Doña Ana County

CORRIDOR PROFILES



COMPREHENSIVE ROADWAY SAFETY ACTION PLAN

PROJECT PROFILES OVERVIEW

This section documents proposed countermeasures for five critical corridors and locations along the Priority Safety Network. The project profiles identify both short and long-term improvements based on a review of crash data, existing roadway conditions and design characteristics, and field observations.

1. *Dripping Springs Road & Sonoma Ranch Boulevard*
2. *Doña Ana Road between Dalrymple Road and Thorpe Road*
3. *Mesquite Drive (NM 192/NM 228) between Castillo Road and East Side drive*
4. *McCombs Road between Lisa Drive and State Line Drive*
5. *NM 28 (Lou Henson Highway) between Snow Road and Afton Road*

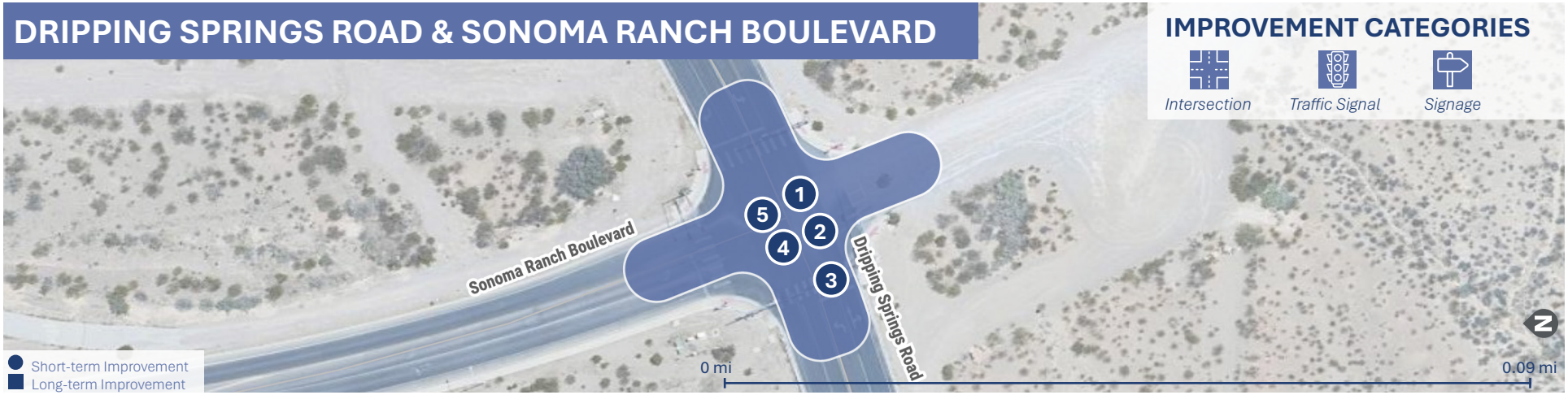
The profiles are complemented by cost estimates and may be used to pursue state and federal funding applications, though further engineering analysis is required as part of the project development process. Specific content in the project profiles includes:

- **Corridor overview**, including location details roadway jurisdiction
- **Corridor context**, including roadway characteristics and multmodal accommodations
- **Crash data**, including crashes by type and number of fatal and severe crashes
- **Corridor improvements**, including detailed countermeasures by location and timeframe for implementation (i.e., short-term or long-term)



** check glossary for signage information*

DRIPPING SPRINGS ROAD & SONOMA RANCH BOULEVARD



CORRIDOR OVERVIEW

Dripping Springs Road & Sonoma Ranch Boulevard
Near the Farm & Ranch Heritage Museum

Corridor Length: Intersection

Community
East of Las Cruces

Road Jurisdiction: Doña Ana County

CORRIDOR CONTEXT

Transit
None

Sidewalk Presence: Yes, northbound on Sonoma Ranch Boulevard

Bicycle Facilities: None – Share the Road signs

Number of Lanes: 2

Posted Speed: 35 mph

Traffic Volume: 1,100-3,700 ADT

CRASH DATA

Total Crashes: 17

Fatal & Severe Injury (FSI) Crashes: 0

Pedestrian or Bicyclist Involved: 1

Top Crash Types: 35% Rear ends

Time of Day: 71% during daylight

CORRIDOR IMPROVEMENTS

1. Add retro-reflective tape around backplates.
2. Extend yellow signal time.
3. Add time of day signal timing for north bound left turn (protected/permissive).
4. Add lane assignment R3 sign series.
5. Add advanced warning sign (W3-3) in all directions.

** check glossary for signage information*

DOÑA ANA ROAD



CORRIDOR OVERVIEW

Doña Ana Road
Between Dalrymple Road & Thorpe Road

Corridor Length: 4.2 Miles
Connects Doña Ana and Las Cruces

Communities
San Ysidro, Doña Ana, and Las Cruces

Road Jurisdiction: Doña Ana County

CORRIDOR CONTEXT

Transit
Copper Line – Thorpe Road to CR 243/Taylor Road

Sidewalk Presence: None

Bicycle Facilities: None

Number of Lanes: 2

Posted Speed: 40 mph

Traffic Volume: 2,400-5,100 ADT

CRASH DATA

Total Crashes: 68 (16.2 crashes per mile)

Fatal & Severe Injury (FSI) Crashes: 1

Pedestrian or Bicyclist Involved: 1

Crash Location: 34% at intersections

Top Crash Types: 24% T-bone

Time of Day: 69% during daylight

CORRIDOR IMPROVEMENTS

1. Add a roundabout with proper signing.
2. Add stop bars.
3. Add plaque sign “cross traffic does not stop” (W4-4P) below stop sign.
4. Consider 4-way stop warrant or roundabout design.
5. Access control for northwest corner property; add delineation with bollards or delineators in conjunction with defining edge striping at the corner.

** check glossary for signage information*

MESQUITE DRIVE (NM 192/NM 228)



CORRIDOR OVERVIEW

Mesquite Drive (NM 192/NM 228)
Between Castillo Road & East Side Drive

Corridor Length: 4.18 Miles
Connects to San Miguel in the west and to Stern Drive (I-10 frontage road) to the east just south of the I-10 Exit 151 “Mesquite”.

Community
Mesquite

Road Jurisdiction: New Mexico Department of Transportation

CORRIDOR CONTEXT

Transit
Red Line - from NM 478 to Stern Drive

Sidewalk Presence: None

Bicycle Facilities: None; Tier 2 Bikeway in NM Bike Plan

Number of Lanes: 2

Posted Speed: 30-45 mph

Traffic Volume: 2,600-3,800 ADT

CRASH DATA

Total Crashes: 41 (9.8 crashes per mile)

Fatal & Severe Injury (FSI) Crashes: 4

Pedestrian or Bicyclist Involved: 0

Crash Location: 44% at intersections

Top Crash Types: 34% T-bone

Time of Day: 76% during daylight

CORRIDOR IMPROVEMENTS

1. Add high visibility paint/edge lines.
   Potential for centerline rumble strips
2. Add chevron signs and curve warning signs (W1-8).
3. Install curve treatements: warning signs, chevrons, safety edge, and rumble strips (centerline or edge)
4. Install RR Crossing sign sequence according to the MUTCD and refresh RR pavement markings and stop bars.
5. Install object markers, delineators, and “Median Keep Right” sign (R4-7).
6. Install larger double posted stop signs and refresh stop bars.
7. Remove schools signs and reinstall crosswalk and general crosswalk warning signs at Mesquite Elementary if crossing is still used by community.
8. At locations involving crashes with objects, add high visibility PM reflective delineators.
9. Conduct access control study, possible solutions include:
   a. Access consolidation
   b. Access relocation
   c. Define driveways
   d. Consideration for addition of a two way left turn lane (TWLTL)

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MESQUITE DRIVE (NM 192/NM 228)



CORRIDOR OVERVIEW

Mesquite Drive (NM 192/NM 228)
Between Castillo Road & East Side Drive

Corridor Length: 4.18 Miles
Connects to San Miguel in the west and to Stern Drive (I-10 frontage road) to the east just south of the I-10 Exit 151 “Mesquite”.

Community
Mesquite

Road Jurisdiction: New Mexico Department of Transportation

CORRIDOR CONTEXT

Transit
Red Line - from NM 478 to Stern Drive

Sidewalk Presence: None

Bicycle Facilities: None; Tier 2 Bikeway in NM Bike Plan

Number of Lanes: 2

Posted Speed: 30-45 mph

Traffic Volume: 2,600-3,800 ADT

CRASH DATA

Total Crashes: 41 (9.8 crashes per mile)

Fatal & Severe Injury (FSI) Crashes: 4

Pedestrian or Bicyclist Involved: 0

Crash Location: 44% at intersections

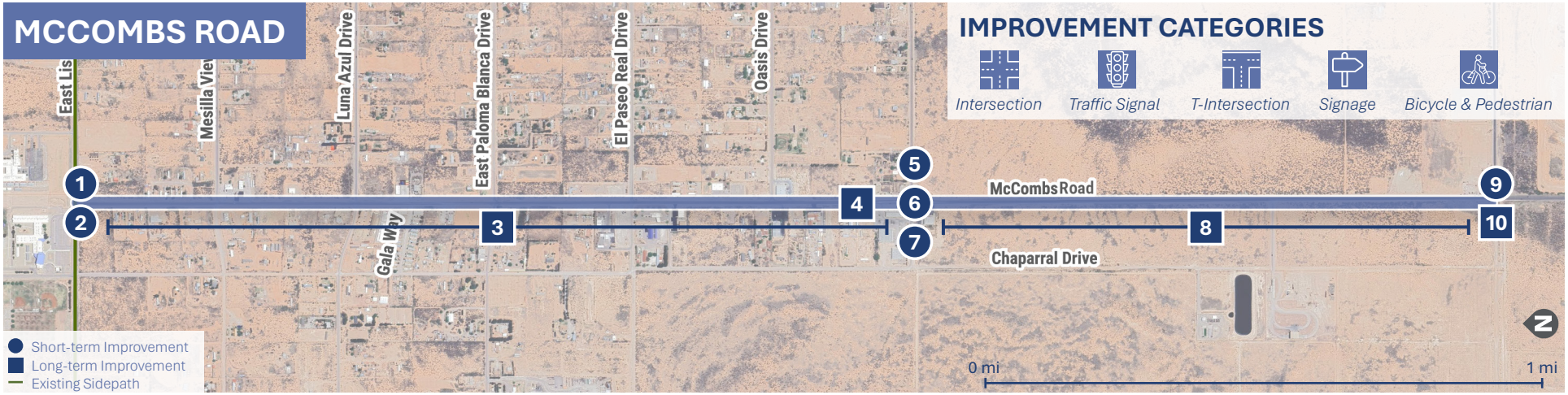
Top Crash Types: 34% T-bone

Time of Day: 76% during daylight

GENERAL CORRIDOR IMPROVEMENTS: 10

a. Update signal warrant analysis for NM 478 and NM 228. If warrants are not met, create a two-step left turn with a receiving acceleration lane and cat tracks.
b. Add post enlarged speed limit signs entering the town.
c. Consider dropping the speed limit to 35 mph.
d. Add curve treatments including: warning signs (W1-2), chevrons (W1-8), SafetyEdgeSM, rumble strips (centerline or edge).
e. Add share the road signs.
f. Add reflectors on bridge and guardrail object markers.

** check glossary for signage information*



CORRIDOR OVERVIEW

McCombs Road
Between Lisa Drive & State Line Drive

Corridor Length: 2.5 miles
Connects residential areas in the community of Chaparral to schools along Lisa Drive to the north and to El Paso, Texas to the south.

Community
Chaparral

Road Jurisdiction: Doña Ana County

CORRIDOR CONTEXT

Transit
South Central RTD Turquoise Line - from Paseo Real Drive to State Line Drive

Sidewalk Presence: None

Bicycle Facilities: None; sidepath proposed along McCombs Road

Number of Lanes: 2

Posted Speed: 30-40 mph

Traffic Volume: 6,400

CRASH DATA

Total Crashes: 46 (18.4 crashes per mile)

Fatal & Severe Injury (FSI) Crashes: 2

Pedestrian or Bicyclist Involved: 0

Crash Location: 87% at intersections

Top Crash Types: 46% Rear ends

Time of Day: 76% during daylight

CORRIDOR IMPROVEMENTS

1. Restripe and include a high visibility crosswalk on west leg; add stop bars at double posted stop signs.
2. Add a signage sequence for both east and westbound of the following signs: S4-5, S1-1 with W16-9P and W16-7PL, and W3-1*; make crosswalks high visibility; add stop bars. *Optional: Add "SCHOOL" Pavement markings on either side.*
3. Sidepath proposed for the west side of McCombs Road.
4. Consider right-in/right-out island or striping at commercial uses. *Effective access management improves safety, and overall efficiency of the transportation network.*
5. Add retrofelective pavement markings, including high visibility crosswalk across north leg; add W11-2 with W16-7PL signage double posted in both directions for the crosswalk.
6. Add R4-7 signs at median noses. Add OM-3 object markers, facing oncoming traffic.
7. Add advanced warning signs W3-1 along McCombs Road; consider transverse rumble strip approaching stop sign.
8. Add wider shoulders for bicycle accommodation and safety edge for easier correction when motorists drift off road.
9. Add stop bars and advanced warning signs for intersection on McCombs Road and stop signs on State Line Drive.
10. Future traffic control study. Include roundabout in alternatives.

** check glossary for signage information*

NM 28 (LOU HENSON HIGHWAY)



CORRIDOR OVERVIEW

Lou Henson Highway (NM 28)
Between Snow Road & Afton Road

Corridor Length: 11.2 miles
Connects to San Pablo in the north to La Mesa.

Communities
Santo Tomas, San Miguel, La Mesa

Road Jurisdiction: New Mexico Department of Transportation

CORRIDOR CONTEXT

Transit
None

Sidewalk Presence: None

Bicycle Facilities: None (one Share the Road sign); Tier 1 Bikeway in NM Bike Plan

Number of Lanes: 2

Posted Speed: 30-50 mph

Traffic Volume: 1,900-2,400 ADT

CRASH DATA

Total Crashes: 67 (5.9 crashes per mile)

Fatal & Severe Injury (FSI) Crashes: 7

Pedestrian or Bicyclist Involved: 1

Crash Location: 25% at mid-block

Top Crash Types: 31% Hit fixed object

Time of Day: 70% during daylight

CORRIDOR IMPROVEMENTS

1. Add intersection and stop ahead warning signs (W2-1 & W3-1) for NB and SB NM 28.
2. Move headwalls further from roadways.
3. Add stop bars markings.
4. Add “cross traffic does not stop” plaque (W4-4P) in conjunction with stop signs.
5. Install guardrail along open air irrigation ditches. *(Solution may be implemented at multiple locations and consistently along the corridor as funding becomes available.)*
6. Add appropriate curve warning signs.
7. Add lit chevron signs, rumble strips, and high visibility pavement markings on sides and/or center line.
8. Add W1-10e and other appropriate curve warning signs.
9. Add stop bars and W3-1 warning signs.
10. Add W4-4p plaques under stop signs. *Potential for transverse rumble strips.*
11. Consider a roundabout with warning signs.

** check glossary for signage information*

NM 28 (LOU HENSON HIGHWAY)



CORRIDOR OVERVIEW

Lou Henson Highway (NM 28)
Between Snow Road & Afton Road

Corridor Length: 11.2 miles
Connects to San Pablo in the north to La Mesa.

Communities
Santo Tomas, San Miguel, La Mesa

Road Jurisdiction: New Mexico Department of Transportation

CORRIDOR CONTEXT

Transit
None

Sidewalk Presence: None

Bicycle Facilities: None (one Share the Road sign); Tier 1 Bikeway in NM Bike Plan

Number of Lanes: 2

Posted Speed: 30-50 mph

Traffic Volume: 1,900-2,400 ADT

CRASH DATA

Total Crashes: 67 (5.9 crashes per mile)

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Top Crash Types: 31% Hit fixed object

Time of Day: 70% during daylight

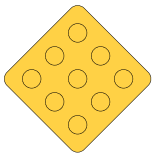
GENERAL CORRIDOR IMPROVEMENTS: 12

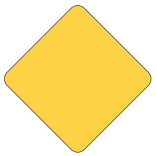
a. Coordinate with EBID to move irrigation ditch headwalls away from roadway edges, creating safety clearance and space for safe bicycling.
b. Add guardrail to adjacent irrigation ditches.
c. Consider high visibility paint for striping and include edge lines - possible rumble strips.
d. Include school safety signs: S3-1 ahead of verified school bus stops and S3-2 at known turns for buses.
e. Add curve treatments including: warning signs, chevrons, safety edge, possible rumble strips (centerline or edge).
f. Add wider shoulders, in accordance with NM Bike Plan, and add Share the Road signs (W16-1P).
g. Drop speed limit to 35 NB NM 28 before Cascade Avenue (medical center and North Valley elementary located just east of the intersection).
h. Apply intersection warning signs.
i. Apply regularly spaced speed limit signs.
j. Conduct an overall corridor study to streamline improvements and identify specific design solutions.

** check glossary for signage information*

SIGNAGE GLOSSARY

OBJECT MARKER


OM1-1


OM1-3


OM3-L


OM3-R

SCHOOL


S1-1



S3-1



S3-2



S4-5

REGULATORY



R1-1



R1-2



R2-1


R4-7



R6-1


R6-5P



R15-1



R15-2P
(2 TRACKS)

WARNING


W1-2


W1-3


W1-4


W1-5


W1-8l


W1-8r


W1-10e


W2-1


W2-6


W3-1


W3-3



W3-5



W3-6



W3-8



W4-4P



W8-23



W10-1



W11-1/W16-1


W11-2


W16-7P


W16-7PL



W16-8P



W16-9P