Name: City of Surprise PM-10 sweeper application 4609
Id: SUR-21-SW-001
Agency: Surprise

This application was signed by John McFarland on 9/10/2020
16000 N. Civic Center Plaza
Surprise, AZ 85374
(623) 222-1000

Roadway Types

The types of roads the requested sweeper will sweep

Arterial	Yes
Collector	Yes
Residential	Yes
Other	No
Description of Other Lanes	

Roadway Type Information

Details about the types of roads to be swept

Arterial Sweep Cycle Length (measured in days between sweepings)	8
Arterial Lane Miles to be Swept per Cycle	48
Arterial Average Weekday Traffic per Lane Being Swept	4,000
Collector Sweep Cycle Length (measured in days between sweepings)	8
Collector Lane Miles to be Swept per Cycle	44
Collector Average Weekday Traffic per Lane Being Swept	1,500
Residential Sweep Cycle Length (measured in days between sweepings)	10
Residential Lane Miles to be Swept per Cycle	220
Residential Average Weekday Traffic per Lane Being Swept	250

Name: City of Surprise PM-10 sweeper application 4609
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Proximity to PM-10 Monitor

Information about the sweeping route's proximity to a PM-10 monitor

Will the requested certified sweeper be used within 4 miles of a PM-10 monitor?	Yes
Names of PM-10 monitors within 4 miles of sweeping route	Dysart

Additional Information

Additional information about the sweeper not covered in other sections

Is the agency willing to provide MAG with additional information?	Yes
Number of Certified Sweepers Operated by Agency	8

Geographical Area

Information about the geographical area that the sweeper will operate in

Geographical area that the requested street sweeper will operate	Bell Road and Dysart Road east to Bell and 115th Av. Grand Av and 163rd av north to Dixileta. Jomax Road 175th av east to Jomax and 147th Av.

Local Resource Allocation

The resources prepared to make use of the street sweeper

Have local resources been committed to support the operation of the sweeper?	Yes
Details about local resources	One employee, average annual cost of $60,000. Annual dump fees average $19,000. Fuel and maintenance average $16,000 per year.

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Replace a PM-10 Certified Street Sweeper

Additional information about the sweeper being replaced

Number of hours in service on the sweeper that is being replaced	5,000
The month and year that the older certified sweeper was put into service	August 2012
Number of miles (including deadhead miles) on the sweeper that is being replaced	41,000
Percent of time older sweeper was out of service	25%
Additional information about out of service percentage	Electrical issues, gutter broom attachment failure. Auxiliary motor power surging, difficulty diagnosing this. Engine overheats randomly. Pick up tube wear.

Sweeper Purpose

What the requested sweeper will be used for

Replace a Noncertified Street Sweeper	No
Expand Service Area	No
Increase Sweeping Frequency	No
Replace an Older Certified Street Sweeper	Yes

Funding Information

Summary of the estimated costs of the requested sweeper

Procurement Method	ADOT Procurement
Total Estimated Cost of Sweeper	$244,597.53
Total Eligible Costs	$244,597.53
Ineligible Costs	$0.00
Agency Cash Match	$13,942.06
Total Agency Share of Costs	$13,942.06
Federal Share of Costs	$230,655.47

BALAR EQUIPMENT
11023 N 22ND AVE.
P.O. BOX 83118
PHOENIX, AZ 85029

Voice: 602-944-1933
Fax: 602-944-9687

QUOTATION

Quote Number: 820232
Quote Date: Aug 19, 2020
Page: 1

Quoted To:

CITY OF SURPRISE
ACCOUNTS PAYABLE
16000 N. CIVIC CENTER PLAZA
SURPRISE, AZ 85374

Customer ID	Good Thru	Payment Terms	Sales Rep
SURPRISE	9/18/20	Net 10 Days	JK

Quantity	Item	Description	Unit Price	Amount
1.00	SCH-A7000	SCHWARZE A7000 TORNADO-AIR SWEEPER BODY POWERED BY A 130HP CUMMINS TIER IV AUXILLARY ENGINE MOUNTED ON A PETERBILT 220 CHASSIS SEE ATTACHED BUILD SHEET FOR DETAILED SPECIFICATIONS	222,128.00	222,128.00
			Subtotal	222,128.00
			Sales Tax	18,469.53
			Freight	4,000.00
			TOTAL	**244,597.53**

A7 Tornado TIER IV

ELECTRONIC BUILD SHEET

Purchase Order Number	Special Option Request
	Customer Supplied Chassis

SOLD TO: Dealership Name		CUSTOMER NAME	
Balar Equipment		City of Surprise	
Address:		Address:	
Contact Name:	Jim Kries	Contact Name:	Jacob Moreno
Contact Phone:	602-722-0131	Contact Phone:	623-222-6232

A7 TORNADO STANDARD EQUIPMENT (with power module selection)

SWEEPER ENGINE	PICKUP HEAD
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice
Fuel water seperator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose
3-point safety engine shutdown device	Sweeps-in-Reverse
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
90 amp alternator	
2 year warranty on Aux Engine	**DUST CONTROL SYSTEM**
HYDRAULIC SYSTEM	Twin Electric diaphragm water pumps with inlet restriction
25 gallon vented hydraulic reservoir, w/shut-off valves	60 PSI, 6.0 gpm
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper
DUST SEPERATOR	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq in door	Two nozzles in suction tube, two at front axle
HOPPER	An air purge system for flushing water lines
Mild Steel, 8.4 CuYd, 7 CuYd usable Capacity	**OPERATING CONTROLS AND INSTRUMENTS**
Screens - 5615 square inches, saw tooth design	Aux engine control with full color display on console:
Twin dumping cylinders, 51 degrees	Keyed ignition, electronic throttle, leaf bleeder
Rear door hydraulically opened, closed and locked	Oil pressure gauge, water temperature gauge
Dual 20" X 32" watertight inspection doors, 1 left, 1 right	Voltmeter, tachometer, and hour meter
External weatherproof dump switches	Diagnostic gauge for Aux Engine, overweight warning.
Shroud enclosing the auxiliary engine	Selectable sweep or lift in reverse, system standby, in-cab tilt,
BLOWER	variable speed brooms. All other STD sweeper function switches to
Closed face turbine 10 curved blades, 32.75" dia. by 5" wide	Included for standard and options selected
500 brinell hardness abrasion resistant steel	Swiveling console for left or right sweeping
Fully balanced within 1.5 grams on both sides	**SAFETY EQUIPMENT**
Vacuum enhancer, w/indicator in cab	Two body props to lock hopper in raised position
Remote grease lines for fan bearing	Rear Amber LED Strobe With Guard
SWEEPER WARRANTY	2 rear yellow alternating LED flashing lights
12 Months 1200 Hours	Slow moving vehicle emblem, backup alarm,
	5-lb fire extinguisher, and a warning triangle kit.

QTY	DESCRIPTION		PRICE
	POWER MODULE OPTIONS		**SIA7T**
	134HP John Deere Tier IVF		
1	130HP Cummins Tier IVF		
	Subtotal Auxiliary Engine Options		
	SWEEPING HEAD OPTIONS		
1	Standard w/rubber blast orifice	204L13	
	Sweep Head Deluge	204H52	
	Side Blast Head	204S00	
	Subtotal Sweeping Head Options		

	GUTTER BROOM OPTIONS		
1	Gutter Broom, Dual W/Power Tilt	203W42	
1	Gutter Broom, GEO Dual	203M91	
	Gutter Broom, RH W/Power Tilt	203X27	
	Gutter Broom, GEO RH	203M89	
	Gutter Broom, GEO LH	203M90	
	Gutter Broom, Poly Segments, each	203662	
	Gutter Broom,In-Cab Down Pressure	204H70	
1	**Standby, Full w/Throttle Ramp**	**204B08**	
1	**Variable Speed Gutter Broom(S)**	**203V60**	
	Subtotal Gutter Broom Options		
	MISCELLANEOUS OPTIONS		
	Manual, Sweeper, Additional Copy (Paper)	203689	
	Automatic Lubrication System Vogel	203842	
	Auto Lube Sys.Vogel Sweeper Only	203G87	
	Auto Lube, NLG2 Sweeper Only	204Q70	
1	10 point remote grease manifold	204N30	
1	**Camera System, Single**	**203X81**	
	Camera System, Dual (Must list location of 2nd camera in notes)	203X82	
	Camera System, Three (Must list location of 2nd & 3rd camera in notes)	203Z99	
	Camera System, Four w/ Split Screen (Location of camera 2, 3, 4 in notes)	204P54	
	Alarm, Smart Backup, 97db-107db	204P76	
	Work Deck With Railings (Not Compatable with 350 Gallon Water Tank)	204Q05	
	Leak Detection Kit	204R11	
	Subtotal Miscellaneous Options		
	WATER SYSTEM OPTIONS		
1	**Water Tank, Standard 250G or**	**204L11**	
1	Water Tank, W/ Add. 350G*	204W62	
	Water Tank Sight Gauge side of tank	203Q24	
1	**Water Tank Low Level Alarm & Ind.**	**203676**	
1	Spray Bar, Front	203680	
1	Spray Bar, Hopper Add. 4 Nozzles	203681	
	Spray Bar, Hopper Add. 7 Nozzles	203939	
	High Pressure Washdown Wand W/ Pump		
	High Pressure Washdown W/ 50' Hose Reel		
	Additional 100 Gallon Rear Water Tank	204Q63	
	Pressure Side Water Injector	204P87	
	Subtotal Water System Options		
	HOPPER OPTIONS		
1	**Hopper, Standard (8.4 CuYd)**	**204K16**	
	Hopper, W/ Remote DD Screens		
	Auto Drop Down Screens (All Hoppers)	204L38	
1	**Hopper Drain - None or**	**203G45**	
	Hopper Drain 6" (SS)	203C35	
	Dual Hopper Drain, 6" (SS)	204K28	
	Hopper Sound Suppression	203640	
	Hopper Dump Assist Shaker	204R41	
1	**Hand Hose- None**	**203G46**	
	Hand Hose, 8" Spring Boom (Remote Engine Throttle Included)	203O66	
	Hand Hose, 8" Power Boom (Remote Engine Throttle Included)	204K56	
	Hand Hose, 8" Power Boom HD (Remote Engine Throttle Included)	204K65	
	Pendant Control for Power Boom	204N45	
	Hand Hose Extension 4 Feet Long Rear Mount		
	Hand Hose Extension 4 Feet Long Front Bumper Mount		
	Hand Hose Water Nozzle	204K97	

	Rear Bumper Stow & Go - Rear Tube Holder	204W85	
1	**Hopper Deluge- None**	**204H59**	
	Hopper Deluge, Conical Spray	203B77	
	Hopper Deluge, 4 Nozzle, Conical Spray	204G28	
1	**Load Weight Alarm & Indicator**		
1	**Hopper Up Alarm & Indicator**		
1	**Hopper Aux. Engine Screen Cover**		
1	**Hopper Door Open Indicator**		
	Hopper Dump Switches Exterior Right Side Only (In Lieu of Standard Left)	204S03	
	Hopper Dump Switches Exterior , Both Sides	205S03	
	Hopper,High Strength Stainless Steel ***~LIFETIME WARRANTY~***	204L98	
	Hopper W/ Remote DD Screens High Strength Stainless Steel ~LIFETIME WARRANTY~	204P65	
	Hopper, 304 Stainless Steel ***~LIFETIME WARRANTY~***	204F45	
	Hopper W/ Remote DD Screens (304 SS) ***~LIFETIME WARRANTY~***		
	Subtotal Hopper Options		
	AUXILIARY ENGINE OPTIONS		
	Block Heater, Aux Engine	203060	
	Hydraulic Filter RestrictionAlarm&Ind	204M04	
1	**Low Hydraulic Level Indicator In-Cab**		
	Air Filter Restriction Indicator (In-Cab)	203064	
	Subtotal Auxiliary Engine Options		
	REAR LIGHTING OPTIONS		
1	**Strobe, Rear W/Guard LED (Std) 1 ea or**	**203Y67**	
	Strobe, Rear LED 1 each or	**20Z271**	
	Strobe, Dual Rear LED	203Z73	
	Strobe, Dual Rear W/Guard LED	203Z74	
	Arrowboard, Traffic Guide	203685	
1	Arrowboard, Traffic Guide, LED	204C21	
	Barlight, Rear LED	203U22	
	Barlight, Rear W/Guard LED	203U21	
	Floodlight, LED	203V45	
	CAB LIGHTING OPTIONS		
	Strobe, Cab Cabover LED		
	Strobe, Cab Conventional LED	204B50	
	Strobe, Cab W/Guard Cabover LED	203Y95	
	Strobe, Cab W/Guard Conventional LED	204B51	
	Barlight, Cab Conventional LED	204T22	
	Barlight, Cab W/Guard, Conventional,LED	204B10	
	Barlight, Cab Cabover LED		
	Barlight, Cab W/Guard, Cabover LED		
	Subtotal Lighting Options		
	SPECIAL PAINT OPTIONS		
1	**Paint, Standard**	**204F67**	
	Paint, Special: Sweeper Unit Only	203N66	
	Paint, Special: Chassis Only	203N67	
	Enter DuPont Imron Paint Code Below: Special Paint Color: _____ Special Paint Code: _____		
1	**Decal Kit**	**204E41**	
	Subtotal Special Paint		

	CHASSIS MOUNTING OPTIONS		
	FL M2 33K, 184" 200HP DS 2500 '20 *(includes Air Dryer, Air Seat & Air Horn)*	67994	
	FL M2 33K, 164" 200HP DS 2500 '19 *(includes Air Dryer, Air Seat & Air Horn)*	68007	
	IH 4300 200HP Cummins Dual Steer '20 (Custom Order)	Call Factory	
1	Peterbilt 220 33K 220HP RH Steer '20 *(includes Air Dryer & Air Seat)*	68017	
	Peterbilt 220 33K 220HP Dual Steer '20 *(includes Air Dryer & Air Seat)*		
	CUSTOMER SUPPLIED CHASSIS		
	Customer Chassis Mounting Fee	00888162	

Customer supplied chassis specs must be approved by Schwarze Product Management prior to quoting end user

Final Chassis Specs must be submitted and signed off by Product Management at the time of submitting purchase order to Schwarze

CHASSIS DELIVERY DATE TO SCHWARZE	CHASSIS DEALER CONTACT NAME
CHASSIS DEALERSHIP NAME	**CHASSIS DEALER CONTACT NUMBER**

	TRUCK KIT OPTIONS- MUST PICK 1		
	IH 4300 ~ Under cab exhaust	204Q14	
	Freightliner M2 (184") ~ Under cab exhaust	204Q13	
	Freightliner M2 (164") ~ Between Rail Exhaust	204W62	
	Autocar Xpert ~ Behind cab exhaust	204Q15	
1	Peterbilt 220 ~ Behind cab exhaust	204Q16	
	Kenworth K370 ~ Behind cab exhaust	204Q17	
	M2 CHASSIS OPTIONS		
	Mirror, 12" Parabolic, Set	203616	
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare M2	203468	
	Block Heater	203469	
	Horn, Air M2	203C53	
	Rim, Spare M2	203620	
	Magnet, Bar, 90" FL M2	204A38	
	Magnet, Bar, 87" Self Dumping,FL M2	203X78	
	Subtotal M2 Chassis Options		
	IH CHASSIS OPTIONS		
	Air Dryer, Bendix AD9*	203018	
	Mirror, 12" Parabolic, Set	203616	
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare IH	203476	
	Block Heater, IH 4300	203C83	
	Tow Hooks, IH	203037	
	Rim, Spare IH	203478	
	Magnet, Bar, 90" IH	204A37	
	Magnet, Bar, 87" Self Dumping, IH	204D68	
	Subtotal IH Chassis Options		
	CABOVER CHASSIS OPTIONS		
	Mirror, 12" Parabolic, Set (Autocar Only)	203616	
	Magnet, Bar, 90"		
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare	203X83	
	Horn, Air		
	Gauge, Transmission Temp	203467	
1	Gauge, Hour Meter (Right Hand Only Kenworth/Peterbilt)	66504	
	Magnet, Bar, 87" Self Dumping, Kenworth/Peterbilt	204P03	
	Subtotal Cabover Chassis Options		

QTY	ACTION	SPECIAL OPTIONS REQUEST	Part#	PRICE
		Subtotal Special Options		
		SWEEPER EXTENDED WARRANTIES**		
1	STANDARD- 1 Year or 1200 hours		STD	
	SILVER- 2 Years or 2400 Hours		SILVER	
	GOLD- 3 Years or 3600 Hours		GOLD	
	PLATINUM- 4 Years or 4800 Hours		PLATINUM	
	DIAMOND- 5 Years or 6000 Hours		DIAMOND	
		Subtotal Sweeper Extend Warranties		

***Chassis and auxiliary power are both separate, and need to be purchased through local dealer/distributors*

	FREIGHT OPTIONS		
	LTL Rates will leave carrier yard within 1 week of pickup - Full Truck Rates will leave carrier yard within 24 hours of pickup		
1	Dealer to arrange freight	DEALER	
	Schwarze Arranged **LTL** Freight	LTL	
	Schwarze Arranged **FULL TRUCK** Freight	FULL	

Shipping Terms ~ Check 1 ◉ FOB ~ Huntsville, AL ◯ ExWorks ~ Huntsville, AL

	Payment Terms: Place X in Appropriate Box		**SHIP TO: NAME** *(If different from sold to)*	
	C.O.D			
	Net 10		**Address:**	
	Net 30			
	Irrevocable Letter of Credit		**Contact Name:**	
	Other		**Contact Phone:**	

A7 TORNADO PURCHASE ORDER

Delivery ARO or ARC [ ]

If special chassis is provided, delivery quotation Is After Receipt of Customer Supplied Chassis

Purchase Order Number [ ]

RSM Approval Signature *Date*

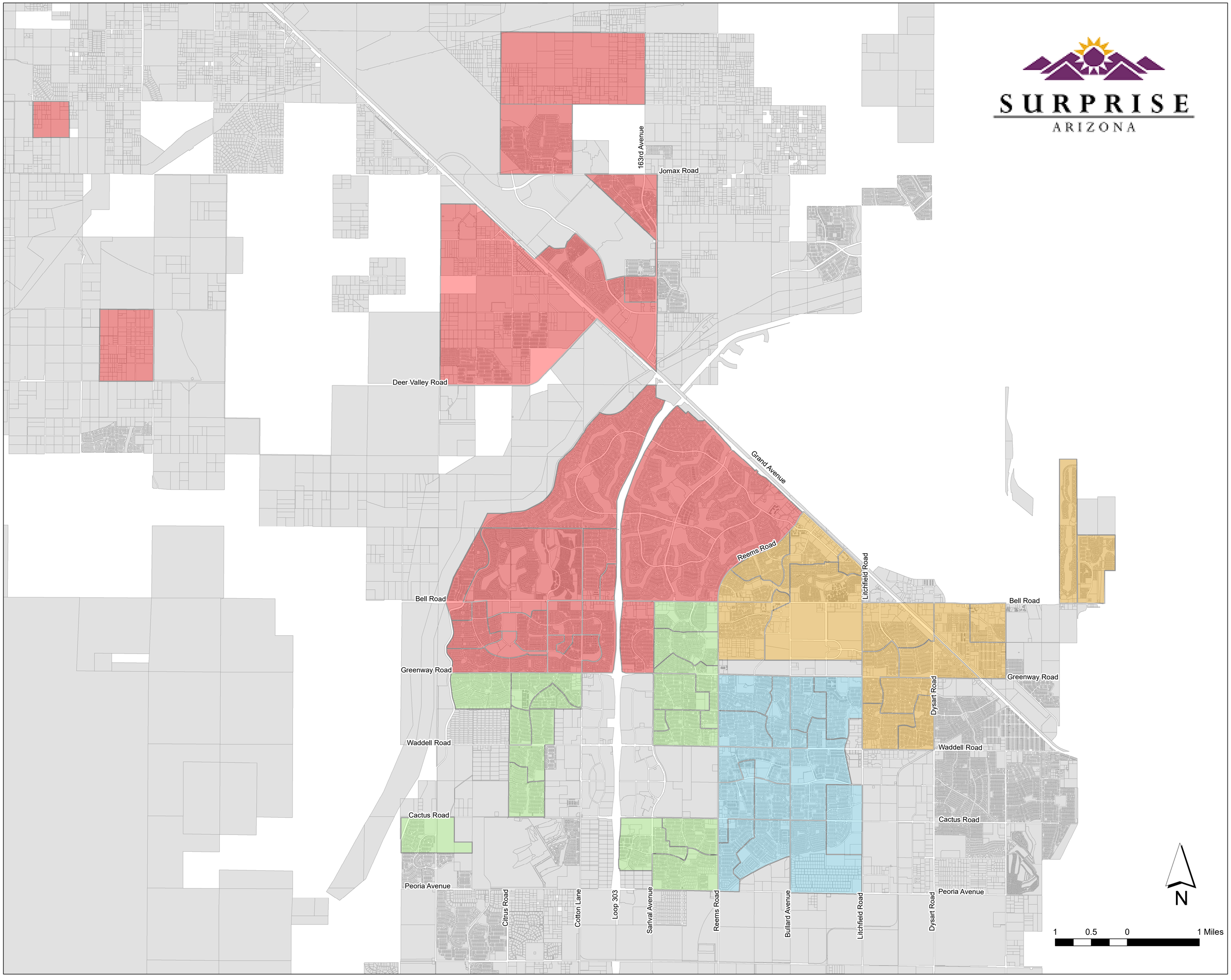
Sales Manager Approval Signature *Date*

Subtotal Unit With Options	
Dealer Discount 20%	
Subtotal After Dealer Discount	
Special Option Requests	
Chassis Price	
Mounting Customer Chassis	
Sweeper Extended Warranty	
Subtotal	
SSA	
Freight	
TOTAL PURCHASE ORDER AMOUNT	

I understand this document is a binding purchase order and is a contract for the purchase of goods. This purchase order can not be amended except in writing by both parties. This agreement constitutes the entire agreement between both parties and there are no other understandings other than those incorporated within.

Authorized Submitting *Date*

Make note of the following: All pricesare subject to change without notice. All pricing is quoted and to be paid in U.S. funds. Payment required before release of MSO. Warranties on chassis and auxiliary engine (if required) are provided by their manufcaturer and are not covered by Schwarze Industries, Inc.. Dealers are responsible for reviewing, and verifying, all quotes prior to submission in regards to the customers' bid requirements. Write-in options are subject to final approval concerning both structure and price by Schwarze Industries, Inc. management. This Electronic Buildsheet (EBS) is a communication tool between Schwarze Industries, Inc. and it's authorized dealer. This EBS is propietary to Schwarze Industries, Inc. and may not be modified or used for any other purpose without the written consent of Schwarze Industries, Inc.


SURPRISE
ARIZONA
163rd Avenue
Jomax Road
Deer Valley Road
Grand Avenue
Reems Road
Litchfield Road
Bell Road
Greenway Road
Dysart Road
Waddell Road
Cactus Road
Peoria Avenue
Citrus Road
Cotton Lane
Loop 303
Sarival Avenue
Bullard Avenue
N
1 0.5 0 1 Miles