

2020-2021 Road Paving Improvements



Prepared by: Rio Communities' Planning and Zoning Commission

City of Rio Communities, New Mexico: Resolution 2020-167- A proposal to participate in the NMDOT Cooperative Agreement Program for the expressed purpose of repairing city roads and intersections.

City of Rio Communities

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3/4/2020



CITY OF RIO COMMUNITIES

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March 10, 2020

Marguerite Johnson
LGRF Liaison
NMDOT, District 3
PO Box 91750
Albuquerque, New Mexico 87199-1750

RE: 2020-2021 Cooperative Agreement Program Project Proposal

Dear Ms. Johnson,

The City of Rio Communities is please to present the following application for funding under the Cooperative Agreement Program for 2020-2021. This proposal was prepared by members of our Planning and Zoning Commission who conducted the requisite site inspections, and performed a thorough analysis of road use and conditions.

Following are aerial photographs and street views that depict the specific project locations, many of which are located alone established school bus routes; along with each project's scope of work and corresponding cost estimate. Additionally, Resolution 2020-167 is attached certifying full acceptance of this project by our Governing Body.

As mayor Pro tem, I hereby certify that the enclosed proposed scope of work is necessary for the public good and their convenience, and integral to the economic development of our community.

Should you have further concerns or question, please contact me at 505-264-3412.

Thank-you in advance for your assistance in our efforts to improve our community.

Sincerely,

Peggy Gutjahr
Mayor Pro-tem of Rio Communities

CC: Mary Lovato

**State of New Mexico
City of Rio Communities
Resolution 2020-167
NMDOT Cooperative Agreement Program**

Whereas, the governing body in and for the City of Rio Communities, State of New Mexico, desires to participate in the Cooperative Agreement Program and has approved the scope and locations of the work in the attached document; listing roads and intersections, along with a preliminary cost estimate, and;

Whereas, the scope of work contained herein has been reviewed by the City Council as being vital to the public good and their convenience, and;

Whereas, The City of Rio Communities is responding to invitation from the New Mexico Highway and Transportation Department, District Three, Albuquerque, New Mexico, to participate in the 2020-2021 Cooperative Agreement Funding Program by submitting the following project proposal, and;

Whereas, The City of Rio Communities has agreed to provide matching funds at a rate of twenty-five percent (25%) of the total cost of the project.

NOW THEREFORE, BE IT HEREBY RESOLVED that the Governing Body of the City of Rio Communities, State of New Mexico, hereby authorizes the submission of an application to the New Mexico State Highway and Transportation Department and does hereby commit to the funding of such projects as specified in the application.

PASSED, APPROVED AND ADOPTED THIS 10th DAY OF MARCH 2020 BY THE GOVERNING BODY OF THE CITY OF RIO COMMUNITIES, NEW MEXICO.

Mark Gwinn, Mayor

Margaret (Peggy) Gutjahr, Mayor Pro-tem

Bill Brown, Councilor

Joshua Ramsell, Councilor

J

Jim Winters, Councilor

ATTEST:

Elizabeth (Lisa) Adair, Municipal Clerk

Summary of 2020-2021 Road Paving Improvements

Roadway Conditions

In the City's on-going effort to repair roadway surface damage, after decades of neglect, surface damage runs the gamut of disrepair, ranging from moderate to severe raveling and cracks, to the complete breakdown of asphalt surfaces and subbase. Based on a thorough assessment, this proposal identifies three types of repairs that we believe will not only extend the functional life of roadway surfaces by an additional four to five years, but are deemed to be the most cost effective methods in achieving this end.

Chip and Seal: For full width sections of paved roadways identified as "fair," we propose a chip and seal with fog coat overlay as the most practical method of repair. This method requires the application of a liquid asphalt "overlay" atop compacted 3/8" aggregate, then applying a rejuvenating asphalt emulsion (fog) as a flush coat to reconstitute and seal the road surface.

Potholes: In areas with potholes and surface faults, each defect should be squared-off and excavated to a minimum depth of three inches (3") and then over-filled with premixed bituminous material and compacted flush to existing surface.

Cut and Replace: A majority of roadway surfaces in this proposal have been identified as being "poor" and thus require a complete cut and replace repair. To accomplish this, whole areas should be marked and saw-cut, removing defective material with a jackhammer. A tack coat should then be applied over compacted base course and hot asphalt applied in two 1.5-inch lifts, compacting after each lift, and then treated with the appropriate sealant material.

In all, this proposal identifies 13 locations in need of immediate repair. Of these, 2 require a full cut and replace repair, 3 require cut and replace of large potholes, one requires a combination of pothole repair with chip and seal, and 9 require chip and seal repairs.

Based on current industry standards, we've estimated the final cost for these repairs to be \$218,253 of which the City's 25% share is \$54,563.

The following charts provide the exact locations of each repair, the size and type of each repair required and the associated estimated costs.

City of Rio Communities, New Mexico
2020 – 2021 Road Paving Improvements
Project Cost Estimates

Repair #	Location Description	Repair Description	Bus Route	Dimensions	Area SF	Cut/Replace @ \$8.50 per SF	Chip/Seal @ \$.55 per SF
	Plunkett Ct (End of Cul de Sac)	Repair pothole	N	W 8' x L 8'	64 SF	\$ 850.00	\$ -
1a	Plunkett Ct (Cul-de-Sac)	Chip and seal entire length	N	W 27' x L 230' x 40' R	11,237 SF	\$ -	\$ 6,180.00
2	Unitas Ct (Cul-de-Sac)	Chip and seal entire length	N	W 27' x L 190' x 40' R	10,157 SF	\$ -	\$ 5,586.00
3	Palmer Ln (entire length)	Chip and seal entire length	N	W 28' x L 2,000'	56,000 SF	\$ -	\$ 30,800.00
4	Speed Bump at Lee Trevino Blvd & Brown Dr	Repair potholes along length of speed bump	Y	W 38' x L 17'	646 SF	\$ 5,491.00	\$ -
5	Intersection of Damon St & Homer Ave	Cut and replace from intersection to 110' north of intersection	Y	W 20' x L 110'	2,200 SF	\$ 18,700.00	\$ -
6	Intersection of Baldwin Ave & Riggs St	Cut and replace	N	W 20' x L 110'	2,200 SF	\$ 18,700.00	\$ -
6a	Baldwin Ave	Repair pothole located 180' east of intersection	N	W 12' x L 32'	384 SF	\$ 3,264.00	
7	Suncrest Blvd	Chip and seal entire length	Y	W 30' x L 2,000'	60,000 SF	\$ -	\$ 33,000.00
8	Sombrero Lp (entire length)	Chip and seal entire loop	Y	W 24' x L 2,000'	48,000 SF	\$ -	\$ 26,400.00
9	349 Gorman Ave to end of Pageant Dr	Chip and seal entire length starting from previous repair	Y	W 30' x L 2,000'	60,000 SF	\$ -	\$ 33,000.00
10	Perion Dr (Cul de Sac)	Chip and seal entire length	N	W 30' x L 450' x 40' R	18,527 SF	\$ -	\$ 10,190.00
11	Perion Ct (Cul de Sac)	Chip and seal entire length	N	W 30' x L 450' x 40' R	18,527 SF		\$ 10,190.00
12	Guapo Dr	Chip and seal to Aviso	N	W 23' x L 250'	5,750 SF		\$ 3,163.00
13	Clinton Ct (Cul de Sac)	Repair potholes & Chip and Seal	N	W 27' x L 200' x 40' R	10,427	\$ 7,004.00	\$ 5,734.85
	Subtotal: Cut and Replace					\$ 54,009.00	
	Subtotal: Chip and Seal						\$ 164,244
	Total: All Road Surface Repairs					\$	218,253

Note: All estimated costs are rounded to the nearest 10th.

Project Locations: GPS Coordinates

Repair #	Location Description	GPS Coordinates
1	1701 Plunkett Ct-Pothole Repair	34°38'07.1"N 106°43'45.0"W
1a	Plunkett Ct (Cul-de-Sac)	34°38'08.2"N 106°43'41.6"W
2	Unitas Ct Cul-de-Sac)	34°38'05.0"N 106°43'40.0"W
3	Palmer Ln (entire length)	34°38'01.7"N 106°43'41.4"W
4	Speed Bump at Lee Trevino Blvd & Brown Dr	34°37'57.9"N 106°43'51.8"W
5	Intersection of Damon St & Horner Ave	34°38'23.4"N 106°43'27.4"W
6	Intersection of Baldwin Ave & Riggs St	34°38'40.4"N 106°43'31.0"W
6a	Baldwin Ave (pothole 180' east)	34°38'40.8"N 106°43'28.8"W
7	Suncrest Blvd	34°38'30.4"N 106°43'16.7"W
8	Sombrero Lp (entire length)	34°39'02.2"N 106°43'30.3"W
9	349 Gorman Ave to end of Pageant Dr	34°39'25.9"N 106°43'01.6"W
10	Perion Dr	34°38'22.2"N 106°43'16.8"W
11	Perion Ct	34°38'25.9"N 106°43'15.9"W
12	Guapo Dr	34°38'11.0"N 106°43'12.1"W
13	Clinton Ct (Cul de Sac)	34°38'31.1"N 106°43'05.0"W

City of Rio Communities
Index of Repair Site Locations (2020-2021)

1	Plunkett Ct- Pothole Repair	7
1a	Plunket Ct (Cul-de-Sac) - Chip and Seal	7
2	Unitas Ct (Cul-de-Sac) - Chip and Seal	8
3	Palmer Ln (entire length) - Chip and Seal	9
4	Speed Bump at Lee Trevino Blvd & Brown Dr- Pothole Repair	10
5	Intersection of Damon St & Horner Ave- Cut and Replace	11
6	Intersection of Baldwin Ave & Riggs St- Cut and Replace	12
6a	Baldwin Ave (pothole 180' east) - Pothole Repair	13
7	Suncrest Blvd- Chip and Seal	14
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Repair #1: 1701 Plunket Ct- Pothole Repair



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and sub-base

Repair: Full service repair (cut and replace)

Area: 64 SF (W 8' x L 8')

Repair #1a: Plunket Ct (Cul de Sac)



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 11,237 SF (W 27' x L 230' x 40' R)

Repair #2: Unitas Ct (Cul de Sac)



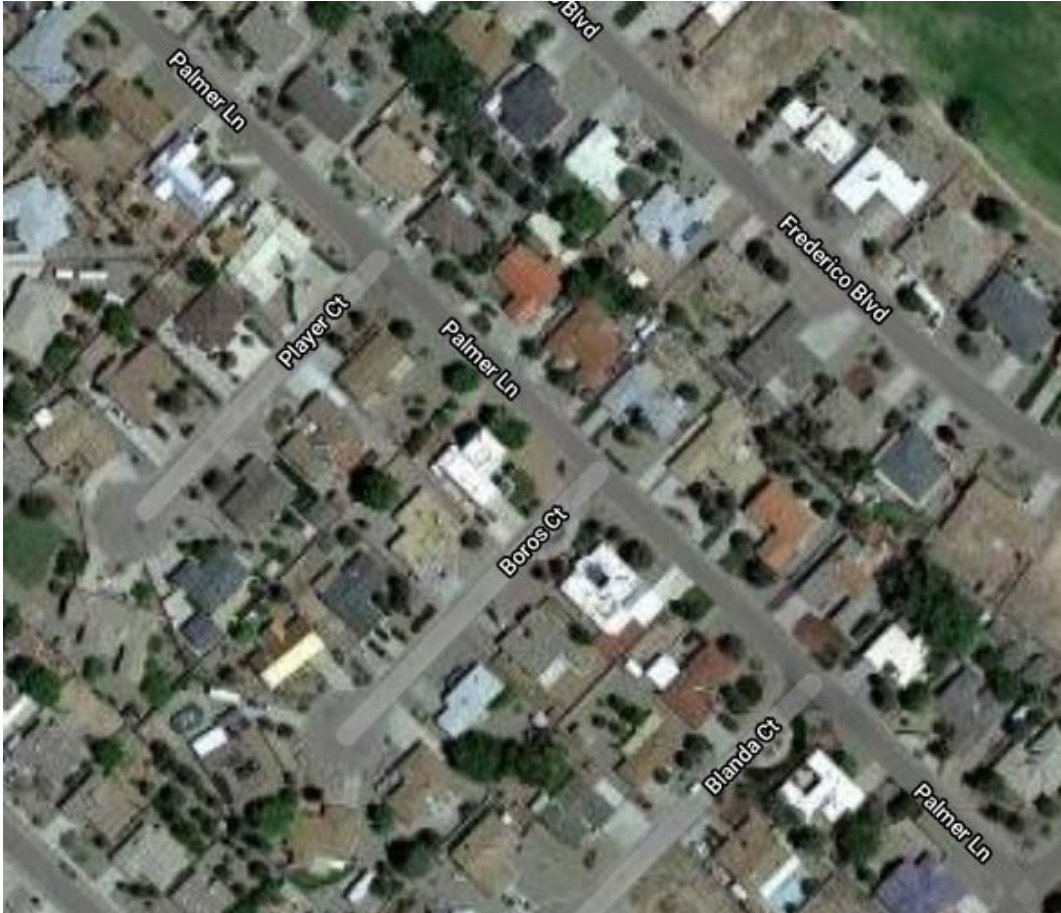
Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 10,157 SF (W 27' x L 190' x 40' R)

Repair #3: Palmer Ln



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 56,000 SF (W 28' x L 2,000')

Repair #4: Potholes Along Speed Bump at Lee Trevino Blvd & Brown Dr



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and sub-base

Repair: Cut and Replace

Area: 646 SF (W 38' x L 17')

Repair #5: Intersection of Damon St and Horner Ave



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and sub-base

Repair: Cut and Replace

Area: 2,200 SF (W 20' x L 110')

Repair #6: Intersection of Baldwin Ave & Riggs St



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and sub-base

Repair: Cut and Replace

Area: 2,200 SF (W 20' x L 110')

Repair #6a: Pothole Repair 180' East of Intersection at Baldwin Ave & Riggs St



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and sub-base

Repair: Cut and Replace

Area: 384 SF (W 12' x L 32')

Repair #7: Suncrest Dr



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 60,000 SF (W 30' x L 2,000')

Repair #8: Sombrero Lp (entire length)



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 48,000 SF (W 24' x L 2,000')

Repair #9: 349 Gorman Ave to end of Pageant Dr



Surface Condition: Fair
Assessment: Irregular cracking and
breakdown of asphalt
Repair: Chip and Seal
Area: 60,000 SF (W 30' x L 2,000')



Repair #10: Perion Dr (Cul de Sac)



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 18,527 SF (W 30' x L 450' x 40' R)

Repair #11: Perion Ct (Cul de Sac)



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 18,527 SF (W 30' x L 450' x 40' R)

Repair #12: Guapo Dr to Aviso St



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Chip and Seal

Area: 5,750 SF (W 23' x L 250')

Repair #13: Clinton Ct (Cul de Sac)



Surface Condition: Fair

Assessment: Irregular cracking and breakdown of asphalt

Repair: Repair potholes and Chip and Seal

Area: 10,427 SF (W 27' x L 200' x 40' R)