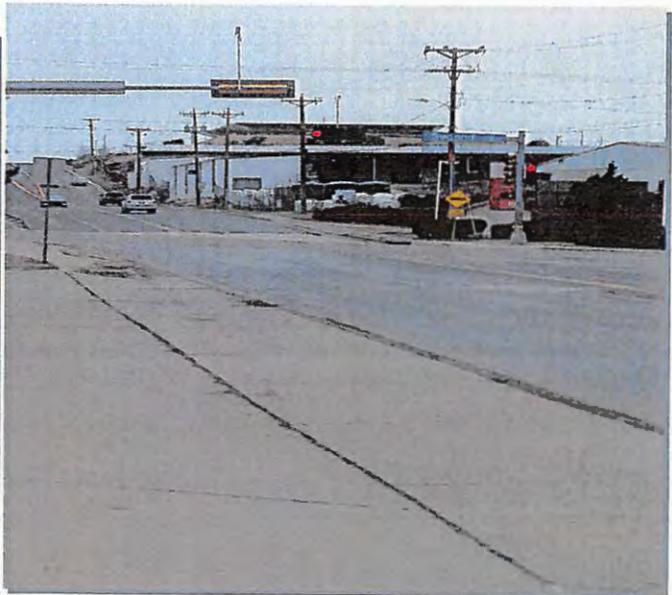
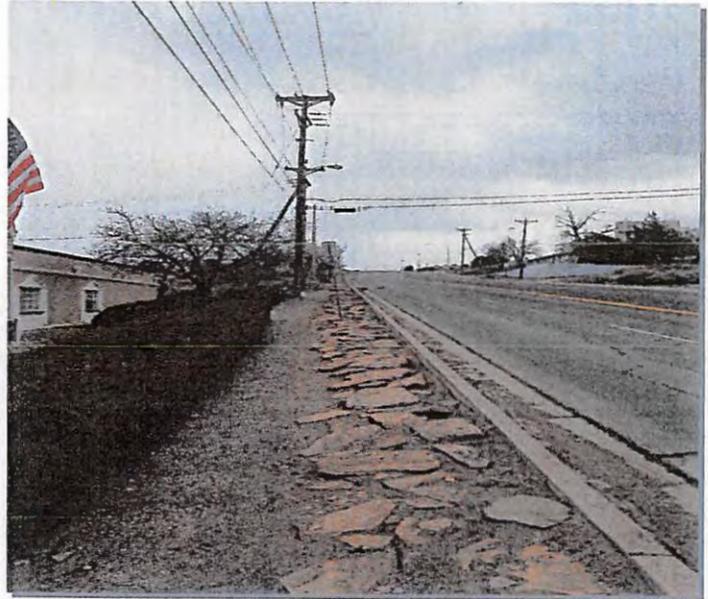


# NMDOT Municipal Arterial Program (MAP) Application



## East Nizhoni Boulevard Improvements - City of Gallup, New Mexico

NMSHC NMHP No. S-1300 (802)

NMSHC NMHP No. S-1300 (14)

March 2020

DePauli Engineering and Surveying, LLC

307 South 4<sup>th</sup> Street

Gallup, NM 87301



**CITY OF  
GALLUP**

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**CITY OF GALLUP  
EAST NIZHONI BOULEVARD IMPROVEMENTS PROJECT  
MUNICIPAL ARTERIAL PROGRAM (MAP) PROPOSAL**

**Introduction**

Nizhoni Boulevard, NMSHC NMHP No. S – 1300 (802) and NMSHC NMHP No. S – 1300(14), is an existing asphalt pavement roadway located in the City of Gallup and has been designated as an urban arterial by the City of Gallup’s Street Classification Plan. The roadway is a primary route for vehicles, pedestrians, bicycles and the Gallup Express Transit System from the surrounding areas to access two (2) major hospitals, Rehoboth McKinley Christian Hospital and Gallup Indian Medical Center (GIMC), multiple doctors’ offices and clinics. It provides access to the local University of New Mexico – Gallup Branch, and the Cancer Center.

The project will start at the intersection of Nizhoni Boulevard and Second Street (NM 602/610). This project will terminate at the intersection of Nizhoni Boulevard and College Drive, an urban collector. The existing roadway is 50-foot wide curb to curb through this street section. There is intermittent sidewalk on both sides of the street, it is not consistent and much of it does not comply with ADA standards.

The City of Gallup proposes three (3) phases for the reconfiguration project.

Phase 1: Nizhoni Boulevard and 2<sup>nd</sup> Street (NM 602/610) intersection reconfiguration and improvements consisting of turn lanes and traffic signal relocations.

Phase 2: Nizhoni Boulevard and College Drive intersection reconfiguration and improvements consisting of additional lanes to match existing Nizhoni Boulevard, new turn lanes, and traffic signal relocations.

Phase 3: Nizhoni Boulevard improvements consisting of new curb, gutter and ADA sidewalks along Nizhoni Boulevard and asphalt overlay.

**1. Map of the Project Limits**

A Vicinity Map of the project location is shown on Figure 1. A map showing the project location is shown on Figure 2. The existing roadway is an existing asphalt pavement roadway as shown on Figure 3. The roadway is a primary route for vehicles, pedestrians, and bicycles; it also includes the Gallup Express Transit System. It serves as the main thoroughfare and access for two major Hospitals, Rehoboth McKinley Christian Hospital and Gallup Indian Medical Center (GIMC), numerous doctors’ offices and clinics and it provides access to the University of New Mexico – Gallup Branch, and the Cancer Center.

## 2. Current and 20-year Projected Traffic Volumes

According to the City of Gallup Growth Management Master Plan, revised in August 2009, the project area “currently includes a circulation infrastructure that lends to balanced growth. The existing highways that cross this area afford ready access to Interstate 40 and provide alternate routes that deter traffic congestion. Secondary and neighborhood streets are well developed and tie into larger collector paths. In part, because of this well-developed street system, the area is considered by this plan as a high priority for in-fill residential and commercial development.” A 3% increase in volume around the medical and higher education facilities is anticipated based on a 20-year growth projection.

**Current Traffic Volume Data** is as follows:

Year	AADT	% Heavy Commercial	DHV	% Heavy Commercial During DHV
2020	7634	13	736	6
2040 Projected	8081	17	779	10

## 3. Pavement Design Criteria

Pavement design shall be based on the anticipated increase in traffic volume. Work shall include curb and gutter, drivepad, ADA sidewalk and overlay. The asphalt design is for a minimum of 20 years, see typical street cross section Figure 3. In addition to asphalt patching, the existing wear surface shall receive a two (2)-inch overlay. Geometric revision at both intersections is included.

## 4. Typical Section

A detail has been attached indicating our proposed two (2)-inch overlay, curb and gutter replacement, drivepad and ADA sidewalk installation. Refer to Figure 3 for the Typical Street Section.

## 5. Major Intersection and Traffic Signal Analysis

Both major intersections, located at either end of the project, east and west, have existing traffic signals. Signal analysis was completed in 1990.

## 6. Drainage Report

This is an existing road. A drainage study has not been conducted. Drainage structures will accommodate existing storm water flows.

## 7. Preliminary Cost Estimate

<b>NIZHONI BOULEVARD IMPROVEMENTS PROJECT</b>		
Phase 1	Nizhoni Boulevard and 2nd Street (NM 602/610) Intersection Improvements	\$ 824,000.00
Phase 2	Nizhoni Boulevard and College Drive Intersection Improvements	\$ 515,000.00
Phase 3	Nizhoni Boulevard Improvements	\$ 2,266,000.00
<b>PROJECT TOTAL</b>		
Project Total (Including Tax)		\$ 3,605,000.00

The estimates include environmental studies, engineering design, construction, inspection, quality control and NMGRT.

## 8. Local Government Resolution

The City of Gallup Resolution is attached.

## 9. Project Data Summary

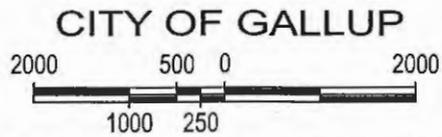
Nizhoni Boulevard, NMSHC NMHP No. S – 1300 (802) and NMSHC NMHP No. S – 1300(14), is an existing asphalt pavement roadway located in the City of Gallup. The improvements project will start at the intersection of Nizhoni Boulevard and Second Street (NM 602/610). Nizhoni Boulevard is an urban arterial designated by the City of Gallup's Street Classification Plan. This project will terminate at the intersection of Nizhoni Boulevard and College Drive.

For additional information, please refer to the attached Project Data Summary Sheet.

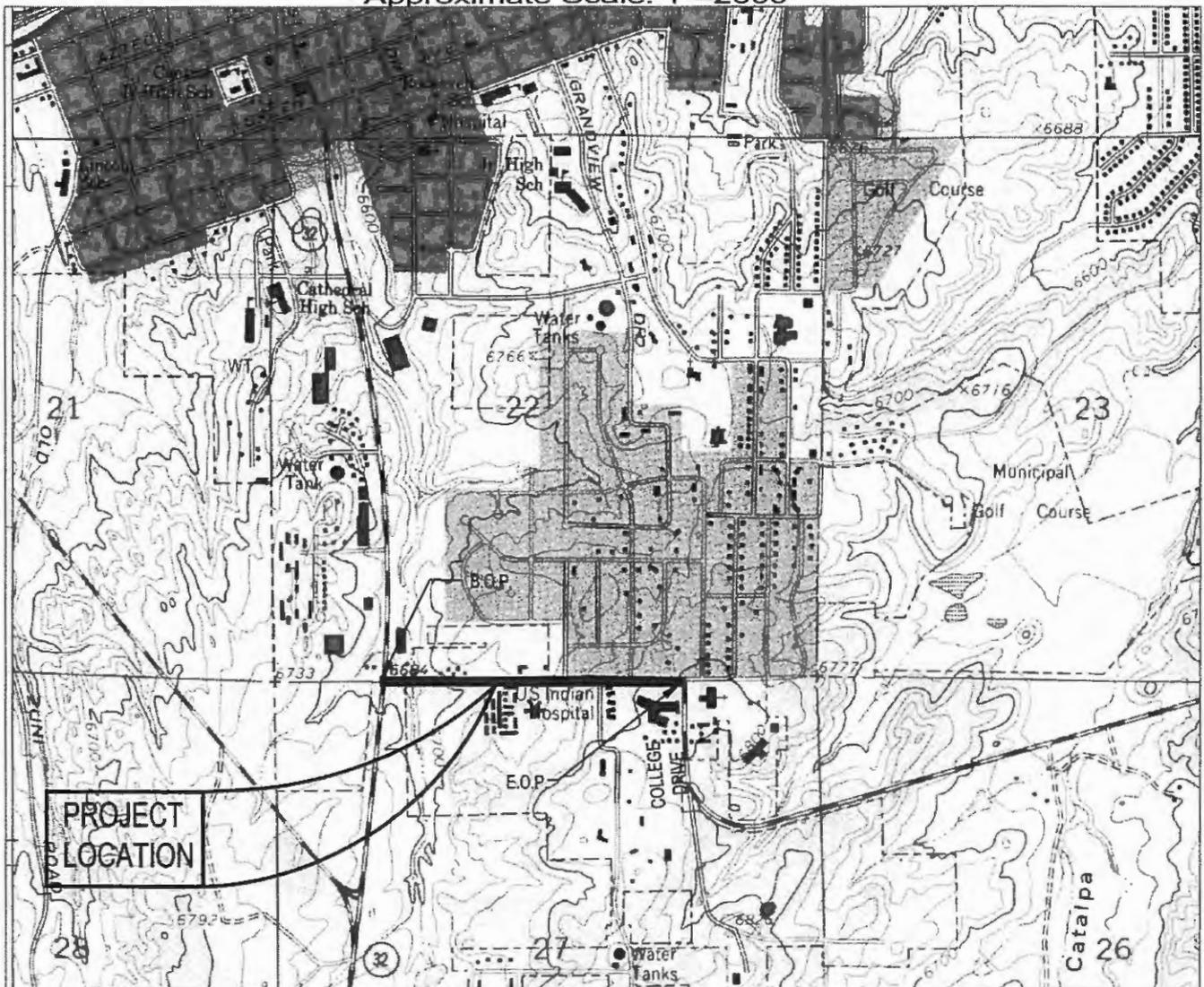
# NEW MEXICO DEPARTMENT OF TRANSPORTATION MUNICIPAL ARTERIAL PROGRAM (MAP) EAST NIZHONI BOULEVARD RECONSTRUCTION PROJECT CN# XXXXXXX



T15N, R18W  
N.M.P.M.



**APPROXIMATE GRAPHIC SCALE**  
Approximate Scale: 1"=2000'



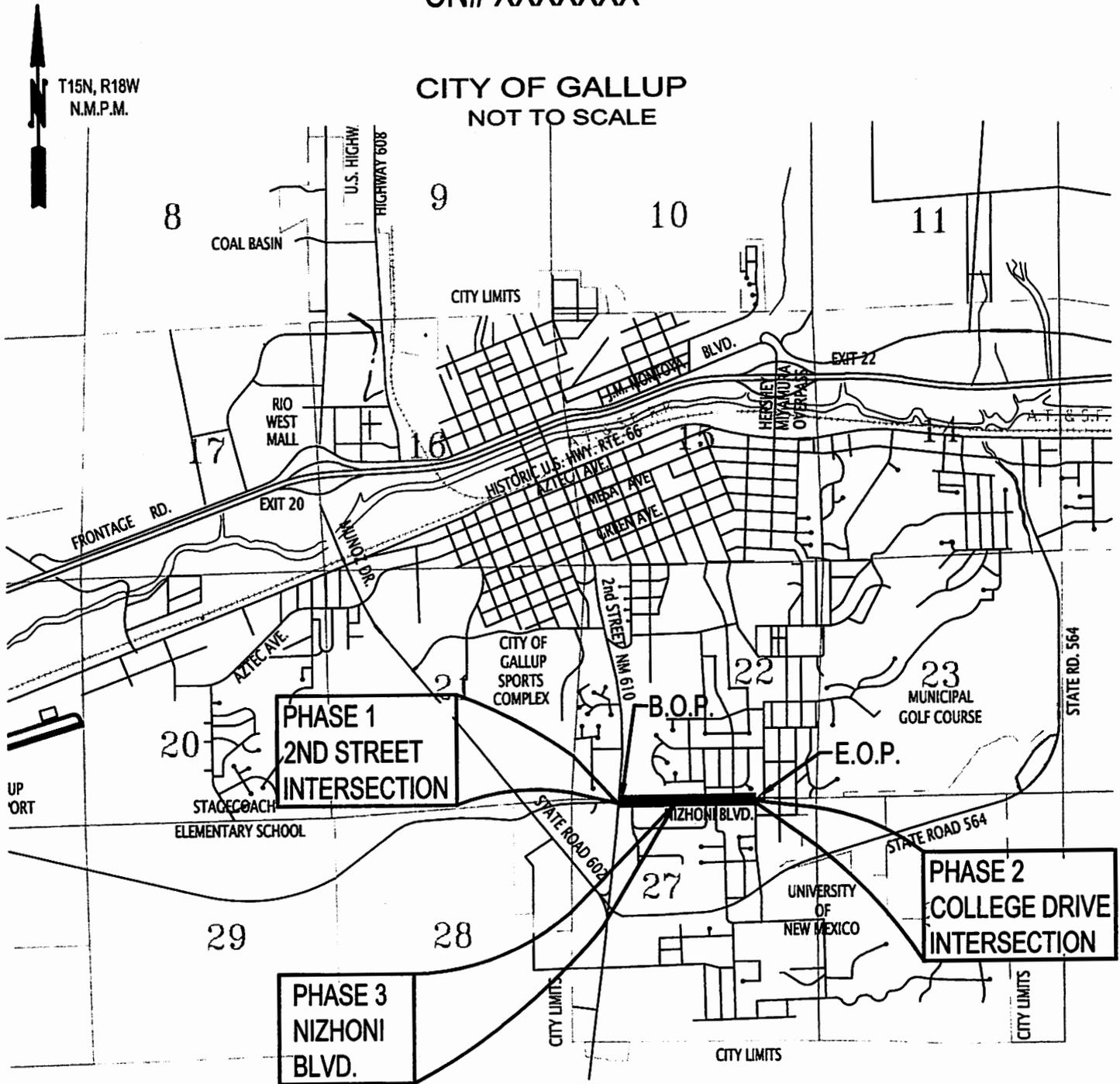
**FIGURE 1 - VICINITY MAP**  
NMSHC NMHP No. S-1300 (802)  
NMSHC NMHP No. RS-S1300(14)

Prepared by:

**DePauli Engineering & Surveying LLC**  
- Civil Engineers and Land Surveyors -  
307 SOUTH 4th STREET Gallup, New Mexico 87301  
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NEW MEXICO DEPARTMENT OF TRANSPORTATION  
MUNICIPAL ARTERIAL PROGRAM (MAP)  
EAST NIZHONI BOULEVARD RECONSTRUCTION PROJECT  
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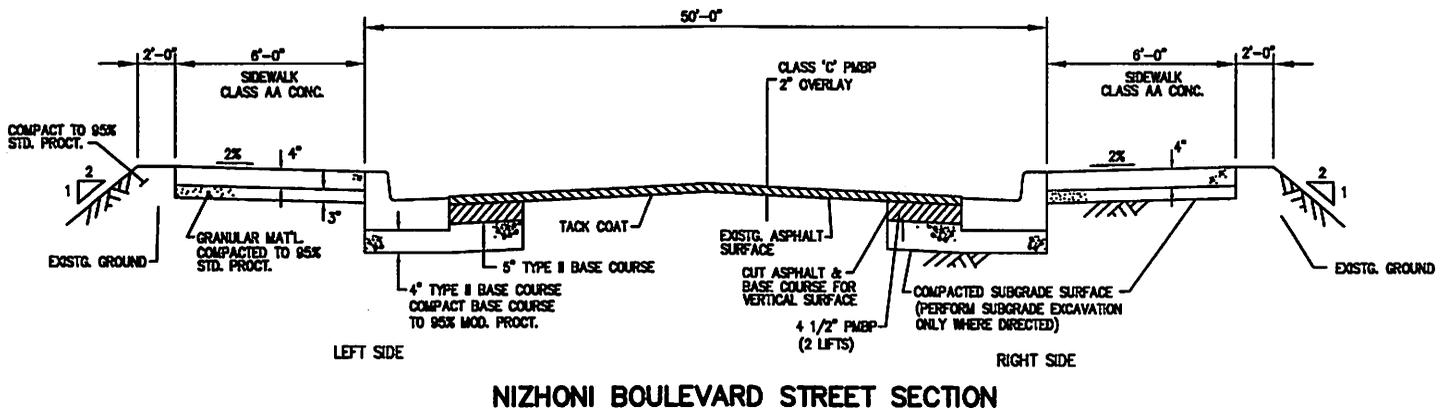
**FIGURE 2 - LOCATION MAP**  
NMSHC NMHP No. S-1300 (802)  
NMSHC NMHP No. RS-S1300(14)

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NEW MEXICO DEPARTMENT OF TRANSPORTATION  
MUNICIPAL ARTERIAL PROGRAM (MAP)  
EAST NIZHONI BOULEVARD RECONSTRUCTION PROJECT  
CN# XXXXXXX

CITY OF GALLUP  
NOT TO SCALE



NIZHONI BOULEVARD STREET SECTION

FIGURE 3 - TYPICAL STREET SECTION

NMSHC NMHP No. S-1300 (802)  
NMSHC NMHP No. RS-S1300(14)  
MAP-7631(903) D# 13873

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**Project Data Summary Sheet**

Nizhoni Boulevard, NMSHC NMHP No. S – 1300 (802) and NMSHC NMHP No. S – 1300(14), is an existing asphalt pavement roadway located in the City of Gallup. The improvements project will start at the intersection of Nizhoni Boulevard, an urban arterial designated by the City of Gallup’s Street Classification Plan and Second Street. This project will terminate at the intersection of Nizhoni Boulevard and College Drive.

**Street Location and Name:** Gallup New Mexico, Nizhoni Boulevard

**Traffic Volumes:** Current Traffic Volume Data for College Drive, a major connector to Nizhoni Boulevard:

Year	AADT	% Heavy Commercial	DHV	% Heavy Commercial During DHV
2020	7634	13	736	6
2040 Projected	8081	17	779	10

**Pavement Design:** Road Patch (6 inch PMBP on 8 inch Base Course): 1000 SY  
 Two (2)-inch overlay: 14,200 SY

**Typical Section:** See Figure 3 – Typical Street Section

**Major Intersection and Traffic Signal Analysis:** Both major intersections, located at either end of Nizhoni Boulevard, have existing traffic signals. Signal Analysis was completed in 1990.

**Drainage Reports:** Nizhoni Boulevard is an existing road. A drainage study has not been conducted. Drainage structures will accommodate existing storm water flows.

**Preliminary Cost Estimate:**

<b>NIZHONI DRIVE IMPROVEMENTS PROJECT</b>		
Phase 1	Nizhoni Boulevard and 2nd Street (NM 602/610) Intersection Improvements	\$ 824,000.00
Phase 2	Nizhoni Boulevard and College Drive Intersection Improvements	\$ 515,000.00
Phase 3	Nizhoni Boulevard Improvements	<u>\$ 2,266,000.00</u>
<b>PROJECT TOTAL</b>		
Project Total (Including Tax)		\$ 3,605,000.00

**Local Government Resolution of Support for the Project:** Attached is the City of Gallup Resolution.