

# FY 2020 PM-10 Certified Street Sweeper Application Summary

Name: Avondale PM 10 street sweeper  
 Id: AVN-2020-SW-001  
 Agency: Avondale

This application was signed by Jeremy Abbott on 9/11/2019  
 11465 West Civic Center Drive  
 Avondale, AZ 85323  
 (623) 333-1000

This is a summary of the request submitted for federal Congestion Mitigation and Air Quality (CMAQ) improvement program funding, available through the Maricopa Association of Governments (MAG) for PM-10 certified street sweepers. An estimated \$1,536,506.00 in FY 2020 CMAQ funding is available region wide. All applications are due on Monday, September 16, 2019 by 10:00 AM. Late applications are not accepted.

## Section: Funding Information

*Summary of the estimated costs of the requested sweeper*

Procurement Method	ADOT Procurement
Total Estimated Cost of Sweeper	\$259,967.00
Total Eligible Costs	\$259,967.00
Agency Cash Match	\$20,000.00
Total Agency Share of Costs	\$20,000.00
Federal Share of Costs	\$239,967.00

## Section: 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

## Section: Roadway Types

*The types of roads the requested sweeper will sweep*

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

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## Section: Roadway Type Information

*Details about the types of roads to be swept*

Arterial Sweep Cycle Length (measured in days between sweepings)	15
Arterial Lane Miles to be Swept per Cycle	90
Arterial Average Weekday Traffic per Lane Being Swept	5,778
Collector Sweep Cycle Length (measured in days between sweepings)	15
Collector Lane Miles to be Swept per Cycle	68
Collector Average Weekday Traffic per Lane Being Swept	1,871
Residential Sweep Cycle Length (measured in days between sweepings)	30
Residential Lane Miles to be Swept per Cycle	378
Residential Average Weekday Traffic per Lane Being Swept	255

## Section: 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	7,648
The month and year that the older certified sweeper was put into service	August 2005
Number of miles (including deadhead miles) on the sweeper that is being replaced	60,252
Percent of time older sweeper was out of service	100%
Additional information about out of service percentage	During the sweeper's last use, the main valve block for the sweeper operation was deemed faulty, upon further inspection we determined that the elevator assembly also needed a major overhaul. Total repairs were estimated at approximately \$22,400. At that time it was determined that the city would purchase a new, compliant sweeper rather than invest so much money repairing an 11 year old sweeper, that has had an accumulative total maintenance lifetime cost exceeding \$301,000.

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## Section: 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?	No
Names of PM-10 monitors within 4 miles of sweeping route	

## Section: 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	The City of Avondale's repair shop has maintained Sweepers for the past 20 years. We currently stock parts to maintain chassis and sweeper operations.

## Section: Geographical Area

*Information about the geographical area that the sweeper will operate in*

Geographical area that the requested street sweeper will operate	North: Indian School Road to South: Broadway Road (planned) East: 99th Ave and 107th Ave to West: Dysart Rd. and Litchfield Rd. as per the City of Avondale boundaries. we have 4 rather large subdivisions that are planned to develop during the proposed sweepers life cycle illustrated in the map below as "Planned subdivision" numbers #154-Alamar- 3,695 homes, #155- Del Rio Ranch Phase 3- 491 homes, #161 Roosevelt Park Phase 2- 607 homes, and #163- Vista Del Verde- 379 homes. The addition of these homes will dramatically increase our lane traffic, especially in the larger, southern subdivisions.
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## Section: 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	3
Number of Noncertified Sweepers Operated by Agency	0

# Norwood Equipment

511 E Mohave Phoenix AZ 85004



**Presents a Proposal Summary**

of the



## **Crosswind 1**

Crosswind 1 Regenerative Air Street Sweeper with Single Engine

for

**City of Avondale**  
**395 E Lower Buckeye Rd**  
**Avondale, AZ 85323**

## **PRODUCT DESCRIPTION**

· Equipped with Memory Sweep;8.0 cu. Yd. Hopper, right and left side brooms, sweeper is powder coated from powder coatings chart 2003/N with powder coated gray undercarriage.

## **STANDARD FEATURES**

- Alternator, 95 amp
- Backup Alarm, electric
- Blower, 20,000 CFM rating with linatex lined housing
- Brooms, hydraulic rotation
- Brooms, Dual with side broom lights for night operation
- Broom Measurement Ruler
- Camera, rear mounted
- Console, w/rocker switches for all sweep functions, including memory sweep with full gauge package including tachometer, engine hour meter, oil pressure indicator, coolant temperature, voltmeter and fuel lever indicator, water level gauge and warning lights for hopper pressure controls and manual reset circuit breakers
- Doors, access fiberglass doors provide easy service and maintenance on auxiliary engine, hydraulic and electrical system
- Electronic Throttle, sweep resume/sweep transport/reverse pick-up
- Hopper rear door, hydraulically opened/closed and locked /unlocked with external controls.
- Hose, hydrant fill, 16' 8" with coupling
- In-Cab Hopper Dump
- LED Clearance Lights
- Lights, rear clearance and rear identification
- Manuals, operator and parts
- Mirrors, West Coast type with 8" convex inserts, one each side
- Pick-up head, hydraulically operated, 14 (355 mm) outside diameter pressure hose, 12-3/4 (324mm) inside diameter suction hose with quick disconnect on suction side
- Spray nozzles, sixteen (16), seven (7) in the pick-up head, three (3) in the suction nozzle, three (3) at each side broom
- Side Broom Outer Position Stop
- Trans Oil Cooler
- Vacuum enhancer, in-cab operated
- Water tank, molded polyethylene, 240 gallons (907L)
- Water pre-filter, hydrant fill hose
- AM/FM/CD Radio
- Left Hand Fender Mirror
- Right and Left Hand Heated and Remote-Controlled Mirrors
- Sweeper Painted Standard White
- Chassis Painted Standard White
- Red Logo
- 1 Year Parts and Labor Warranty
- Sweeper - Operator Manual
- Sweeper Parts Manual

## ADDITIONAL FEATURES

- 2020 M2 Dual Steer
- PM-10 Complaint
- Memory Sweep
- Side broom Tilt Option Right Hand
- Side broom Tilt Option Left Hand
- Lifeliner Hopper System
- Right Hand Inspection Door with Step and Handle
- Hydraulic Heavy-Duty Wandering Hose
- Front Spray Bar
- Cab & Rear LED Strobe with LED Arrow stick
- Dual LED Side broom Lights
- Individual Switches for Dual Side broom Lights-Led
- Slow Moving Vehicle Sign

Crosswind Regenerative Air Street Sweeper with Single Engine \$239,381.00

State and local sales tax \$20,586.00

**Delivered to City of Avondale \$259,967.00**

Price valid for 90 Days from date of 8/29/2019

Product Model: CROSSWIND 1

Product Model: CROSSWIND 1

Proposal Date: 8/29/2019

Quote Number: 2019-32925

Price List Date: 8/29/2019

P.O. Number:

Payment Terms:

Proposal Notes:

1. Multiple unit orders will be identical to signed proposal. Changes or deviations to any unit of a multiple unit order will require a new signed proposal.
2. Chassis specifications and data codes for customer supplied chassis must be submitted to and approved by Elgin Sweeper Company prior to submittal of customer purchase order
3. All prices quoted are in US Dollars unless otherwise noted.

SIGNED BY:

\_\_\_\_\_ Date: \_\_\_\_\_

## LIMITED WARRANTY

ELGIN SWEEPER COMPANY warrants each new machine manufactured by it against defects in material and workmanship provided the machine is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of twelve (12) months from the date of delivery to the original user-purchaser.

ELGIN SWEEPER COMPANY will cause to be repaired or replaced, as the Company, may elect, any part or part of such machine which the Company's examination discloses to be defective in material or workmanship.

Repairs or replacements are to be made at the selling Elgin distributor's location or at other locations approved by ELGIN SWEEPER COMPANY.

The ELGIN SWEEPER COMPANY warranty shall not apply to:

1. Major components or trade accessories such as but not limited to, trucks, engines, tires or batteries that have a separate warranty by the original manufacturer.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as but not limited to, broom filters, broom wire, shoe runners and rubber deflectors.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by ELGIN SWEEPER COMPANY.
5. Repairs, modifications or alterations without the consent of ELGIN SWEEPER COMPANY which, in the Company's sole judgment, have adversely affected the machine's stability or reliability.
6. Items subjected to misuse, negligence, accident or improper maintenance.

The use in the product of any part other than parts approved by ELGIN SWEEPER COMPANY may invalidate this warranty. ELGIN SWEEPER COMPANY reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty.

Nothing contained in this warranty shall make ELGIN SWEEPER COMPANY liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

**TO THE EXTENT LIMITED BY LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

This warranty is also in lieu of all other obligations or liabilities on the part of ELGIN SWEEPER COMPANY, including but not limited to, liability for incidental and consequential damages on the part of the Company or the seller.

ELGIN SWEEPER COMPANY makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine.

No person or affiliated company representative is authorized to give any other warranties or to assume any other liability on behalf of ELGIN SWEEPER COMPANY in connection with the sale, servicing or repair of any machine manufactured by the Company.

ELGIN SWEEPER COMPANY reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.



# A B C D E

# 1

# 2

# 3

# 4

# 5

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# 7

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# 9

# 10

## Single-Family Residential Complete

Map ID	Grid ID	Name	Units Built
100	E2	Avalon Estates	15
101	C6	Cambridge Estates	564
102	C6	Coldwater Ridge	187
103	B5, C5	Coldwater Springs	1887
104	B2	Corte Sierra	785
105	D3	Crystal Gardens	904
106	D3	Crystal Park Estates	50
107	D3	Crystal Point	281
108	D3	Crystal Ridge	129
109	C6	Del Rio Ranch Phase 1 and 2	760
110	C4	Desert Springs Village	186
111	B6	Diamond Ridge	210
112	D3	Donatela I	147
113	C3	Donatela II	204
114	D6	Durango Park	552
115	A2	Dysart Ranch	293
116	D6	Fieldcrest	279
117	A2	Fulton Estates	286
118	C2, D2	Garden Lakes	700
119	C3	Garden Park	164
120	C3	Garden Trails	144
121	E2	Glenarm Farms	150
122	C5	Glenhurst	469
123	E3	Harbor Shores	470
124	B7	Hillcrest Village	37
125	B2	Las Palmeras	268
126	A6	Litchfield Mountain View	147
127	D6	Littleton Manor	118
128	E3	Los Arbolitos	309
129	C3	Palm Gardens	142
130	C3	Palm Meadows	183
131	E3	Pecan Groves	62
132	B3, C3	Rancho Santa Fe	1999
133	B7	Regal at Rio Vista Estates	52
134	B1	Rio Crossing	345
135	B6	Rio Vista	300
136	D5	Roosevelt Park	481
137	B2	Sage Creek	425
138	D6	Sanctuary	562
139	D6	Sanctuary	562
140	D5	Starlight Trail	442
141	D8	Tierra Ranchettes	83
142	B6	Tres Rios Landing	254
143	D3	Upland Park	331
144	D4	Waterford Square	217
145	E2	Westwind	534
146	A6	Whyman Haciendas	32

## Partially Complete/Inactive

Map ID	Grid ID	Name	Total Units	Units Built
147	D3	Oak Park	104	4
148	B6	Village at Tres Rios	104	53

## Under Construction

Map ID	Grid ID	Name	Total Units	Units Built
149	C7	Cantada Ranch	251	243
150	D6	Cashion	-	-
151	A5, A6	Historic Avondale	-	-
152	B7	Las Ligas	-	-
153	D3	San Villaggio	34	14

## Planned

Map ID	Grid ID	Name	Total Units	Units Built
154	B7, B8, C7, C8	Alamar	3695	0
155	B6	Del Rio Ranch Phase III	491	0
156	D7	Entrada	TBD	0
157	C7	Hermosa Ranch	589	0
158	A6	Marbella Park	60	0
159	E2	Parkside Village	412	0
160	C3	River Run	TBD	0
161	D4	Roosevelt Park Phase II	607	0
162	D7, D8	Verde Trails	858	0
163	D5	Vista Del Verde	379	0

## Multi-Family Residential Complete

Map ID	Grid ID	Name	Units Built
200	C4	Ashton Pointe Luxury Apartments	314
201	E3	Avalon Apartments	400
202	E3	Aventura Apartments	408
203	D6	Avondale Senior Village	41
204	D6	Avondale Senior Village	41
205	A5	Casa Loma Townhomes	140
206	C5	Coldwater Springs Apartments I	251
207	C5	Coldwater Springs Apartments II	301
208	C4	Crystal Springs Apartments	400
209	A6	Desert Hills Apartments	16
210	A6	Edgewater Apartments	196
211	A6	Housing Authority of Maricopa County	49
212	A5	Las Casitas Patio Homes	168
213	A5	Madison Heights Apartments	143
214	B2	Mirabella Apartment Homes	369
215	A5	Mountain View Apartments	150
216	B5	Newport Apartments	204
217	E3	Oceana Apartments	240
218	A5	Parkside Apartments	54
219	B4	Rio Santa Fe Apartments	336
220	A6	Rose Terrace Apartments	120
221	B6	Sedona Peaks Apartments	96
222	B6	Siesta Pointe Apartments	104
223	D4	Versante Apartment Homes	336
224	A5	West Hill Apartments	14

## Planned

Map ID	Grid ID	Name	Total Units	Units Built
225	C3	Encanto Townhomes	116	0
226	B1	Rio Bonita Townhomes	226	0

## Education

Map ID	Grid ID	Name
400	A5	Avondale Junior High
401	C3	Canyon Breeze Elementary
402	C5	Collier Elementary
403	B2	Corte Sierra Elementary
404	C6	Estrella Vista Elementary
405	D2	Garden Lakes Elementary
406	B5	Imagine Charter
407	A5	Lattie Coor Elementary
408	B4	Legacy Traditional
409	C6	Littleton Elementary
410	D6	Littleton Elm. School Office
411	A6	Michael Anderson Elementary
412	D3	Pendergast District Property
413	D6	Quentin Elementary
414	B3	Rancho Santa Fe Elementary
415	E3	Rio Vista Elementary
416	A2	St. Thomas Aquinas Grade School

Map ID	Grid ID	Name
500	A5	Agua Fria High School
501	A2	Arizona Agribusiness & Equine Center
502	B5	Cyber High School
503	A5	Estrella Charter High School
504	A2	Estrella Mountain Community College
505	C6	La Joya High School
506	A5	Rio Salado College
507	A2	St. John Paul High School
508	E4	Universal Technical Institute (UTI)
509	C3	West Point High School
510	D2	Westview High School

## Avondale Development Progress

- Avondale Planning Boundary
- Single-Family Residential
- Multi-Family Residential
- Commercial
- Industrial
- School
- City Facility
- Open Space

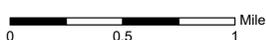
July 1, 2018 Population Estimate = 82,605 Residents

Source: Arizona Office of Economic Opportunity

### Disclaimer:

This map should be used as a general reference for informational purposes only and does not constitute a legal document for the description of these properties. While every effort has been made to ensure the accuracy of this data, the City of Avondale makes no warranties, either explicit or implied, regarding its use.

Map Updated 5/15/2019 by Geospatial Services Division of Information Technology



## Commercial/Industrial

### Complete

Map ID	Grid ID	Name
300	B3	Alameda Crossing
301	B4	Avondale Commerce Center
302	D6	Avondale Fiesta Plaza
303	A5	Bridgewater Assisted Living
304	B4	Coldwater Depot
305	B4	Coldwater Plaza
306	A2	Coldwater Station
307	E4	Gateway Crossing
308	E4	Gateway Village
309	C10	ISM Raceway
310	B4	Palmilla Shopping Center

### Partially Complete

Map ID	Grid ID	Name
311	E4	Avondale Automall
312	C5	Coldwater Springs Promenade
313	E3	Copper Springs/107th & McDowell
314	B2	Dysart Commons
315	E3	Gateway Pavilions
316	E4	Park 10
317	D3	Phoenix Children's Hospital

### Under Construction

Map ID	Grid ID	Name
318	D4	AKOS Medical Campus
319	D4	City Center East
320	D4	Residence Inn by Marriott

### Planned

Map ID	Grid ID	Name
321	B5	Avondale Recycling Expansion
322	B2	Black Rock Coffee
323	C4	City Center West
324	E4	Home 2 Suites by Hilton
325	A2	JG DC Chiropractic
326	A5	Loving Care Day Care Multi-purpose Building
327	D4	My Place Hotel
328	C3	Rexco Mini Storage
329	A6	Self Storage/RV Storage Facility
330	E3	Virtua 99