



Cave Creek Carefree Transportation Framework Study

Cave Creek Town Council

December 15, 2014

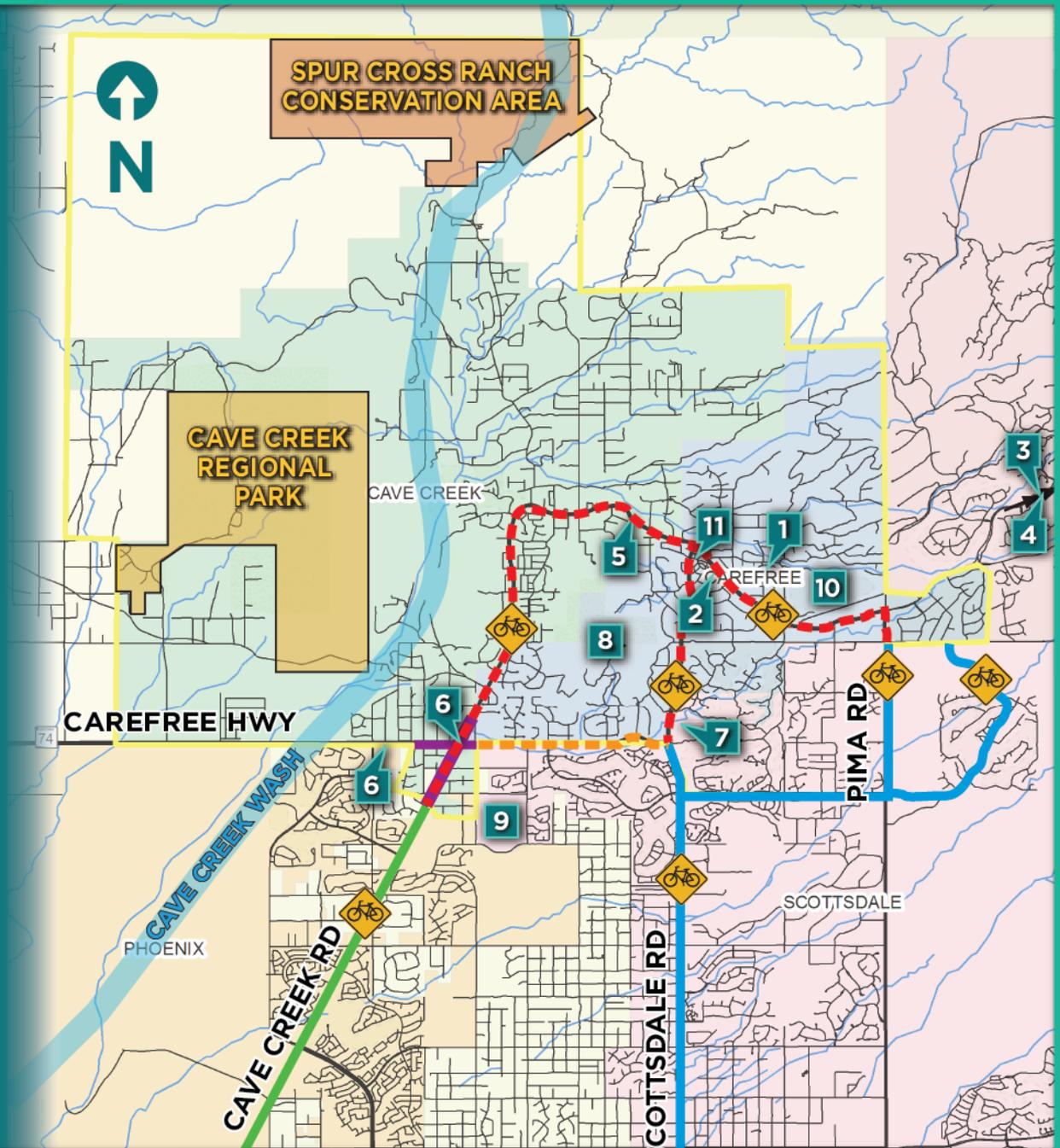
Presented for:



Study Area

- 1 - Carefree Resort
- 2 - Spirit in the Desert
- 3 - Seven Springs
- 4 - Bartlett Lake
- 5 - Cave Creek Town Center
- 6 - Commercial Services Area
- 7 - The Boulders
- 8 - Black Mountain
- 9 - Cave Creek Schools
- 10 - Skyranch
- 11 - Carefree Town Center

- Phoenix Sonoran Bikeway
- Scottsdale Shared Use Path
- Future Bike Lane
- Future Bike & Roadway Improvements
- Commercial Services Area
- Study Boundary





Study Purpose

- **Create a transportation master plan (play book)**
 - Builds on existing plans and studies
 - Includes future short- and long-term projects
 - *New funding needed for implementation*
- **Includes all modes of travel**
 - Roadway
 - Bicycle and pedestrian links, safety
 - Special event travel, parking and safety



Communities' Transportation Priorities

- Ped safety/connections: sidewalks/paths, crosswalks
- Bike safety: bike lanes
- Increase parking for businesses and events
- Local detour route
- Transit
- Sense of Place



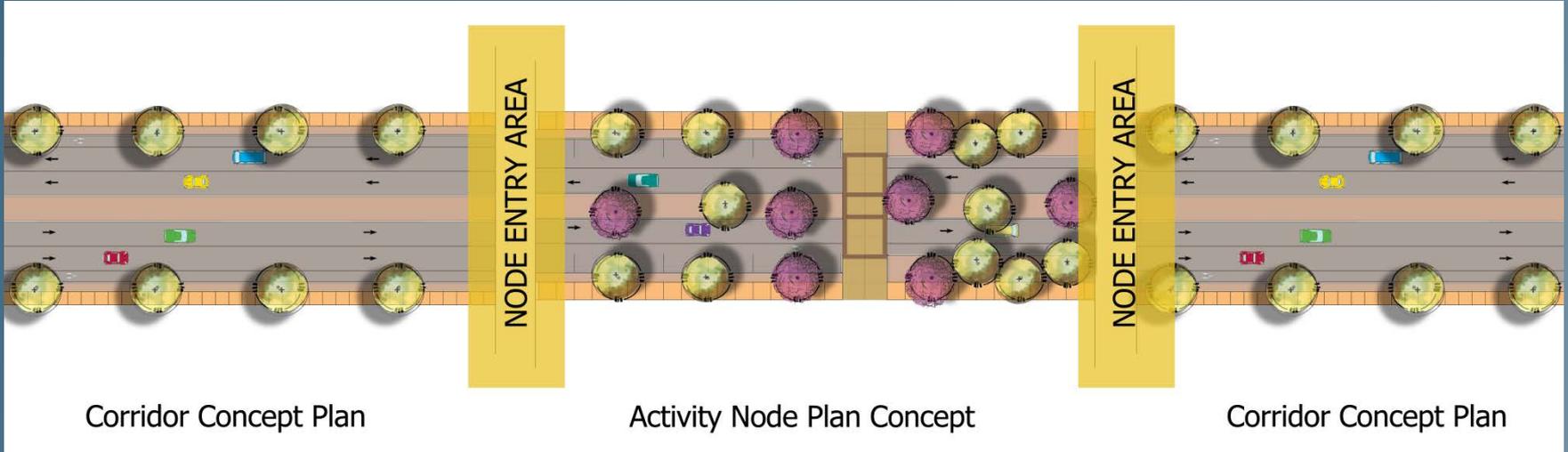


Public and Stakeholder Outreach

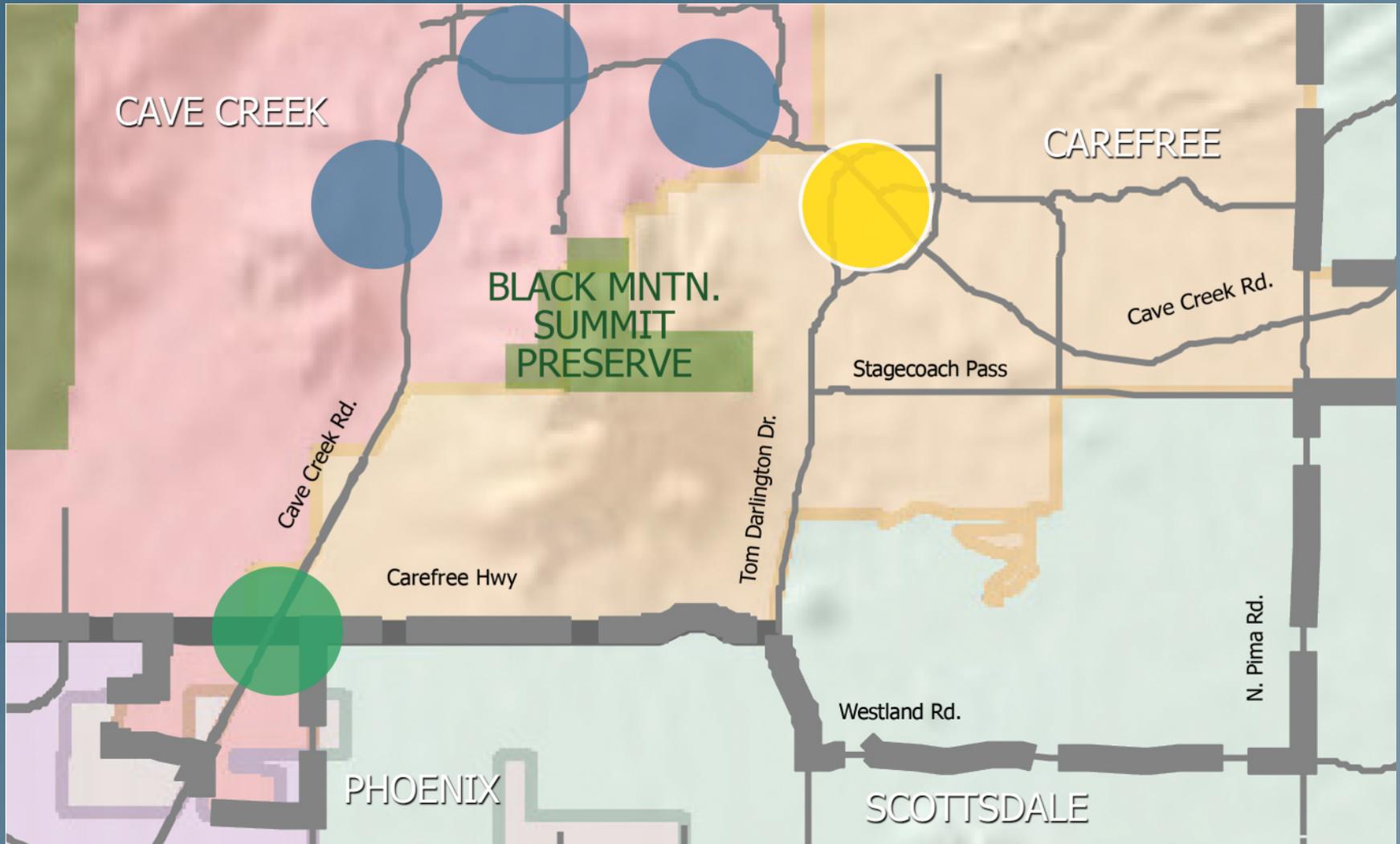
- 1,600 contacts (workshops, surveys, meetings)
- Alternatives at public meeting April 2014
- Online community survey (266 responses)



Nodes and Corridors Concept

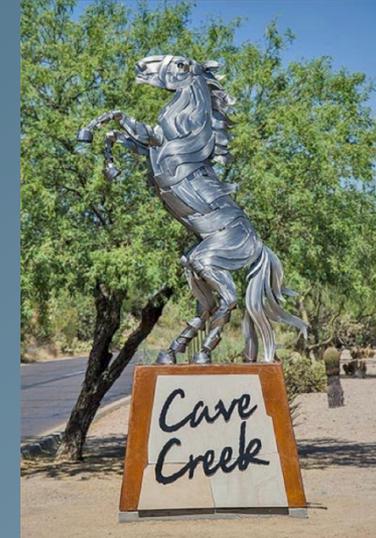
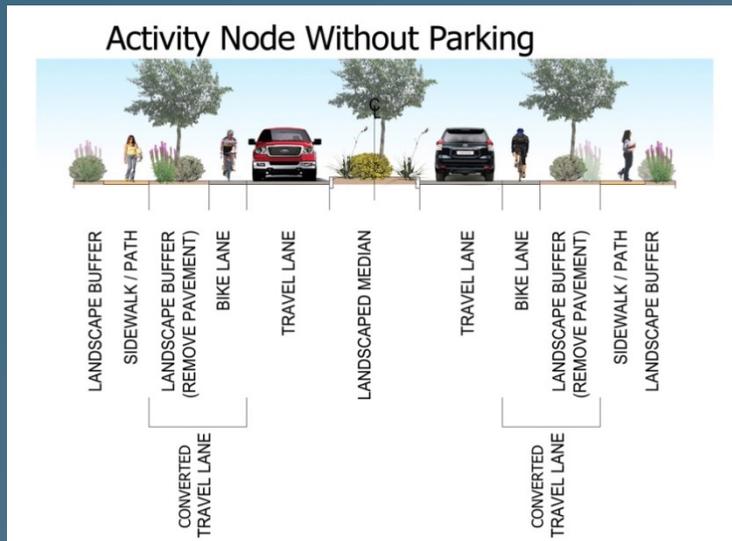


Activity Node Locations

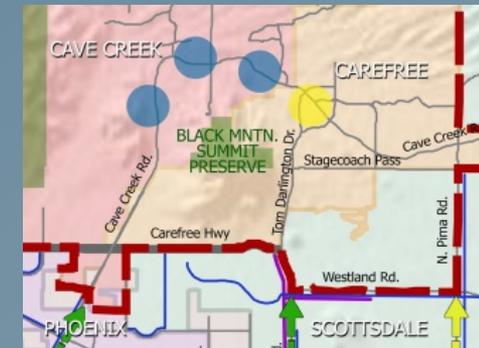




Recommendations – Activity Nodes



- Bike lanes and sidewalks
- Entry feature, traffic calming and sense of arrival
- Additional pedestrian and bike amenities
- Additional off-street parking
- One lane per direction (alternative)
- Current: 11,000 vpd/Future: 13,000 - 15,000 vpd
- 70% support





Tolleson – Van Buren Street





Scottsdale - Cactus Road 8,300 vpd



Sedona - Tlaquepaque 13,000 vpd



Phoenix - Grand Avenue 11,600 vpd





2035 Eastbound Cave Creek Road

| Roadway Segment | | Travel Time (sec) | Distance (mi) | Arterial Speed (mph) | Arterial LOS |
|--------------------------------|-------------------|-------------------|---------------|----------------------|--------------|
| From | To | | | | |
| <i>EB Cave Creek Road</i> | | | | | |
| Long Rifle Rd | Spur Cross Rd | 164.2 | 1.20 | 20.7 | D |
| Spur Cross Rd | School House Rd | 79.6 | 0.47 | 21.4 | C |
| School House Rd | Tom Darlington Dr | 158.9 | 1.29 | 29.1 | B |
| <i>NB Cave Creek Road</i> | | | | | |
| Carefree Dr | Tom Darlington Dr | 30.5 | 0.18 | 20.8 | C |
| Tom Darlington Dr | School House Rd | 166.1 | 1.29 | 27.9 | B |
| School House Rd | Spur Cross Rd | 78.0 | 0.47 | 21.8 | C |
| <i>NB Tom Darlington Drive</i> | | | | | |
| Never Mind Trail | Cave Creek Rd | 94.3 | 0.72 | 27.6 | B |

Current Configuration

Lane Reduction

| Roadway Segment | | Travel Time (sec) | Distance (mi) | Arterial Speed (mph) | Arterial LOS |
|--------------------------------|-------------------|-------------------|---------------|----------------------|--------------|
| From | To | | | | |
| <i>EB Cave Creek Road</i> | | | | | |
| Carriage Dr | Spur Cross Rd | 159.7 | 1.11 | 26.7 | D |
| Spur Cross Rd | School House Rd | 85.2 | 0.47 | 20.0 | C |
| School House Rd | Tom Darlington Dr | 160.8 | 1.29 | 28.8 | B |
| <i>NB Cave Creek Road</i> | | | | | |
| Carefree Dr | Tom Darlington Dr | 32.6 | 0.18 | 19.5 | C |
| Tom Darlington Dr | School House Rd | 175.3 | 1.29 | 26.4 | B |
| School House Rd | Spur Cross Rd | 102.2 | 0.47 | 16.6 | D |
| <i>NB Tom Darlington Drive</i> | | | | | |
| Never Mind Trail | Cave Creek Rd | 94.3 | 0.72 | 27.6 | B |



2035 Westbound Cave Creek Road

| Roadway Segment | | Travel Time (sec) | Distance (mi) | Arterial Speed (mph) | Arterial LOS |
|--------------------------------|-------------------|-------------------|---------------|----------------------|--------------|
| From | To | | | | |
| <i>EB Cave Creek Road</i> | | | | | |
| Long Rifle Rd | Spur Cross Rd | 164.2 | 1.29 | 28.3 | B |
| Spur Cross Rd | School House Rd | 79.6 | 0.47 | 21.4 | C |
| School House Rd | Tom Darlington Dr | 158.9 | 1.29 | 29.1 | B |
| <i>WB Cave Creek Road</i> | | | | | |
| Carefree Dr | Tom Darlington Dr | 30.5 | 0.18 | 20.8 | C |
| Tom Darlington Dr | School House Rd | 166.1 | 1.29 | 27.9 | B |
| School House Rd | Spur Cross Rd | 78.0 | 0.47 | 21.8 | C |
| <i>NB Tom Darlington Drive</i> | | | | | |
| Never Mind Trail | Cave Creek Rd | 94.3 | 0.72 | 27.6 | B |

Current Configuration

Lane Reduction

| Roadway Segment | | Travel Time (sec) | Distance (mi) | Arterial Speed (mph) | Arterial LOS |
|--------------------------------|-------------------|-------------------|---------------|----------------------|--------------|
| From | To | | | | |
| <i>EB Cave Creek Road</i> | | | | | |
| Carriage Dr | Spur Cross Rd | 152.3 | 1.11 | 26.3 | B |
| Spur Cross Rd | School House Rd | 85.2 | 0.47 | 20.0 | C |
| School House Rd | Tom Darlington Dr | 160.8 | 1.29 | 28.8 | B |
| <i>WB Cave Creek Road</i> | | | | | |
| Carefree Dr | Tom Darlington Dr | 30.5 | 0.18 | 20.8 | C |
| Tom Darlington Dr | School House Rd | 175.3 | 1.29 | 26.4 | B |
| School House Rd | Spur Cross Rd | 102.2 | 0.47 | 16.6 | D |
| <i>NB Tom Darlington Drive</i> | | | | | |
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Recommendations

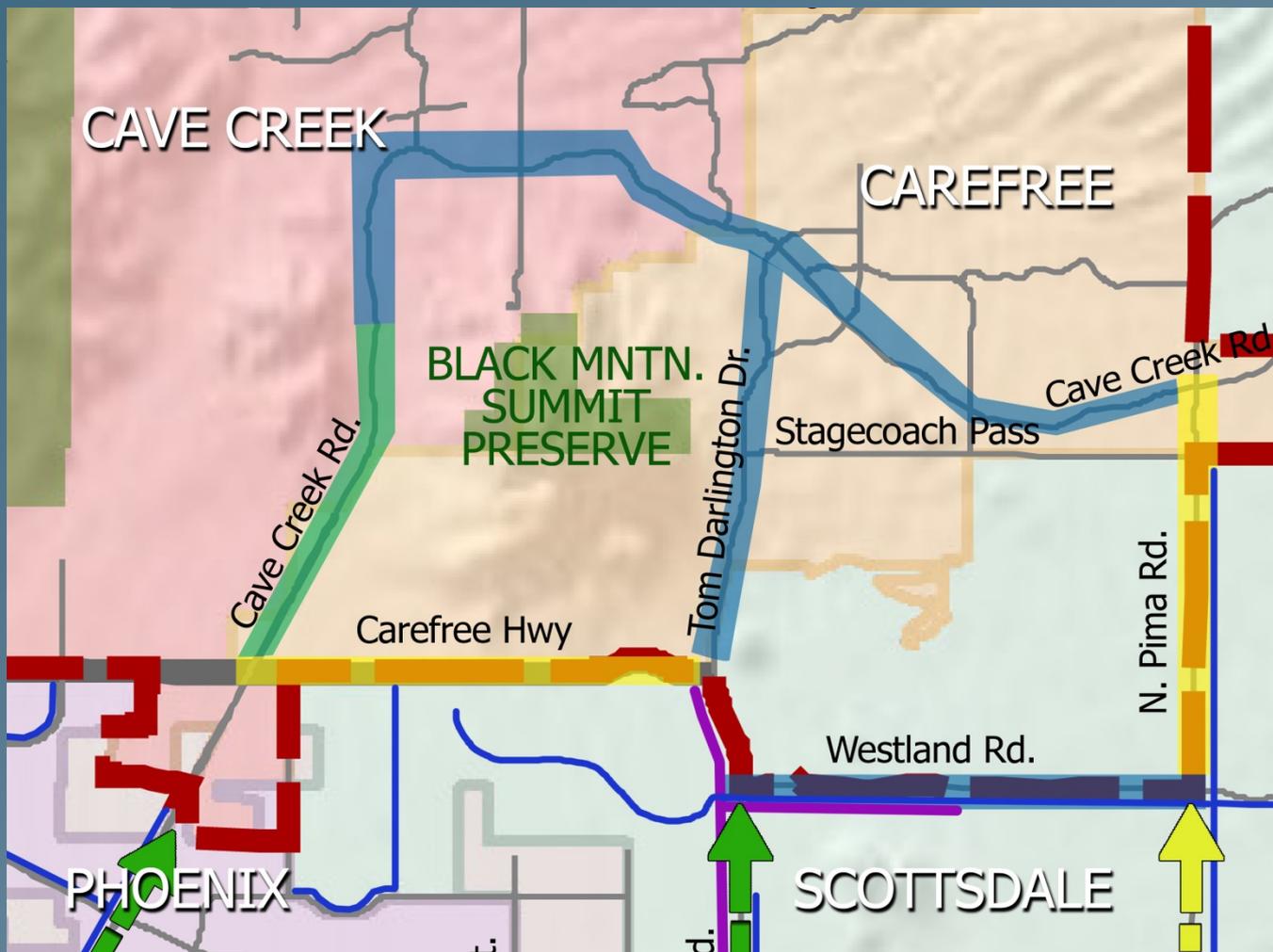
Gateway District Activity Node

- Bike lanes
- Sidewalks
- Crosswalk improvements
- Signal improvements





Corridor Locations





Interim Carefree Hwy & Pima Rd

Interim Carefree Highway and Pima Road



LANDSCAPE BUFFER

SIDEWALK / PATH

LANDSCAPE BUFFER

BIKE LANE

TRAVEL LANE

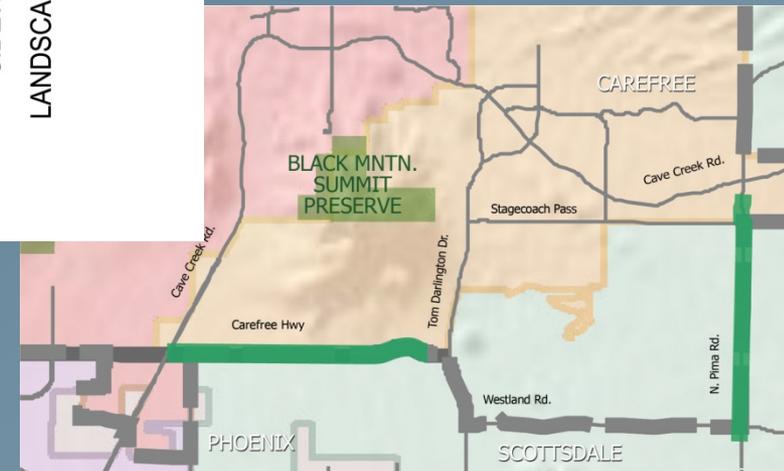
TRAVEL LANE

BIKE LANE

LANDSCAPE BUFFER

SIDEWALK / PATH

LANDSCAPE BUFFER

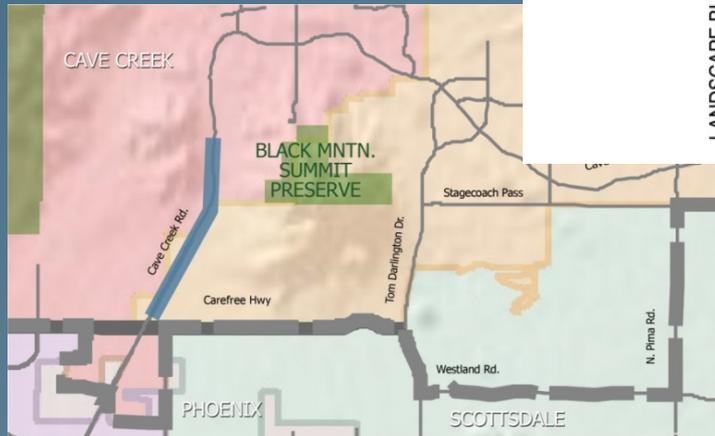
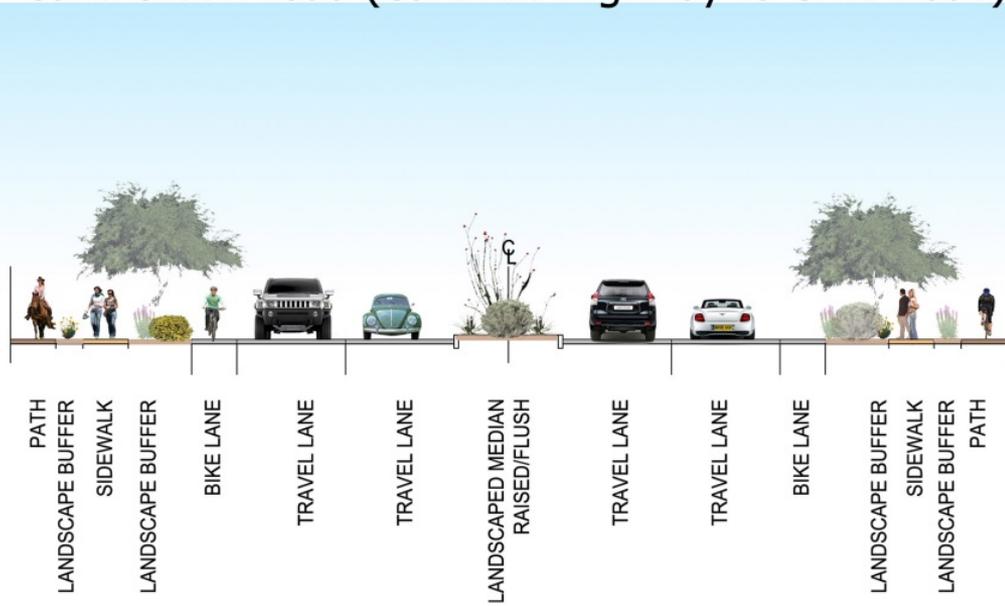


- 59% support

Cave Creek Rd (CFH to Civic Node)



Cave Creek Road (Carefree Highway to Civic Node)



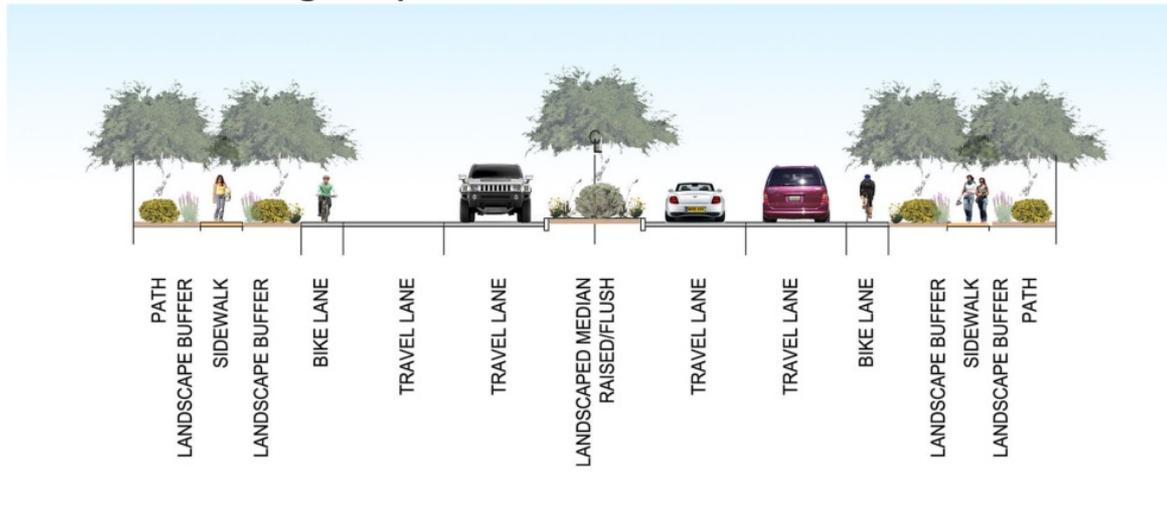
- 65% support



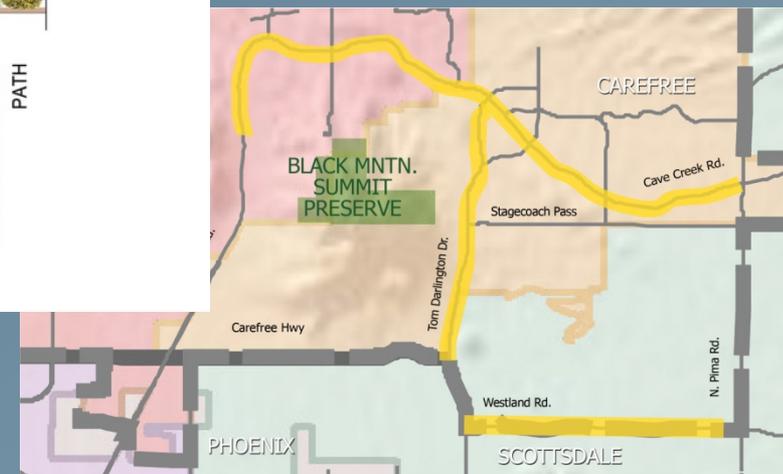
Cave Creek Rd, Tom Darlington Dr, Westland Rd, Carefree Hwy, Pima Rd.

Ultimate Configuration

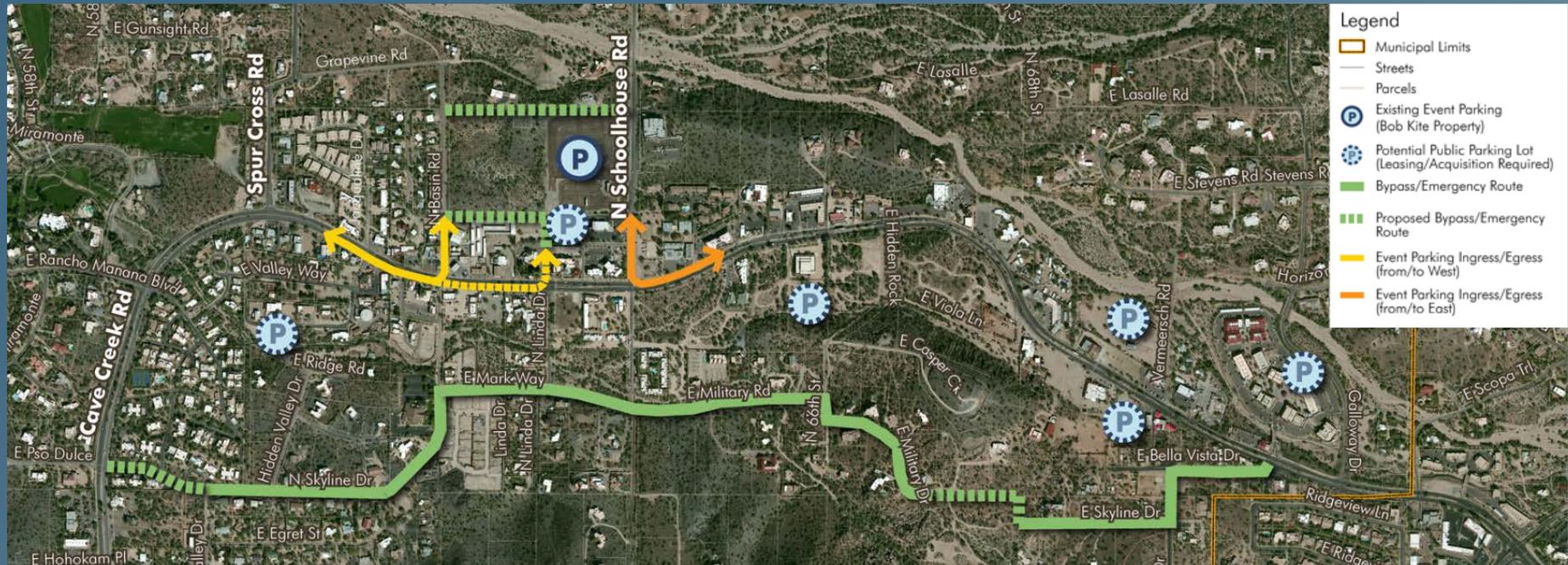
Cave Creek Road-Tom Darlington Drive-Westland Road
Carefree Highway east of Cave Creek Road - Pima Road



- 65% support



Events/Parking - Cave Creek



Community Preferences/Input

- Support for overall recommendations, particularly bypass route and parking locations
- Traffic management critical – don't repeat Bike Week



Recommendations – Equestrians

- Accommodate outside the roadway
- Expand trail system where needed
- Separate from bicyclists



Recommendations – Bicycle Tourism

- Maximize economic benefits
- Foster bike friendly environment
- Market events and tourism





Near-Term Improvements

- Bike lanes and Cave Creek Pedestrian Connector
- Special Events policies and procedures
- Continued support for Transit
- Gateway Node

Mid-Term Improvements

- Interim Carefree Highway

Long-Term Improvements

- Corridor and Nodes



Project Development

- **Planning Study**
 - Conceptual
- **Feasibility Study**
 - Fatal flaws
- **Scoping Study / Design Concept Report**
 - Preliminary engineering
- **Design**
- **Construction**
- **Individual phases in C.I.P approved by Council**



Framework Recommendations

- Planning level - provides a “play book” for future transportation improvements
- No funding available for improvements, except bike lane
- Completed study will allow towns and MAG to seek funding