

Bohannan 🔺 Huston

# Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

February 6, 2025 Transportation Board

Attachment A

### INTRODUCTIONS



#### Keith Wilson

Project Manager

Public Works Department



Jared Lee Engineering Principal



Attachment A

Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

# PROJECT UPDATE

35

Attachment A

0 0

\*\*\*\*\*\*\*\*\*\*

# VICINITY MAP

### Within the Project Area:

- NM4
- Piñon Park
- Piñon Elementary School





Los Alamos County NM4 Crossing & Multi-Use Trail Improvements



### Bohannan 🛦 Huston

# **AGENDA**

- HAWK Crossing Location Re-evaluation
- NM4 Westbound Lane Reduction **Re-evaluation**
- NM4 Northside Trail Location **Re-evaluation**
- Piñon Elementary School Trail Update
- Schedule
- Questions/Feedback

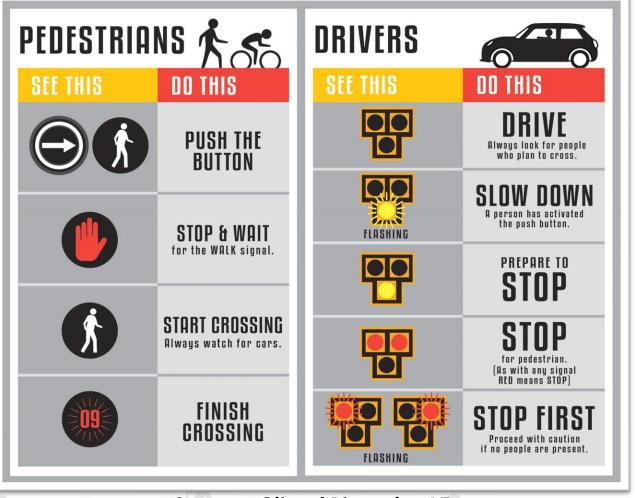


#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION

# **HAWK SIGNALS**



Source: The Land



Source: City of Phoenix, AZ



Attachment A

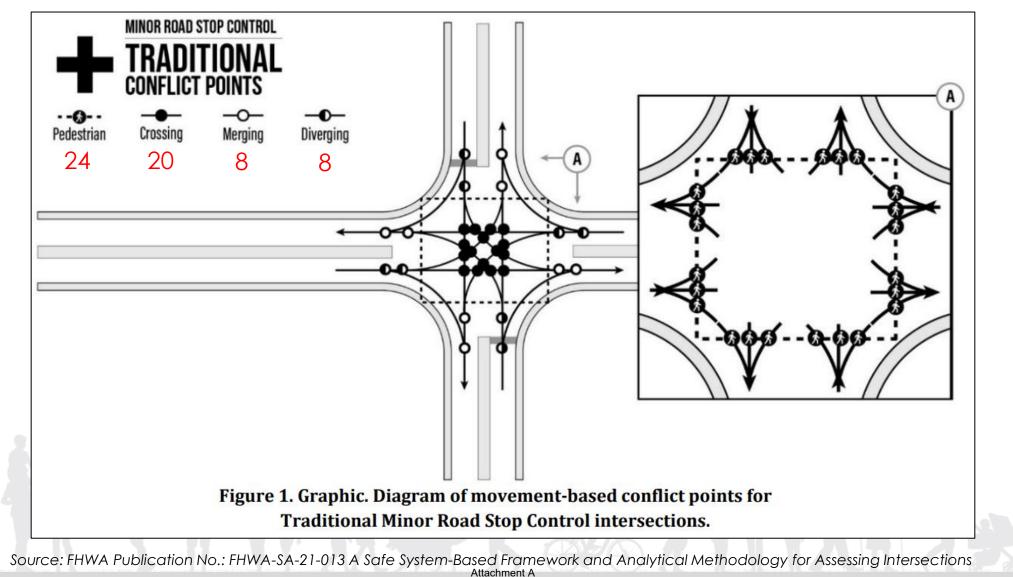
Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION



LOS ALAMOS

#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION NM4/La Vista Dr Intersection





#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION NM4/La Vista Dr Intersection

NM4

- 36 Vehicle/Vehicle Conflict Points
- 24 Pedestrian/Vehicle Conflict Points
- 6 Pedestrian/Vehicle Conflict Points in HAWK Crossing
- 67ft Crossing Distance
- No Median Refuge
- 19 Second Exposure @ 3.5ft per sec



NM4

Pedestrian Route Pedestrian Conflict Point

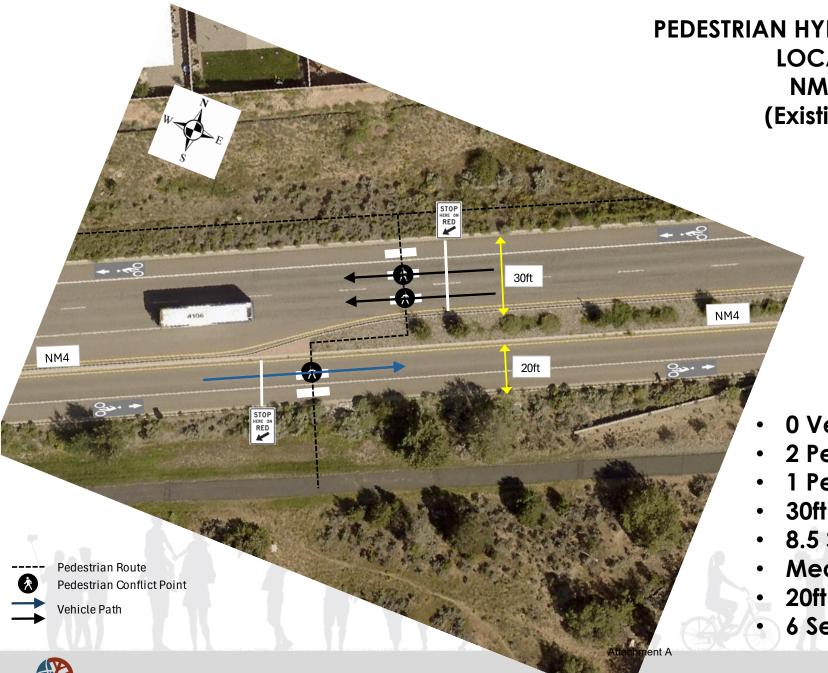
Vehicle Path

LA VISTADR

STOP HERE ON RED

67ft

D'S MONTERER "



LOS ALAMOS

#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION NM4 Mid-Block Location (Existing Road Cross Section)

- 0 Vehicle/Vehicle Conflict points
- 2 Pedestrian/Vehicle Conflict Points (WB)
- 1 Pedestrian/Vehicle Conflict Points (EB)
- 30ft Crossing Distance (WB)
- 8.5 Second Exposure @ 3.5ft per sec (WB)
- Median Refuge
- 20ft Crossing Distance (EB)
- 6 Second Exposure @ 3.5ft per sec (EB)

#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION NM4 Mid-Block Location (Proposed WB Lane Reduction Cross Section)

- 0 Vehicle/Vehicle Conflict points
- 1 Pedestrian/Vehicle Conflict Points (WB)
- 1 Pedestrian/Vehicle Conflict Points (EB)
- 20ft Crossing Distance (WB)
- 6 Second Exposure @ 3.5ft per sec (WB)
- Median Refuge

20ft

20ft

- 20ft Crossing Distance (EB)
- 6 Second Exposure @ 3.5ft per sec (EB)



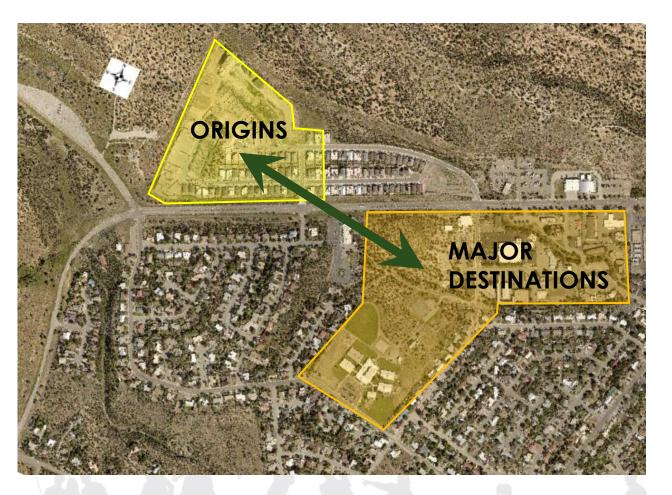
NM4

Pedestrian Route

Vehicle Path

Pedestrian Conflict Point

#### PEDESTRIAN HYBRID BEACON (HAWK) CROSSING LOCATION RE-EVALUATION SUMMARY



#### NM4/La Vista Intersection

Cons

#### Pros

- Convenient Route for All Destinations
- Increased Pedestrian
  Exposure
- Complex Decision
  Making for all Users
- Less Safe
- Longer Delays

#### **Mid-Block Crossing**

**RECOMMEND Mid-Block Crossing** 

#### Pros

- Minimal Pedestrian Exposure
- Simplified Decision
  Making for all Users
- Safer
- Shorter Delays
- Convenient Route for Major Destinations

#### Cons

 Less Convenient Route for Some Destinations



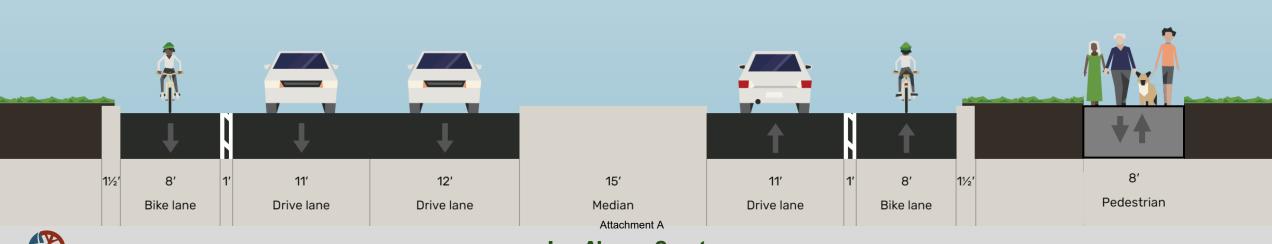
Bohannan 🛦 Huston

Attachment A



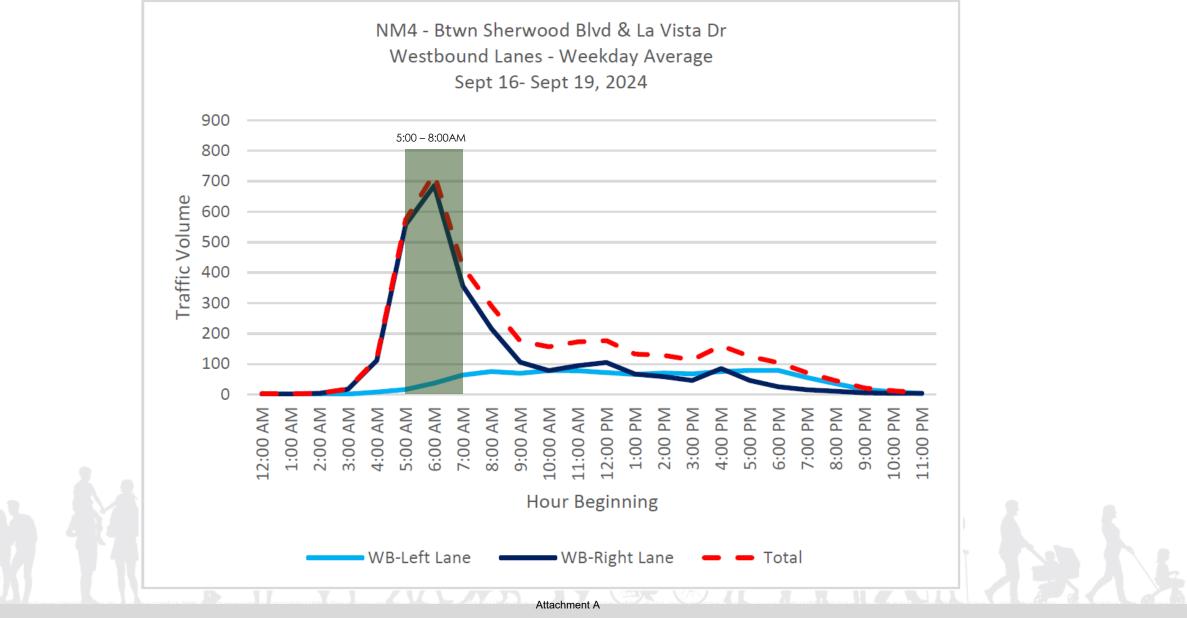


### Existing Cross-Section Sherwood Blvd to La Vista Dr





Los Alamos County NM4 Crossing & Multi-Use Trail Improvements













#### NORTHSIDE TRAIL LOCATION RE-EVALUATION

#### New Trail in Buffer Area



- Alignment could not be place at the back of curb due to requiring significant drainage work.
- Corridor with minimal utility conflicts available.
- Require cut in some areas and fill in others to meet ADA slope requirements and connection to mid-block crossing.
- Basalt Rock is near surface in some areas.
- Estimated cost approximately 5 Times more than the cost to place the trail in NM4 Roadway



#### NM4 WESTBOUND LANE REDUCTION RE-EVALUATION NORTHSIDE TRAIL LOCATION REVALUATION SUMMARY

#### NM4 Westbound Lane Reduction

#### Pros

- Allows Trail to Utilize
  Roadway reducing
  construction costs
- Help Moderate
  Speeds to 35 MPH
  Speed Limit
- Improved safety at mid-block crossing
- Could be reestablished in the future if capacity is needed

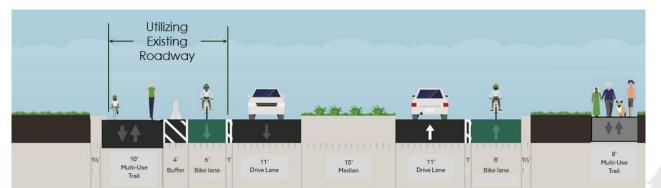
#### Cons

- Potential delays from slow moving trucks
- Pros
- Trail Buffered from
  NM4

#### Northside Trail in Buffer Area

#### Cons

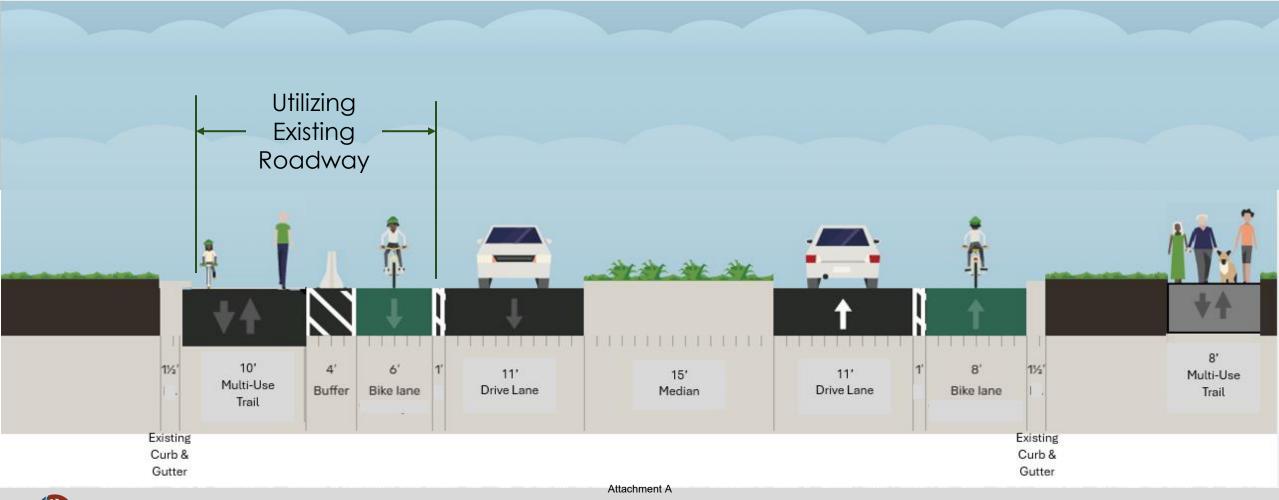
- 5 Times more Cost
- Some Construction Unknowns (Basalt)



### **RECOMMEND WB Lane Reduction and Trail Placement on NM4**



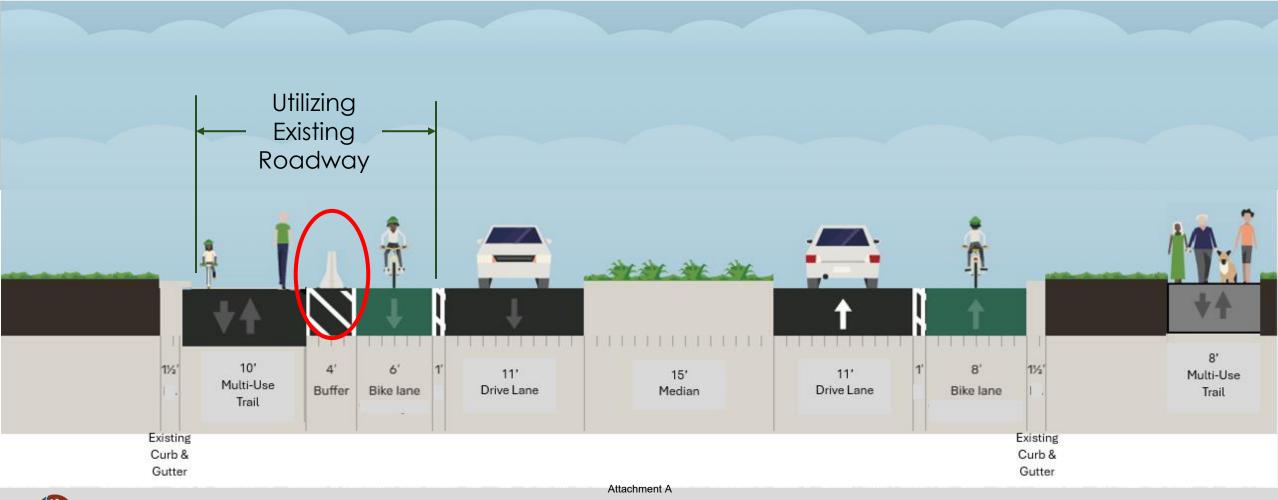
### **NM4 PROPOSED CROSS SECTIONS**





Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

### **NM4 PROPOSED CROSS SECTIONS**

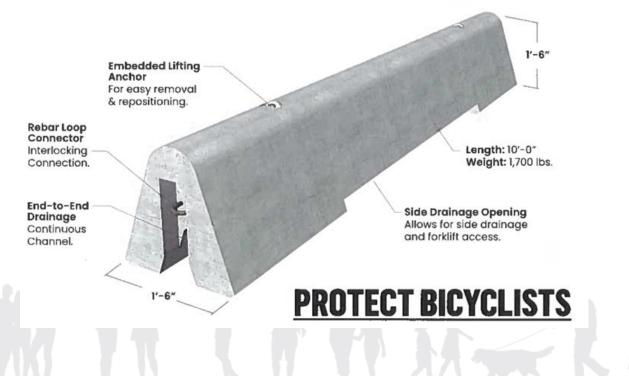




Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

### **PROPOSED TRAIL BUFFER BARRIER**

### **SAFE-T LANE Bike Lane Divider**







Attachment A

Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

### PROJECT DETAILS PIÑON ELEMENTARY TRAIL

- Easement drafted and under review by Los Alamos Public Schools to allow this trail section to be incorporated into the project.
- ~850 linear feet of existing trail reconstruction along the west side of the school campus to improve the existing trail condition and accessibility. With Easement it will be open for public access.
- Extending the existing trail to connect with the sidewalk on the northside of Grand Canyon Drive
- Continuing to pursue Federal Funding for this Trail.

Existing Trail to be Reconstructed New Trail

**Existing Trail needing** to be Reconstructed ECEMIER

New Trail Connection to Grand Canyon Dr



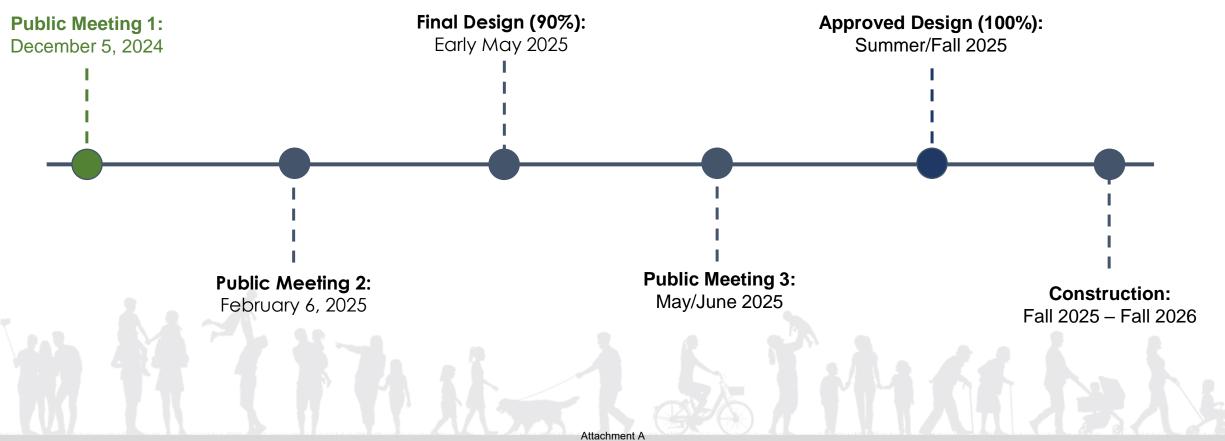
Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

Bohannan 🛦 Huston

o Sherwood Blvd

Businesses

## **PROJECT SCHEDULE**





**Los Alamos County** NM4 Crossing & Multi-Use Trail Improvements

# **QUESTIONS?**





Attachment A

Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

# **Comments/Contacts**

Please submit all comments in writing by **COB February 20** to:

Keith Wilson Public Works Department 1000 Central Avenue, Suite 160 Los Alamos, NM 87544 or Email: **keith.wilson@lacnm.us** or Phone: **(505)663-1757** 



Los Alamos County NM4 Crossing & Multi-Use Trail Improvements

Attachment A

## **Thank You!**

The Public Works Department staff thanks you for taking time out of your busy schedule to participate in the design and construction of this important public project!



Attachment A