



# South Golden Road

- Half mile strip commercial area,
- Approx. 15,000 ADT
- New shopping center sparked neighborhood concerns.
- Old street was 80' wide, w/ unlimited access points.
- Long sight distances
- Two traffic signals, with third needed.

South Golden Rd pre-roundabouts





# South Golden Road Goals

- Reduce speed through the section
- Improve aesthetics
- Improve access for businesses and residential neighborhoods
- Improve safety
- Create pedestrian friendly environment



# South Golden Road Options

- Traditional traffic signals with center medians, and restricted left turns.
  - Problems providing access to all businesses
  - Large intersections hurt pedestrian crossing
- Roundabout section with center medians restricted left turns, and roundabouts.
  - Better access options
  - better pedestrian access

# Design Process

- Developed two alternatives.
- Trips to Vail and Avon to research their success.
- Public meetings with the neighborhood.
- Individual meetings with business concerning access.
- General meeting with all South Golden Road businesses.
- Public hearings with city council.

S. Golden Rd.  
View east after  
roundabout  
construction





# Ulysses Roundabout

- Signal lane approach from 3 legs led to decision to have single lane roundabout.
- Egg shaped 85 to 100 foot inside diameter
- Opened in 1998 with the opening of new retail center
- One accident in 23 months of operation

Ulysses  
Roundabout at  
east end of S.  
Golden Rd

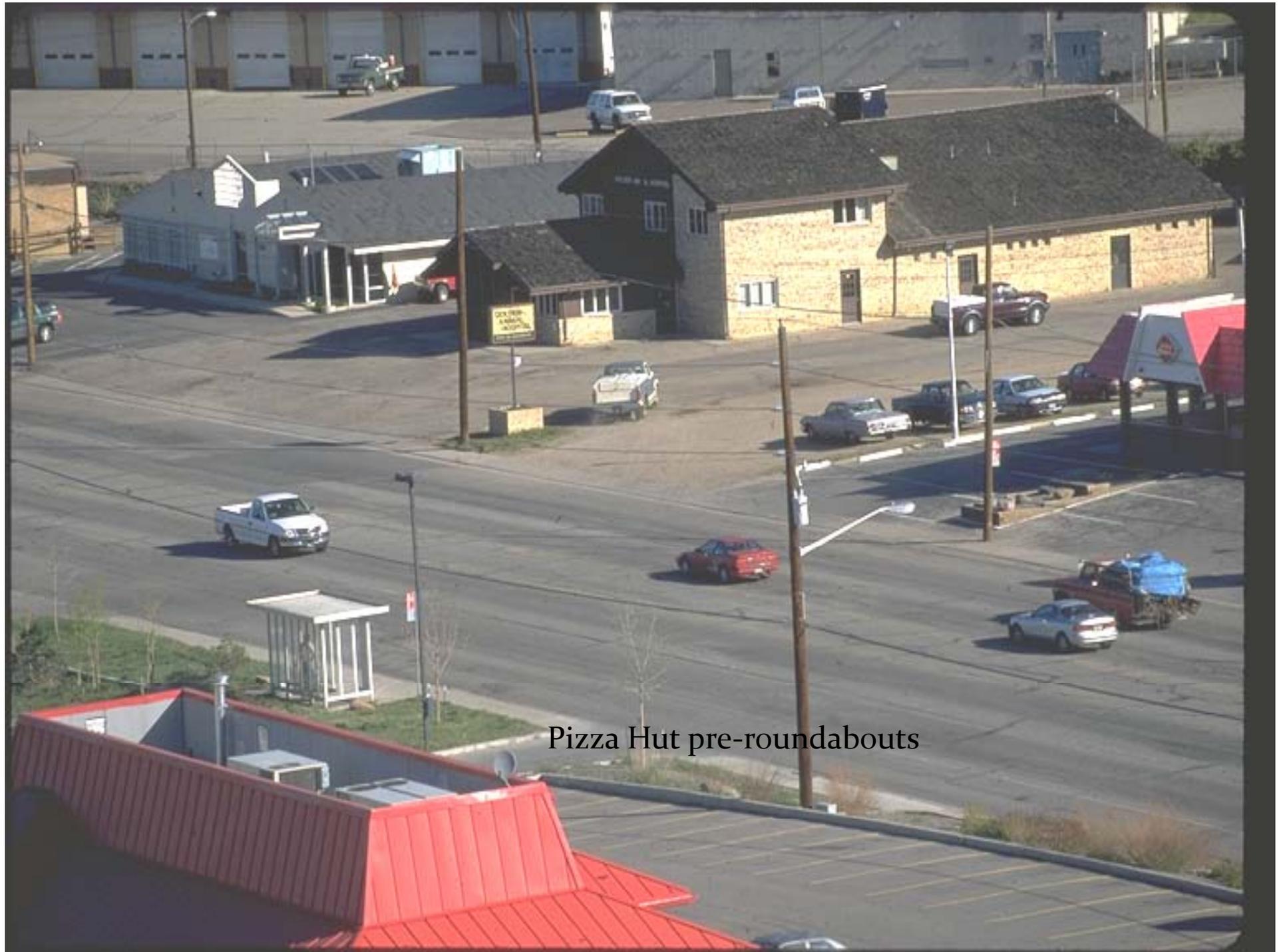






# The two small roundabouts

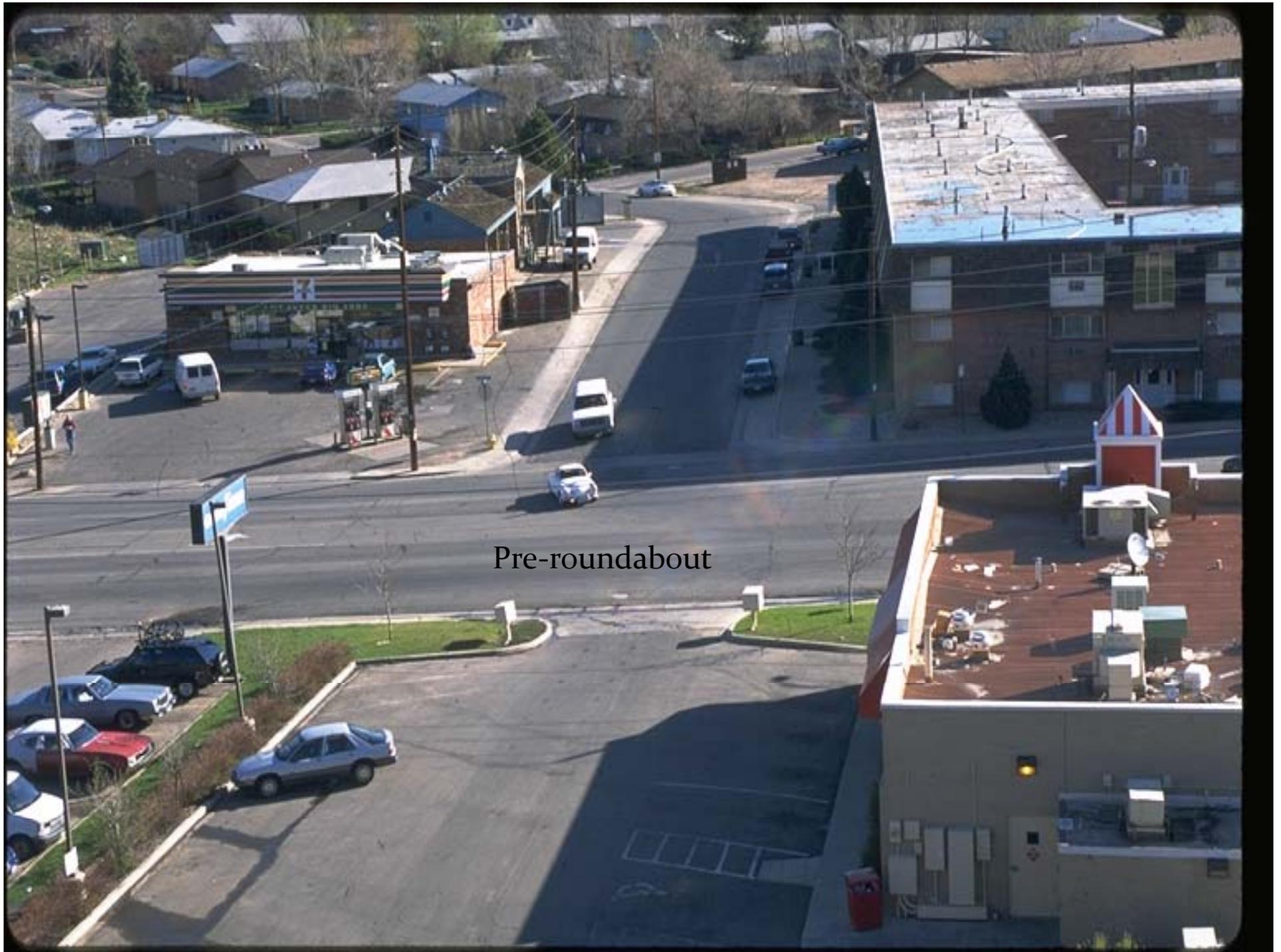
- Tight right of way and existing buildings
- Through-traffic volumes required double lanes
- One was demanded by a local Pizza Hut instead of left turn access
- 50 feet inside diameter



Pizza Hut pre-roundabouts



Pizza Hut



Pre-roundabout



With roundabout



# Johnson Road Roundabout

- Double lane roundabout
- Inside Diameter 100 feet
- Heavy traffic volumes on three legs 15,000 to 18,000 ADT
- Greater deflection than the small roundabouts, but has had higher crash rate

Johnson Rd roundabout at  
west end of S. Golden Rd.



Johnson Rd roundabout at  
west end of S. Golden Rd.



# The heavy amount of through traffic required lane assignment signs



# Education is Critical

The city developed an educational brochure that was mailed to all residents, and racks were placed in all business.

## Roundabout Safety

In some locations around town, you'll notice that Golden has adopted the international traffic circle, now known as the modern roundabout.

Roundabouts are designed to keep traffic speeds down while decreasing your travel time compared to a signalized intersection, and they work very efficiently if you SLOW DOWN. Here are some tips to keep us all moving in the right direction.

### 1. Yield Rules

- You must yield to traffic already in the roundabout.
- All vehicles must yield to pedestrians in crosswalks.
- All vehicles must yield to buses and semi truck trailer combos. Remember, the larger vehicles need the whole roundabout to maneuver safely.

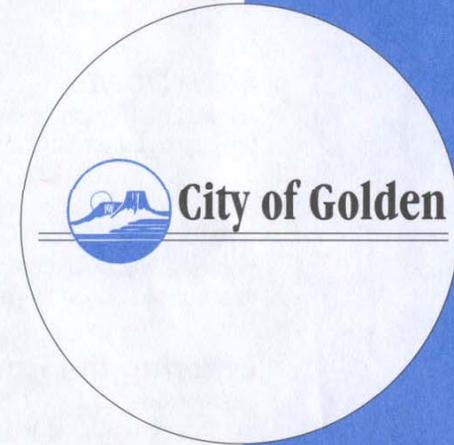
### 2. Lane Assignments (see map)

- The inside lane should be used to either continue on South Golden Road or when going 3/4 of the way around. If continuing 3/4 of the way around, merge to the right lane before making your turn from South Golden Road.
- Use the outside lane when you want to go 1/4 of the way around to make a normal right turn, or to continue a normal through movement on South Golden Road.

City of Golden  
Department of Public Works  
1445 10th Street  
Golden, CO 80401

POSTAL PATRON

PRSTD STD  
Permit No. 26  
US Postage PAID  
Golden, CO



Getting Around  
Golden Safely

Roundabout Etiquette

Tel: (303) 384-8151 1445 Tenth Street  
Golden, CO

For more information, call  
(303) 384-8151



City of Golden



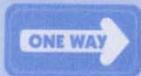
### Slow Down

Speeds of 15 mph or less are adequate when driving in roundabouts.



### Yield

Vehicles must yield before entering a roundabout. Look to your left before entering.



### Entering the Roundabout

Once inside, DO NOT STOP. The vehicle in the roundabout has the right-of-way.



### Stagger Vehicles

While in the roundabout, stagger your vehicle with those around you. Always give yourself some room.



### Destination Sign

Look for designation signs and exit in that direction.



### Exit the roundabouts

Remember to check your mirrors, look to the right and use your turn signals.



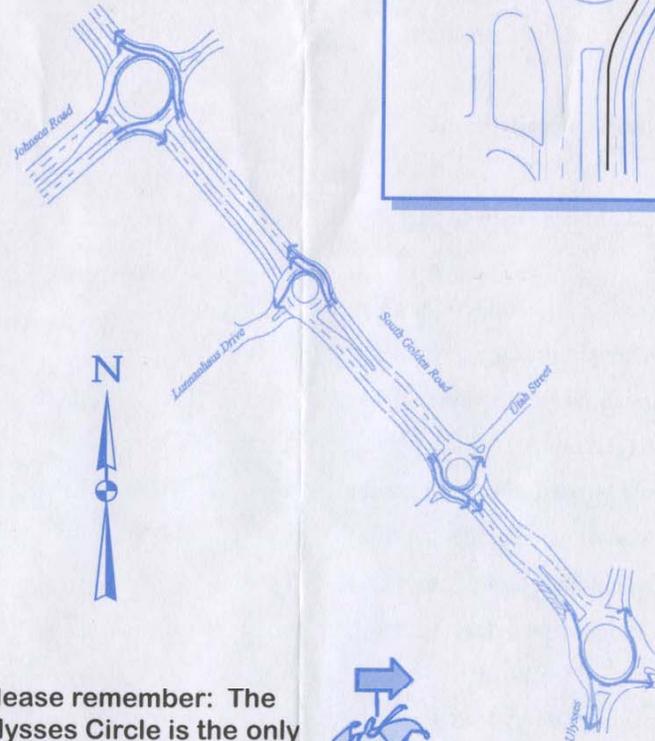
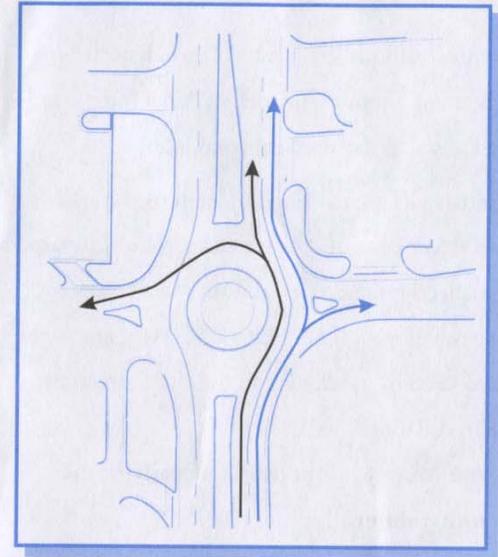
### Missed your exit?

No problem—just go around one more time.



### On a bicycle

Use the same guidelines as other vehicles.



Please remember: The Ulysses Circle is the only single-lane roundabout.





# South Golden Road Results

- Reduction of 85th % speed from 48 mph to 33 mph
- Reduction average in delay time, the time it takes to drive the half mile is less even with a 15 mph speed reduction
- Elimination of large queues from parking lots
- Safer pedestrian access

# South Golden Road

## Results(cont'd)

- Consistent crash rate, with increased traffic from the new shopping center, and additional controlled intersection.
- Reduced severity of crashes
- Reduced injures, for the entire section the pre-circle injury rate was 10 per year. We have had no injuries in 11 months.



# Aesthetic improvements

- Removal of sea of asphalt look
- Roundabouts provided special opportunity
  - Fountain
  - Statue
- Removal of utility lines
- Median landscaping

