SANTA FE METROPOLITAN PEDESTRIAN MASTER PLAN





SANTA FE METROPOLITAN PLANNING ORGANIZATION

DESIGN OFFICE. AOS ARCHITECTS

SANTA FE MPO PLANNING AREA

Santa Fe, NM

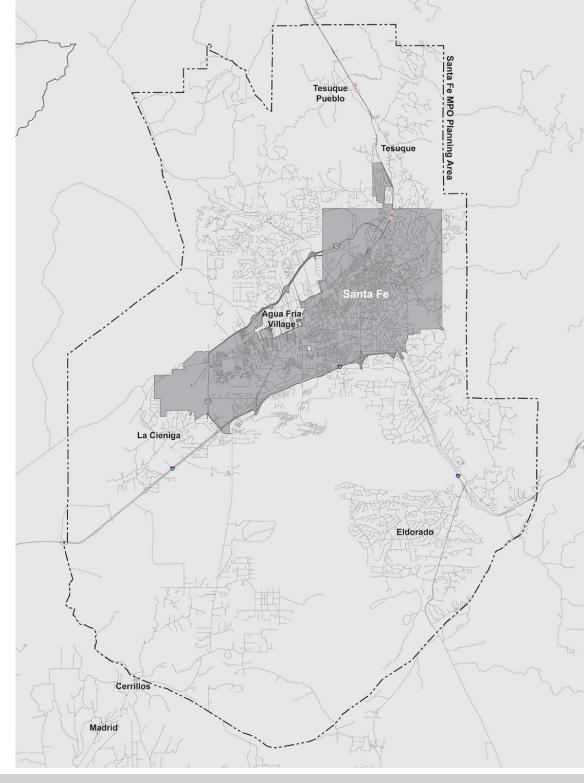
area = 52.5 sq. mi population = 81,198 (2014)

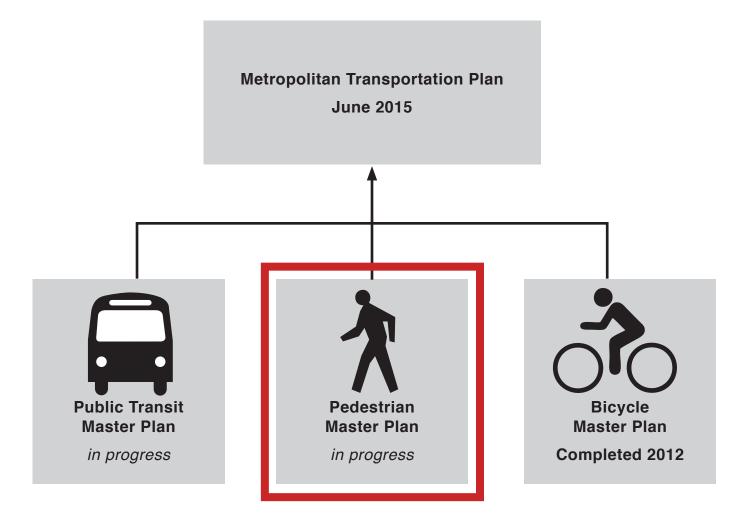
Santa Fe MPO Planning Area

area = 426.6 sq. mi population = 116,386 (2013)

MPO Metropolitan Planning Organization

The purpose of the MPO is to create a forum for transportation decision making in the metropolitan planning area.





PEDESTRIAN MASTER PLAN GOALS AND POLICIES

VISION DRAFT

vision

The residents of Santa Fe envision a community that invites people of all ages and abilities to walk for enjoyment, exercise, and daily transportation by providing a safe, convenient, and attractive pedestrian environment.



PEDESTRIAN MASTER PLAN GOALS AND POLICIES

GOALS DRAFT

safety

Improve pedestrian safety through well-designed facilities along and across roadways, and by promoting safe driving, walking, and bicycling behaviors.

equity

Provide accessible pedestrian facilities for all through equity in public engagement, service delivery, and capital investment.

health

Develop a pedestrian network that promotes active, healthy lifestyles and sustains a healthy environment.

social

Enhance social interactions by creating inviting public places for people to socialize.

multi-modal transportation

Develop high-quality pedestrian facilities that provide access to all other modes of transportation.

economic sustainability

Enhance economic vibrancy by creating safe and aesthetically pleasing walking environments with easy connections to commercial centers and inviting public places for people to socialize.

connectivity

Provide a citywide network of accessible, efficient, and convenient pedestrian infrastructure that connects homes, jobs, shopping, schools, services, and recreation areas using sidewalks, crosswalks, shared-use paths, bridges, tunnels, and signage.

land use and site design

Employ land use planning and site design requirements that are conducive to pedestrian travel and result in a mode shift away from automobile trips to walking trips.

environment

Improve the environment with landscaped pedestrian corridors that provide shade, improve air quality, encourage walking, and reduce CO2 emissions with fewer automobile trips.







PEDESTRIAN MASTER PLAN STATISTICS

Economic Benefits

Increased Sales

Pedestrians and bicyclists spend less money per trip, but make more frequent visits to businesses through out the month, averaging more spending than their car-driving counterparts. (Clifton, 2013)

Property Values and Stability

A one-point increase in Walk Score was associated with a \$500-\$3,000 increase in home values (Cortright, 2009).

Worker Productivity

Bicycling to work significantly reduces absenteeism due to illness. Regular cyclists - 7.4 sick days/yr; non-cyclists 8.7 sick days/yr (2013, London School of Economics)

Events and Tourism

Facilities like rail trails and safe places to bike and walk attract tourists. Local communities now vie for "Bicycle Friendly Community" and "Walking Friendly Community" designations, and communities with these designations report the recognition is good for business (Maus, 2006).

Decreased Traffic Congestion

On average, each car commuter spends roughly 40 hours and over \$800 per year waiting in traffic (Texas A&M Transportation Institute, 2012)

Cleaner Air

A modest increase in bicycling and walking could save 3 billion gallons of gasoline and prevent the release of 28 million tons of CO2 (Rails to Trails Conservancy, 2008).

Improved Health

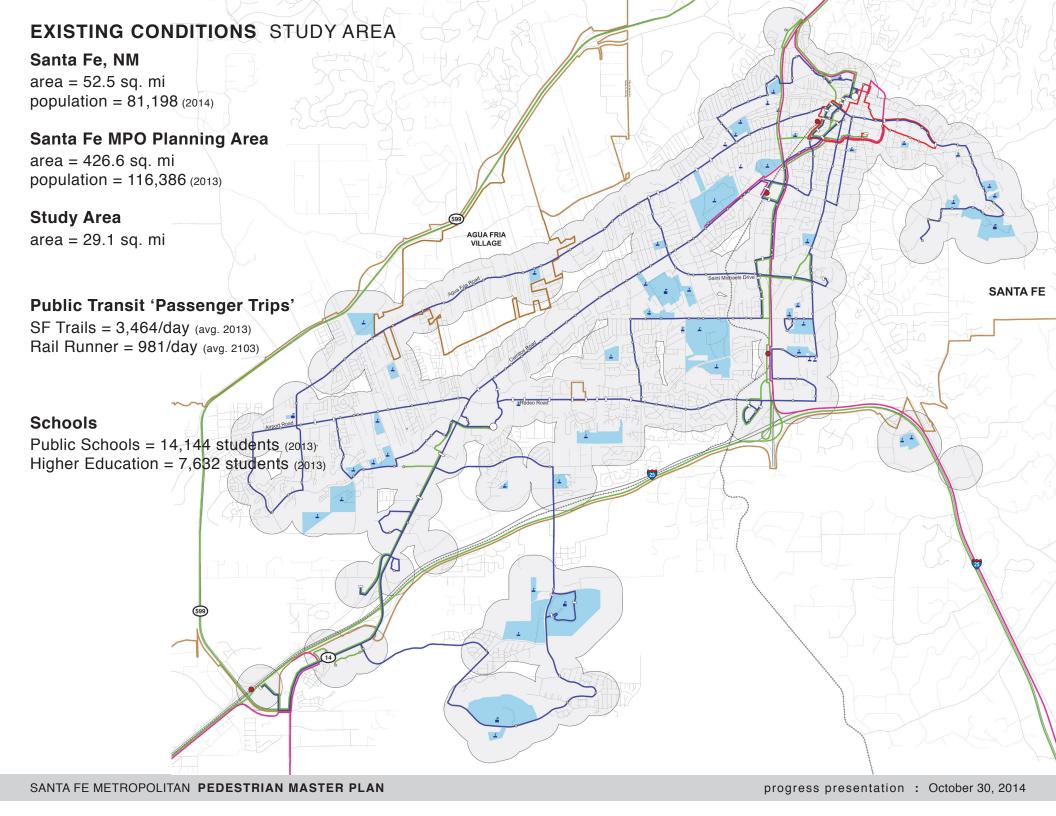
Obesity costs the average taxpayer \$180 per year regardless of their own health status. If just one of every ten adults started a regular walking program, the United States could save \$5.6 billion—the equivalent of paying the college tuition for 1,020,000 students (National Governors Association, 2006).

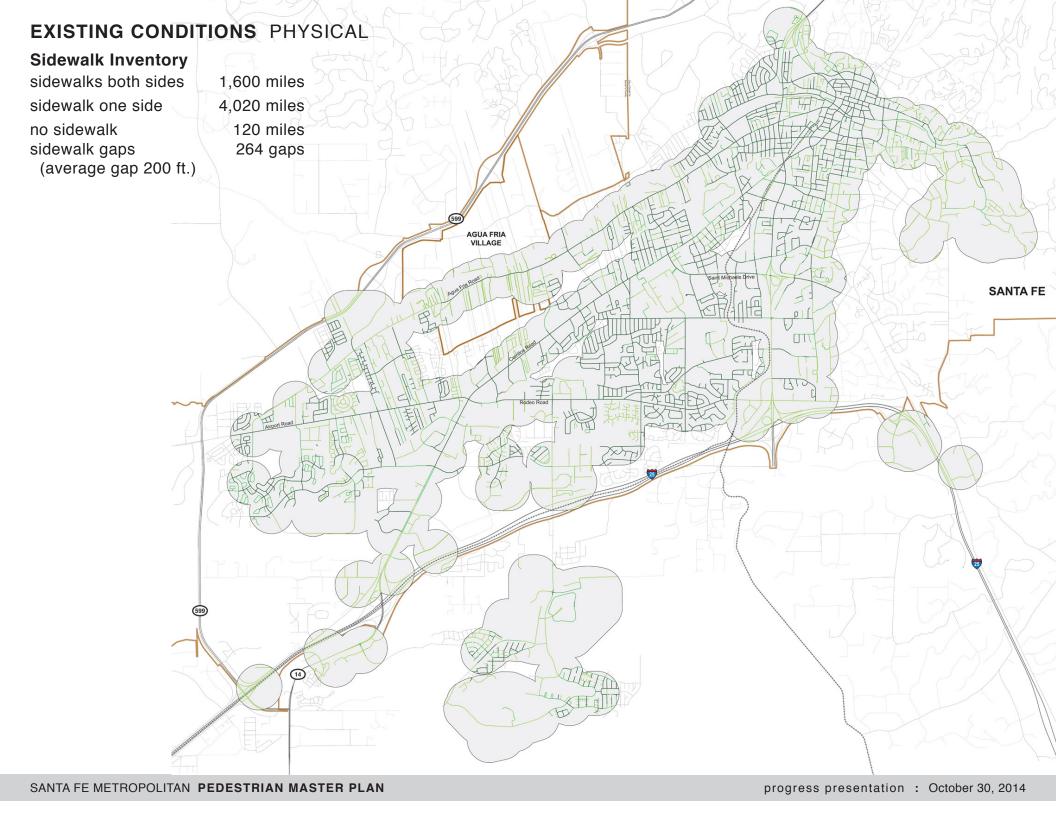
Savings

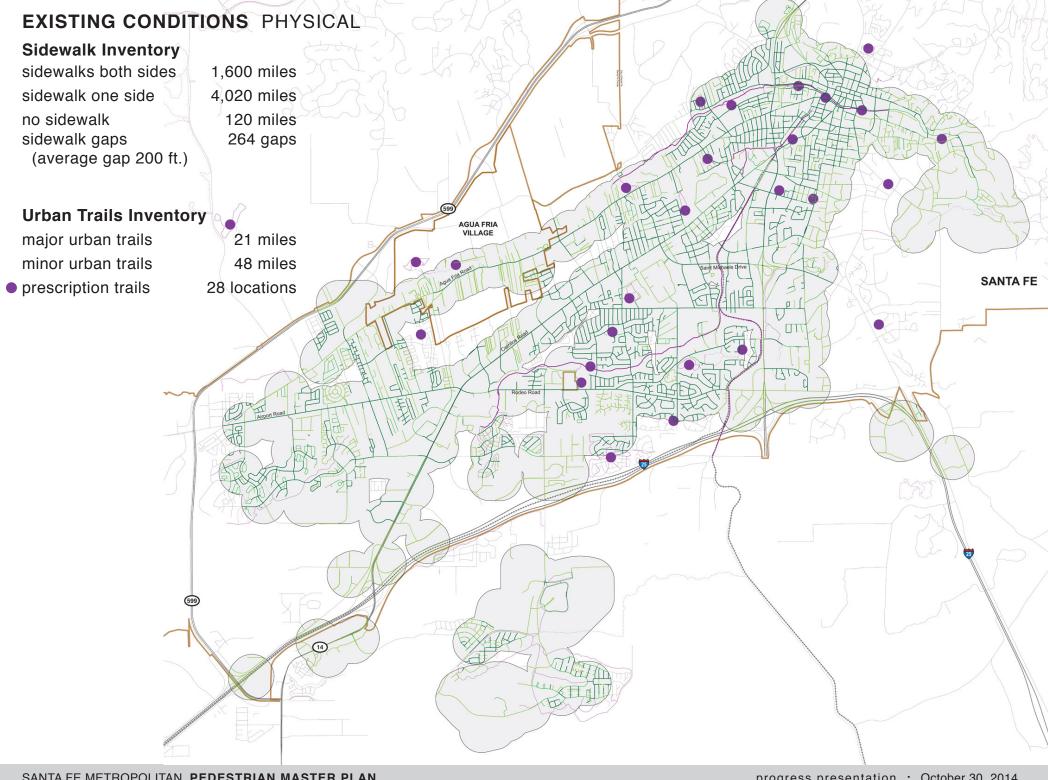
AAA estimated that, in 2013, the average cost of owning and operating a car increased by 2% to \$9,122 a year (or 60.8 cents per mile) for a person driving 15,000 miles per year and paying \$3.49 per gallon of gas (AAA,2013).

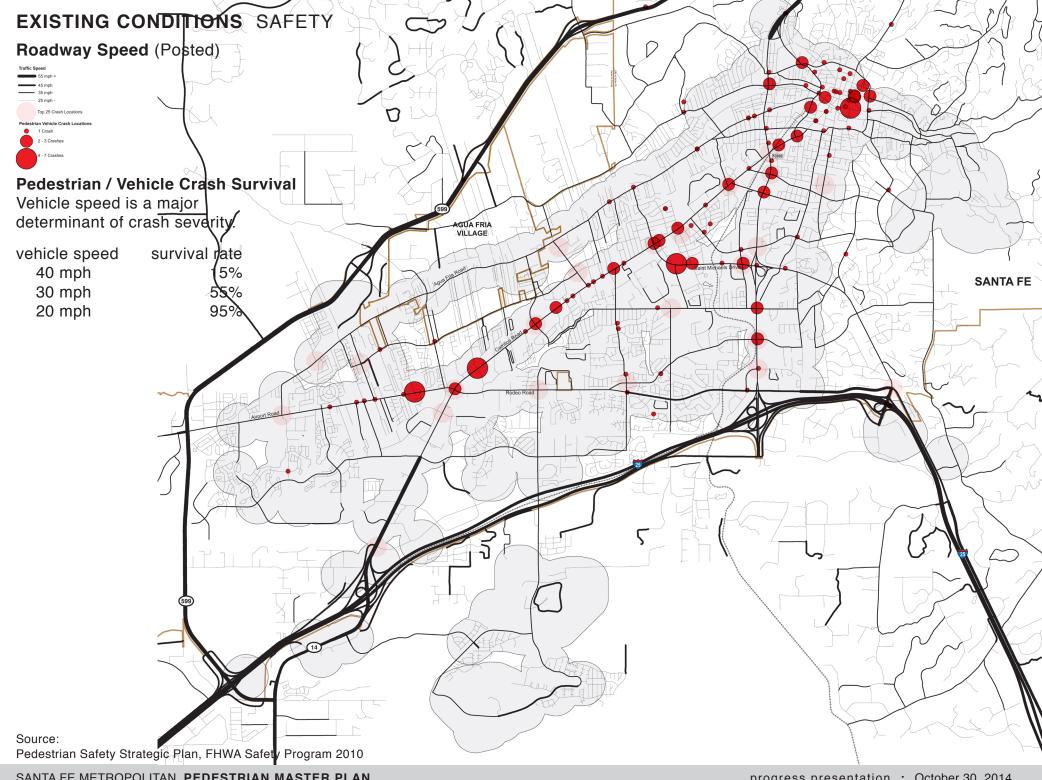
Source: Bicycling And Walking In The United States 2014 Benchmark Report, Alliance for Bicycling & Walking 2014



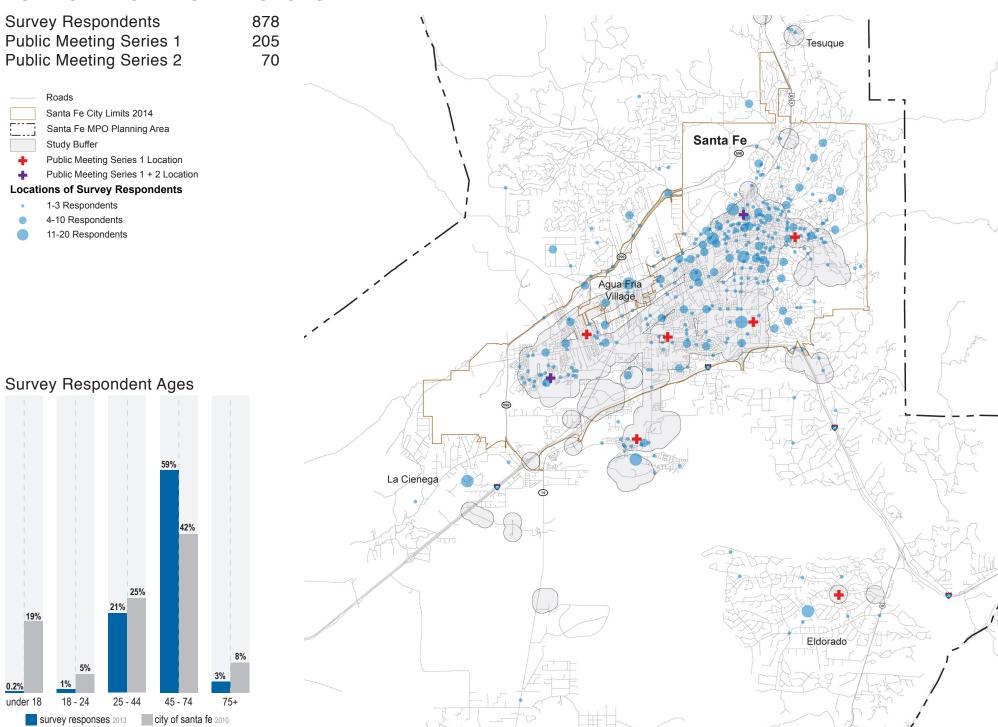




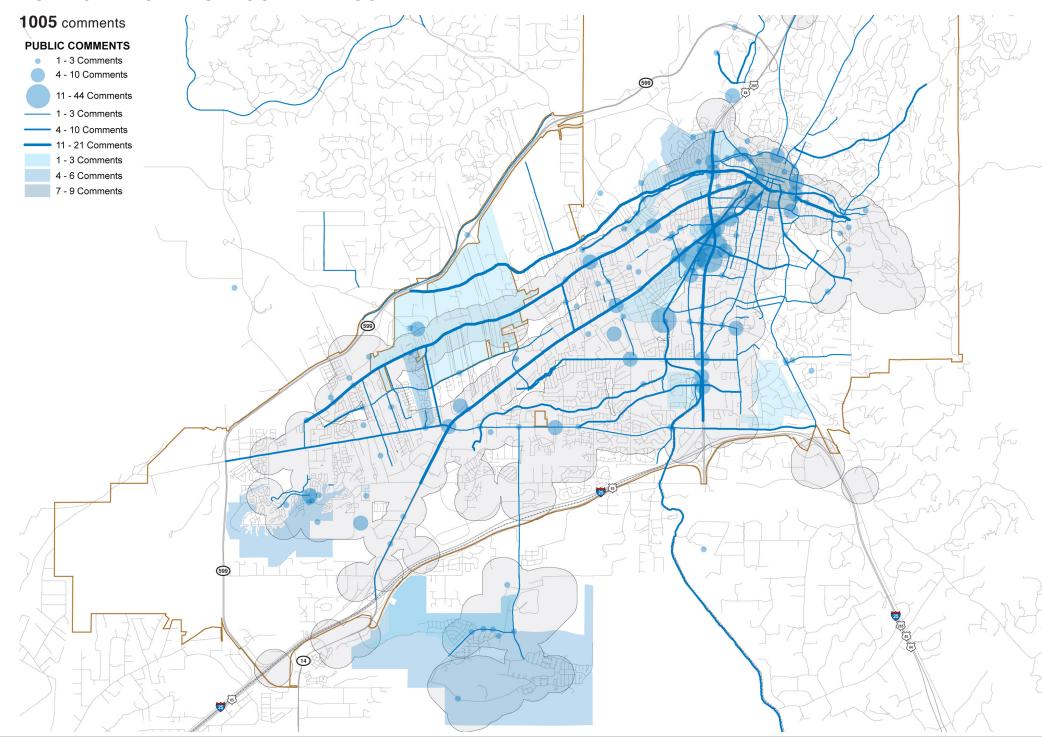




PUBLIC PERCEPTION RESPONSE



PUBLIC PERCEPTION COMMENT SUMMARY



PUBLIC PERCEPTION ISSUES

Challenges to Walking in Santa Fe (from Phase I public process 2013)

54% connectivity comments

40% safety comments

13% general comments

11% mainenance comments

6% transit comments

6% enforcement comments

3% accessibility comments

3% public awareness comments

2% schools comments









SANTA FE Pedestrian Improvement Needs

areas with high demand and low walkability

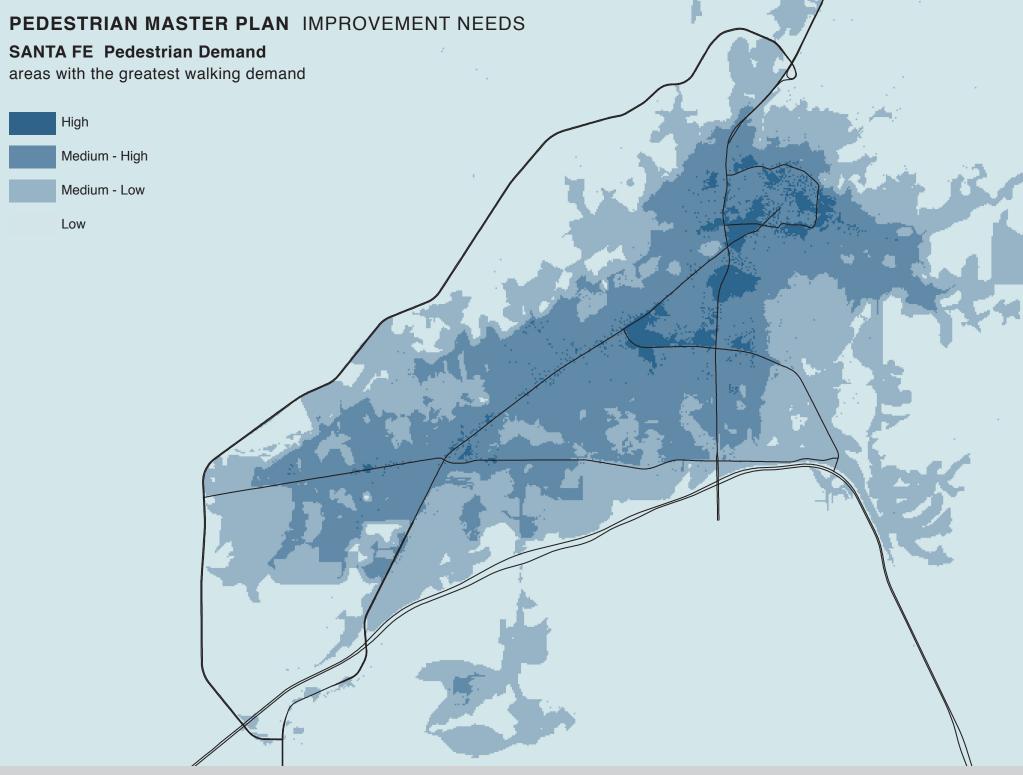


SANTA FE Pedestrian Demand Indicators + Weights

areas with the greatest walking demand (14)

Public Transit	15
Schools	13
Low Income (below \$20,000)	12
Employment Centers	9
Food Sources	9
Community Services	7
Population Density	7
Mix of Uses	6
Senior 65+	6
Moderate Income (\$20,000 - \$35,000) +	5
Youth (18 and under)	5
Recreation	4
Cultural Centers	1
Shopping Centers	1

⁺ category added by PMP Working Group

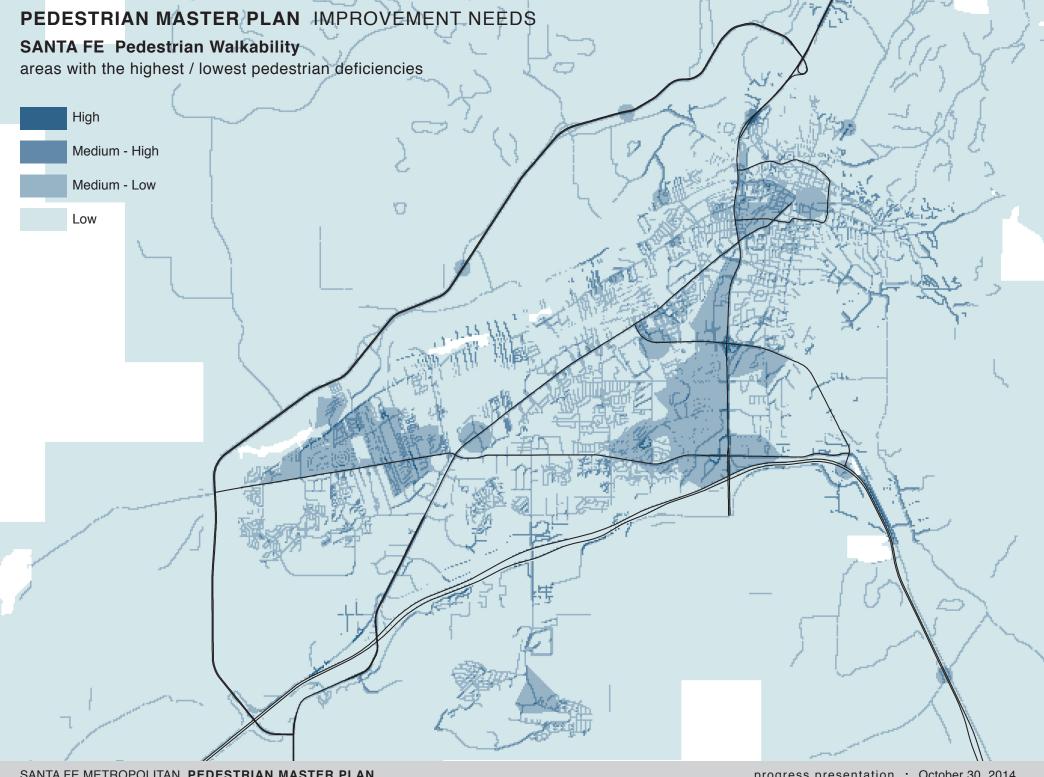


SANTA FE Pedestrian Walkability Indicators + Weights areas with the highest / lowest pedestrian deficiencies (9)

Sidewalks *	20
Striping / Marking + *	14
Traffic Speeds *	12
Street Connectivity *	12
Pedestrian Vehicle Crashes	11
Destinations per Capita + *	11
SFPS Hazard Zones	9
Street Lighting *	7
Street Width *	4
Transition Plan *	tbd

^{*} additional data collection needed

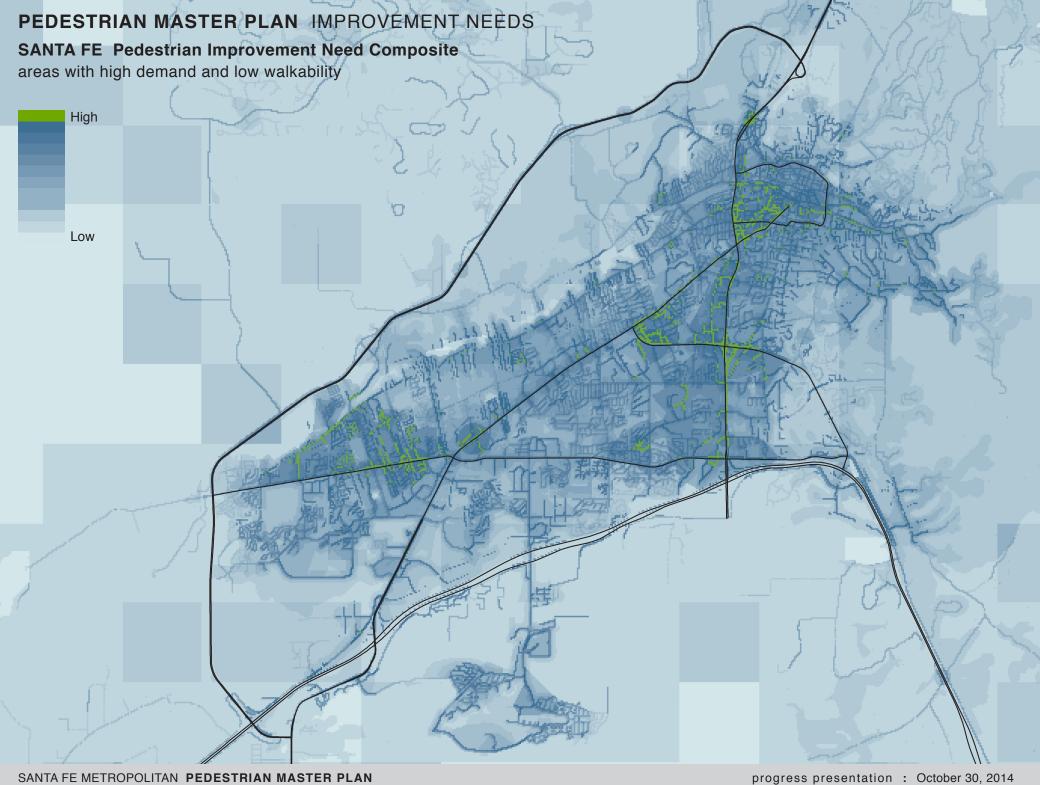
⁺ category added by PMP Working Group 6/23/14

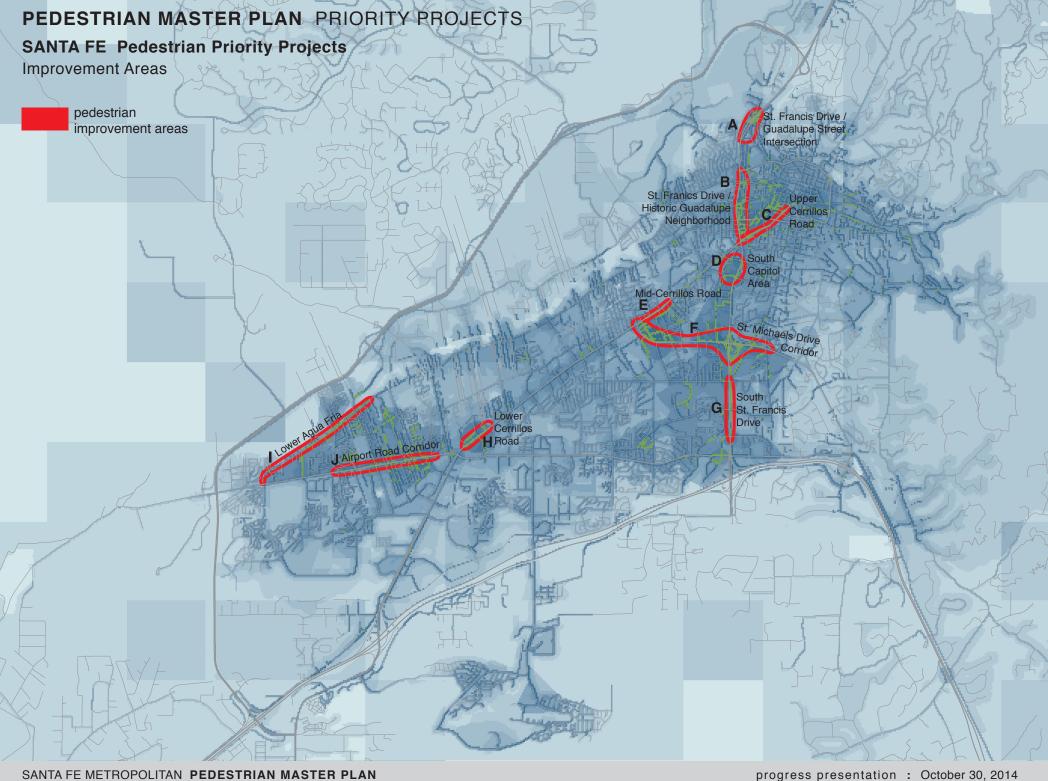


SANTA FE Pedestrian Improvement Need Composite

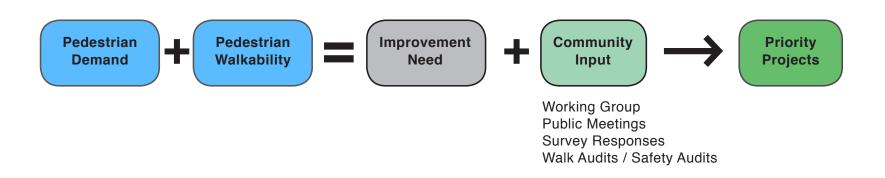
areas with high demand and low walkability







SANTA FE Pedestrian Priority Projects



PEDESTRIAN MASTER PLAN COMMUNITY INPUT

Pedestrian Survey (English + Spanish) 878

Public Meetings (10 meetings) 275

Working Group Meetings (4 meetings) 26

Partnerships

Creative Santa Fe La Familia WALC Institute

Pedestrian Master Plan Updates

Transportation Coordinating Committee

Transportation Planning Board

Mayor's Commission for Disabilities

Bicycle and Trails Advisory Committee

Parks Open Space Advisory Commission

County Open Lands, Trails and Parks Advisory Committee

Transit Advisory Board

AARP

Tesuque Pueblo

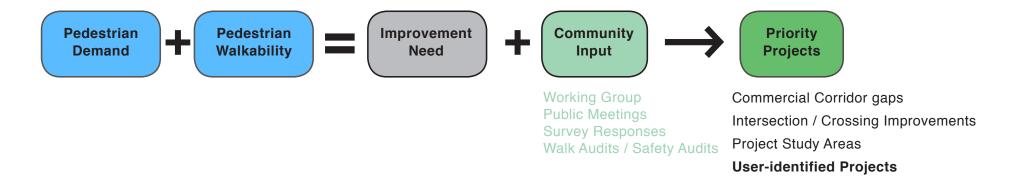
Santa Fe Public Schools

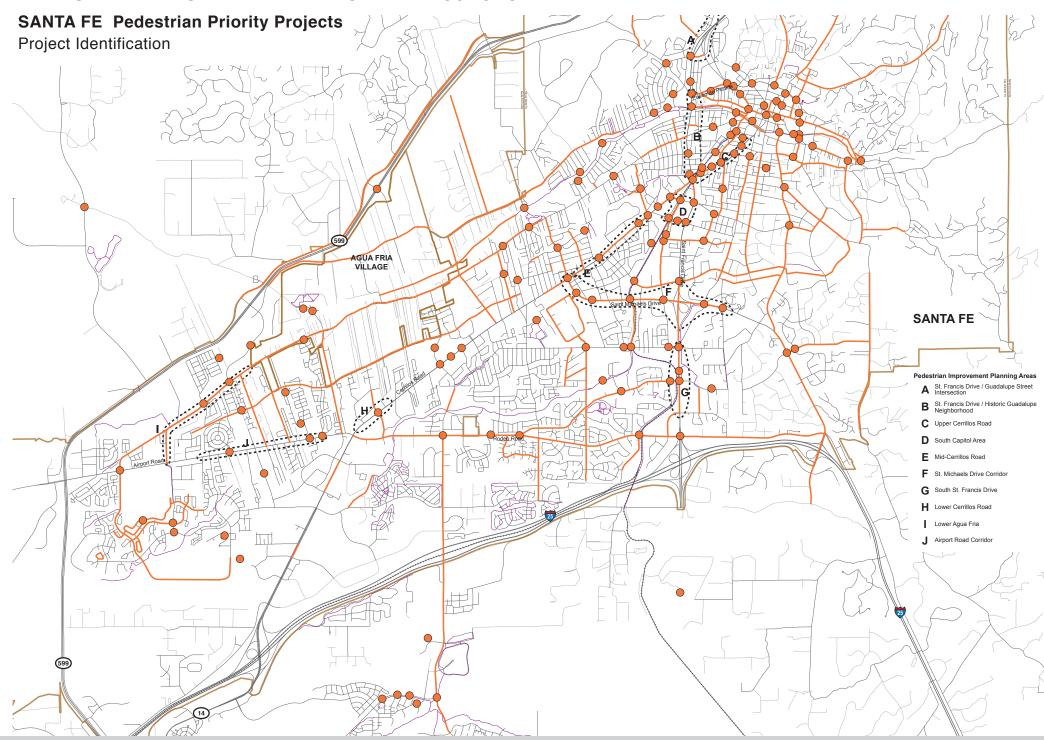






SANTA FE Pedestrian Priority Projects





progress presentation: October 30, 2014

SANTA FE Pedestrian Priority Projects DRAFT

Project Ranking

SAFETY How will the proposed project increase safety for all users? Does it alleviate a known issue?

- 4 Will resolve major identified safety issue (4+ crashes or 3+ public comments)
- 3 Will resolve a documented safety issue (<4 crashes)
- 2 Will resolve an identified safety issue (<3 public comments)
- 1 Will have no impact on safety

CONNECTIVITY How well will the proposed project improve the connectivity of the pedestrian network?

Sidewalk Connection Crossing / Intersection Fills a major gap or creates a more convenient connection (missing connection along a Creates a new crossing at a major roadway 4 collector roadway or higher classification) Creates a new connection or fills a minor gap (missing connection along a neighborhood Creates a new crossing at a minor roadway 3 / residential street) Upgrades an existing sidewalk / path or introduces sidewalk to a new residential area Upgrades an existing crossing (restriping, new 2 (maintenance improvement, widens sidewalk, restripes crossing, etc) pedestrian activated signal, etc.) Has no impact on network connectivity 1 Will have no impact on network connectivity

IMPROVEMENT NEED Does the proposed project fall within a designated Pedestrian Planning Area?

- 5 Falls within a designated Pedestrian Planning Area
 4 Has composite score of 4000 4480 (High)
- 3 Has composite score of 3500 4000 (Medium High)
- 2 Has composite score of 3000 3500 (Medium)
- 1 Has composite score of < 3000 (Low)

FEASIBILITY Is the project in an area that can easily be developed by the City / County / State?

- 4 Land is owned by the City / County / State / publicly owned or within the Right-of-Way
- 3 Land has jurisdictional conditions (i.e. County land within FEMA flood plain or Federal Funding is used)
- 2 Land is privately owned
- 1 Land is privately owned and has jurisdictional conditions

TIME FRAME Based on identified safety, interconnectivity, composite score, and feasibility, when does the project need to be implemented?

Short Within 1 years

Medium Within 1 to 3 years

Medium / Long Within 3 to 5 years

Long More than 5 years

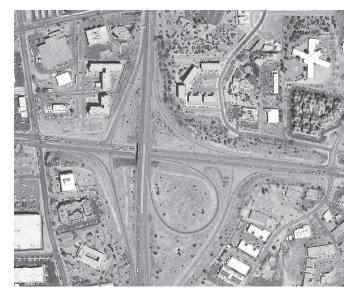
SANTA FE Pedestrian Priority Projects

DRAFT

St. Michael's Drive (Galisteo - Pacheco)



CAEETV



SAFETT	will resolve a major identified safety issue	4
0011150711/171/	- 91	

Will reach a major identified anfaty incur

CONNECTIVITY Fills a major gap or creates a more convenient connection 4

FEASIBILITY Land publicly owned / within ROW

composite score: 17

Project Improvements



* Roadway Safety Audit (coordination w/ bike, public transit)

IMPROVEMENT NEED Falls within a Pedestrian Planning Area

Sidewalk connections along north + south sides of St. Michael's Drive (3,560 LF)

Pedestrian improvements at intersections w/ on/off ramps

Roadway improvements / revisions

SANTA FE Pedestrian Priority Projects

DRAFT

Agua Fria St. (Frenchy's Field Park/Camino de Chelly)



Scorecard

SAFETY

	•	
CONNECTIVITY	Upgrades an existing mid-block crossing	2
IMPROVEMENT NEED	Falls within a Medium Level Pedestrian Planning Area	2
FEASIBILITY	Land publicly owned / within ROW	4

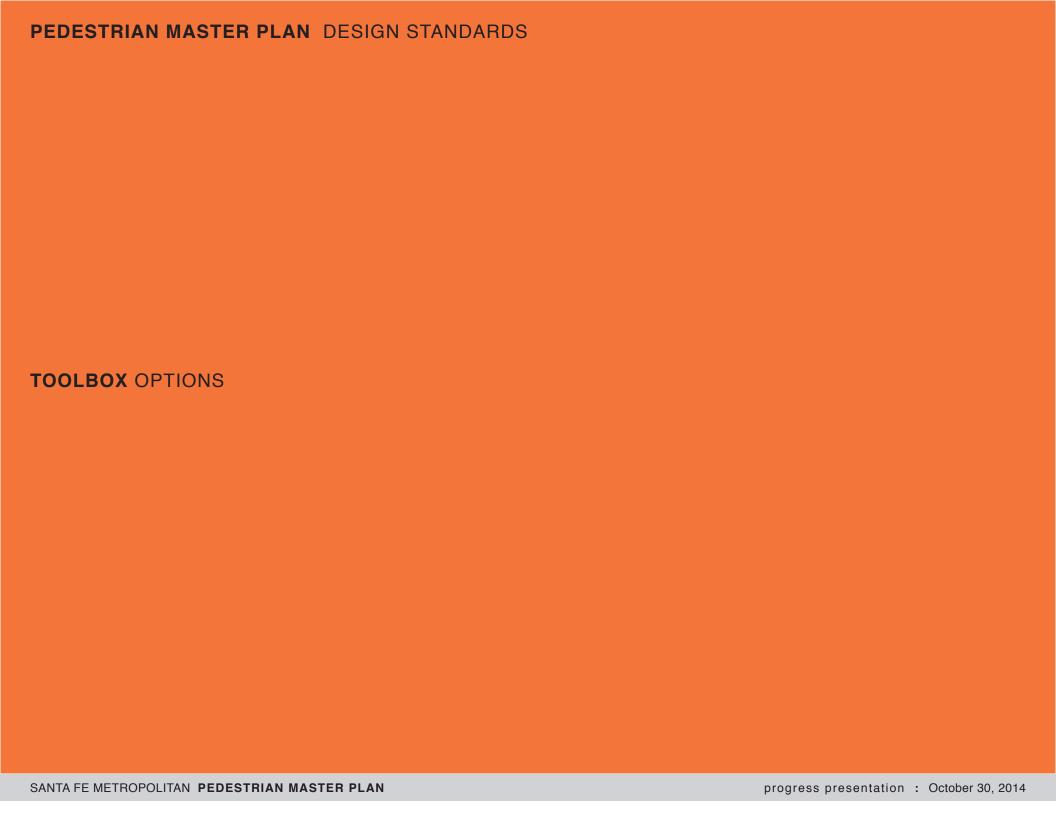
Will resolve an identified safety issue

composite score: 10

Project Improvements

Striping + pedestrian signage at existing mid-block crossing / median refuge island

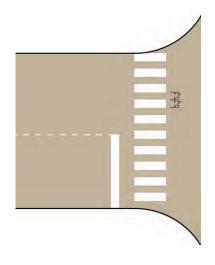




PEDESTRIAN MASTER PLAN DESIGN STANDARDS

SANTA FE Pedestrian Improvement Toolbox

Marked Crossing



STANDARD CONTINENTAL CROSSWALK

Marked crosswalks indicate where pedestrians may cross the street and where drivers should expect them to cross.

In-Road Pedestrian Yield Law Sign



State and City law requires that vehicles must yield to pedestrians who are in a crosswalk. In-road "State Law Yield for Pedestrians" signs are a supplemental feature to remind drivers of this law.

PEDESTRIAN MASTER PLAN DESIGN STANDARDS

SANTA FE Pedestrian Improvement Toolbox

Leading Pedestrian Interval

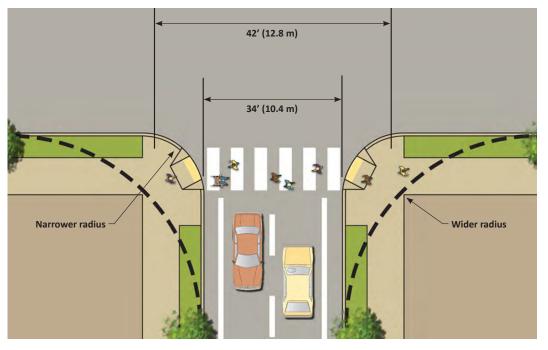


A leading pedestrian interval (LPI) gives pedestrians a head start into an intersection before vehicles. The WALK signal is turned on approximately three seconds before vehicles are given a green signal.





Reduced Curb Radius

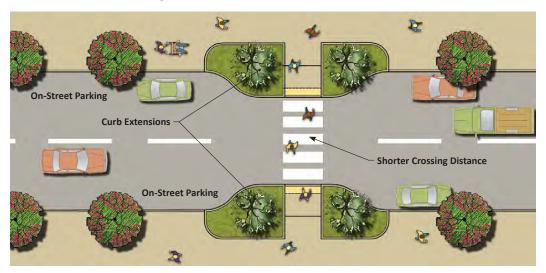


The use of smaller curb return radii at intersections reduces pedestrian crossing distances. Reduced radii also help to slow vehicles as they navigate through their turning movement, enabling drivers to respond more quickly to signal changes and crossing pedestrians.

PEDESTRIAN MASTER PLAN DESIGN STANDARDS

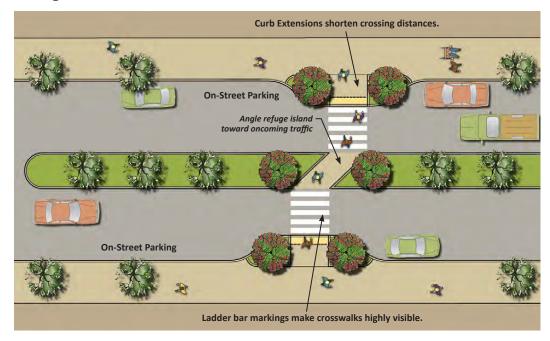
SANTA FE Pedestrian Improvement Toolbox

Mid-Block Crossing



Mid-block crossings should be located where there is adequate sight distance for both the motorist and pedestrian. In addition to proper roadway geometry, any obstacle that would interfere with visibility at the crossing location.

Refuge Island



Raised refuge islands greatly increase pedestrian safety at mid-block crossings. They can be installed by themselves or within a median.

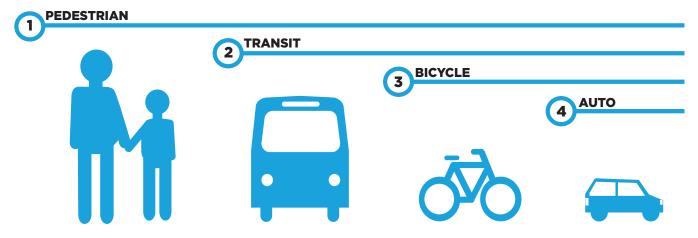
On multi-lane roads, raised medians or refuge islands are highly recommended because they greatly increase pedestrian safety.

GOALS AND POLICIES COMPLETE STREETS

Santa Fe Metropolitan Planning Organization, New Mexico Resolution 2007-1, 2007

Complete Streets are streets that work for all users, not just those using a car.

They are designed and operated to enable safe access for all users. People of all ages and abilities are able to safely move along and across streets in a community, regardless of how they are traveling. Complete Streets make it easy to cross the street, walk to shops, and bicycle to work. They allow buses to run on time and make it safe for people to walk to and from train stations.



Pedestrian First Modal Hierarchy

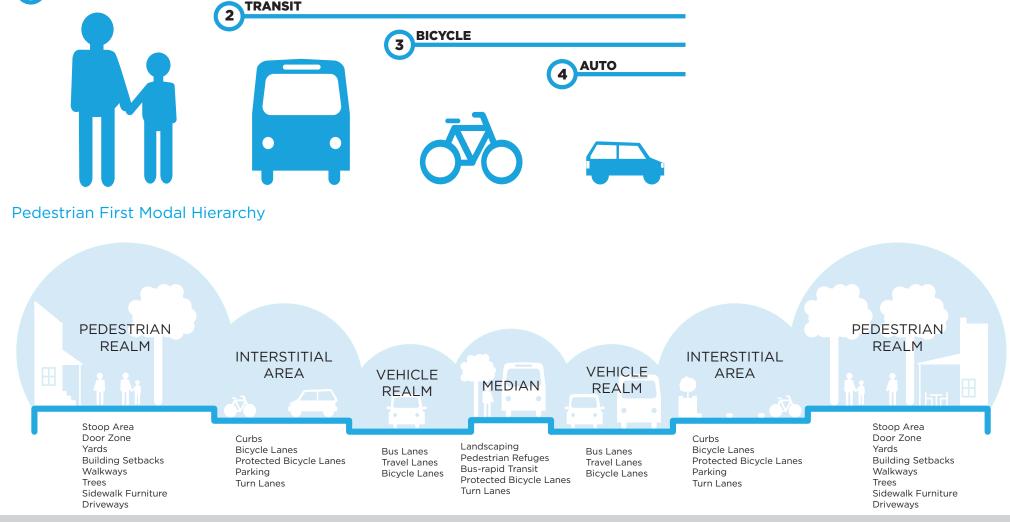
GOALS AND POLICIES COMPLETE STREETS

PEDESTRIAN

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PEDESTRIAN MASTER PLAN

RECOMMENDATIONS PROJECT LIST IMPLEMENTATION

PLANNING AREA STUDIES
SCHOOL HAZARD AREA IMPROVEMENTS
INTEGRATED MULTI-MODAL ASSESSMENT

STRIPING / SIGNAGE

LIGHTING

PEDESTRIAN COUNTERS (EXISTING CONDITIONS)

EDUCATION

PEDESTRIAN ADVOCACY COMMITTEE

REPORTING / EVALUATION SYSTEM

LIGHTING

