Name: FY2021 Buckeye Sweeper Grant 2
Id: BKY-21-SW-002
Agency: Buckeye

This application was signed by Paul Lopez on 9/8/2020
530 E. Monroe Ave.
Buckeye, AZ 85326
(623) 349-6000

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)	13
Arterial Lane Miles to be Swept per Cycle	5
Arterial Average Weekday Traffic per Lane Being Swept	7,344
Collector Sweep Cycle Length (measured in days between sweepings)	13
Collector Lane Miles to be Swept per Cycle	29
Collector Average Weekday Traffic per Lane Being Swept	2,271
Residential Sweep Cycle Length (measured in days between sweepings)	13
Residential Lane Miles to be Swept per Cycle	149
Residential Average Weekday Traffic per Lane Being Swept	931

Name: FY2021 Buckeye Sweeper Grant 2
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Agency: Buckeye

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 Buckeye already has a dedicated Operator and Mechanic in place to support the PM-10 certified street sweeper. The Sweeper Operator was budgeted in FY2020 for $66,805, the dedicated Sweeper Mechanic at Fleet Maintenance has been employed for years.

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	6
Number of Noncertified Sweepers Operated by Agency	0

Geographical Area

Information about the geographical area that the sweeper will operate in

Geographical area that the requested street sweeper will operate	Citywide

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	Buckeye

Name: FY2021 Buckeye Sweeper Grant 2
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Agency: Buckeye

Sweeper Purpose

What the requested sweeper will be used for

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

Funding Information

Summary of the estimated costs of the requested sweeper

Procurement Method	ADOT Procurement
Total Estimated Cost of Sweeper	$295,705.69
Total Eligible Costs	$282,753.64
Ineligible Costs	$12,952.05
Agency Cash Match	$16,116.96
Total Agency Share of Costs	$29,069.01
Federal Share of Costs	$266,636.68

Expand Service Areas

The previously unswept lane miles to be swept by the new sweeper

Expand Collector Lane Miles	1
Expand Residential Lane Miles	16

Replace a PM-10 Certified Street Sweeper

Additional information about the sweeper being replaced

Additional information about out of service percentage	

BUCKEYE, AZ

Background:

The City of Buckeye will be requesting two sweepers this FY2021 using the Maricopa Association of Governments (MAG) online grant application process.

Sweepers acquired by grant awards which are currently in the fleet were granted under the option of replacing of an older certified sweeper. We will not be qualified to use this type of replacement option for many years to come.

Presently we can only use the "expand service area" option. The justification for retaining these older sweepers acquired with grant awards follows.

Justification:

The justifications for requesting two sweepers while still retaining older certified street sweepers from CMAQ funds can be categorized as follows:

1. Aging Sweeper Fleet
2. PM-10
3. Operator Personnel
4. Lane Miles Swept
5. Population Growth

Aging Sweeper Fleet:

The useful life cycle of a certified street sweeper is 8 years. The City of Buckeye sweeper fleet currently consists of 6 certified sweepers with an average age of 8.3 years. There is only one dedicated back-up sweeper, which is 15 years old.

In August, 2020 the backup sweeper underwent critical repairs at a cost exceeding $17,000. It is currently back in the shop again for more necessary repairs. The next two oldest sweepers are 13 and 10 years old, well beyond the recommended useful life cycle of 8 years for a street sweeper. These also have ever-increasing maintenance costs and down time for repairs, resulting in routes not being swept.

This summer the two oldest sweepers were down for over an entire month each due to maintenance related issues. However, no matter how far beyond the useful life cycle, we are forced to retain these units in order to complete our routes. Additionally, with only one dedicated back up sweeper having so many mechanical issues we don't often have a backup sweeper at all, resulting in routes not getting swept when the other sweepers go down.

PM-10:

As articulated above, Buckeye is operating several sweepers well beyond the recommended useful life cycles out of necessity in order to meet the city's needs with constantly expanding routes.

Retaining these older Street sweepers reduces our PM-10 efficiency making it difficult to meet the testing and performance standards set forth in the SCAQMD Rule 1186.

We believe that can we significantly improve our compliance with PM-10 standards and local air quality by finally retiring these older grant-awarded sweepers, returning them to MAG, and replacing them with new sweepers which meet or exceed SCAQMD Rule 1186 for PM-10.

Operator Personnel:

With 5 dedicated sweeper operators and only one 15 year old backup sweeper we are falling behind on sweeping the streets. We are unable to complete our routes according to schedule due to multiple older sweepers being down for repairs at the same time. This creates particular challenges during certain times when additional work is required on top of our normal routes, such as after heavy monsoon rains.

In the year 2006 Buckeye had two sweepers and two operators, one of those being only a part-time sweeper operator. Today we have 5 sweeper operators which has required us to retain older certified sweepers as they age in order to meet the demands of the city.

It has been a challenge to maintain all the new miles coming into our inventory each year with such an aged fleet.

Lane Miles Swept:

In 2007 our inventory of streets swept totaled 236 lane miles. Our current inventory of streets swept totals 824 lane miles, a 249% increase since 2007.

Before the end of FY2021 we are projected to have an estimated 844 lane miles in our inventory. This represents a 258% increase since 2007. With our lane miles increasing at such a fast rate we are forced to hold onto the old sweepers in order to sweep all of the new roads in our inventory.

Population growth:

The population of the City of Buckeye in FY2007 was 31,290. As of August 10 2020 we were at 91,000. The projection for December 2020 is 95,000.

We are on track for a 201% population growth since FY2007, making Buckeye one of the fastest growing cities in the United States.

BUCKEYE, AZ

Dean

The AM/FM Radio with hands free cell phone Blue Tooth item is not currently listed on the examples of additional street sweeper equipment not eligible for reimbursement. I'm requesting this item quality for eligibility for MAG reimbursement so our CDL sweeper operators can use their city issued cell phones while driving and sweeping, this allows them to safely communicate when needed for daily emergency and no emergency response situations.

The Blue tooth radio option will comply with both Federal and State laws, Bluetooth radio will meet the requirements of Arizona H.B. 2318 which falls under *ARS Section 28-914.*

Bluetooth radio will also comply with the strict requirements of ADOT under the code of federal regulations below for CDL drivers of Sweepers.

§392.82 Using a hand-held mobile telephone.

(a)(1) No driver shall use a hand-held mobile telephone while driving a CMV.

(2) No motor carrier shall allow or require its drivers to use a hand-held mobile telephone while driving a CMV.

(b) *Definitions.* For the purpose of this section only, *driving* means operating a commercial motor vehicle on a highway, including while temporarily stationary because of traffic, a traffic control device, or other momentary delays. Driving does not include operating a commercial motor vehicle when the driver has moved the vehicle to the side of, or off, a highway and has halted in a location where the vehicle can safely remain stationary.

(c) *Emergency exception.* Using a hand-held mobile telephone is permissible by drivers of a CMV when necessary to communicate with law enforcement officials or other emergency services.

[76 FR 75487, Dec. 2, 2011]

Thanks for understanding the need for safe communications while driving these CDL trucks..

Jim Sandstrom
Foreman, Street Sweeping Operations
City of Buckeye Public Works Department
23454 W MC 85, Buckeye AZ 85326
C: 623-693-6995 F: 623-349-5825 jsandstrom@buckeyeaz.gov
Monday – Thursday 7:00 A.M. – 6:00 P.M.

BUCKEYE, AZ

FY2021

HGACBuy	CONTRACT PRICING WORKSHEET For MOTOR VEHICLES Only	Contract No.:	SW04-20	Date Prepared:	8/31/2020

This Worksheet is prepared by Contractor and given to End User. If a PO is issued, both documents MUST be faxed to H-GAC @ 713-993-4548. Therefore please type or print legibly.

Buying Agency:	City of Buckeye, AZ	Contractor:	TYMCO, Inc. (ISSUE P.O. TO TYMCO, Inc.-email below)
Contact Person:	Jim Sandstrom, Street Sweeping Operations	Prepared By:	Kaye Morgan
Phone:	623-693-6995	Phone:	254-799-5546
Fax:		Fax:	254-799-2722
Email:	jsandstrom@buckeyeaz.gov	Email:	kaye.morgan@tymco.com

Product Code:	B53	Description:	TYMCO Model 600 Regenerative Air Sweeper

A. Product Item Base Unit Price Per Contractor's H-GAC Contract: $ 138,000.00

B. Published Options - Itemize below - Attach additional sheet(s) if necessary - Include Option Code in description if

Description	Cost	Description	Cost
A.O.D. Washdown System 600004	$ 2,050.00	Gutter Broom Tilt Adjuster - Left/Right 600022	$ 1,700.00
Auxiliary Hydraulic System 600053	$ 1,130.00	Abrasion Protection Package 600036	$ 1,275.00
Pick-Up Head Pressure Inlet Water Injection Sys 60006	$ 1,830.00	Pick-Up Head Curtain Lifter 600087	$ 1,605.00
Traffic Directing Light - LED 600823	$ 1,200.00	Broom Assist Pick-Up Head 600064	$ 4,350.00
Auto Sweep Interrupt w/Overspeed Interrupt 600079	$ 1,025.00	2020 Freightliner M2-106 Chassis 600706	$ 85,000.00
Hopper Suction Throat Liner w/Wear Flange 600011	$ 1,525.00	COMDEX Package 600021	$ 4,900.00
		AWTI Camera/Monitor System - Rear	$ 1,530.00
High Capacity Dust Separator is standard on HGAC			
contract			
		Subtotal From Additional Sheet(s):	
		Subtotal B:	$ 109,120.00

C. Unpublished Options - Itemize below / attach additional sheet(s) if necessary.

Description	Cost	Description	Cost
Water Tank Level Gauge in Cab	$ 600.00	Amber Beacon Light - LED - Additional	$ 350.00
Skid Bumper Extension Set (2)	$ 250.00	Additional Nozzle w/Separate Switch - Hopper	$ 400.00
Low Emission Package	$ 2,000.00	Dump Switch in Cab	$ 200.00
Hazard Reflectors	$ 100.00	Fire Extinguisher	$ 100.00
Air Horn	$ 500.00	2021 Freightliner M2-106 2 Speed Chassis UPGRADE	$ 2,750.00
Inside Arm Rests (2)	$ 400.00	Blue Tooth Radio System	$ 1,200.00
Front Bumper Spray Bar	$ 600.00	Red Dot Roof Mount Air Conditioner	$ 6,050.00
		Subtotal From Additional Sheet(s):	
		Subtotal C:	$ 15,500.00

Check: Total cost of Unpublished Options (C) cannot exceed 25% of the total of the Base Unit Price plus Published Options (A+B). **For this transaction the percentage is:** 6%

D. Total Cost Before Any Applicable Trade-In / Other Allowances / Discounts (A+B+C) $ 262,620.00

Quantity Ordered: 1 X **Subtotal of A + B + C:** $ 262,620.00 = **Subtotal D:** $ 262,620.00

F. Trade-Ins / Other Allowances / Special Discounts / Freight / Installation

Description	Cost	Description	Cost
Freight/PDI/Inservice	$ 2,750.00	Ext Warr - Basic Vehicle 5 years/150K miles	$ 2,800.00
AZ Sales Tax (9.3%)	$ 25,160.69		
Ext Warr - Engine/After Treatment 5 yrs/150K miles	$ 1,625.00		
Ext Warr - Allison Transmission 5 yrs/Unlimited miles	$ 750.00	Subtotal F:	$ 33,085.69

Delivery Date:	**90-120 Days**	**G. Total Purchase Price (D+E+F):**	$ 295,705.69

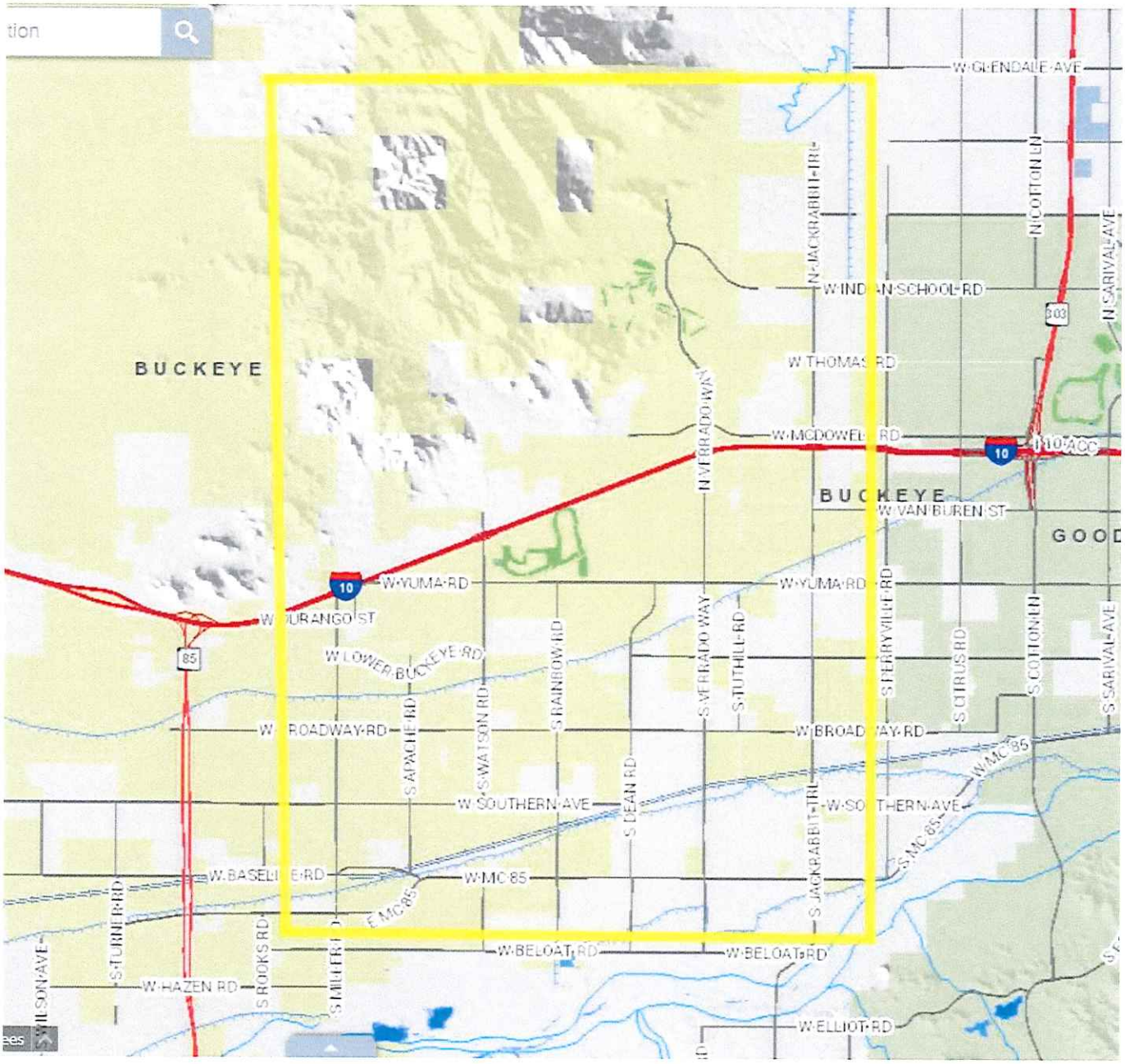
Non eligible Items in yellow

Expansion of Miles Grant 2

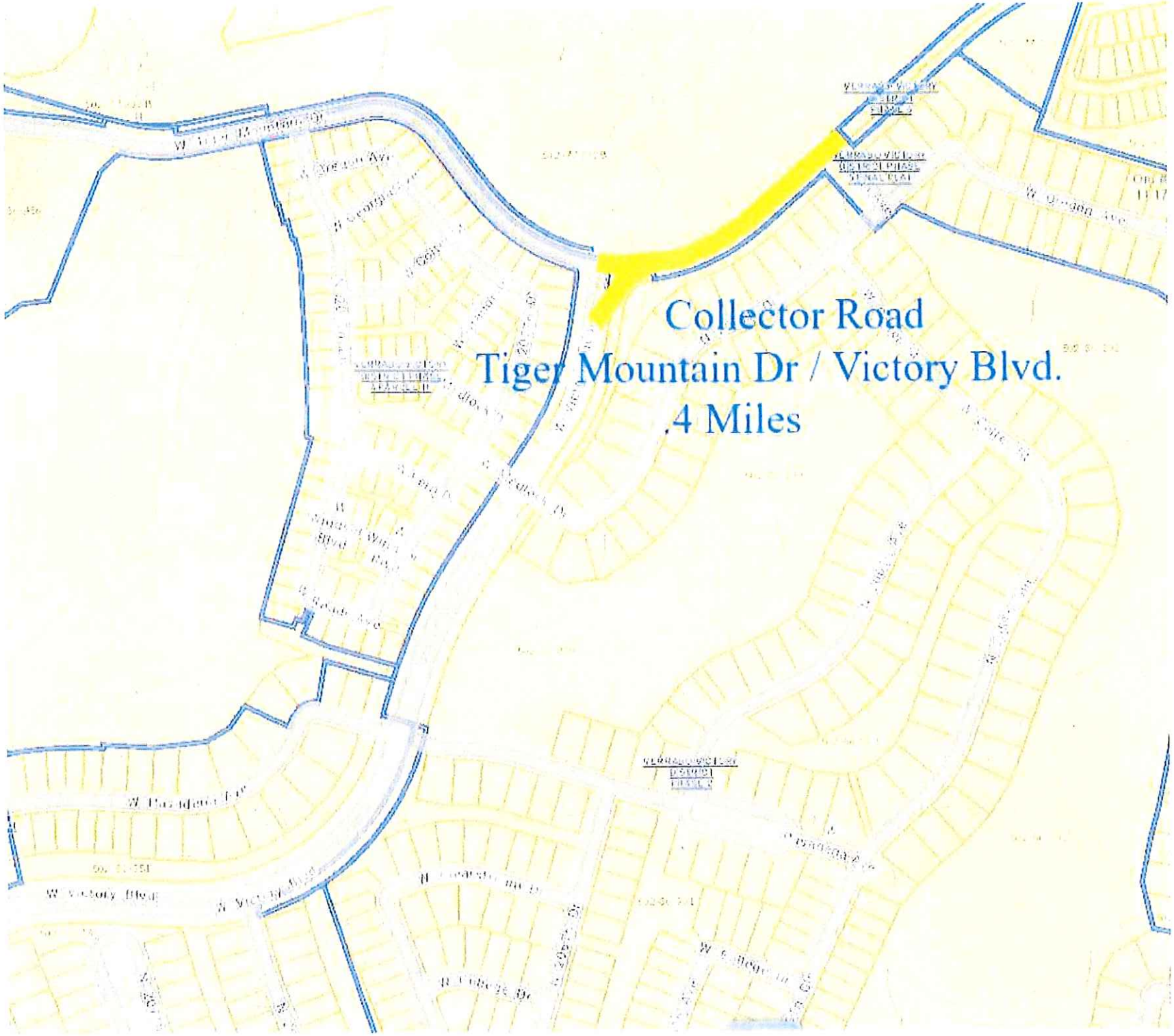
Collector Roads	Miles
Sunrise Ln	.2
Tiger Mountain Dr. / Victory Blvd.	.4
Shepards Trail	.26
211th Ave	.25

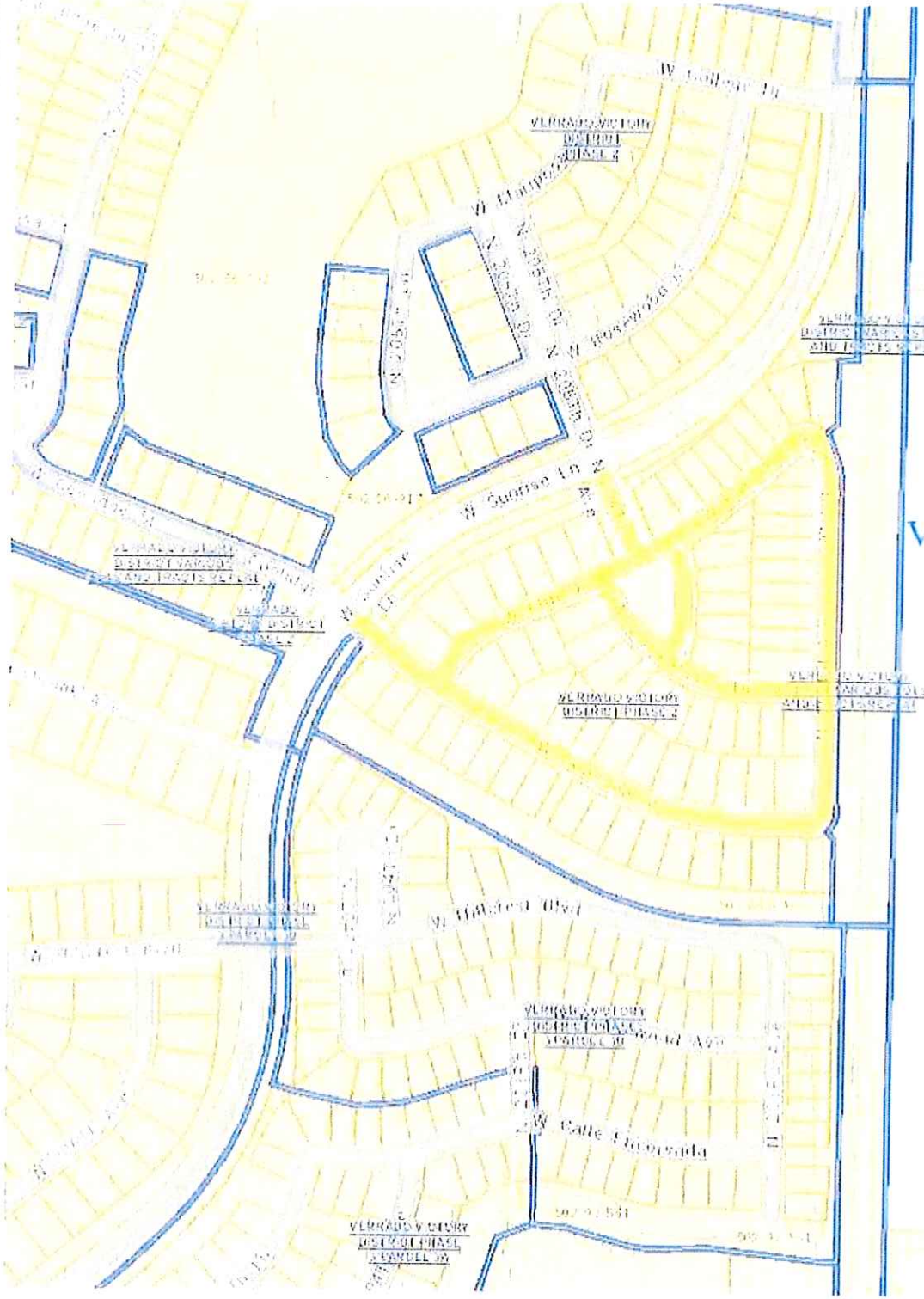
Residential Roads	
Verrado Victory District Phase 5	1.5
Canyon Views	8.6
Verrado Victory District Phase 3 Parcel 3B	1.5
Vista De Montana Phase 4	2.8
Verrado Victory District Phase 2	1.4

Total Expansion Miles	**16.91**



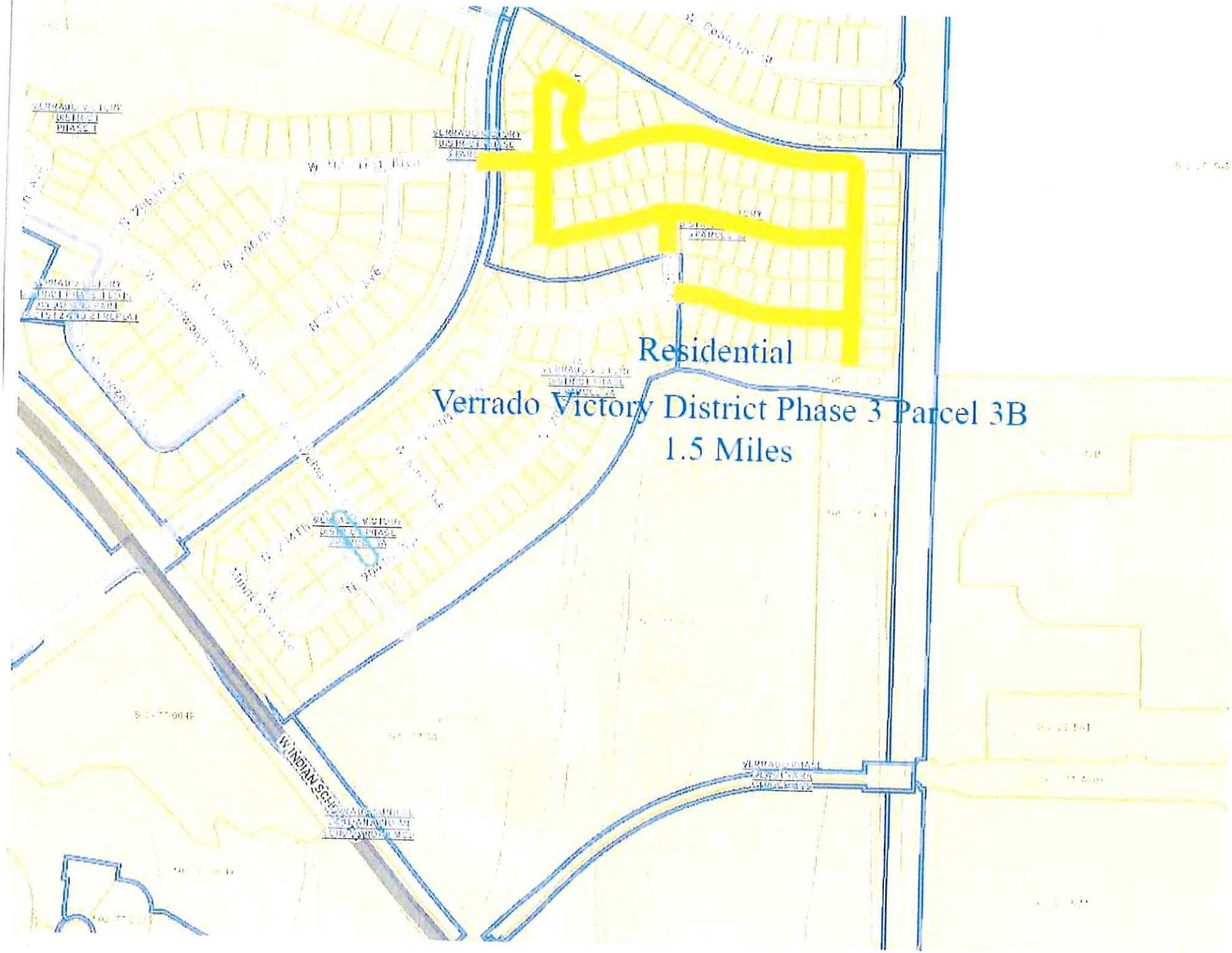
Citywide Sweeping

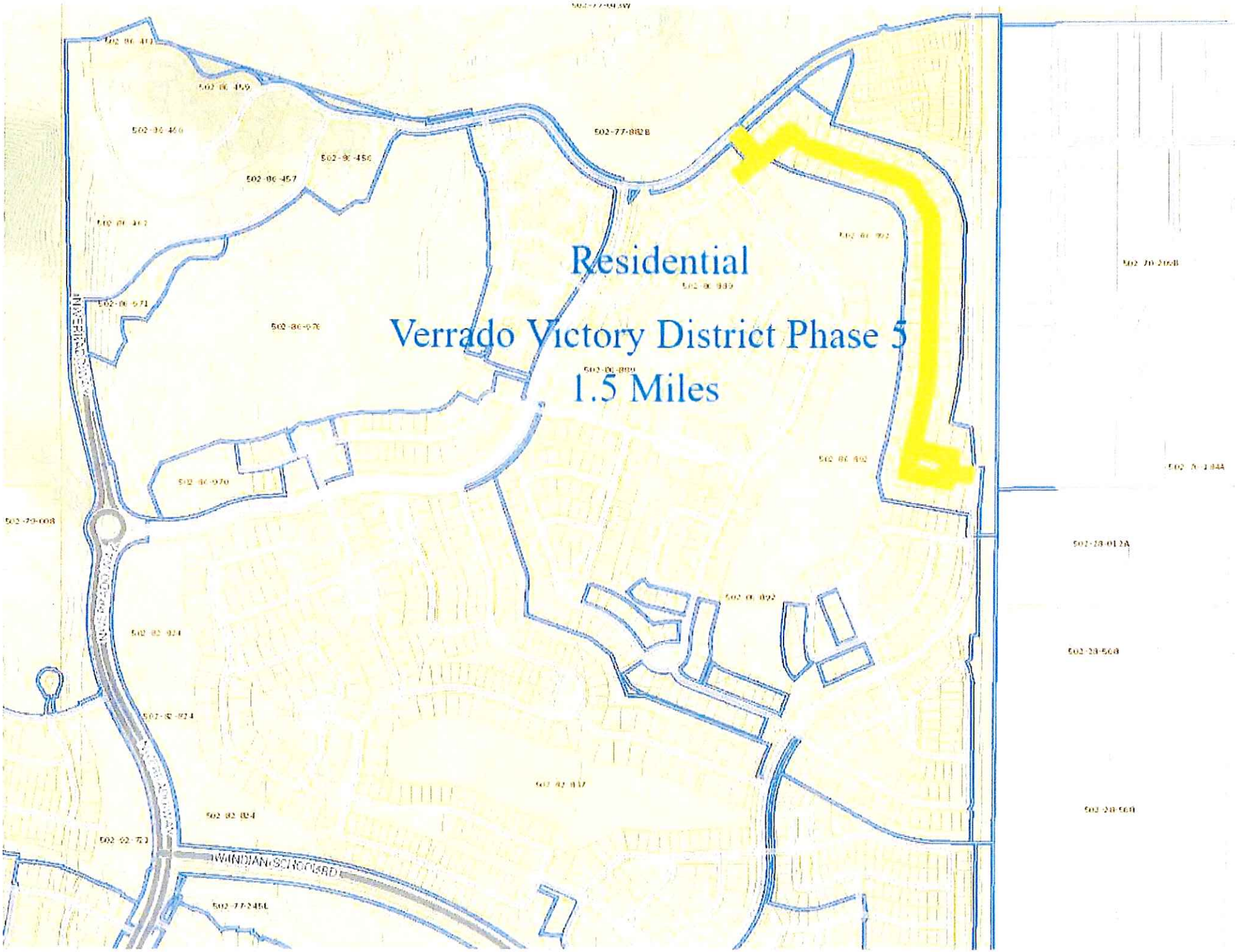

Collector Road
Tiger Mountain Dr / Victory Blvd.
.4 Miles

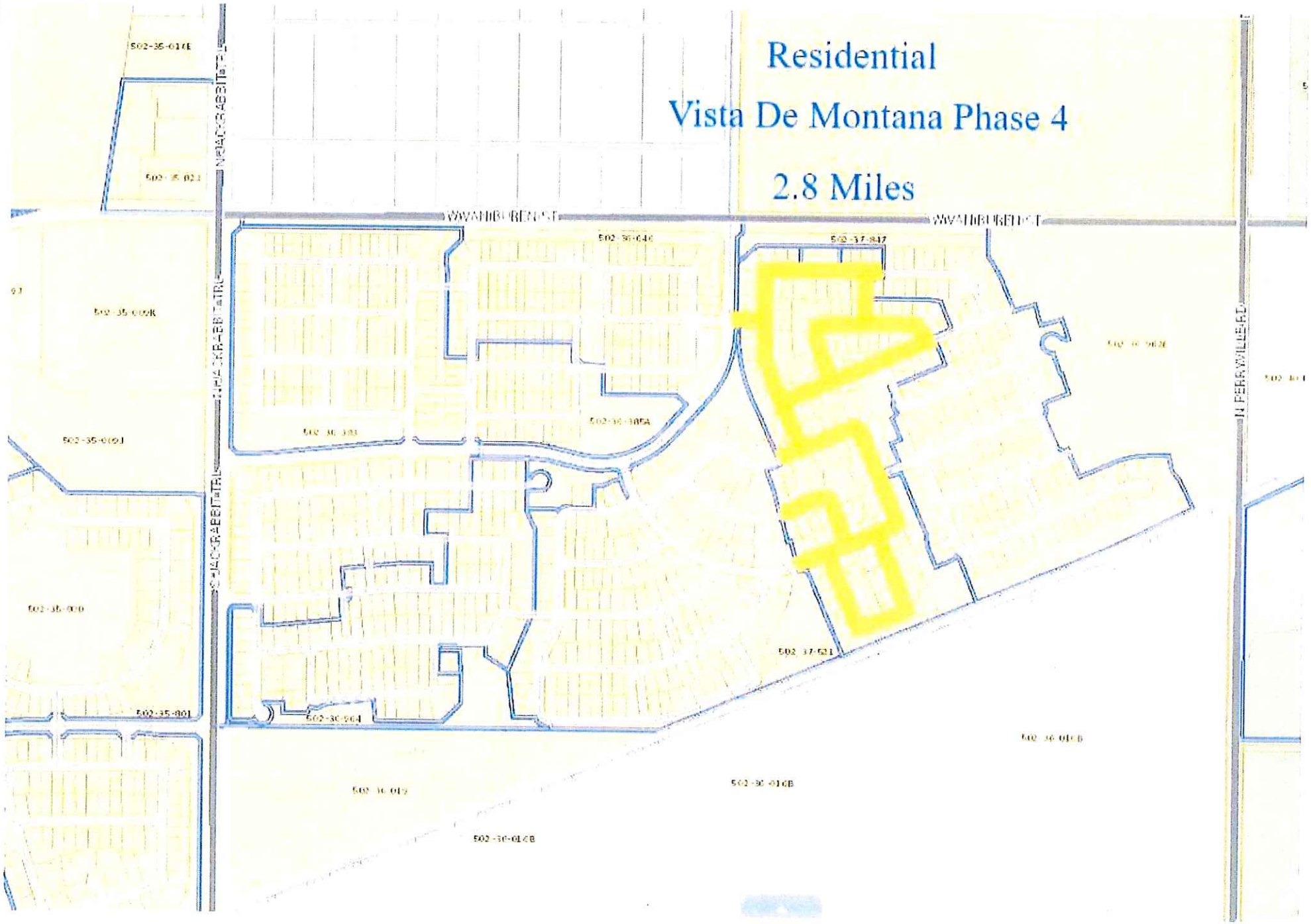


Residential

Verrado Victory District Phase 2
1.4 Miles

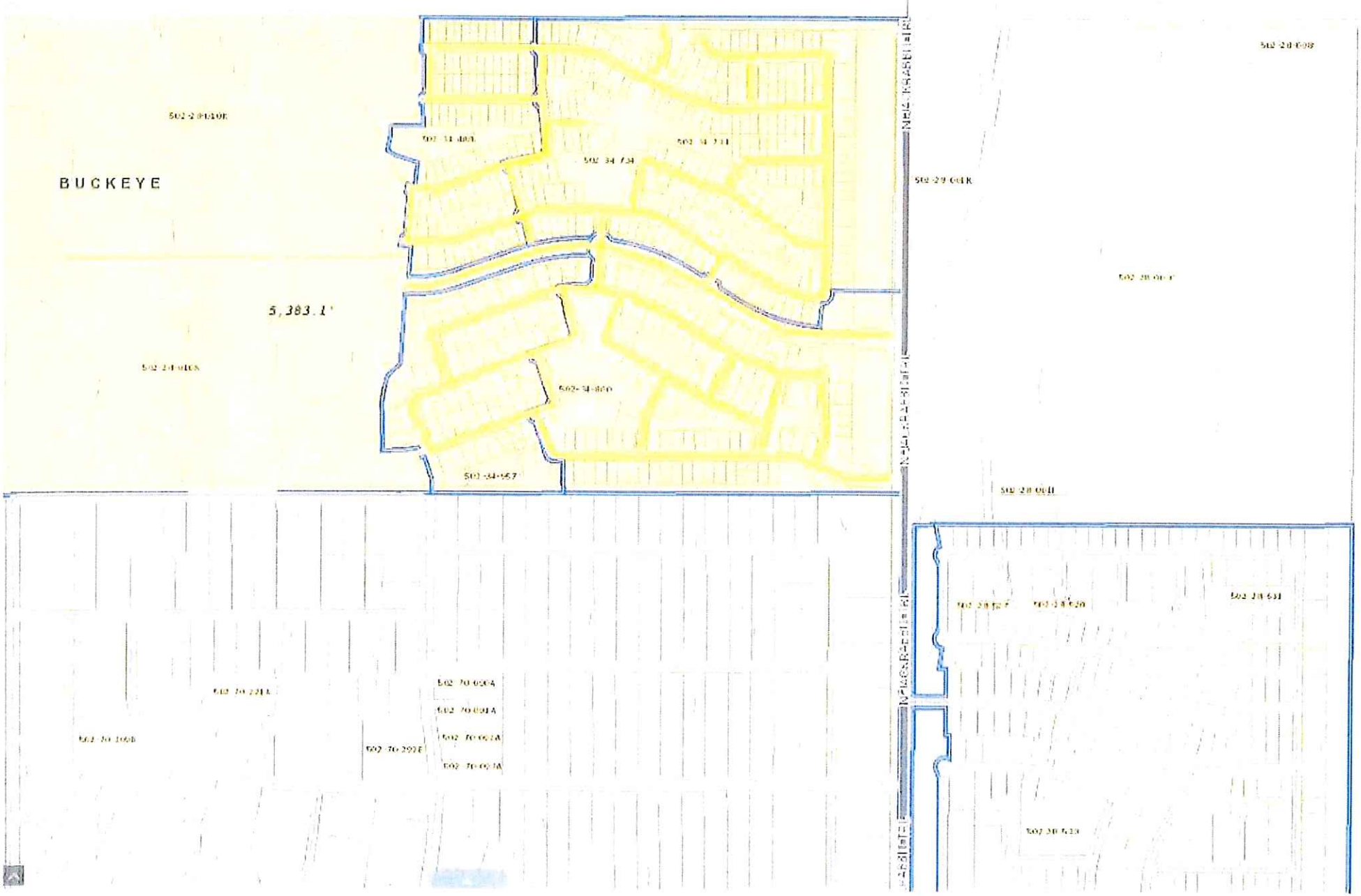

Residential
Verrado Victory District Phase 3 Parcel 3B
1.5 Miles
W INDIAN SCHOOL RD

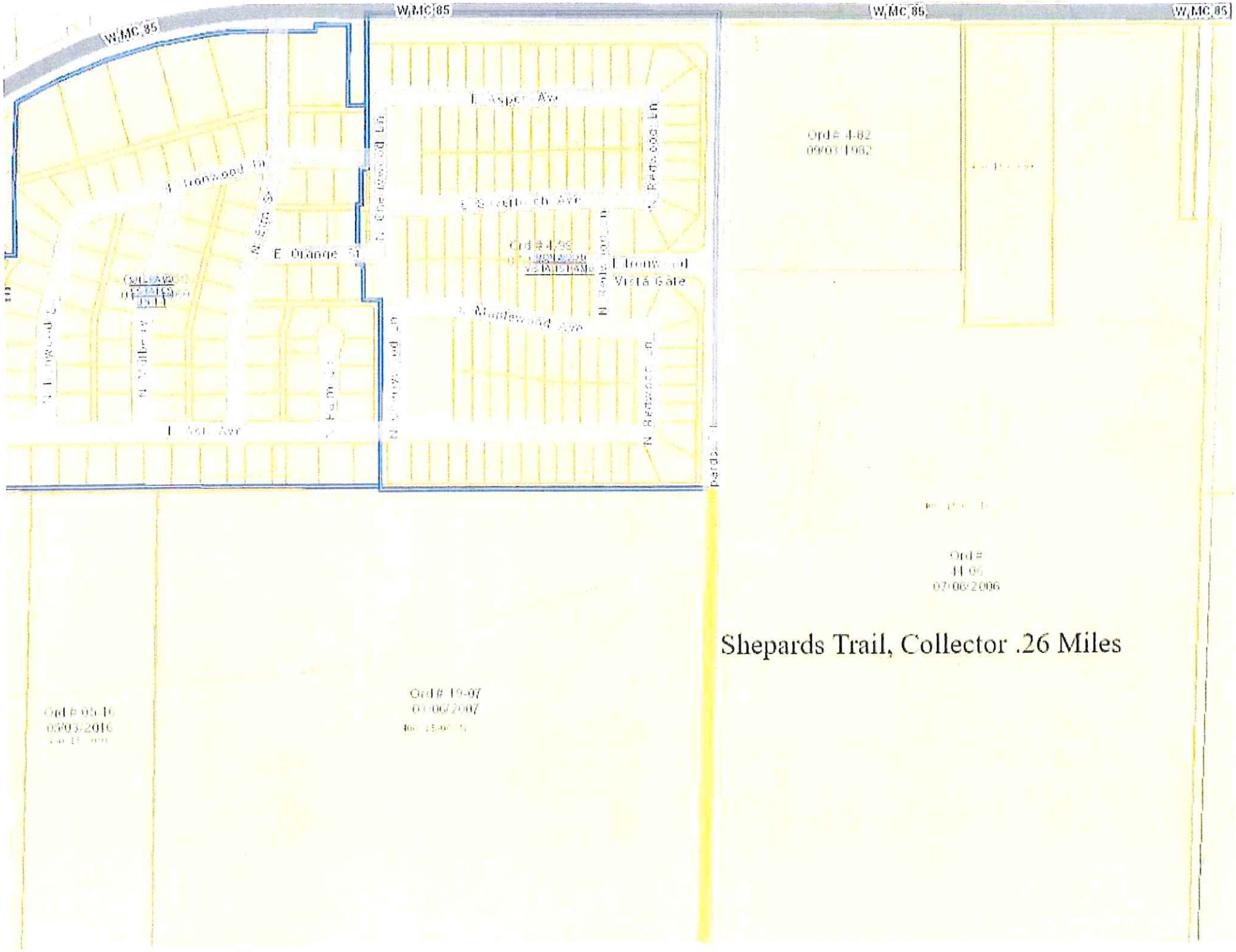

Residential
Verrado Victory District Phase 5
1.5 Miles
WINDJAN SCHOOLRD


Residential
Vista De Montana Phase 4
2.8 Miles
WVANIBUREN ST
WVANIBUREN ST
N PERRYVILLE RD
502-35-014E
502-35-009R
502-35-009J
502-35-000
502-35-801
502-36-646
502-37-847
502-36-385A
502-36-964
502-37-521
502-36-016B
502-36-019
502-36-016B

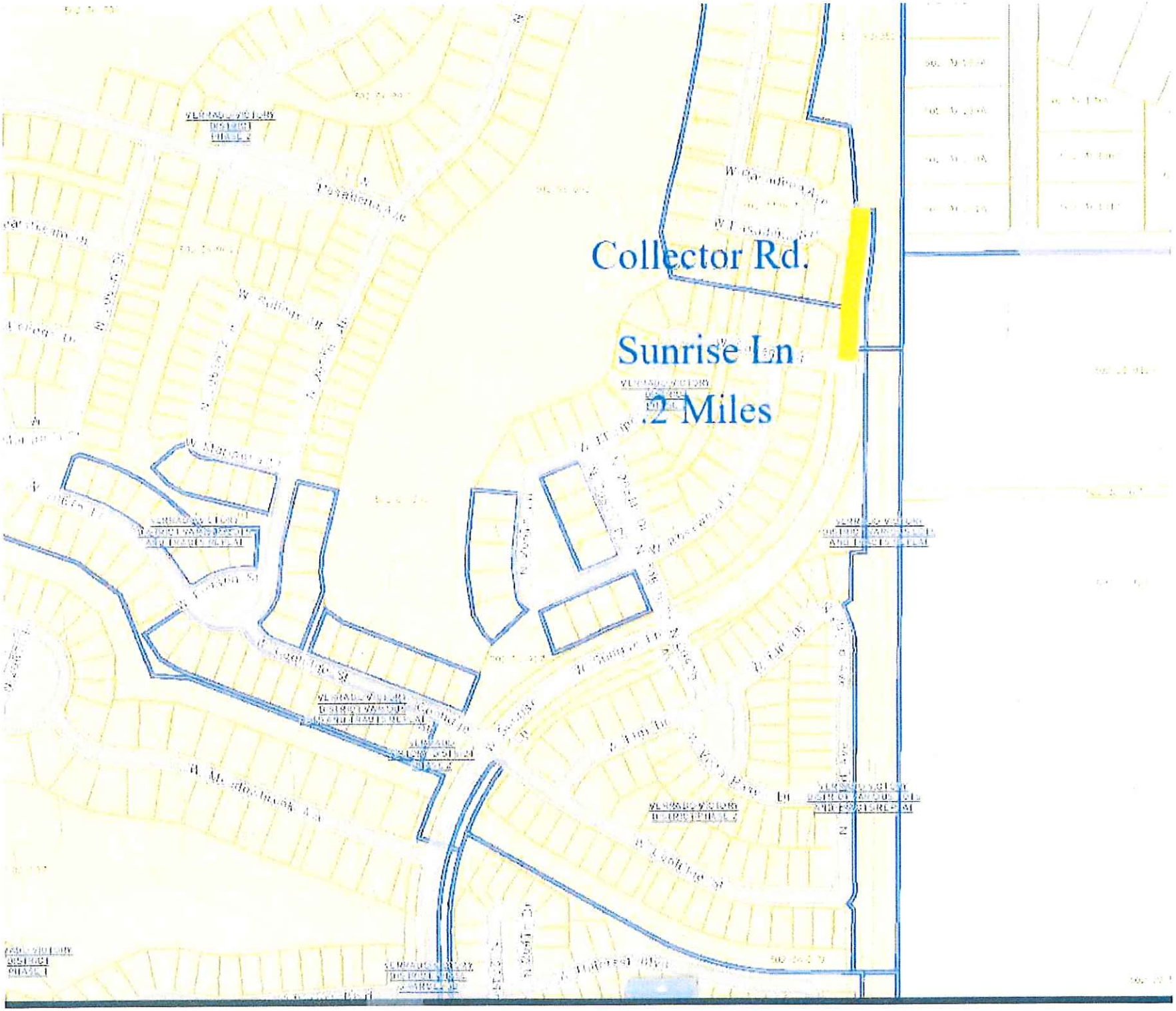
W MCDOWELL RD
W MCDOWELL RD
W MCDOWELL RD
N VERRADO WAY
N VERRADO WAY
N VERRADO WAY
Collector Rd
211th Ave
.25 Miles

Residential Canyon Views 8.6 Miles





Shepards Trail, Collector .26 Miles


Collector Rd.
Sunrise Ln
.2 Miles