a	Inward movement of arm above idle is preferred so that operator can bring in arm while vehicle is in motion			
	b	There shall also be visual and audible safety indicators to notify driver of an extended arm when engine RPM is above idle			
K	Painting		Vendor Response		
			Yes	No	Exception
	1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted			
	2	Finish shall be Nutmeg to match cab color			
	3	City prefers powder coat finish with a minimum 4 mil thickness			
	a	Specify the type of finish will you provide?			
L	Manuals		Vendor Response		
			Yes	No	Exception
	1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.			
	2	If online manuals are not yet available, digital versions can be substituted; however, they must be in PDF format. Pdf manuals must be searchable by item/topic.			
	a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals for use at multiple locations.			
	3	Service Manuals – to include comprehensive hydraulic and wiring schematics			
	a	Body			
	b	Hydraulics			
	4	Parts Manuals			
	a	Body			
	b	Hydraulics			
	5	Operators manual – two (2) – to be supplied with each unit			

M	Training		Vendor Response		
			Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel			
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.			

Specifications – Front Loader

Return this Section with your Response

Desired minimum specification for front load refuse vehicles. Any exceptions to the desired specifications must be explained. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing a vehicle complete with all necessary components, accessories, controls, technical advice and supervision for efficient operation.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent brand, you must indicate “No” and provide details about your offering in the exception column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

The City will be the sole determiner of acceptability of ‘approved equals’.

Specification Multiplier

- Item marked with are required – if not included, offer may be considered non-responsive
- Items marked with will be scored with a multiplier of 5
- Items marked with will be scored with a multiplier of 3
- Unmarked items will have no multiplier

Unit Cycle Times

Units with cycle times that are better than requested will receive higher scores than those just meeting standards as stated.

A	Front Loader Specific Specification		Vendor Response		
			Yes	No	Exception
	1	Due to space limitations on Tempe routes a smaller wall to wall and curb to curb turning diameters are required. Vendor is to specify the turning diameter of the completed unit as requested below. Smaller turning diameters will score higher during the evaluation process			
	a	State wall to wall turning diameter for unit submitted			
	b	State curb to curb turning diameter for unit submitted			
	c	State wheel cut for submitted unit			
	2	Unit shall be supplied with a dual camera system. Safety Vision SV-CLCD-65 or approved equal, with 7” flat screen monitor in cab.			
	a	State Manufacturer and Model			
	b	One camera mounted on the tailgate, illumination provided by two flood lights facing rearward – wired to illuminate when transmission is put in reverse.			
	c	Second camera to be armored and mounted in a protected area above the hopper to provide view of the hopper interior. Camera to be wired to be activated by the driver from the drivers seat.			
	d	Third camera mounted to right side of tailgate pointing directly to the right to show oncoming traffic if backing into the street.			
	e	Display to be able to display split image from cameras			
3	One protected floodlight is to be provided situated to illuminate the rear side of packer blade. Light shall be mounted as close as possible to the screen in front of the hopper area in order to reduce light reflection off the screen.				
4	One (1) flood light mounted on each side of the refuse body midpoint designed to light up toward the rear of the truck when in reverse.				
3	Shall have an under ride bumper that meets all federal, state and local requirements				
4	Any wiring or plumbing running up the side, or over the roof, of body shall be				

		guarded or protected by some means from tree limbs, or other obstructions, that might contact the body. Any covers, guards or protective devices must be constructed in a way that allows for easy removal and/or replacement of wiring, hoses, or lines during repairs or diagnostic of electrical or hydraulic systems.			
	5	Safety pins or clips that hold prop or similar device in place shall be permanently secured or tethered to prevent accidental loss			
	6	All bearings and bushings must have a means to be fully and completely lubricated by operator using a standard hand grease gun. Vendor must design the means for grease to travel from zerk into the bearing or bushing and entirely cover all friction points. Grease passages must be designed in a way that prevents poor flow of grease or allows foreign material to clog grease passages.			
	7	The body shall incorporate a electric over hydraulic service hoist that can easily lift the body off of the frame when the truck is unloaded. The lift shall be constructed in a way to raise the front portion of the body with the pivot at the rear of body. There shall be body props that safely hold the body in the lifted position. The minimum raised height of a safely propped body shall be 26" high. The point of measure shall be no more than 24" back from the most forward point of the body.			
	a	Lifting of body shall not require tools. An operator in the field must be able to remove any body to frame fastening devices and raise the body with no additional help from an assistant or hardware.			
	8	3,600 PSI CNG tanks will be roof mounted on the refuse body with a protective shield to guard the tanks from damage from alley operations. Guards will be easily removed for service work. A total DGE of approximately 70 gallons.			
		State gallons offered			
	9	One slow fill nozzle on the front bumper and one slow fill and one fast fill on the right side of the truck.			
	10	Body height of CNG unit will be low profile body design that does not increase the height of the truck beyond a diesel powered truck.			
	11	State total transport height of completed unit mounted on chassis.			
B	Warranty		Vendor Response		
			Yes	No	Exception
	1	Minimum two (2) year on all parts, materials and labor			
	a	Specify the warranty that you will offer			
	2	All hydraulic cylinders shall be four (4) years on parts and labor including seals			
	a	State the warranty that you will offer			
	3	Minimum seven (7) years on hopper floor and sides on all parts and labor			
	a	Specify the warranty that you will offer			
	4	Minimum five (5) years on structural integrity and design of body to include cracks and premature wear out of components of body and packing system.			
	a	Specify the warranty that you will offer			
C	Body		Vendor Response		
			Yes	No	Exception
	1	40 yard capacity			
	a	State Manufacturer			
	b	State Model			
	c	State wet weight of Cab & Chassis			
	d	State wet weight of Refuse Unit			
	e	State wet weight of entire unit without refuse load			
	f	State Wheelbase for unit			
	g	State Length of completed unit			
	h	State Width of completed unit			
	i	State Height of completed unit			
	j	State achievable payload capacity for unit offered			
	k	State achievable pounds per yard			

		compaction			
2		Body shall be designed for mounting on a COE chassis to allow accessibility to engine and all components			
3		LED lighting package with solid mounts required .			
4		Mid body turn signals (LED) are to be mounted on each side of the body. Solid mount to avoid lights being dislodged by contact with trees, brush, etc.			
5		Center mounted LED brake light is required			
6		Ecco model 210 electronic back up alarm to be installed			
7		All exterior seams and abutments continuously welded for strength and neatness of appearance.			
8		A front cab guard protector is required. Top anchor points of cab guard mounted to cab roof. Lower anchor points mounted to cab hinges in such a way that guard will tilt with cab.			
9		Body equipped with a cab protector shield. Cab shield designed to allow full tilting of the cab without raising body. The cab protector will be provided with a hydraulic tilting feature to hydraulically move the cover allowing the cab to be tilted fully forward. The cab protector will include a drain trough that will direct liquids from the cab protector into the body sump.			
	a	If two piece canopy is used in order to facilitate the ability to tilt the cab forward without lifting the body, the hinge point of the canopy shall be no further forward than the rear edge of the cab. This will allow Tempe to utilize a larger roof mounted A/C			
10		Wind screen attached to prevent blowing of material during discharge of the container			
11		A bolt on expanded metal screen will be mounted on the front of the refuse body. The screen will prohibit the escaping of loose refuse from the hopper area behind the packer and onto the truck engine and transmission.			
	a	Screen shall have a frame around it that is secured to the body without welding to allow removal for access during repairs			
12		A ladder is to be provided on the rear to gain access to the top of the refuse body. State location of ladder.			
	a	Self-cleaning steps constructed of grip strut metal are required Non-slip tape is not acceptable.			
	b	Ladder must be designed to allow three point contact without stepping on fuel tank, battery box or any other item mounted to frame not specifically designed to safely support operators weight			
	c	Ladder shall be designed in a way that provides a minimum of 5" of operator shoe to protrude through the ladder or have a 4" wide step surface with 1" of shoe protrusion			
13		State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula.			
D	Body Materials			Vendor Response	
			Yes	No	Exception
1		Entire body to be constructed of eight (8) gauge 80,000 PSI steel minimum to withstand repeated packing cycles without distortion or creasing of the refuse containing area.			
2		Body floor shall be flat full width minimum 3/16" 150,000 PSI steel.			
3		Floor longitudinals required with crossmembers located on minimum 18" centers to withstand continuous operation at maximum loads.			
4		12 gauge steel may be used for roof constructions – adequate bracing of the roof crown must be provided to dissipate forces equally through the body structure			
E	Tailgate			Vendor Response	
			Yes	No	Exception
1		Tailgate to be top hinged – one piece			
2		Tailgate constructed of minimum 10 gauge steel and sufficiently reinforced to withstand repeated packing			
	a	State tailgate configuration			
	b	State tailgate size			

	c	State tailgate design			
	3	Tailgate shall be raised by hydraulic cylinders for load ejection.			
	a	Tailgate cylinders to incorporate a restriction device to prevent rapid descent in the case of hydraulic failure			
	4	Tailgate movement and latching controlled from inside of cab.			
	5	Tailgate seal shall be designed in such a fashion to allow vendor to guarantee no leakage will occur during normal operation to a minimum level of 24”.			
	6	The tailgate is to incorporate a heavy duty positive type hydraulic latch operated from inside the cab.			
	a	Controls shall be guarded to prevent accidental activation during travel or loading			
	b	System shall include a visual and audible warning to notify operator if latch is not fully closed.			
	7	Hinge mounts reinforced where attached to body.			
	8	Heavy duty tailgate service props provided.			
F	Hopper		Vendor Response		
			Yes	No	Exception
	1	Hopper area to receive from the top and be designed to accommodate containers from one (1) through ten (10) cubic yard capacity.			
	2	12 yd hopper capacity minimum			
		State hopper capacity in cubic yards and also state height, width and length.			
	3	Hopper design to include a flat floor with straight vertical sidewalls. Hopper floor to be ¼” preferred hardox AR-450 abrasion resistant steel plate (203,000 PSI tensile strength). Sufficient under floor bracing to include full width crossmembers on 18” center minimum that are interlaced with longitudinal supports.			
	4	All external welds of hopper side bracing shall be continuous full seam.			
	5	Inside of the hopper shall be plug welded for additional strength			
	6	An under hopper liquid sump shall be designed to provide a 40 gallon sump for liquid retention. Clean out doors with seals shall be provided on both curb and street sides to remove debris from the liquid sump without having to enter the truck body. A clean out rake or similar tool provided with a saddle mounted on the truck body provided to carry the tool			
	7	Clean out doors with water tight seals			
	a	If the design of the packer is such that debris that falls behind the packer blade is cleaned out automatically and completely, then clean out doors are not required. Tempe will be the sole determiner if the design is adequate to completely clean the hopper area of debris.			
	8	Access to hopper to be provided for cleaning purposes.			
	a	Access to meet ANSI Safety Requirements.			
	b	Door to be equipped with a reliable, positive latch and inter-lock system to prevent arm or packer blade movement if not properly latched.			
	c	Two grab handles are preferred – one above door and on the side of door			
	d	Door shall have a minimum opening of 24” wide x 32” tall			
	9	Hydraulically operated horizontal sliding top hopper door to be included. Operated by a double acting hydraulic cylinder with a red warning light on dash to warn the operator when the door is not fully closed.			
	a	Hopper top door will have an interlock that will prevent the arms from dumping onto the top door			
	b	Open to close time to be 6 seconds maximum			
	c	Shall be constructed of steel sheet metal and able to support a 220 pound operator without denting, creasing or permanently distorting.			
G	Packer		Vendor Response		
			Yes	No	Exception
	1	Partial pack – full eject packer system.			
	a	State design of packing system offered			
	2	Packer blade shall be constructed of 3/16” minimum 100,000 PSI steel braced to withstand, without distortion, repeated application of maximum packing			

	a	Packer shall be reinforced with a combination of structural members for maximum strength and rigidity			
3		Packer designed to prevent spillage of refuse over the top of the packer during both the pack and retract cycle.			
	a	Sharks teeth at the top of the packer blade to help prevent spillage of trash over the blade during compaction			
4		It is preferred that the packer cycle time not to exceed 20 seconds (Cycle is full packer stroke out and return)			
	a	State guaranteed packer cycle time in seconds			
5		Packer guide tracks shall be welded in and made from Hardox AR-450 – 203,000 PSI tensile strength steel			
6		Packer shall have a wear plate/scrapper blade across the bottom of packer that runs across the entire width of packer			
7		Packer cylinders shall have the ability to be greased without entering the hopper.			
	a	If remote hoses are used to accomplish this, all hoses must be steel braided for strength and durability and secured in a way that prevents damage from refuse material			
8		Packer blade size and travel designed to clear hopper area of trash without having to pack multiple times.			
9		Packer system must allow packing while driving from can to can.			
H	Load Discharge – Full Eject		Vendor Response		
			Yes	No	Exception
1		Dumping shall allow for complete emptying of the refuse body without the operator having to pull or clean remaining refuse from body.			
I	Hydraulics		Vendor Response		
			Yes	No	Exception
1		It is preferred that the system operate at 2,500 psi or less			
	a	State system operating pressure			
2		Will your system use a front mount or transmission mount PTO setup			
	a	If front mount is utilized, a means must be provided to protect front of engine mounted hydraulic pump and all associated lines.			
	b	State distance the front mount pump will extend forward of bumper or extend the bumper.			
3		Design and capacity of the hydraulic system must be adequate to maintain desired pressures and operating capabilities in ambient temperatures of up to 120 degrees Fahrenheit			
4		Hydraulic reservoir shall be properly baffled			
	a	State capacity of reservoir			
	b	Tank shall be pressurized to prevent cavitation unless it is mounted more than 20” above the pump inlet.			
	c	Tank shall be complete with screened fill port, magnetic drain plug, shut off valve, oil level sight gauge and temperature gauge			
5		Preferred hydraulic system shall be fuel efficient and designed in a way to provide pressure and flow from the system pump(s) only when needed. This design shall utilize idle or very near idle engine RPM for functions			
	a	Pump(s) shall have full load sensing controls that provide power only when needed and thus reduce HP draw from the engine when hydraulic functions are not being used			
	b	System shall be designed in a way so that the hydraulic pump(s) will only provide the minimum flow required for each specific hydraulic function when commanded			
	c	System shall be designed in a way so that the pump(s) will go to zero flow and low pressure standby when no hydraulic functions are commanded regardless of engine speed			
	d	System shall contain a valve that assures a positive shutdown of the pump in case of system failure resulting in large amounts of fluid loss. In the event of a hose rupture or other catastrophic loss of fluid, the shutdown valve shall			

		stop all functions and prevent any additional fluid loss. Valve(s) shall be mounted directly to outlet of pump(s) for maximum reduction of fluid loss			
		Give a detailed description how your hydraulic system will accomplish this goal.			
6		All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise.			
	a	Tubes running the length of the body roof shall be protected from tree limbs.			
	b	Exposed hoses or tubes running over the body structure will not be accepted.			
7		Pump to body hard plumbing shall be provided. Flex hoses shall be provided at each end of the hard plumbing to provide adequate flexure to prevent hydraulic leaks			
8		All high pressure hydraulic hoses will be double braided wire construction built to withstand a pressure equal to 2 times the maximum pump output			
	a	Hoses shall conform to SAE standards for designed pressure.			
	b	Bends shall not be more than recommended by SAE standards			
	c	Flat spots in hoses or lines will not be acceptable			
	d	Pressure hoses shall be protected with fabric guard			
9		All hydraulic pressure hose fitting must be SAE 37 degree, JIC style male ridged and female swivel or flat face o-ring style with male rigid and female swivel			
10		In line high pressure filter assembly mounted for easy access.			
	a	There shall be an electronic bypass monitor with permanently labeled warning light inside the cab visible to the operator			
	b	Spin on filter preferred			
	c	Tank shall be equipped with a sight level gauge for checking of fluid level that is easily visible and protected from damage			
	d	Tank shall include a ¼ turn ball valve on the suction line fitting to allow removal of tank without draining fluid			
11		All valves shall be located in a manner to allow easy access by technician for diagnosis and repair			
12		Pressure tap points with quick connect adapters shall be provided at all necessary points to allow complete system testing			
13		All multi spool control valves shall be of sectional design such that servicing would not require replacement of the entire valve			
14		Hydraulic packing cylinders must be of the internal cushion design to minimize hydraulic shock.			
	a	Cylinder design shall decrease the speed of the cylinder at least the last ½” of cylinder stroke in both direction of travel			
	b	Rods of packer cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.			
	c	Rods of all cylinders shall be chrome plated			
	d	All cylinders must be of a brand and design which can be repaired or rebuilt locally			
	e	State brand of cylinders on unit offered			
J	Lifting Device		Vendor Response		
			Yes	No	Exception
1		Arms of the front loading refuse body capable of lifting a minimum of 8,000 pounds gross load measured at the centerline of an eight (8) cubic yard container.			
	a	State design and type of construction			
	b	State manner in which the arms attach to body			
2		Lifting arms must not obstruct cab doors on either side during dumping cycle.			
3		Bolt on replaceable rubber arm stops are required			
4		Lifting arms provided with 51” forks for pickup of containers equipped with side sleeves.			

5	Lift arms and forks shall be designed to service container of one (1) to eight (8) cubic yard capacity.			
a	Replaceable fork cross shaft rubber bumpers required			
6	Lift arms to have limiting cylinders or safety device to prevent them from tilting into cab and windshield when in the stored position.			
a	State design and placement of lift arms in travel position			
7	Rabbit ear style control levers for all functions provided inside cab within easy reach of the driver.			
8	Lifting device and packer controls shall be electric over hydraulic with proportional control or feathering capabilities			
9	Controls shall have an operator initiated "shake" function to allow operator to simulate a quick back and forth motion of the refuse container at the hopper to help loosen stuck debris in refuse container. "Shake" function control shall be mounted in a way that does not require the operator to move their hand to another control position to use feature. "shake" feature shall move container back and forth a minimum of 2 times. Custom programming of the length, speed and quantity of container shaking is preferred.			
10	Hydraulic system and controls shall have on board diagnostic capabilities from information screen in the cab			
a	Information screen shall provide real time information as well as allow for user programming, system diagnostic and customization of functions			
b	On board customization shall have security levels of permissions so that the City can control the level of permissions for operators and technicians			
c	Lift arm counter shall be provided that measures refuse can dump cycles as well as packer cycles.			
11	Lifting arms equipped with steel tubular type hydraulic cylinders with sufficient rated capacity to effectively operate with the maximum rated load at maximum efficiency.			
12	Hydraulic cylinders will rotate containers into hopper with sufficient angle to cleanly and quickly discharge material			
13	It is preferred that the dump cycle time not to exceed 16 seconds (Cycle is full sweep up, dump, un-dump and lowered to the fully down position)			
a	State guaranteed dump cycle time			
14	Forks shall have a raised protrusion on the top of the outward end to assist in the prevention of cans slipping off of fork when the can is upright			
15	System shall incorporate an automatic function of slowing the arms to a smooth stop when moving the arms to the fully stored position to prevent damage to arm stops and other affected arm components.			
a	Heavy duty bolt-on hard rubber arm stops located at the side of body shall cushion and prevent over travel of the lift arms			
K	Painting	Vendor Response		
		Yes	No	Exception
1	Complete unit shall be cleaned of all dirt & grease, all weld slag removed & then sand blasted			
2	Finish shall be white to match cab color			
3	City prefers powder coat finish with a minimum 4 mil thickness			
a	Specify the type of finish will you provide?			
L	Manuals	Vendor Response		
		Yes	No	Exception
1	The preferred medium for manuals is a web based platform. Vendors shall provide (at no cost to the City) access to all online manuals, including updates, for the lifecycle of the unit, or ten years, whichever comes first.			
2	If online manuals are not yet available, digital versions can be substituted, however, they must be in PDF format. Pdf manuals must be searchable by item/topic.			
a	Must be capable of being installed on a shared drive for access at multiple locations without using the CD, or provide the ability to copy the manuals			

		for use at multiple locations.			
	3	Service Manuals – to include comprehensive hydraulic and wiring schematics			
	a	Body			
	b	Hydraulics			
	4	Parts Manuals			
	a	Body			
	b	Hydraulics			
	5	Operators manual – two (2) – to be supplied with each unit			
M	Training		Vendor Response		
			Yes	No	Exception
	1	On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel			
	2	Vendor familiarity training for maintenance and repair of the vehicle. Training must occur within 2 weeks of request by the City.			

Questionnaire

Return this Section with your Response

Bidder shall submit answers to the following questions. Responses will be utilized in determination of contract award.

	Question	Response
1	Provide the address of the facility that will supply units to the City of Tempe.	
a	If you do not have a Tempe, or valley address, how do you intend to handle repair/warranty issues	
2	Describe your company and its history – include years in business	
3	Please provide contact information for the primary account representative and a backup contact for the City of Tempe. <ul style="list-style-type: none"> • Contact Name • Phone Number • Cell Phone Number • e-mail address 	Provide contact information below
4	Do you have factory-trained personnel on site to perform installation, maintenance and repair on the equipment you are offering?	
5	What is the delivery time ARO for the equipment you are offering – liquidated damages will apply if delivery timelines are not met. The City of Tempe prefers a delivery time of 180 days or less. Liquidated damages are \$100 per day per truck will be assessed after the agreed upon delivery date has expired.	
a	Do you understand and accept this condition?	
6	If required warranty work requires that vehicle to be taken to your facility for repairs to be effected, will you pick up and return vehicle at no cost to the City of Tempe?	
7	Do you provide, at no cost, human based technical support for the cab and chassis to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	
a	If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	
8	Do you provide, at no cost, human based technical support for the refuse body to assist with diagnosis of problems for service technicians? This service must be available for the lifecycle of the unit or 10 years, whichever comes first.	
a	If yes, provide information explaining the working of the program, the level of support provided and hours the service is available.	
9	Do you agree to the Terms and Conditions of this RFP?	
a	If No, explain to right	
10	List three (3) governmental or large corporate references for which you currently provide similar services.	

	<ul style="list-style-type: none"> • Organization/Firm Name • Contact Name • Phone Number 	<div style="background-color: #cccccc; padding: 2px;">Provide Reference Information Below</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; height: 20px;"></div>
11	List number of units already built to these specifications and body configurations	<div style="background-color: #cccccc; padding: 2px;">Provide quantities below</div> <div style="border: 1px solid black; padding: 2px;">Front Loaders</div> <div style="border: 1px solid black; padding: 2px;">Rear Loaders</div> <div style="border: 1px solid black; padding: 2px;">Side Loaders</div>

Checklist for Submittals

The following checklist has been provided to assist you in submission of your offer.

This list should not be considered complete, other information or documents may be necessary as part of your submission.

The items listed are the primary documents and information that must be completed and/or included with your submittal.

Please include any information or documents that will clarify your submittal.

Description		Included √
1	One signed and complete original of the RFP response – only sections marked “Return this Section with your Response” are required but you may include supplemental materials you believe necessary to clarify your submittal.	
a	Vendor’s Offer – Form 201-B (RFP) has been signed and included with response	
2	Two (2) additional copies of RFP response on Flash Drive – a single copy of your response should be put on each requested Flash Drive - only sections marked “Return this Section with your Response” are required but you may include supplemental materials you believe necessary to clarify your submittal.	
a	It is required that responses be returned in “Word” format. The signature page can be in pdf format.	
b	If utilizing a PDF file format for any additional information submitted with response, please optimize the file (low resolution) to lower memory space requirements	
3	Questionnaire has been completed and included	
4	Price information is complete and included	
5	Literature included for options and training are included	
6	Signed and completed Affidavit of Compliance with Tempe City Code Chapter 2 Article VIII Section 2-603(5) or acceptable alternative	
7	Any addendum(s) have been included	

Evaluation Criteria

An evaluation committee composed of City staff will review the responses and score them according to the criteria listed below.

Award Criteria		Weight	x	Rating	=	Points
1	Cost	8 (32%)	x		=	
	a	Base Vehicle				
	b	Options				
	c	Diagnostic Software and cables				
	d	Training				
2	Ability to meet or exceed requested parameters	6 (25%)	x		=	
	a	Specifications				
	b	Experience in producing units meeting Tempe specifications				
	c	Warranty Offered				
	d	Guaranteed cycle times for packing operations, etc.				
3	Functionality of unit	4 (17%)	x		=	
	a	Curb to Curb turning diameter				
	b	Wall to Wall turning distances				
	c	Height of unit				
4	Local parts inventory, warranty and service availability (or the ability to provide an acceptable alternative)	3 (13%)	x		=	
5	Training for Service Technician & Support	2 (8%)	x		=	
	a	Quality and Variety of Manuals Offered				
	b	Quality and Variety of Training Offered				
	c	Quality and quantity of diagnostic tools and software offered				
6	Overall response to RFP	1 (5%)	x		=	
	a	Quality, composition and completeness of response				
	b	Acceptance of Terms and Conditions of the RFP				
Total						

This proposal will be evaluated on a cumulative point system.

Scoring

Outstanding	8 to 10
Good	6 to 7.9
Average	3 to 5.9
Poor	0 to 2.9

Price Sheet – Rear Load

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost			
Rear load refuse vehicle		\$			
Options		Cost			
1	TruTrack steering geometry correction kit to be installed	\$			
2	Upgrade to disk brakes	\$			
3	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$			
4	Heavy duty pintle hitch – mounted so that the contact point with the pintle eye will be 29” off the ground	\$			
5	Trailer brake controller to be installed within easy reach of driver. Trailer connector to be provided. Standard 7-way RV style wired to be compatible with Tempe vehicles	\$			
6	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$			
7	Bolt on rake holder – with rake provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$			
8	Spare wheel and mounted tire for front axle	\$			
9	Spare wheel and mounted tire for rear axle	\$			
10	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$			
11	Deduct – Remove transmission integral retarder	\$			
12	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$			
13	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	Yes	No	Not Required	
		a. Engine diagnostic software and cables			
		b. Transmission diagnostic software and cables			
		c. Anti-Lock brake diagnostic software and cables			
		d. Chassis diagnostic software and cables			
		e. Regenerative exhaust system diagnostic software and cables			
	f. Other diagnostic software and cable to be supplied – list below:				
14	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$			
		Yes	No	Not Required	
	a. Refuse body diagnostic software				
	b. Other diagnostic software – list below				
15	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			

16	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$
17	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$
18	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$
19	Roadway Displays Inc message board frame, two (2) per truck (2-1/4” x 95-1/2” x 31-1/2” to include frame and installation	\$
20	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$
21	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$
22	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$
23	Cone Holder	\$
24	Zonar GPS/Pretrip system – Hardware and complete installation only	\$
25	Air operated cab jack with hydraulic override if air system is not working.	\$
26	Full air suspension on conventional tandem	\$
27	Vulcan scale system with Haulmax suspension 6x4 configuration	\$
28	Vulcan scale system with Air Suspension 6x4 configuration	\$
29	Vulcan scale system with Meritor FUELite 6x2 configuration	\$
30	Super single tires on tandem axle	\$
31	Optional 32/33 CY body with pusher axle (diesel fuel only) State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 32/33 CY body.	\$
Other supplier recommended options (including extended warranties) – add pages if needed.		
		\$
		\$
		\$
		\$
		\$

Price Sheet – Side Load

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost
Side Load refuse vehicle		\$
Options		Cost
1	Single drive rear axle with dual wheels –with liftable tag with dual wheels per specifications below	\$
a	26,000# minimum axle rating with largest brakes available – would prefer 31,000# rating – indicate compliance to right	
a	Specify manufacturer, model and rating	
b	Specify brake size	
b	23,000# minimum liftable tag axle (Watson-Chalin or equal) – indicate compliance to right	
a	Specify manufacturer, model and rating	
b	Specify brake size	
c	Rear suspension rating shall exceed axle ratings– indicate compliance to right	
d	Drive axle to have spring suspension	
a	Provide manufacturer, model and rating of drive suspension	
e	Liftable tag axle to be air suspension– indicate compliance to right	
a	Provide manufacturer, model and rating of tag suspension	
2	Auto down feature for liftable tag based on weight on drive axle	\$
3	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	\$
4	TruTrack steering geometry correction kit to be installed	\$
5	Upgrade to disk brakes	\$
6	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$
7	Meritor FUELite Tandem axle in a 6x2 configuration in lieu of conventional tandem	
8	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$
9	Spare wheel and mounted tire for front axle	\$
10	Spare wheel and mounted tire for rear axle	\$
11	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$
12	Deduct – Remove integral transmission retarder	\$
13	Deduct – Change to conventional real axle setup with no liftable tag	\$
14	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$
		Yes
		No
		Not Required
	a. Engine diagnostic software and cables	
	b. Transmission diagnostic software and cables	
	c. Anti-Lock brake diagnostic software and cables	
	d. Chassis diagnostic software and cables	
	e. Regenerative exhaust system diagnostic software and cables	
	f. Other diagnostic software and cable to be supplied – list below:	

15	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$		
		Yes	No	Not Required
	a. Refuse body diagnostic software			
	b. Other diagnostic software – list below			
16	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$		
17	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$		
18	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$		
19	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$		
20	Roadway Displays Inc message board frame, two (2) per truck (2-1/4” x 95-1/2” x 31-1/2” to include frame and installation	\$		
21	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$		
22	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$		
23	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$		
24	Cone Holder	\$		
25	Zonar GPS/Pretrip system – Hardware and complete installation only	\$		
26	Air operated cab jack with hydraulic override if air system is not working.	\$		
27	Full air suspension on conventional tandem	\$		
28	Vulcan scale system with Haulmax suspension 6x4 configuration	\$		
29	Vulcan scale system with Air Suspension 6x4 configuration	\$		
30	Vulcan scale system with Meritor FUELite 6x2 configuration	\$		
31	Super single tires on tandem axle	\$		
32	Optional 33 CY body with tandem axle and 13,500 liftable steerable tag axle.	\$		
	State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 33CY body.			
Other supplier recommended options (including extended warranties) – add pages if needed.				

Price Sheet – Front Load

Return this Section with your Response

Quantities listed on the price sheet are for City of Tempe projected purchases for the initial four years of the contact but does not obligate the City to order or accept more than actual needs and availability of appropriated funds permit. The contract(s) will be evaluated on an annual basis for compliance with bid specifications and performance to determine if available contract extensions will be utilized.

Upgrades must be net and include any reduction related to the cost of the base unit as specified

Pricing must be inclusive of all costs including. The City will not pay fuel surcharges or any cost beyond those stated below.

Description		Unit Cost			
Front load refuse vehicle		\$			
Options		Cost			
1	TruTrack steering geometry correction kit to be installed	\$			
2	Upgrade to disk brakes	\$			
3	Exterior engine hour meter readable from ground level, engine oil pressure activated	\$			
4	Bolt on shovel holder – with shovel provided. Holder shall be made in such a way that allows easy mounting and dismounting of shovel without the use of tools and securely holds the shovel while vehicle is being driven up to and including highway speeds	\$			
5	Spare wheel and mounted tire for front axle	\$			
6	Spare wheel and mounted tire for rear axle	\$			
7	Deduct – Change to Diesel Engine Cummins ISL (345hp)	\$			
8	Deduct – Remove integral retarder	\$			
9	Deduct – Change to conventional real axle setup with no liftable tag	\$			
10	Cab and Chassis diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate if included or needed in column to right	\$	Yes	No	Not Required
	a. Engine diagnostic software and cables				
	b. Transmission diagnostic software and cables				
	c. Anti-Lock brake diagnostic software and cables				
	d. Chassis diagnostic software and cables				
	e. Regenerative exhaust system diagnostic software and cables				
	f. Other diagnostic software and cable to be supplied – list below:				
11	Body diagnostic software, cables, adaptors and any required updates during the life of the vehicle or 10 years whichever occurs first must be supplied. Indicate software to be included below – indicate Yes or No in column to right:	\$	Yes	No	Not Required
	a. Refuse body diagnostic software				
	b. Other diagnostic software – list below				
12	Service Technician Training - per person Factory authorized maintenance and repair training for engine. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			
13	Service Technician Training – per person Factory authorized maintenance and repair training for transmission. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			
14	Service Technician Training – per person Factory authorized maintenance and repair training for Chassis unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$			

15	Service Technician Training – per person Factory authorized maintenance and repair training for refuse unit. The cost of training is to include all cost including, but not limited to, required manuals, required books, travel and lodging expenses (if out of the Phoenix area)	\$
16	Roadway Displays Inc message board frame, two (2) per truck (2-1/4" x 95-1/2" x 31-1/2" to include frame and installation	\$
17	Twenty (20) lb dry chemical ABC rated fire extinguisher with bracket mounted on body	\$
18	Grote #64123 LED amber lights – quantity of two, mounted on rear of truck wired to alternately flash with in cab control switch	\$
19	Amber strobe light (LED) – quantity of one (1) mid mounted tail gate with in cab control switch	\$
20	Cone Holder	\$
21	Zonar GPS/Pretrip system – Hardware and complete installation only	\$
22	Air operated cab jack with hydraulic override if air system is not working.	\$
23	Full air suspension on conventional tandem	\$
24	Vulcan scale system with Haulmax suspension 6x4 configuration	\$
25	Vulcan scale system with Air Suspension 6x4 configuration	\$
26	Vulcan scale system with Meritor FUELite 6x2 configuration	\$
27	Super single tires on tandem axle	\$
28	Optional 43 CY body with steerable tag axle State estimated maximum payload while maintaining legal weight limits as defined by the Arizona bridge formula for 43 CY body.	\$
Other supplier recommended options (including extended warranties) – add pages if needed.		
		\$
		\$
		\$
		\$
		\$

* Applicable Tax ____ %

*** State correct jurisdiction to receive sales tax on the Vendor's Offer, Form 201-B (RFP) included in this Request for Proposal.**

Less prompt payments discount terms of ___ % ___ days/ or net thirty (30) days. (To apply after receipt and acceptance of an itemized monthly statement.) For evaluation purposes, the City cannot utilize pricing discounts based upon payments being made in less than thirty (30) days from receipt of statement.

Ordering and Invoice Instructions

In order to facilitate internal control and accounting, each City Department will order and must be invoiced separately. Monthly invoices must be segregated by City Department number and mailed or delivered directly to the City Customer Department. For most materials, there will be between three (3) and six (6) ordering departments. At the time an order is placed, the Contractor must obtain the ordering department's cost center numbers for billing purposes. The use of the department's cost center numbers will be in addition to the purchase order number. Once a month, the Contractor shall submit a consolidated statement which shall itemize the invoice numbers, invoice date, invoice amounts, and the total amount billed to Accounting. Discount offering will be based upon days from receipt of the consolidated monthly statement. Invoice(s) shall not show previous balances.

Invoices shall include:

1. Listing Of All Delivery/Pickup Receipt Numbers Being Invoiced.
2. Total Cost Per Item.
3. Applicable Tax.
4. Payment Terms.
5. Blanket Purchase Order Number.

Invoices that do not follow the above minimum invoicing requirements will not be paid. Payment must be applied to only invoices referenced on check/payment stub. The City reserves the right to bill contracted vendor for researching invoices that have been paid, but not properly applied by vendor account receivables office.

Statement mailing address: City of Tempe
Accounting (see below for your contact)
P.O. Box 5002
Tempe, Arizona 85280
Phone: 480-350-8355

Accounting Contacts:	Alex Chin	Letters A – H and Numbers
	Ramona Zapien	Letters I – Z
	Danielle Plunkett	General AP Inquiries and AP Checks



**AFFIDAVIT OF COMPLIANCE WITH TEMPE CITY CODE
CHAPTER 2 ARTICLE VIII SECTION 2-603(5)**

Per Tempe City Code Chapter 2 Article VIII Section 2-603(5), it is unlawful for a City vendor or City contractor, because of race, color, gender, gender identity, sexual orientation, religion, national origin, familial status, age, disability, or United States military veteran status, to refuse to hire or employ or bar or discharge from employment any person, or to discriminate against such person in compensation, conditions, or privileges of employment.

City vendors and contractors shall provide a copy of their antidiscrimination policy to City to confirm compliance with this requirement or attest in writing to compliance.

- CONTRACTOR means any person who has a contract with the City.
- VENDOR means a person or firm in the business of selling or otherwise providing products, materials, or services.

CONTRACTOR/VENDOR, select one:

_____ Current copy of antidiscrimination policy attached

OR

_____ I hereby certify _____ (contractor/vendor) to be in compliance with Tempe City Code Chapter 2 Article VIII Section 2-603(5).

Signature

Date: _____

Print Name

Title

Company