



# 2022-2023 Road Paving Improvements

NMDOT Cooperative Agreement Program

March 15, 2022

**City of Rio Communities  
360 Rio Communities Blvd.  
Rio Communities, NM 87002  
505-861-6803**

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# Vicinity Map



## **Scope of Work**

Don Diego Road is one of the streets that is at the top of the priority list for immediate repair. The city intends to remove and replace approximately 1,130 ft of existing roadway pavement from Dulcinea Lane (BOP) to Guapo Road (EOP). Due to the high severity and extent of distress in the pavement, the road will require full reconstruction. The profile of the road will not be changed, and the existing curb and gutter will be protected in place. There are no apparent drainage structures nor other obstructions within the project limits.

## Project Preliminary Cost Estimate

### ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE Rio Communities: Don Diego Rd Reconstruction

CATEGORY: ROADWAY

NMDOT ITEM NO.	SHORT DESCRIPTION	UNIT	ESTIMATE QUANTITY	ESTIMATE UNIT PRICE	ESTIMATE AMOUNT
203000	UNCLASSIFIED EXCAVATION	C.Y.	850	\$11.40	\$9,690.00
207000	SUBGRADE PREPARATION	S.Y.	3,800	\$2.50	\$9,500.00
303000	BASE COURSE	TON	1,200	\$30.00	\$36,000.00
407000	ASPHALT MATERIAL FOR TACK COAT	TON	2	\$565.00	\$847.50
408100	PRIME COAT MATERIAL	TON	7	\$620.00	\$4,340.00
416117	MINOR PAVEMENT WMA SP-IV	TON	870	\$100.00	\$87,000.00
601110	REMOVAL OF SURFACING	S.Y.	3,800	\$8.50	\$32,300.00
621000	MOBILIZATION	LS	1	\$18,000.00	\$18,000.00
SUBTOTAL:					\$197,677.50
CONTINGENCY (30.0%):					\$59,303.25
SUBTOTAL WITH CONTINGENCY:					\$256,980.75
NMGR TAX @ 7.9375%:					\$20,397.85
<b>ROADWAY SUBTOTAL:</b>					<b><u>\$277,378.60</u></b>

CATEGORY: CONSTRUCTION ENGINEERING

NMDOT ITEM NO.	SHORT DESCRIPTION	UNIT	ESTIMATE QUANTITY	ESTIMATE UNIT PRICE	ESTIMATE AMOUNT
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	1	\$2,000.00	\$2,000.00
618000	TRAFFIC CONTROL MANAGEMENT	LS	1	\$8,000.00	\$8,000.00
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS	1	\$2,000.00	\$2,000.00
802000	POST CONSTRUCTION PLANS	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL:					\$14,000.00
CONTINGENCY (30.0%):					\$4,200.00
SUBTOTAL WITH CONTINGENCY:					\$18,200.00
NMGR TAX @ 7.9375%:					\$1,444.63
<b>CONSTRUCTION ENGINEERING SUBTOTAL:</b>					<b><u>\$19,644.63</u></b>

COST ESTIMATE SUMMARY

SHORT DESCRIPTION	SUBTOTAL AMOUNT	CONTINGENCY 30%	GR TAX 7.938%	TOTAL AMOUNT
ROADWAY	\$197,677.50	\$59,303.25	\$20,397.85	\$277,378.60
CONSTRUCTION ENGINEERING	\$14,000.00	\$4,200.00	\$1,444.63	\$19,644.63
ENGINEERING SERVICES (10% OF CONSTRUCTION COSTS)	\$27,518.08	\$8,255.42	\$2,839.52	\$38,613.02
GEOTECHNICAL REPORT	\$8,000.00	\$2,400.00	\$825.50	\$11,225.50
CONSTRUCTION OBSERVATION	\$5,000.00	\$1,500.00	\$515.94	\$7,015.94
<b>TOTAL =</b>	<b>\$252,195.58</b>	<b>\$75,658.67</b>	<b>\$26,023.43</b>	<b>\$353,877.68</b>

## Project Justification

A site review was performed to assess the severity and extent of material and structural distress in the existing pavement. After a careful evaluation, it was determined that the existing pavement has reached its life span and it needs immediate replacement.



*Figure 1: Subgrade exposure*



Figure 2: Excessive cracking and subgrade exposure



*Figure 3: Alligator cracking*





*Figure 4: Alligator cracking and subgrade failure*

## Project Certification

## Letter of Intent