



# Silverbell Road

## GRANT ROAD TO INA ROAD DESIGN CONCEPT STUDY

Citizens Task Force Meeting  
November 4, 2009



KITTELSON & ASSOCIATES, INC.  
TRANSPORTATION ENGINEERING/PLANNING

# CTF Roles & Responsibilities

- › CTF is a valued project team member
- › Overall Project Objective: *Deliver Corridor Improvements on Budget and Schedule*
- › Assist in design concept development
  - *Identify and assess alternatives*
  - *Select preferred concepts*
- › Serve as an **active** liaison with neighborhoods/stakeholders
  - *Speak for the interests of your stakeholder group (residential, business, regional, multi-modal), not individual interests*
  - *Report to your HOA's/Neighborhood Associations*
  - *Meet with business owners*



# CTF Roles & Responsibilities

- › Attend monthly meetings
- › Review project reports and materials
- › Provide consensus-based input
- › Final decisions will be made by COT, PCDOT, and TOM



# Silverbell Road Project Overview

## › Project Scope (Givens)

- *Reconstruct Silverbell Road; Ina Road to Grant Road (8 miles)*
- *Widen the roadway to add capacity and enhance safety*
  - Up to 4 lanes
  - Median
- *Improve drainage within the roadway corridor*
- *Provide pedestrian and bicycle facilities*
- *Provide landscaping*



# Silverbell Road Project Overview

## › Funding

- *Project and funding approved by voters in 2006*
- *Total budget: \$57 million (planning, design, construction, environmental mitigation)*
  - RTA (1/2 cent sales tax): \$43 million
  - Other local funds: \$14 million



# Silverbell Road Project Overview

## › Project Timeline

- *Design Concept Study; 2009-2011*
- *Implementation (Design & Construction)*
  - Grant Road to El Camino del Cerro; 2012 – 2016 (RTP Period 2)
  - El Camino del Cerro to Ina Road; 2022 – 2026 (RTP Period 4)



# Design Concept Study

## › Objectives

- *Establish the roadway alignment and profile*
- *Define the roadway cross section*
- *Determine right-of-way requirements*
- *Establish access needs (vehicular, pedestrian, bicycle, equestrian)*
- *Define drainage requirements*
- *Determine impacts on utilities*
- *Identify and mitigate environmental impacts*
  - Cultural and archeological resources
  - Biological features; wildlife crossings
  - Visual and aesthetic quality
- *Develop landscape and visual themes*
- *Determine project costs*



# Design Concept Study

- › **Advance Planning**
  - *Evaluate Existing Conditions and Future Needs*
  - *Identify Alternatives*
  
- › **Alternatives Evaluation**
  - *Roadway and drainage improvements*
  - *Environmental impacts and mitigation*
  
- › **Design Concept**
  - *Preliminary improvement plans*





# Design Concept Schedule

- › El Camino del Cerro to Grant Road
  - *Design concept and preliminary plans by Summer 2010*
- › Ina Road to El Camino del Cerro
  - *Design concept and preliminary plans by October 2010*
  - *Will be impacted by Sunset Road design concept development*



# Traffic Report

## › Roadway Capacity Requirements

- *Must provide Level of Service D operations*
  - 2-Lane Capacity at LOS D: 17,000 vpd
  - 4-Lane Capacity at LOS D: 34,500 vpd

<u>Segment</u>	<u>Existing</u>	<u>2040</u>
North of Ina	9,800	24,000
Ina to Sunset	7,500	22,100
Sunset to del Cerro	10,100	22,900
del Cerro to Goret	11,500	20,700
Goret to Grant	16,800	28,400
South of Grant	21,200	24,800

# Traffic Report

- ›
- › Recommended Roadway Cross Section
  - *4 travel lanes*
  - *20' median (raised)*
  - *Bicycle lanes (5' min.)*
  - *Continuous 10' multiuse path on east side; sidewalk both sides from Goret to Grant*
- › Recommended Speed

	Ina to Goret	Goret to Grant
Design Speed	50 mph	45 mph
Posted Speed Limit	45 mph	40 mph



# Traffic Report

## › Intersections

- *Exclusive left and right-turn lanes at signalized intersections*
- *Traffic signal at Sunset Road will be warranted*
- *No other signals are currently warranted, including HAWKS*

## › Access

- *Median openings at nearly all side streets and major driveways*
- *Provide median openings at frequent spacing for U-turns.*
- *Provide equestrian paths to signals to maintain access to Santa Cruz River*

## › Roadway Lighting

- *Consider continuous lighting from Goret to Grant*
- *Intersection lighting at signals*



# Drainage

- › Preliminary drainage analysis complete
  - *77 drainage crossings*
  - *Initial culvert sizing is underway*
- › Santa Cruz floodplain mapping underway



# Environmental Studies

- › Biological assessment and hazardous materials survey completed
- › Wildlife crossing assessment completed
  - *Mitigation treatments will be coordinated with drainage design*
- › Archeological studies nearly complete
  - *Large number of sites within the corridor*



# Public Outreach

## › Open House Comment Themes

- *Access*
  - Median opening locations
  - Trailer turning requirements
- *Multimodal*
  - Continuous path on east side; wide asphalt path preferred
  - Provide bus pullouts for existing/future service
- *Roadway/Traffic*
  - Keep speed limit 45 mph or lower
  - Curbed vs uncurbed
  - Signal request at Introspect
  - Improve alignment
  - Restrict truck traffic
- *Environmental*
  - Concern over increased noise
  - Strong support for wildlife crossings

# Public Outreach

- *Landscape/Character*
  - Support for rural feel
  - Aesthetically pleasing culverts
  - Water harvesting
- *Right-of-Way*
  - Minimize property acquisition
  - Flood plain impacts
- *Utilities*
  - Underground utilities
- *Other*
  - Timeline of north section implementation





# Upcoming Items

- › Roadway Cross Section Alternatives
- › Preliminary Roadway Alignment

