

City of Rio Communities,
Resolution 2019-148- A proposal
to participate in the NMDOT
Cooperative Agreement Program
for the expresses purpose of
repairing city roads and
intersections.

2019 – 2020 Road Paving Improvements

**City of Rio Communities,
New Mexico**

Prepared by: Rio Communities'
Planning and Zoning Commission



CITY OF RIO COMMUNITIES

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February 12, 2019

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

RE: 2019-2020 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 2019-2020. 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 2019-148 is attached certifying full acceptance of this project by our Governing Body.

As mayor, 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 Mayor Mark Gwinn at 505-264-3412.

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

Sincerely,

Mark Gwinn
Mayor of Rio Communities

CC: Mary Lovato

**State of New Mexico
City of Rio Communities
Resolution 2019-148
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 2019-2020 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 12th DAY OF FEBRUARY 2019 BY THE GOVERNING BODY OF THE CITY OF RIO COMMUNITIES, NEW MEXICO.

City of Rio Communities Governing Body

Mark Gwinn,
Mayor

Margaret (Peggy) Gutjahr,
Councilor Mayor Pro-tem

Bill Brown,
Councilor

Joshua Ramsell,
Councilor

Arturo Sais,
Councilor

ATTEST:

Elizabeth (Lisa) Adair,
Municipal Clerk

Summary of 2019-2020 Road Paving Improvements

Roadway Conditions

After nearly 40 years of neglect, roadway surface damage within Rio Communities 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 fifteen locations in need of immediate repair. Of these, eleven require a full cut and replace repair, one requires a combination of cut and replace with pothole repair, and three require a combination of chip and seal with pothole repair.

Based on current industry standards, we’ve estimated the final cost for these repairs to be \$296,560 of which the City’s 25% share is \$74,140.

The following chart provides 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
2019 – 2020 Road Paving Improvements
Project Cost Estimates

Repair #	Location Description	Repair Description	Bus Route	Dimensions	Area SF	Cut/Replace @ \$4.50 per	Chip/Seal @ \$.55 per SF
1	Player Ct (end of Cul de sac)	Cut and replace	N	27' x 28' + 40'R	5,783	\$ 26,020	
2	Intersection of Boros Ct & Palmer Ln	Cut and replace	Y	40' x 60'	2400	\$ 10,800	
2a	Centerline seam of Boros Ct	Cut and replace	N	103' x 3'	306	\$ 1,380	
2b	Boros Ct. (end of Cul de sac)	Cut and replace	N	40' Radius	5027	\$ 22,620	
3	Blanda Ct (entire Cul de sac)	Cut and replace	N	60' x 28' + 40'R	6,707	\$ 30,180	
4	Carmel Rd (section just prior to intersection of Foltz Ct)	Cut and replace	N	36' x 86'	3,096	\$ 13,930	
5	Perion Ct (end of Cul de sac)	Cut and replace	Y	40' Radius	5,027	\$ 22,620	
6	Intersection of Howard St & Brugg Dr	Cut and replace	Y	28' x 47'	1,316	\$ 5,920	
7	Intersection of Nash St & Hillandale Ave	Cut and replace	Y	35' x 38'	1,330	\$ 5,990	
8	Intersection of Brugg Dr & Hillman St	Cut and replace	Y	40' Radius	5,027	\$ 22,620	
9	Brugg Dr at Hillman to end of Brugg and Hillman St	Repair potholes/chip & seal	Y	400' x 28'	11,200		\$ 6,160
9a	Hillman St at Brugg Dr north to Goodman Ave	Repair potholes/chip & seal	Y	927' x 28'	25,956		\$ 14,280
10	Hillandale Ave (Homer St to Pageant St)	Repair potholes/chip & seal	Y	2,746' x 29'	79,634		\$ 43,800
11	Intersection of Jarvis P & McKnight Pl	Cut and replace	Y	52' x 29'	1,508	\$ 6,790	
12	McKnight Pl at Damon St to end of McKnight Pl	Repair potholes/cut & replace	Y	470' x 30'	14,100	\$ 63,450	
	Subtotal: Cut and Replace					\$ 232,320	
	Subtotal: Chip and Seal						\$ 64,240
	Total: All Road Surface Repairs						\$ 296,560

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

Project Locations: GPS Coordinates

Repair #	Location	GPS Coordinates
1	Player Ct (end of Cul de sac)	N 34° 37' 54.52" W 106° 43' 40.17"
2	Intersection of Boros Ct & Palmer Ln	N 34° 37' 55.15" W 106° 43' 34.68"
2a	Centerline seam of Boros Ct	N 34° 37' 53.60" W 106° 43' 36.29"
2b	Boros Ct (end of Cul de sac)	N 34° 37' 52.41" W 106° 43' 37.65"
3	Blanda Ct (entire Cul de sac)	N 34° 37' 51.49" W 106° 43' 33.90"
4	Carmel Rd (section just prior to intersection of Foltz Ct)	N 34° 38' 14.48" W 106° 43' 31.47"
5	Perion Ct (entire Cul de sac)	N 34° 38' 25.98" W 106° 43' 17.27"
6	Intersection of Howard St & Brugg Dr	N 34° 38' 38.92" W 106° 43' 4.98"
7	Intersection of Nash St & Hillandale Ave	N 34° 39' 10.99" W 106° 43' 8.78"
8	Intersection of Brugg Dr & Howard St	N 34° 38' 39.03" W 106° 43' 4.81"
9	Brugg Dr at Hillman to end of Brugg and Hillman St	N 34° 38' 41.1" W 106° 42' 58.95"
9a	Hillman St at Brugg Dr north to Goodman Ave	N 34° 38' 41.18" W 106° 42' 59.06"
10	Hillandale Ave (Horner St to Pageant St)	N 34° 39' 10.90" W 106° 43' 23.87"
11	Intersection of Jarvis Pl & McKnight Pl	N 34° 38' 30.45" W 106° 43' 31.1"
12	McKnight Pl at Damon St to end of McKnight Pl	N 34° 38' 29.47" W 106° 43' 32.86"

City of Rio Communities
Index of Repair Site Locations (2018-2019)

1.	Player Ct (end of Cul de sac).....	7
2.	Intersection of Boros Ct & Palmer Ln.....	8
2a.	Centerline seam of Boros Ct.....	9
2b.	Boros Ct (end of Cul de sac).....	9
3.	Blanda Ct (entire Cul de sac).....	10
4.	Carmel Rd (section just prior to intersection of Foltz Ct).....	11
5.	Perion Ct (entire Cul de sac).....	12
6.	Intersection of Howard St & Brugg Dr.....	13
7.	Intersection of Nash St & Hillandale Ave.....	14
8.	Intersection of Brugg Dr & Howard St.....	15
9.	Brugg Dr at Hillman to end of Brugg Dr and Hillman St.....	16
9a.	Hillman St at Brugg Dr north to Goodman Ave.....	17
10.	Hillandale Ave (Horner St to Pageant St).....	18
11.	Intersection of Jarvis Pl & McKnight Pl.....	18
12.	McKnight Pl at Damon St to end of McKnight Pl.....	19

Repair #1

Player Ct (end of Cul de sac)



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course



Repair: Full service repair (cut and replace)
Area: 5,783 SF (L27' X W28' X R40')

Repair #2
Intersection of Boros Ct & Palmer Ln



Surface Condition: Poor
Assessment: Complete breakdown of asphalt and base course
Repair: Full service repair (cut and replace)
Area: 2,400 SF (L40' X W60')

Repair #2a
Centerline Sean of Boros Ct



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 306 SF (103' X 3')

Repair 2b

Boros Ct (End of Cul de sac)



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 5027 SF (40' radius of Cul de sac)

Repair 3
Blanda Ct (End of Cul de sac)



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 6,707 SF (L60' X W28' X R40')

Repair #4
Carmel Rd (section just prior to intersection of Foltz Ct)





Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 3,096 SF (L86' X W36')



Repair 5

Perion Ct (end of Cul de sac)



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 5,027 SF (R 40')



Repair #6

Intersection of Howard St and Brugg Dr



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 1,316 SF (L47' X W28')



Repair #7

Intersection of Nash St and Hillandale Ave



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 1,330 SF (L38' X W35')



Repair #8

Intersection of Brugg Dr and Hillman St



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 5,027 SF (R40')



Repair #9

Brugg Dr at Hillman to end of Brugg and Hillman St



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Repair pothole/chip and seal

Area: 11,200 SF (L400' X 28')



Repair #9a

Hillman St at Brugg Dr, north to Goodman Ave



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Repair pot hole/ chip and seal

Area: 25,956 SF (L927' X 28')

Repair #10

Hillandale Ave (Horner St to Pageant St)



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Repair pot hole/ chip and seal

Area: 79,634 SF (L2,746' X 29')

Repair #11

Intersection of Jarvis Pl and McKnight Pl



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Full service repair (cut and replace)

Area: 1,508 SF (L52' X W29')

Repair #12

McKnight Pl at Damon St to end of McKnight Pl



Surface Condition: Poor

Assessment: Complete breakdown of asphalt and base course

Repair: Combination full service repair (cut and replace and pot holes)

Area: 1,4100 SF (L470' X W30')

