Stand by:

The future is coming...

Energizing Main Street



Sponsors:

New Hampshire Main Street Program Dover Main Street Program September, 2003

Dan Burden, Walkable Communities, Inc.











Walking Audit







Photo by Paul

American Public Works Annual Meeting

Keynote Recovery Presentation September 12, 2001

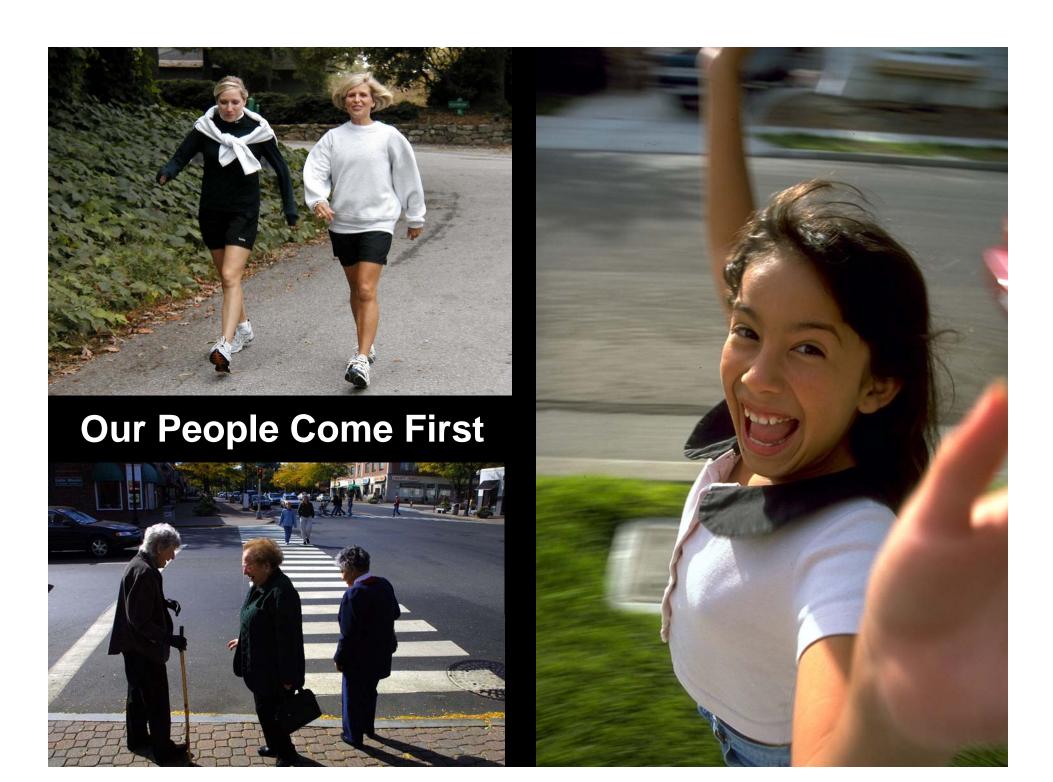
















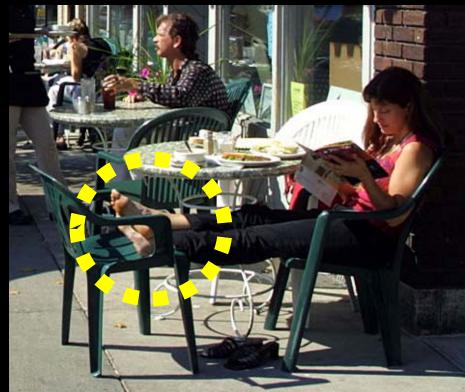




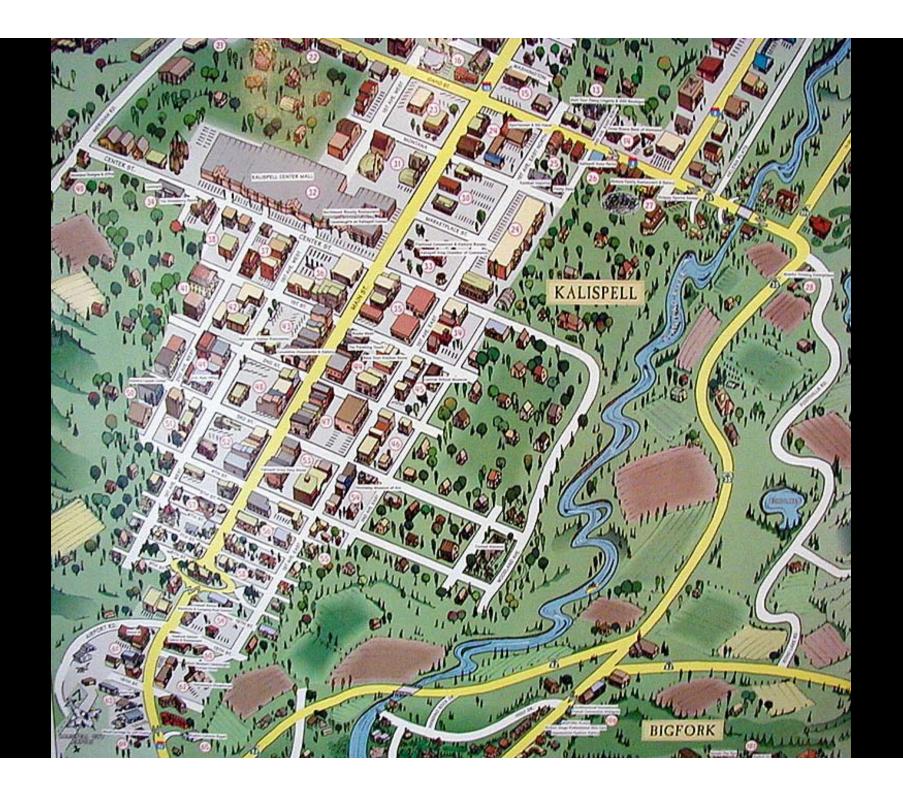






















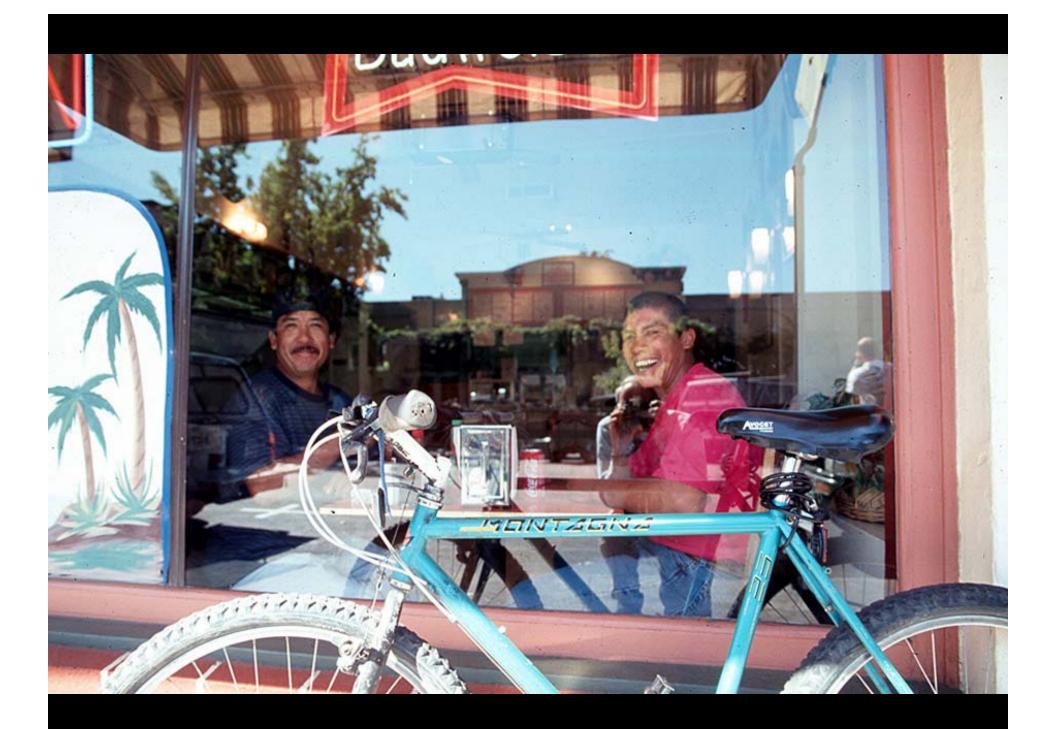




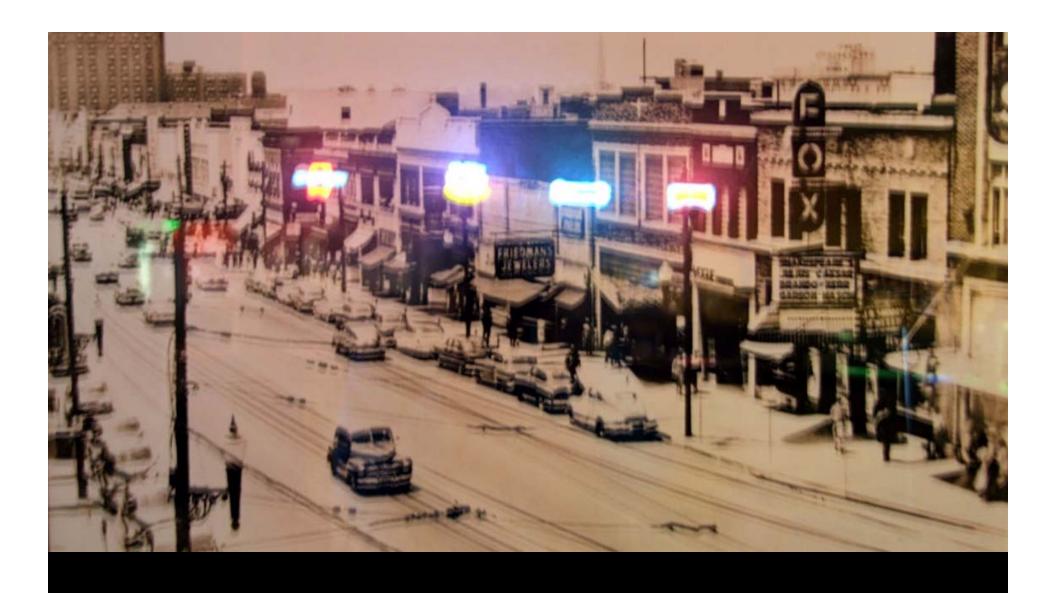






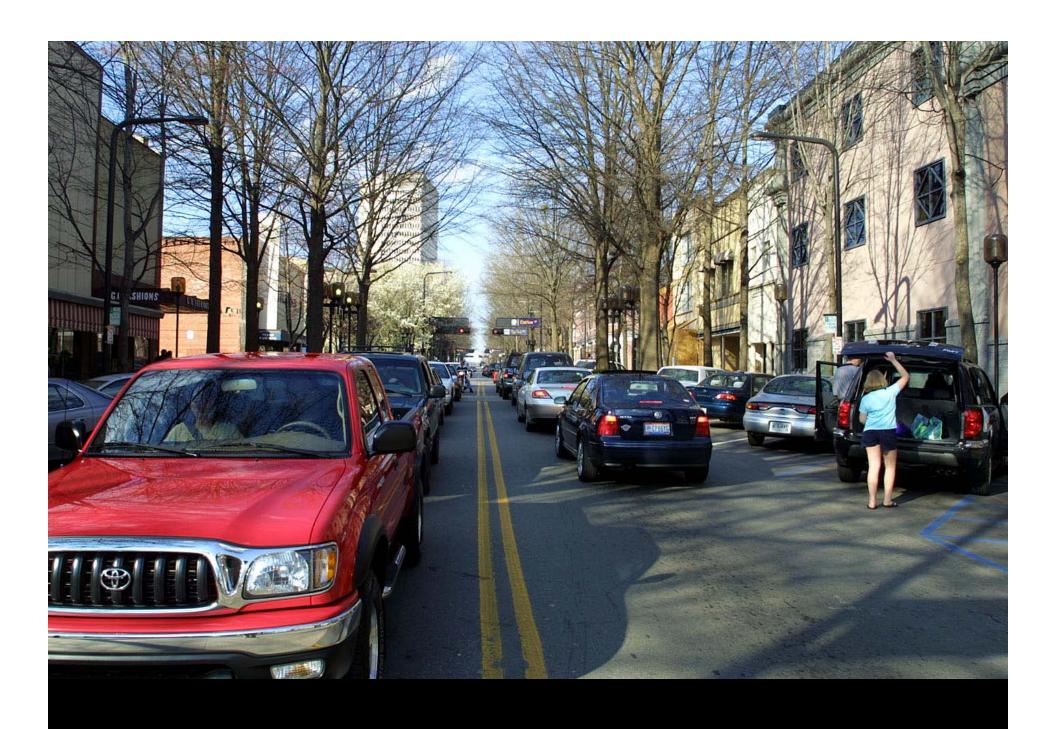


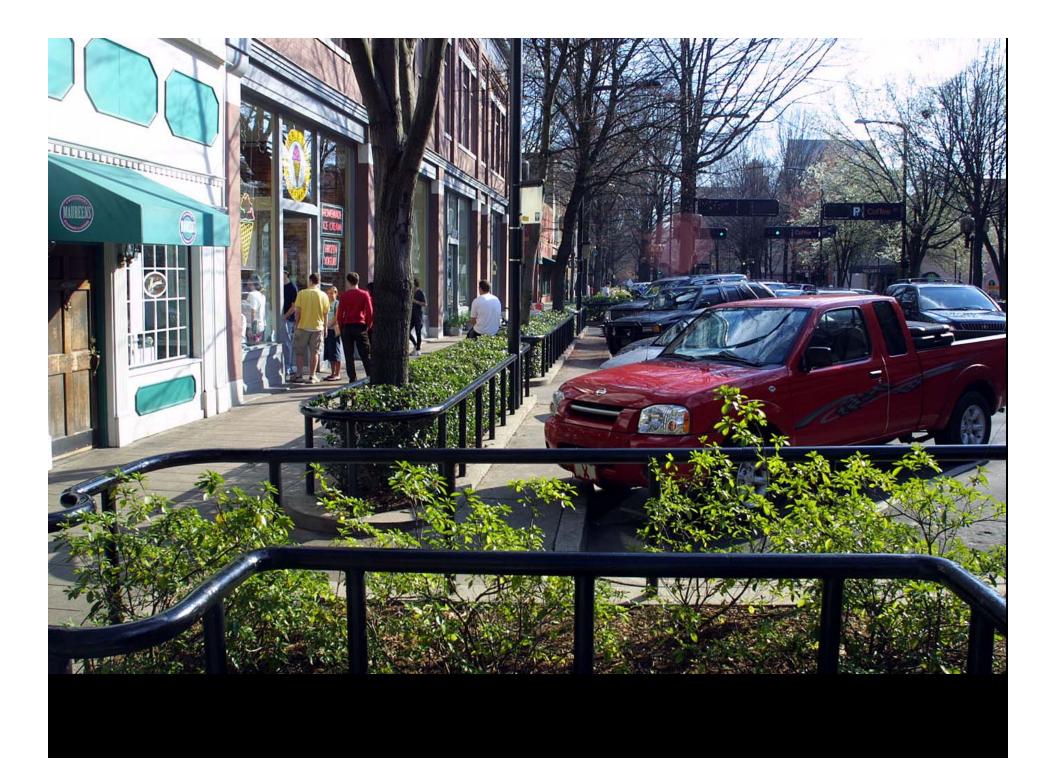


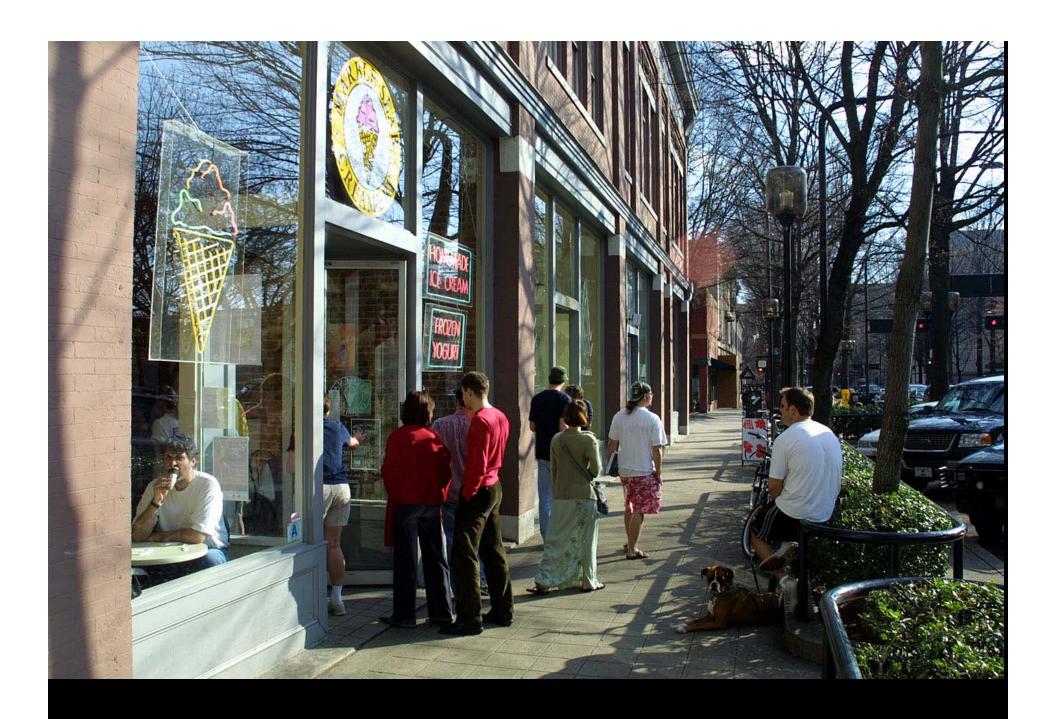


Greenville, South Carolina

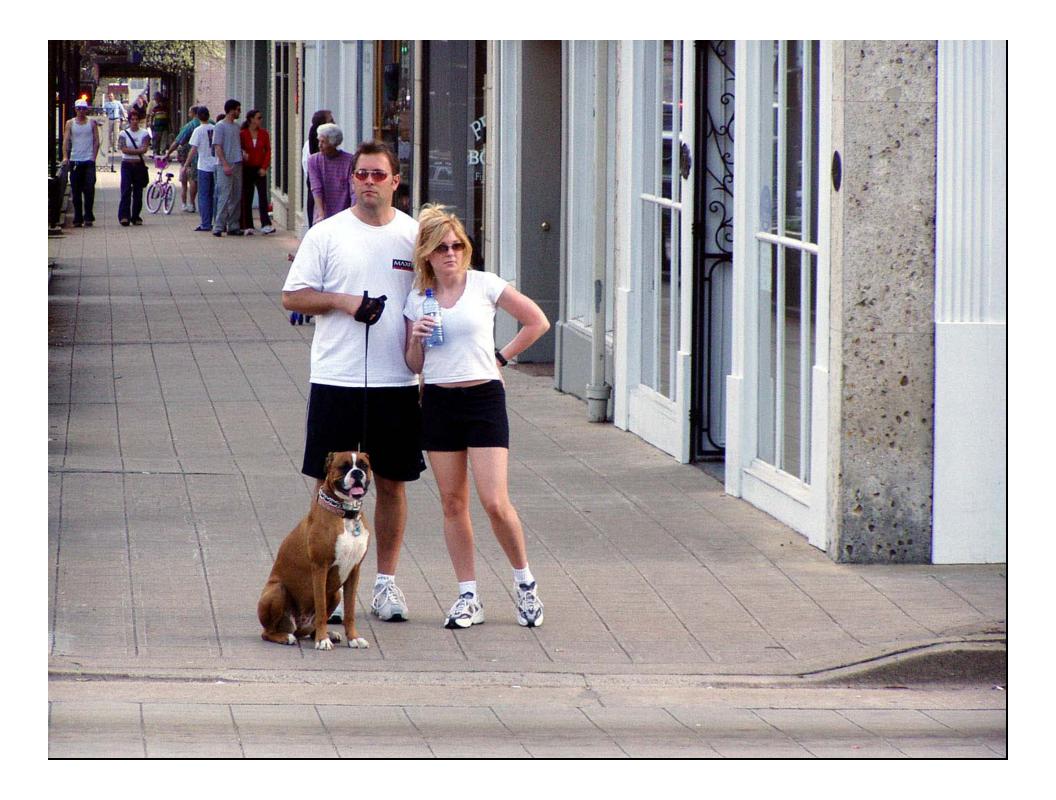




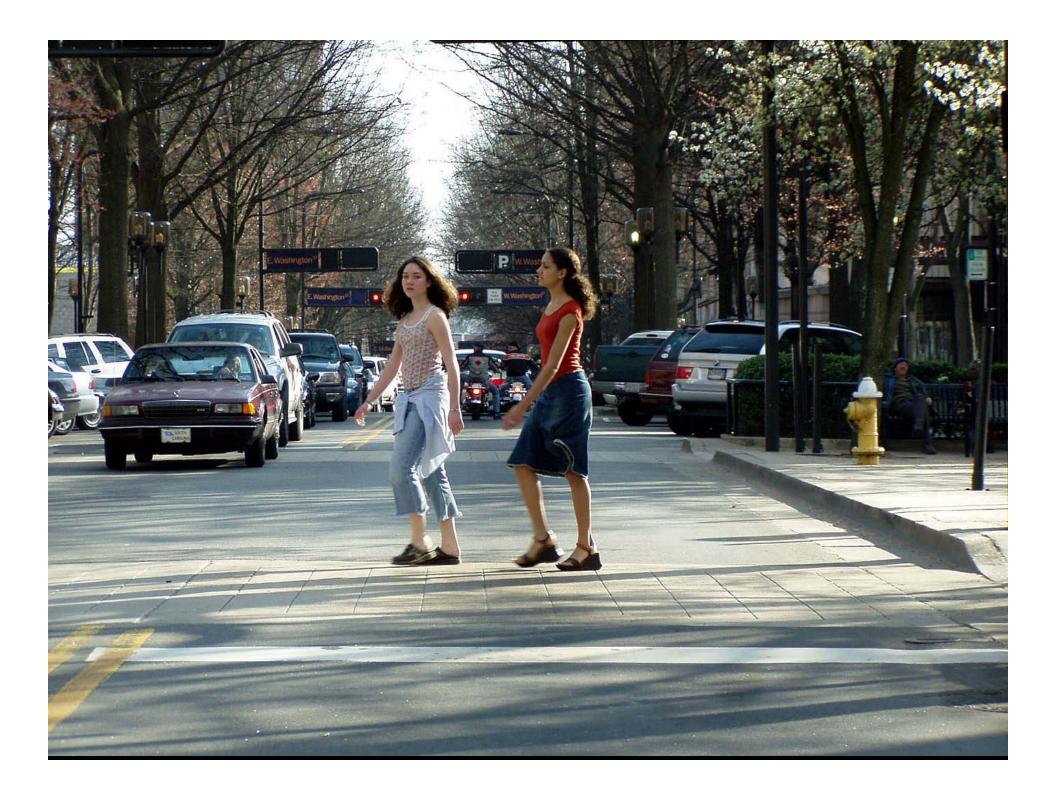












Land Use and Transportation Principles



Car Wash 99¢ WITH GAS PURCHASE

Self Serve Cash or Credit

Regular

205 %

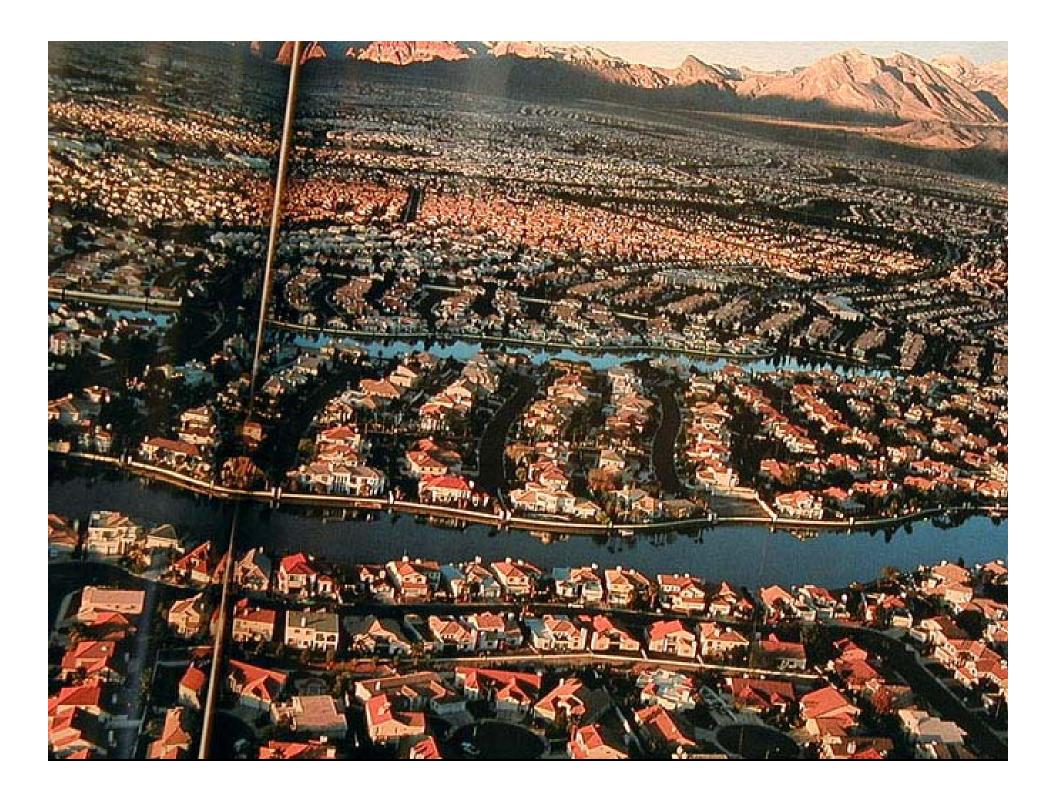
Plus

216 %

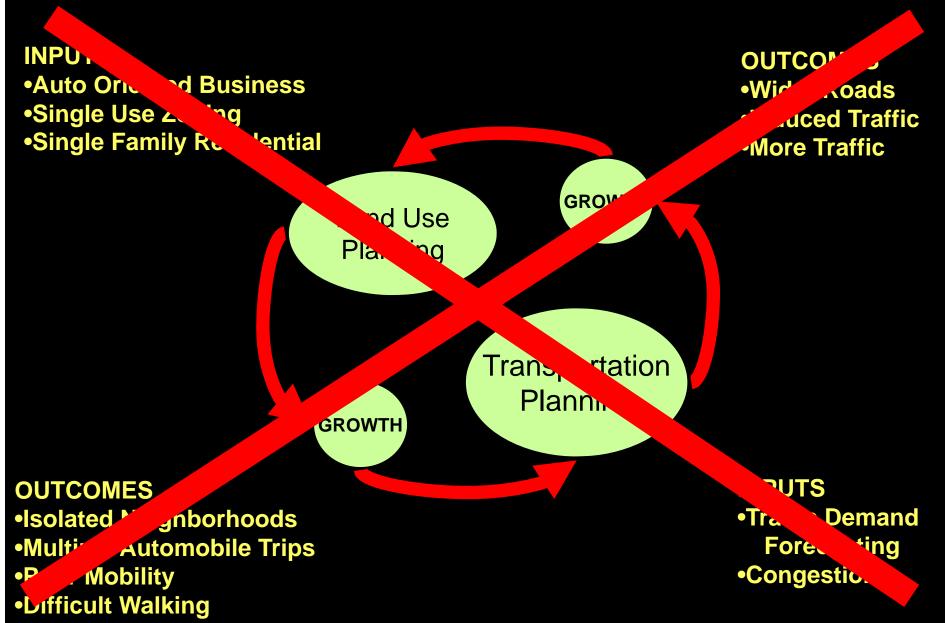
Premium

224 %





The Cycle of Strip Development



Breaking The Cycle of Strip Development

- Diversity of Business
- Mixed Use Zoning
- Diversity of Residential Units
- Context Sensitive Solutions
- Community Involvement



OUTCOMES

- •Healthy Neighborhoods
- Choices of Transportation
- More Open Space
- Sense of Place
- Sense of Community



OUTCOMES

- Increased Mobility
- More Walking & Bicycling
- Increased Access

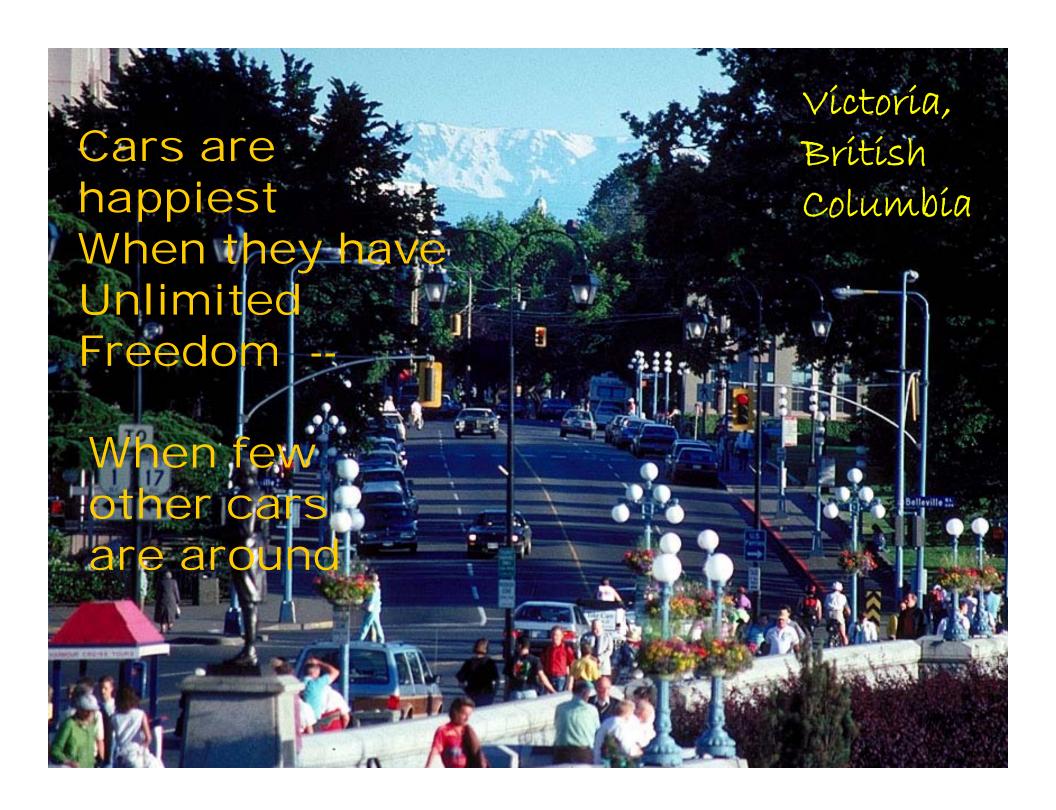
THE PURPOSE OF CITIES

Cities are an invention to maximize exchange (goods, culture, friendship, knowledge) and to minimize travel.

The role of transport is to maximize exchange.

....David Engwicht

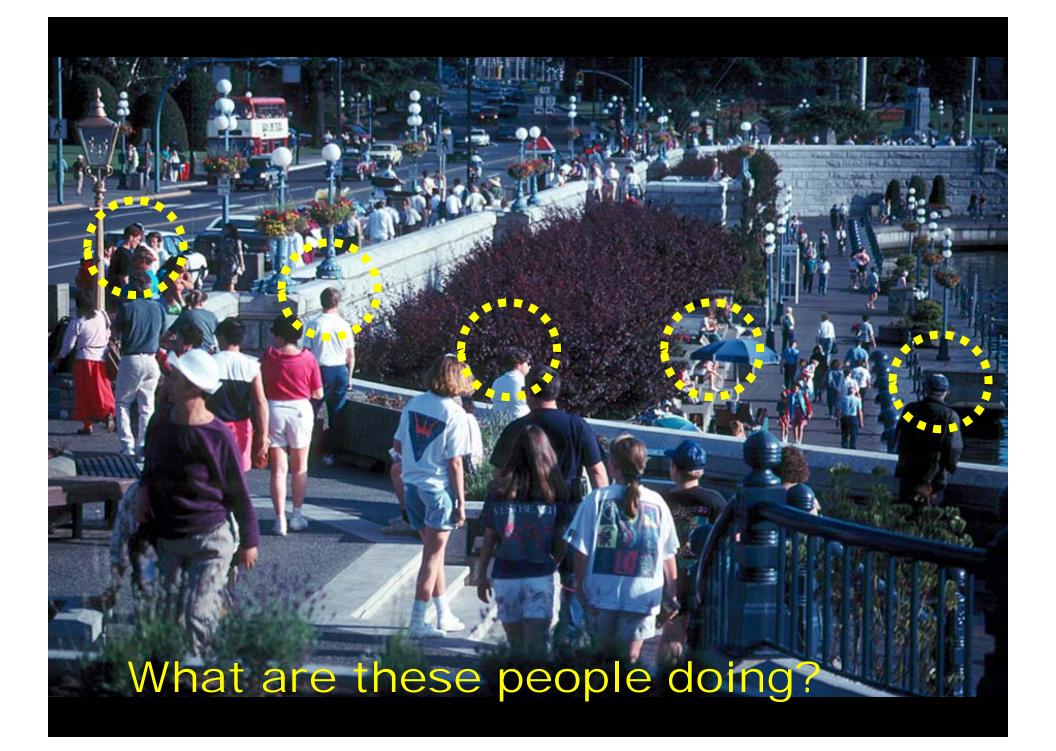
Whoops!!!





People are Happiest when there are many others around.

Víctoria, British Columbia



3 Building from our values



National Health Epidemics

Diabetes

Overweight

Heart Failure

Depression



Poorly Developed Neural Pathways

Lack of Association

Hypertension

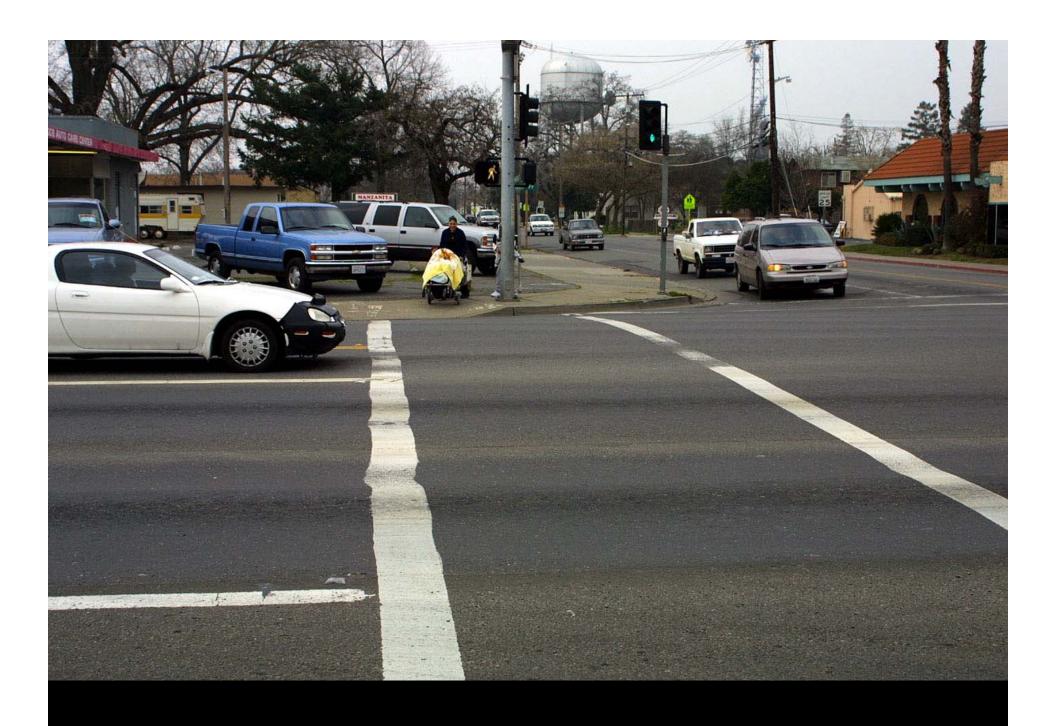
Isolation

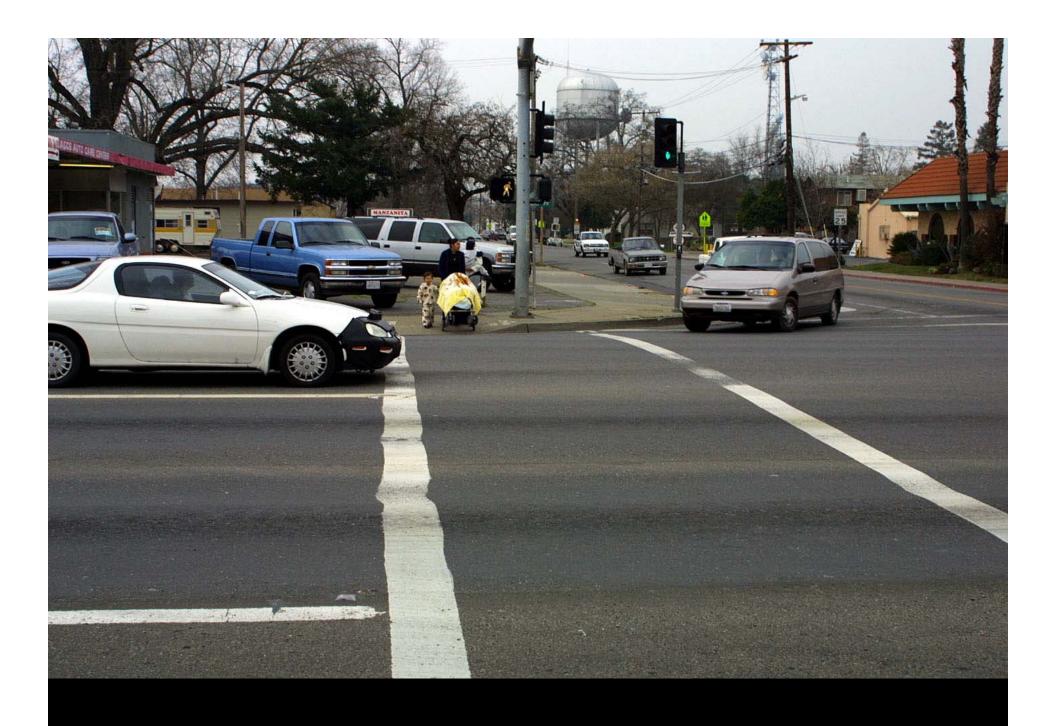
Asthma

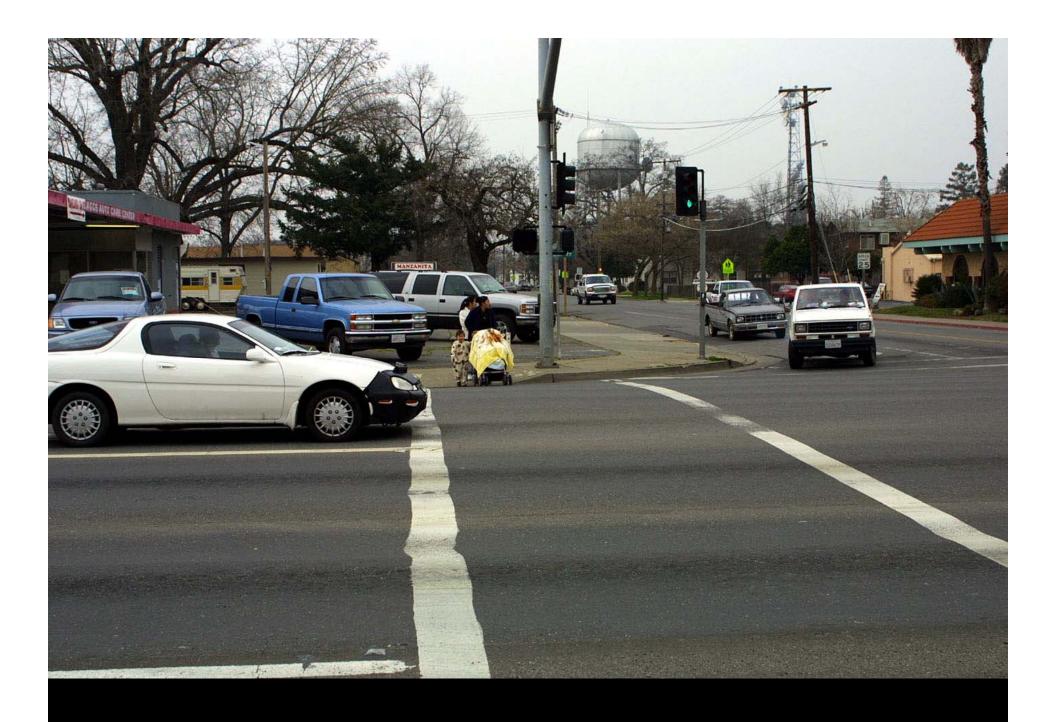


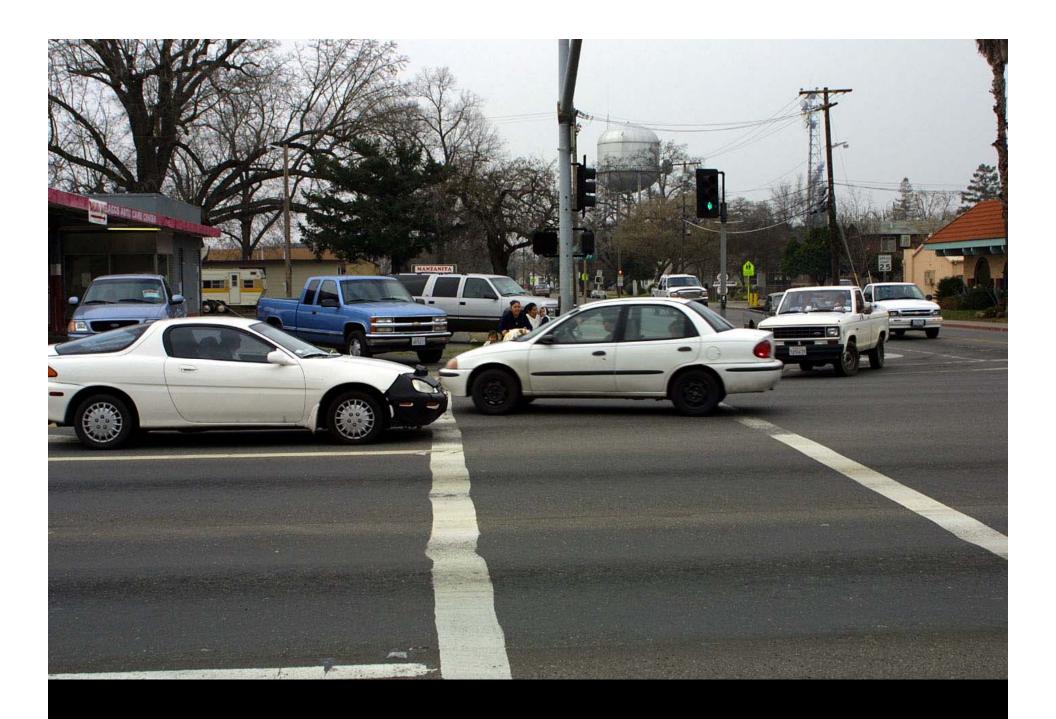




















Point 1:
It's not just an obesity epidemic. It's an epidemic of physical inactivity.

· CANINE CONSTITUTIONAL



A brisk walk in the park keeps Marcy B in shape between dog to give her 3-year-old Doberman his regular weekood. They shows. His owner, Columbus resident Cathy Stumbo, got up early typically og 15 miles in Berliner Park.

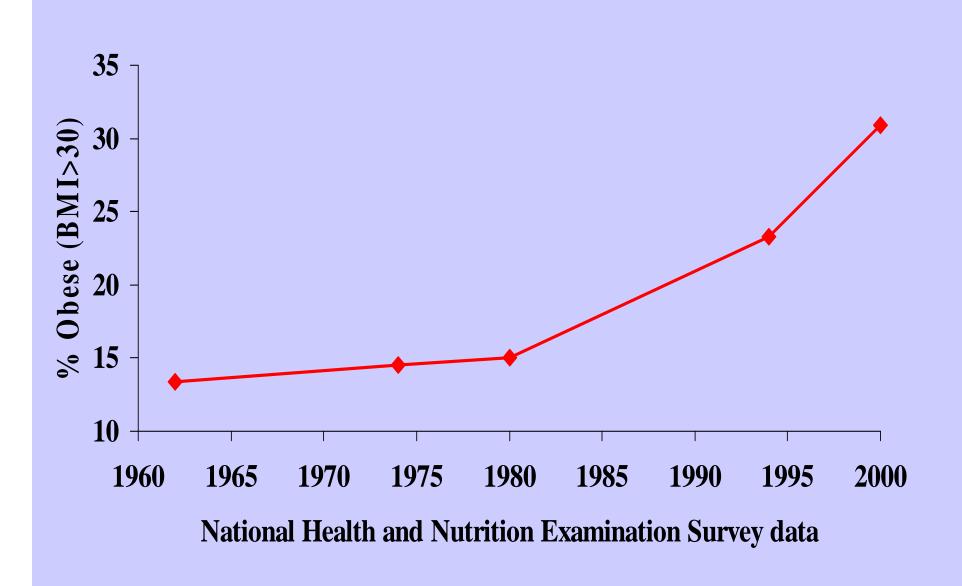
Surgeon General's 1996 Activity Recommendation



- 30 minutes of activity.
- Most days of the week.
- Can be broken up.
- Reduced risk for CVD, diabetes, osteoporosis, obesity, clinical depression, some forms of cancer.

The Obesity Epidemic in the US

Flegal et. al. (JAMA 288, 14; Oct. 2002)



Is Physical Inactivity Really a Problem?



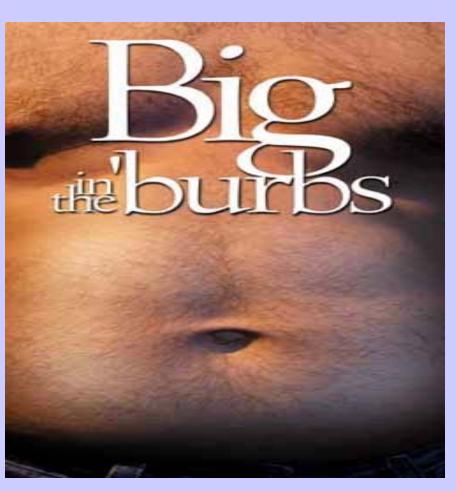
29% of adults are sedentary

73% are not active enough

36% of young people in grades 9-12 do not participate in vigorous activities 3 or more days a week

One-fourth of those aged 6-17 are already overweight

Obesity/Overweight

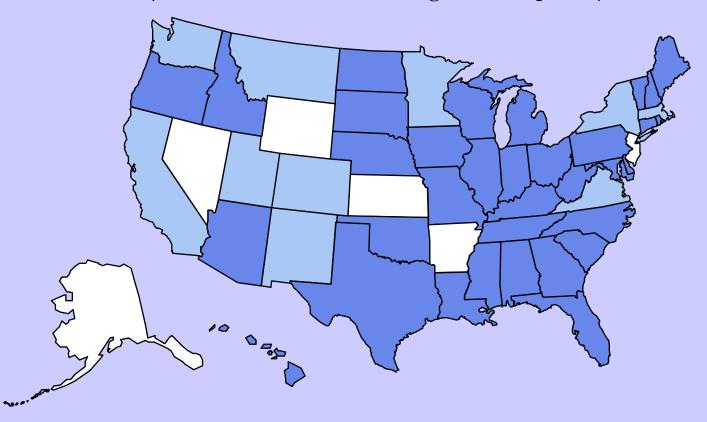


- Over one in four adults is obese
- 61% of adults are overweight
- Rates of seriously overweight children more than doubled since the 1970s.
- There has been a dramatic increase in the number of children with adult-onset diabetes in the last five years.

Sources: Centers for Disease Control and Prevention, NHANES, 1999

BRFSS, 1990

(*BMI \geq 30, or \sim 30 lbs overweight for 5'4" person)

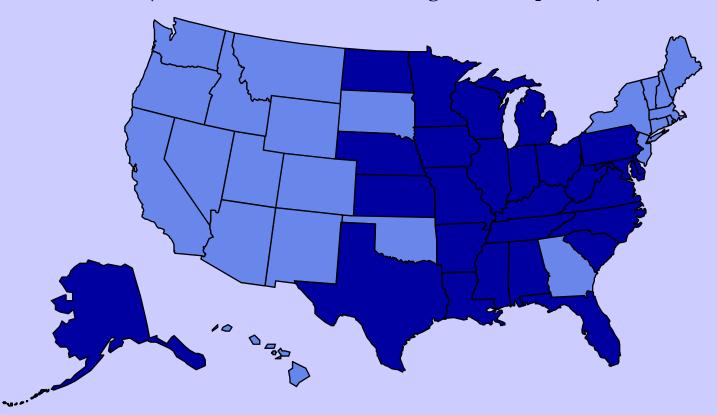


No Data ____ <10% ___ 10%-14% ___ 15-19% ___



BRFSS, 1995

(*BMI \geq 30, or \sim 30 lbs overweight for 5'4" person)

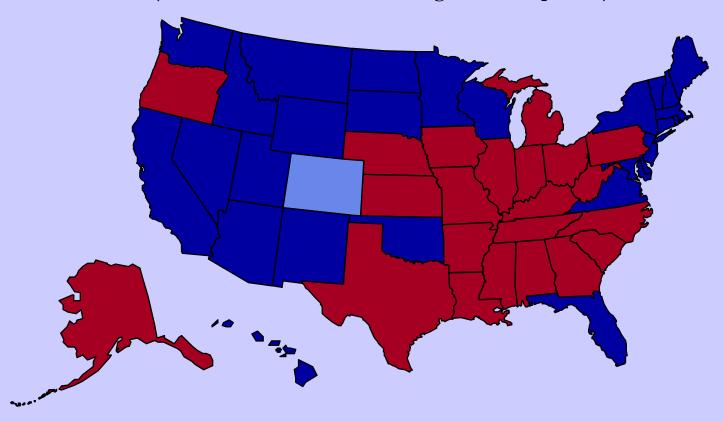


No Data _____ <10% ____ 10%-14% ____ 15-19%



BRFSS, 2000

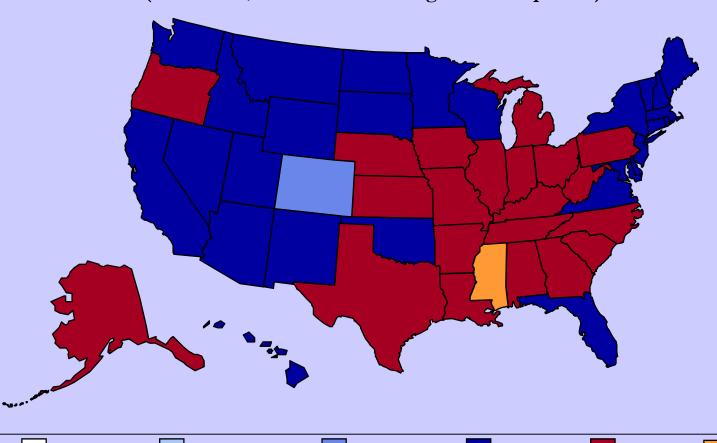
(*BMI \geq 30, or \sim 30 lbs overweight for 5'4" person)





BRFSS, 2001

(*BMI \geq 30, or \sim 30 lbs overweight for 5'4" person)



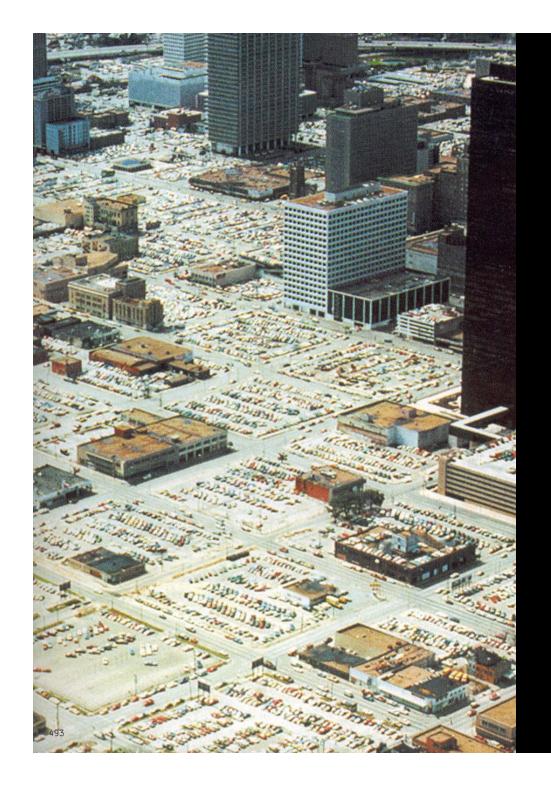






For every 10 minutes you spend driving, you are 10% LESS likely to get involved in your community.





The Myth

America's high level of dependence upon the automobile has lowered the standard of living, snarled traffic, and lowered air quality.

The Facts

The mobility provided by our highways is critical to the modern lifestyle.

The Quality Growth Coalition ... includes American Road and Transportation Builders Association, National Asphalt Pavement Assoc.

Livable, Active Living, Walkable Neighborhoods

Many Villages (1/2 mile apart)
Low speed, Green Streets
Many Connections, Walkways and Trails
Open Space within 800 feet of all homes
Plenty of Association, Ways to Associate

Minimal Off-Street Parking Housing Density, Mixed Use Mixed Income, Affordable Great Boulevard Streets Great Entries



Ten Steps To Walkability

Compact, lively town center

Low speed streets, distributed volumes

Fine grained streets, many trails, transit links

Neighborhood schools and parks, within one quarter mile or one eighth mile



Public places with inviting features: benches, restrooms, shade, water and art

Convenient, safe and efficient crossings

Many people of all ages and abilities walking many hours

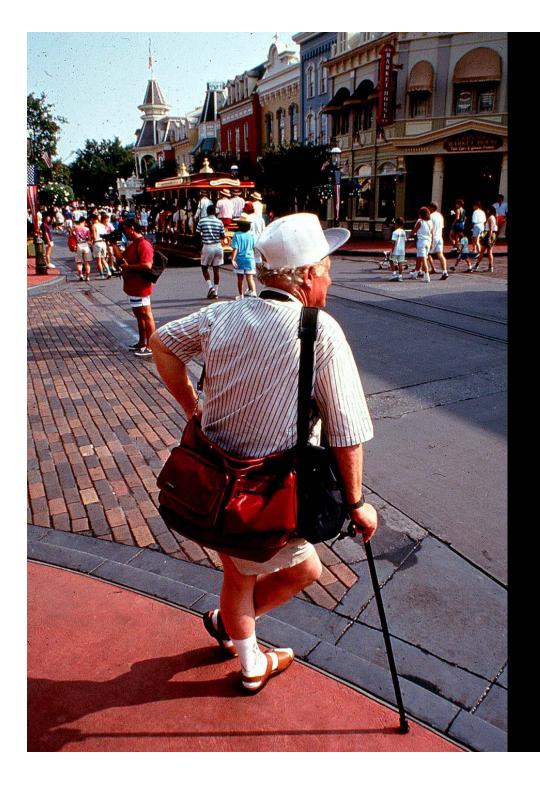
Celebrated public space and public life, parades, markets, festivals, awards

Land use and transportation partnerships

Affordable, inspiring, well maintained streets and homes.

Dear Dan,

I have lived in Alpharetta, Georgia for the past 12 years and I am literally choking with all the traffic and development. I would like to move to a town where my kids can ride their bikes or motorized scooters to school or to the bakery or to the beach. When I was younger my family lived in Spring Lake, New Jersey and my husband's family lived in Winnetka, Illinois where you could do those kinds of fun things. Do you know of a book or resource that could help us research towns such as those so we can begin the planning stage of where to move to. Thank you ...



Five keys to success

Security
Convenience
Efficiency
Comfort
Welcome





Provide Services

Downtowns should provide essential services

Postal
Residential
Commercial
Public Space
Restrooms

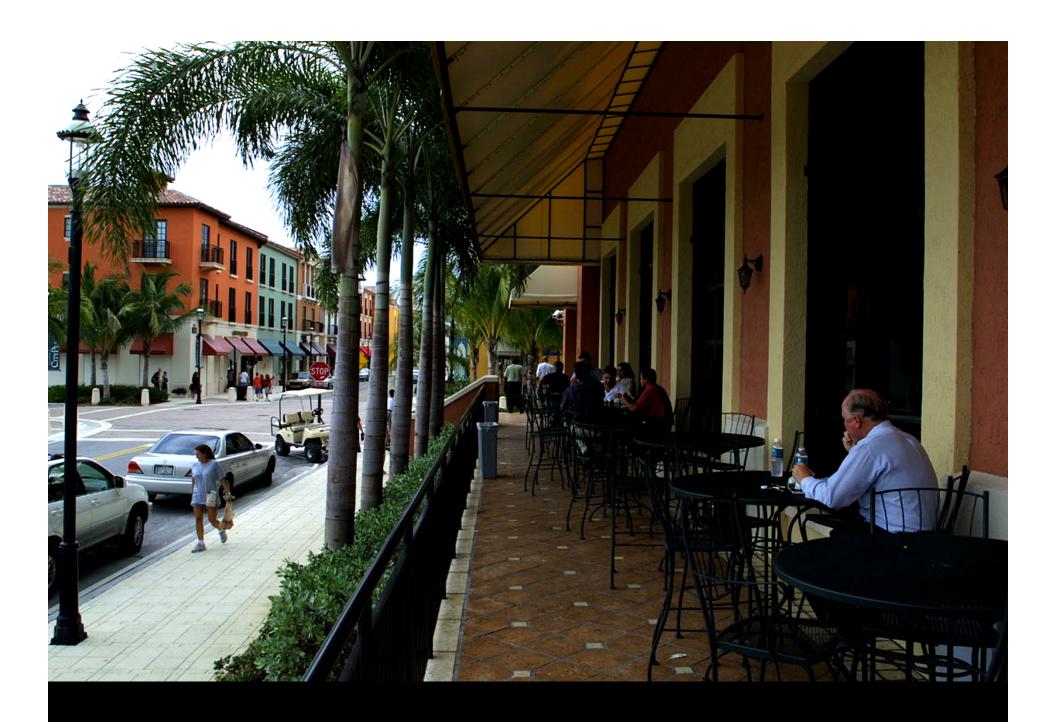
FERNDALE CALIFORNIA



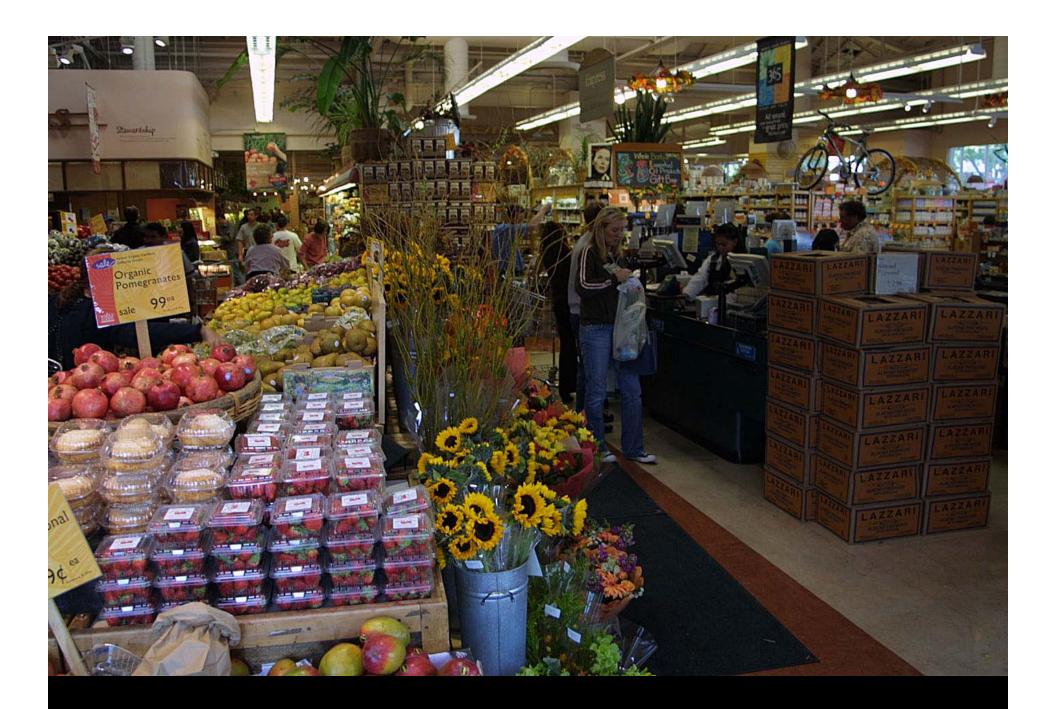


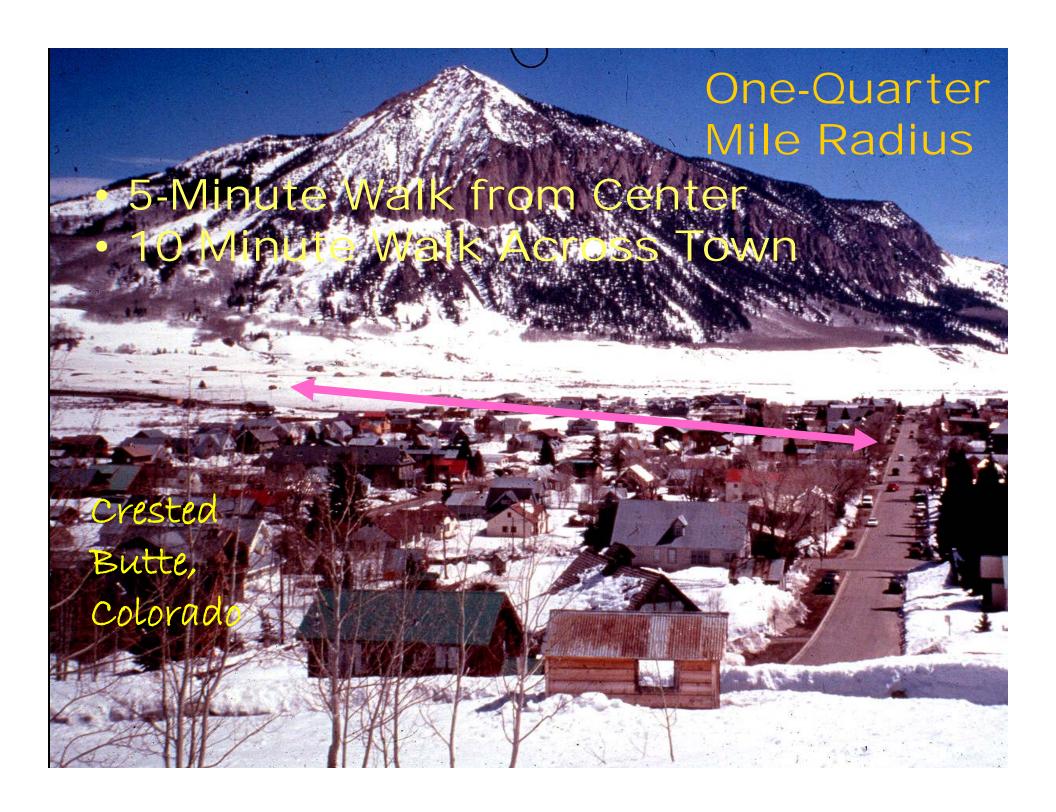


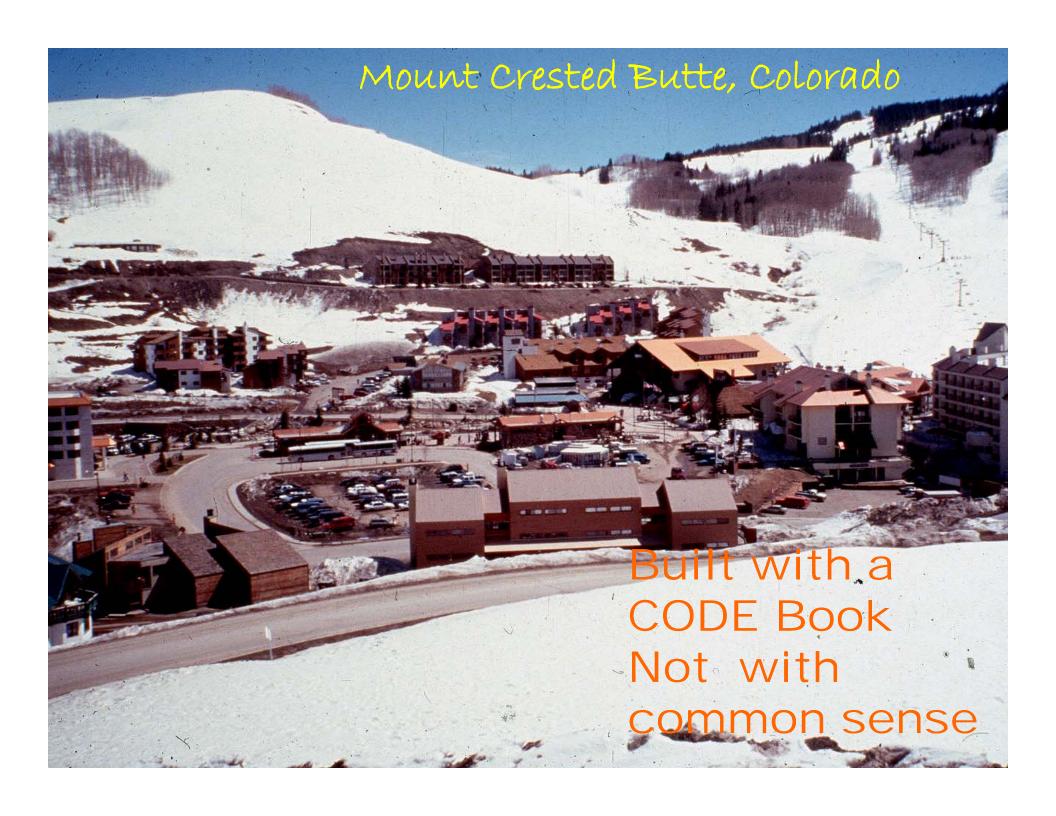






















Build for Multiple Uses

Beauty Function Open Space Diversity, Inclusiveness

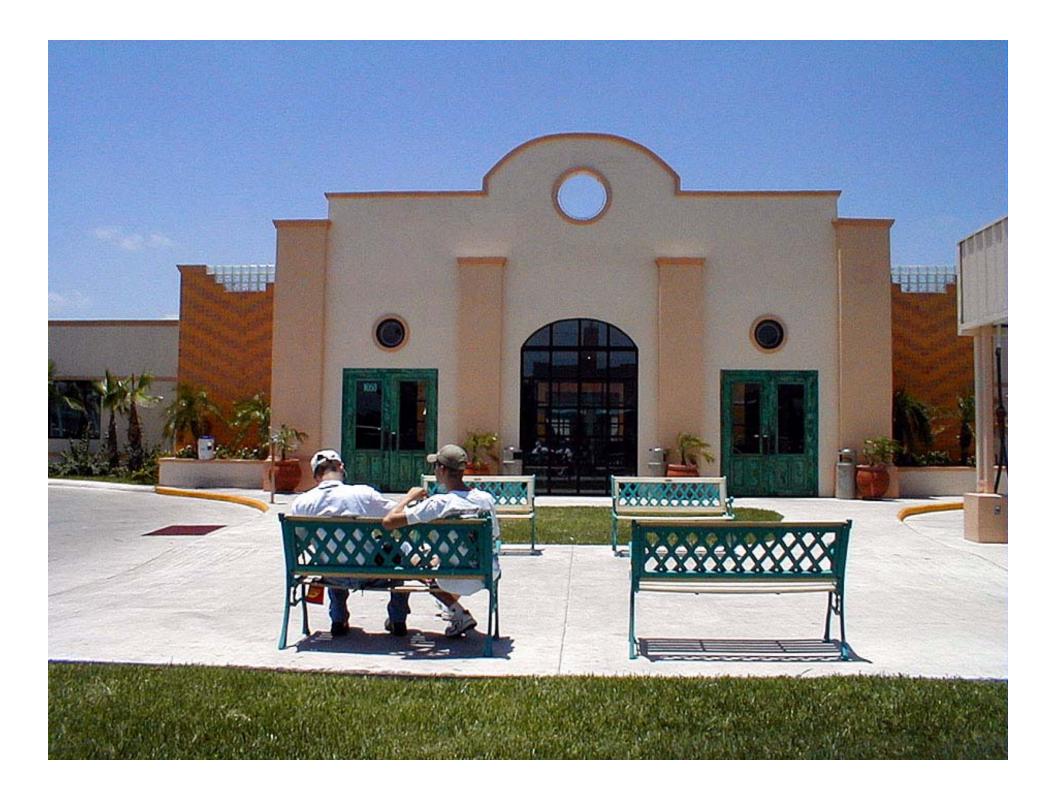
Art/Music

Green

Friendly

Economic prosperity







































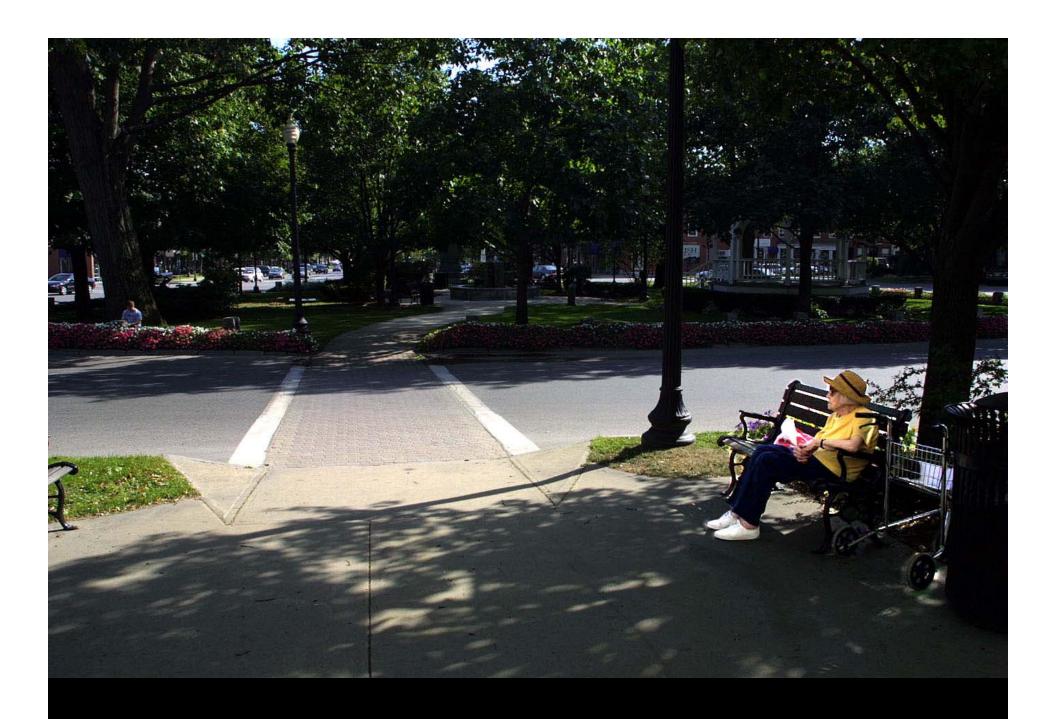


The Greatest Access on Earth

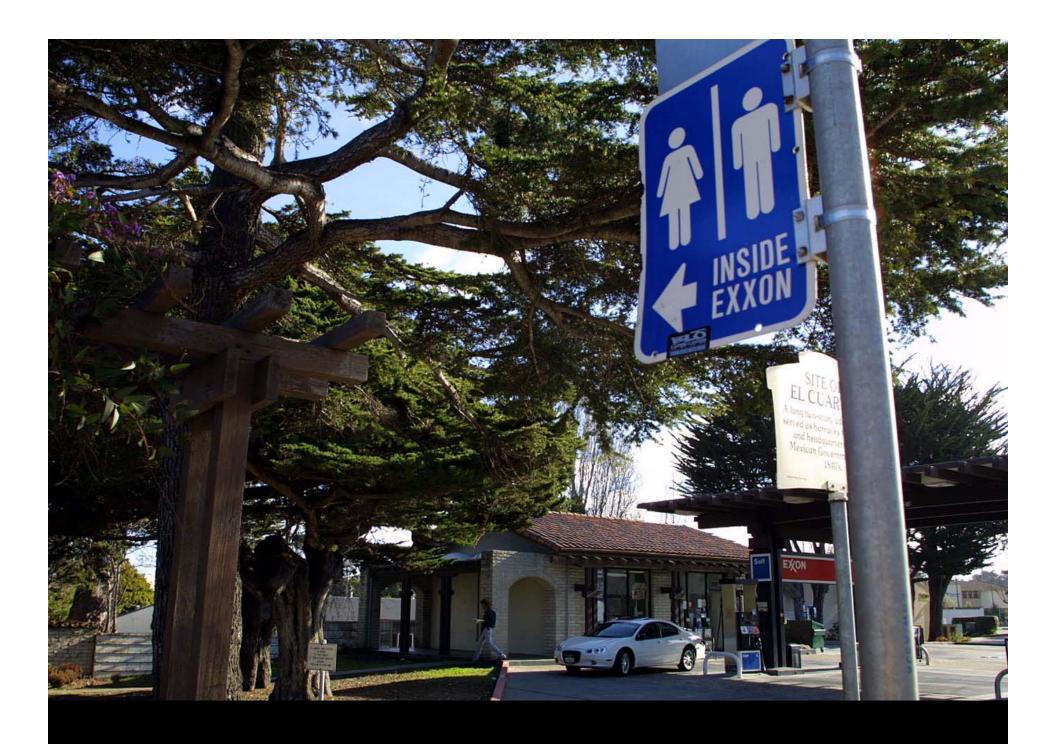


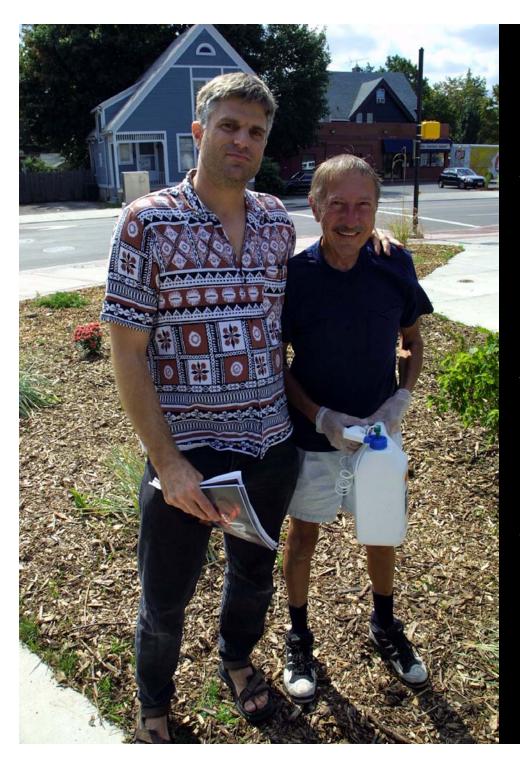












Art Walk Master

Doug Rice

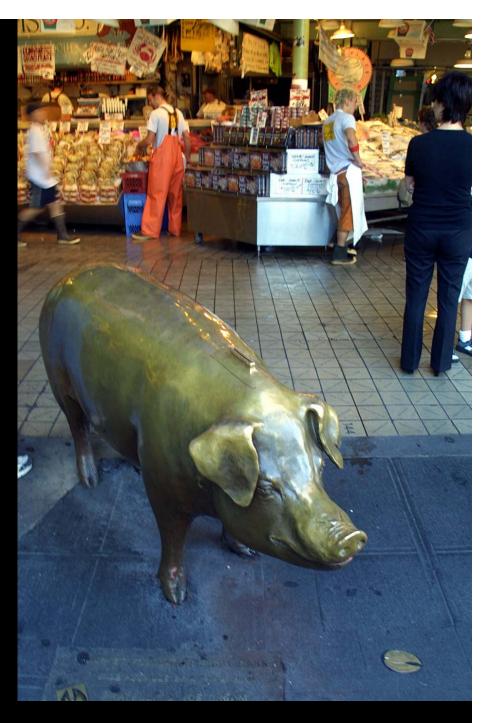
With

Median adopter, Arnie



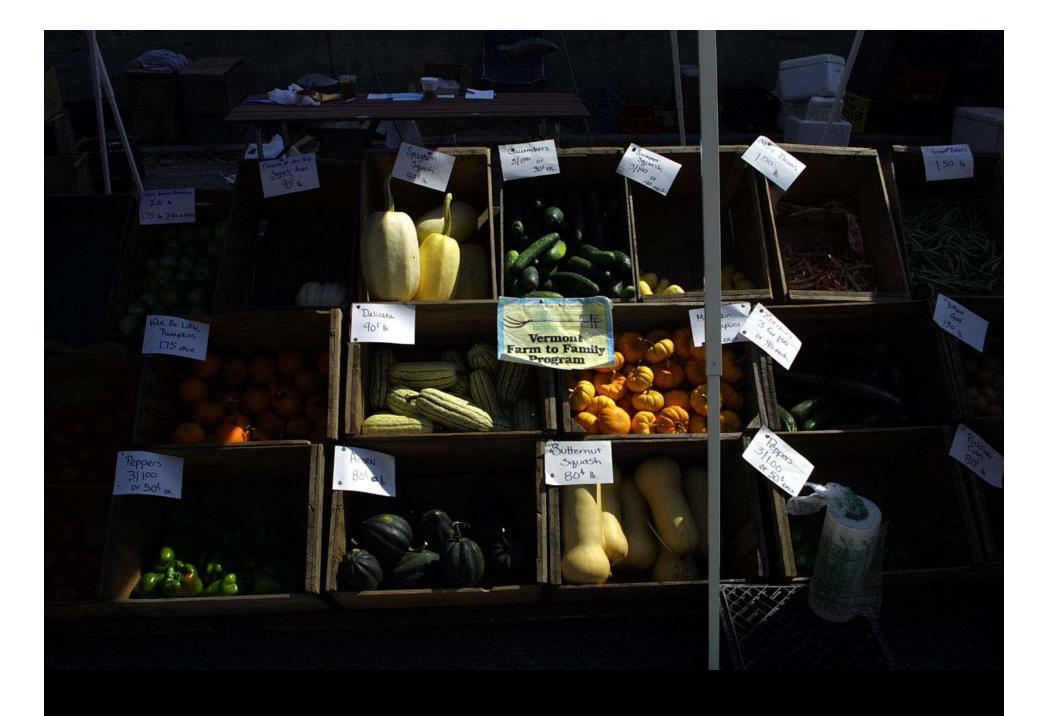






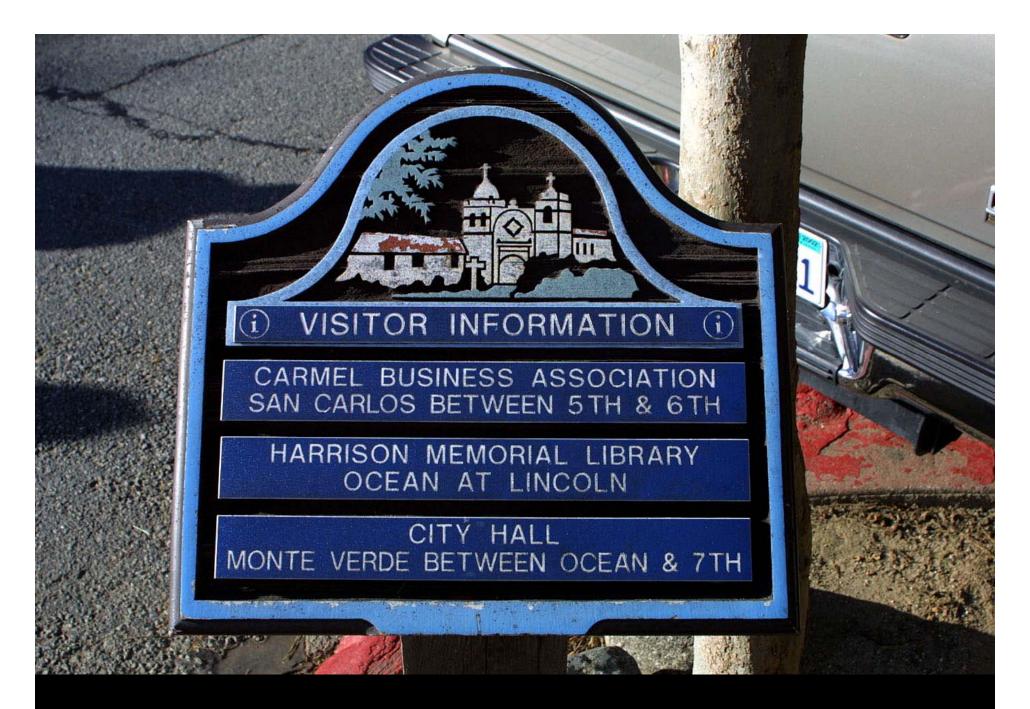








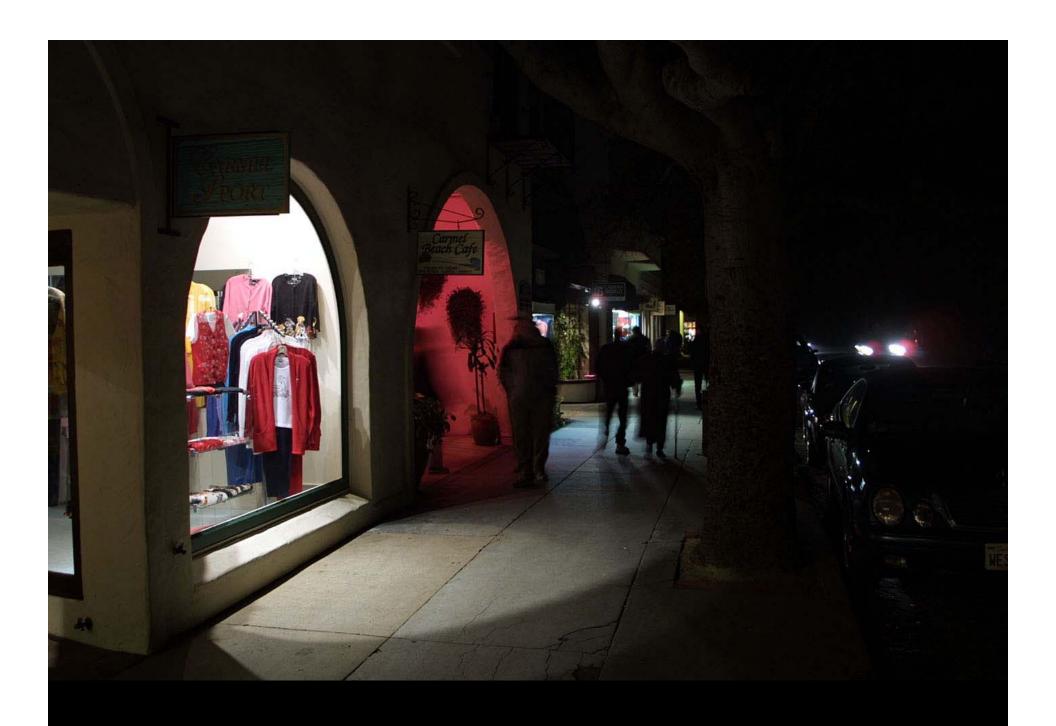




Wayfinding



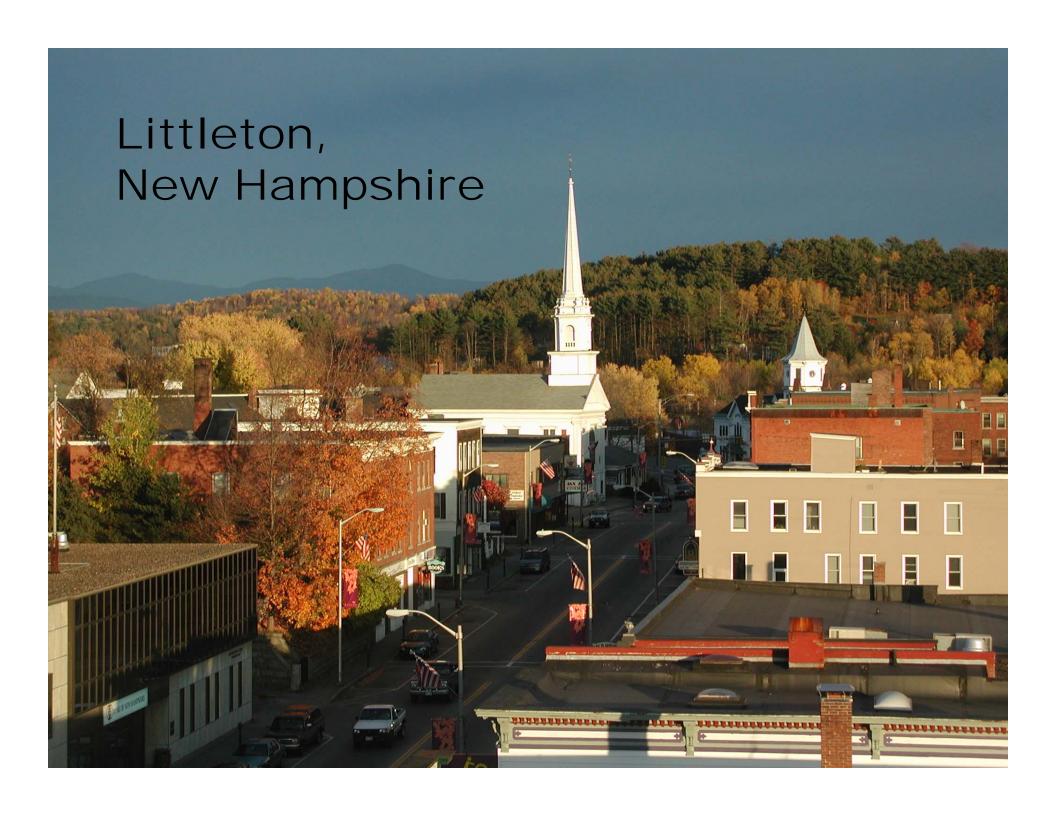


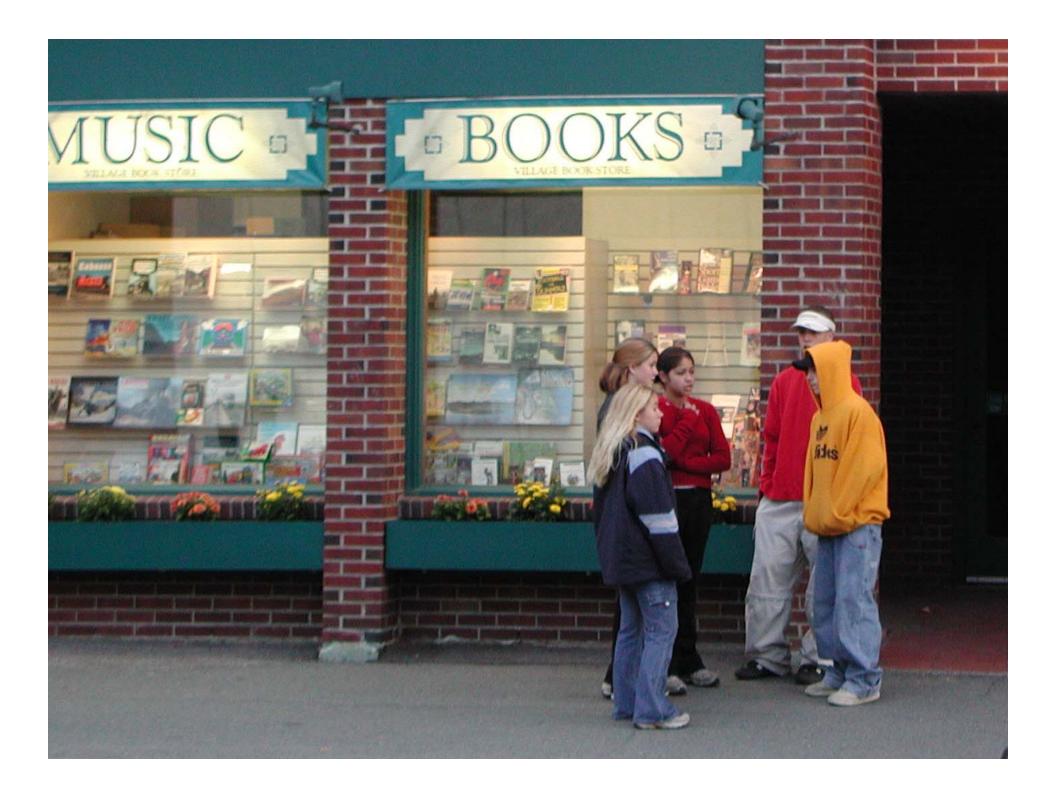






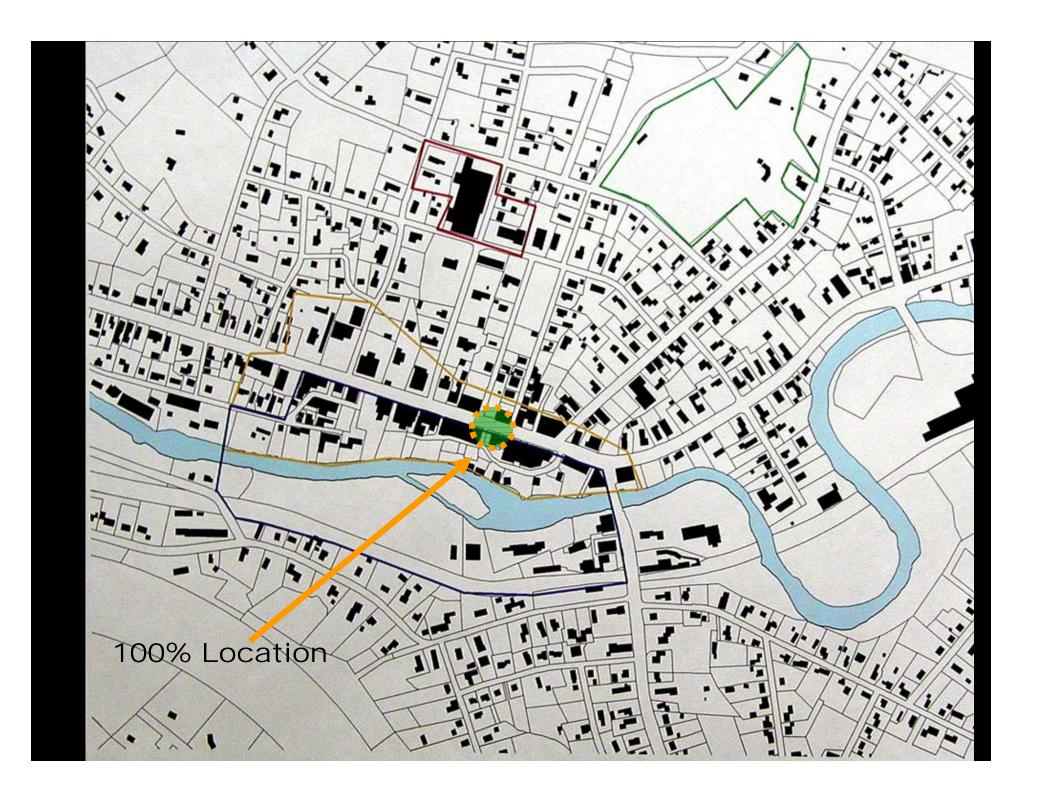


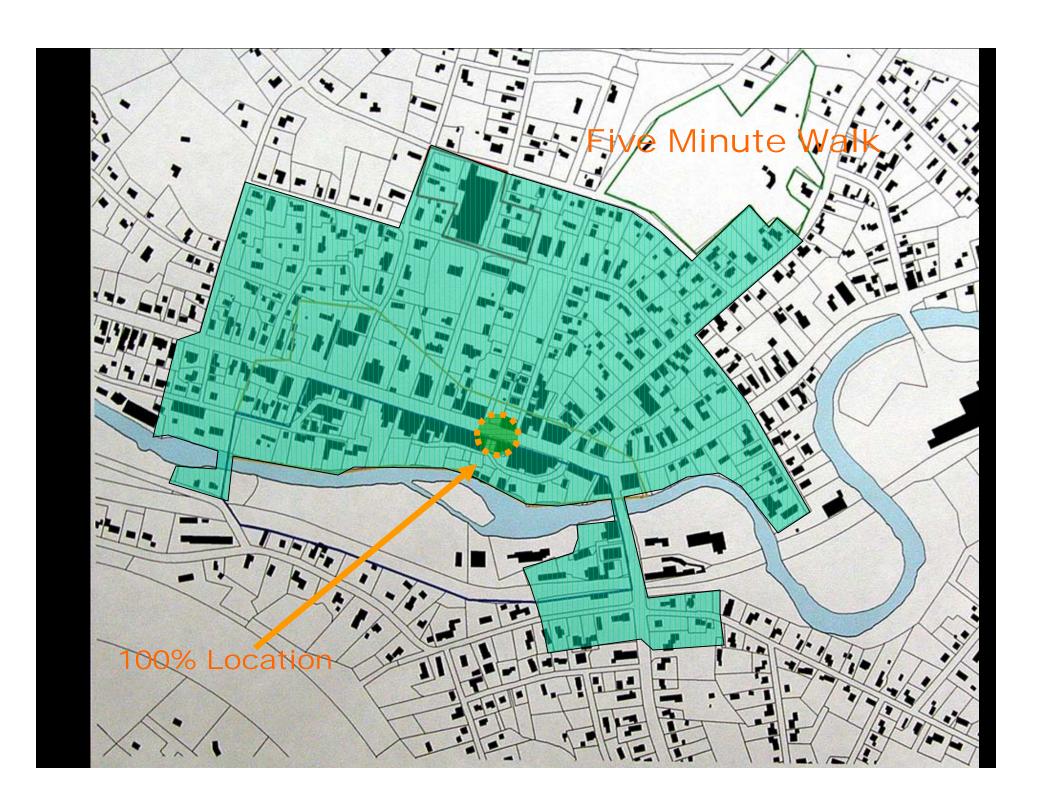


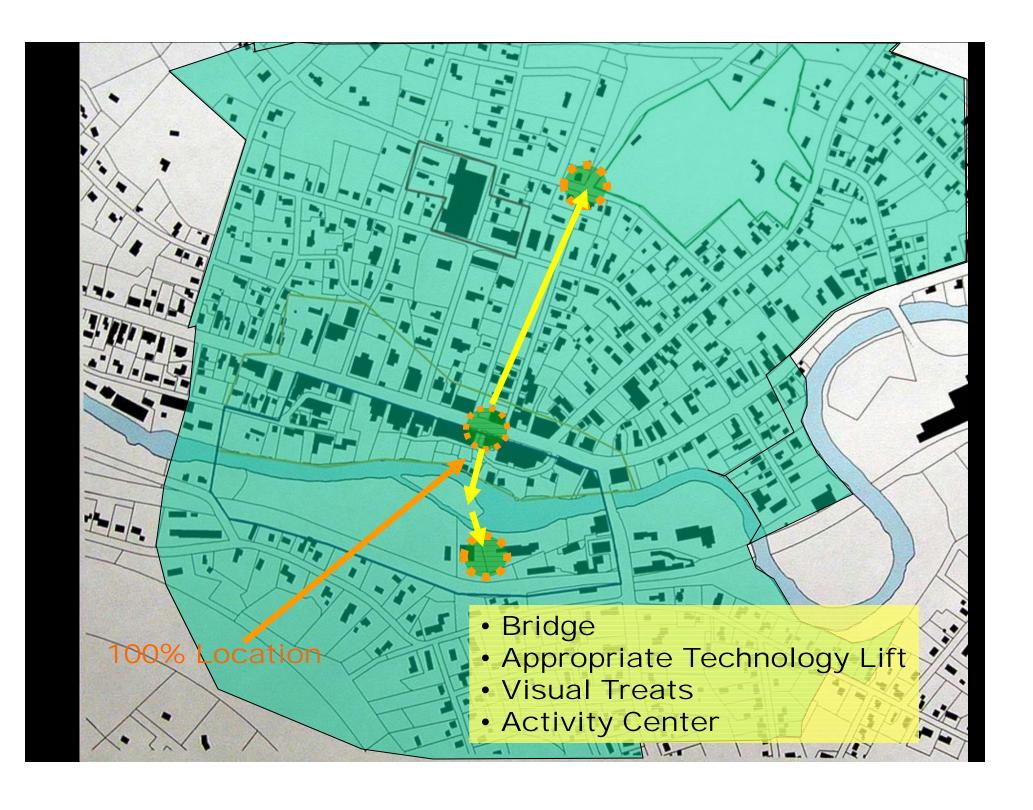














Levels of Ouality

SIDEWALK CAPACITY

Highway Capacity Manual - Page 13-12



LOS A



LOS D



LOS B



LOS E



LOS C



LOS F





Streets are our primary public space

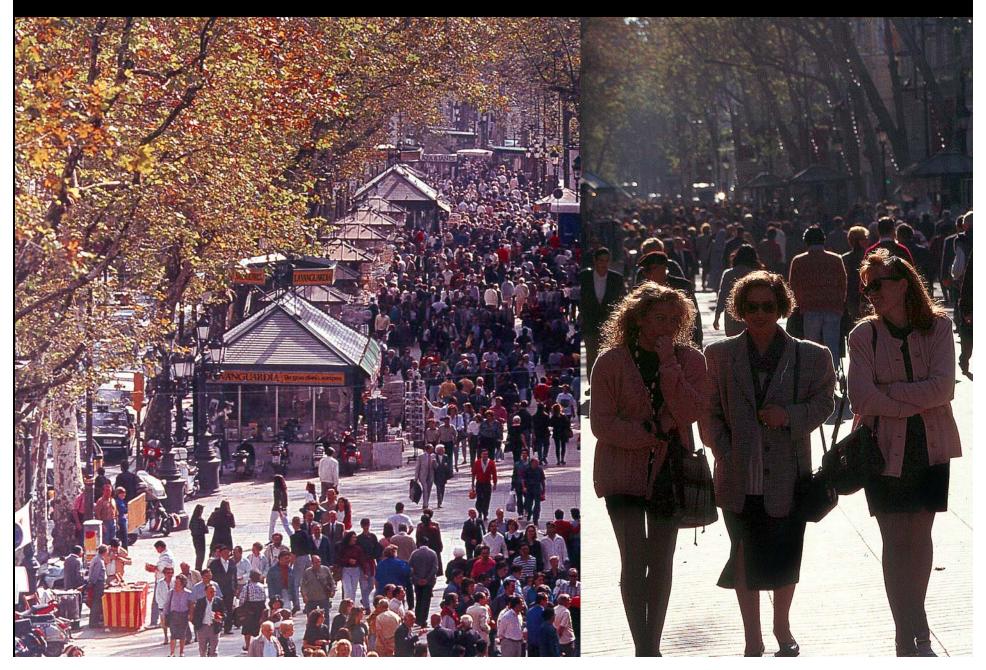
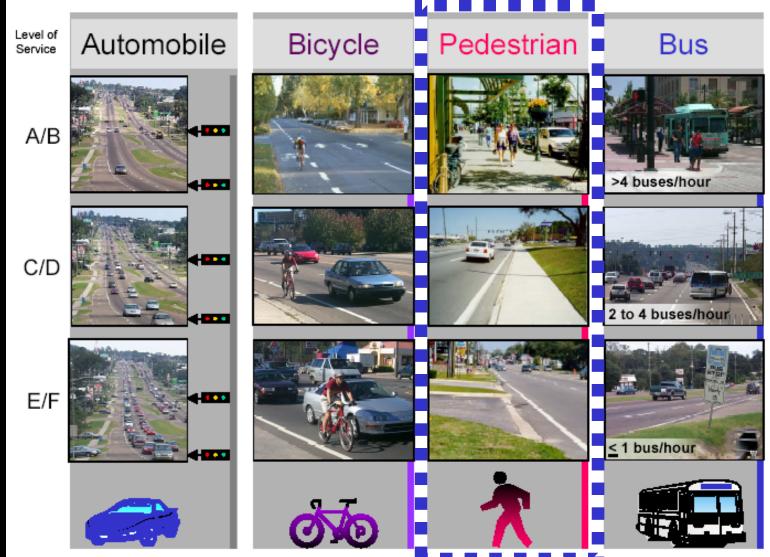


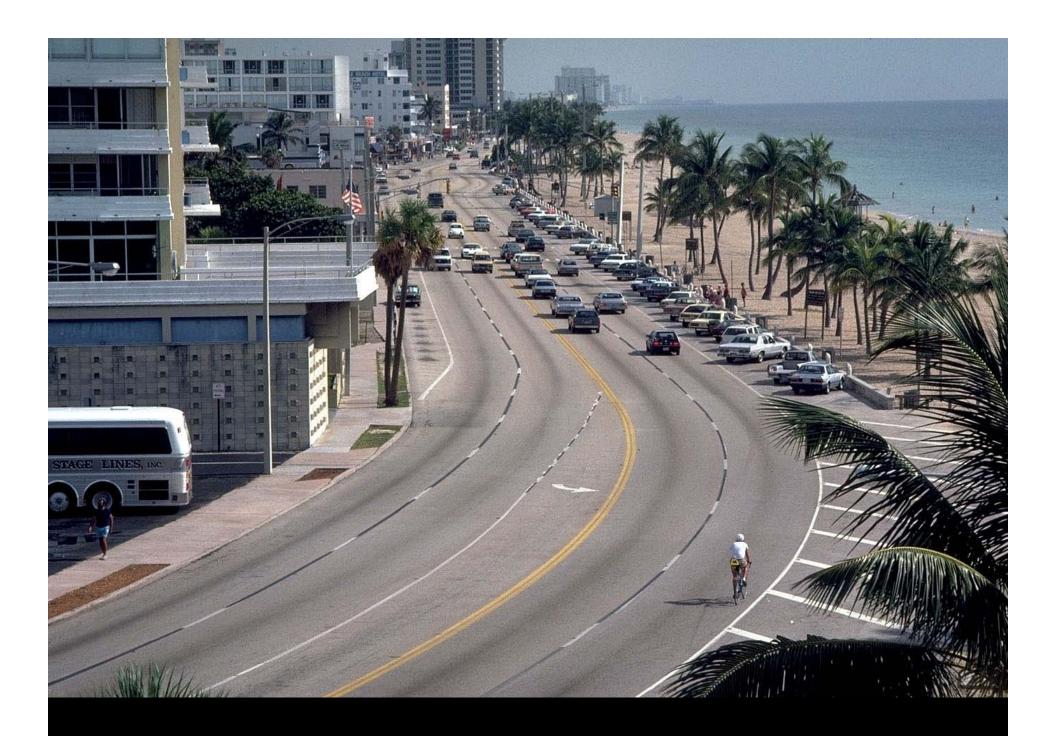
Figure 1 - 2
EXAMPLES OF LEVEL OF SERVICE BY MODE FOR URBAN ROADWAYS



Walking -- Levels of Quality B C Exemplary Excellent Good Fair Hall of Shame **Sidewalks** Poor Walkability increases with added width, buffers to the street, many eyes on the walk, attractive edges. Five-foot minimum widths are needed. Conditions improve as numbers of driveways are reduced, or set back. Non-mountable curbing is important. **Main Streets** Main Street walks should be wide, attractive, with many shops and residential units watching over the street. Many activities are needed to keep sidewalks in use many hours a day. Good lighting and street furniture are essential. Maintenance is key. **Local Streets** Local streets should be narrow. well landscaped, with on-street parking to act as sidewalk buffers. Driving speeds of 15-20 mph are best, 20-25 are acceptable. Homes should be proximate to the street. Avenue/Boulevard Avenues and boulevard sidewalks should be 5-6 feed wide in most applications. Planter strips and bike lanes create essential separation from motorists. Trees. other landscaping, medians help slow motorists. Lanes can be as narrow as 10 feet. Crossings Crossings should be well marked, accentuated by curb extensions. On multi-lane boule vards it is essential to have exceptionally well marked crossings. In some cases signals are warranted.



Washington, DC



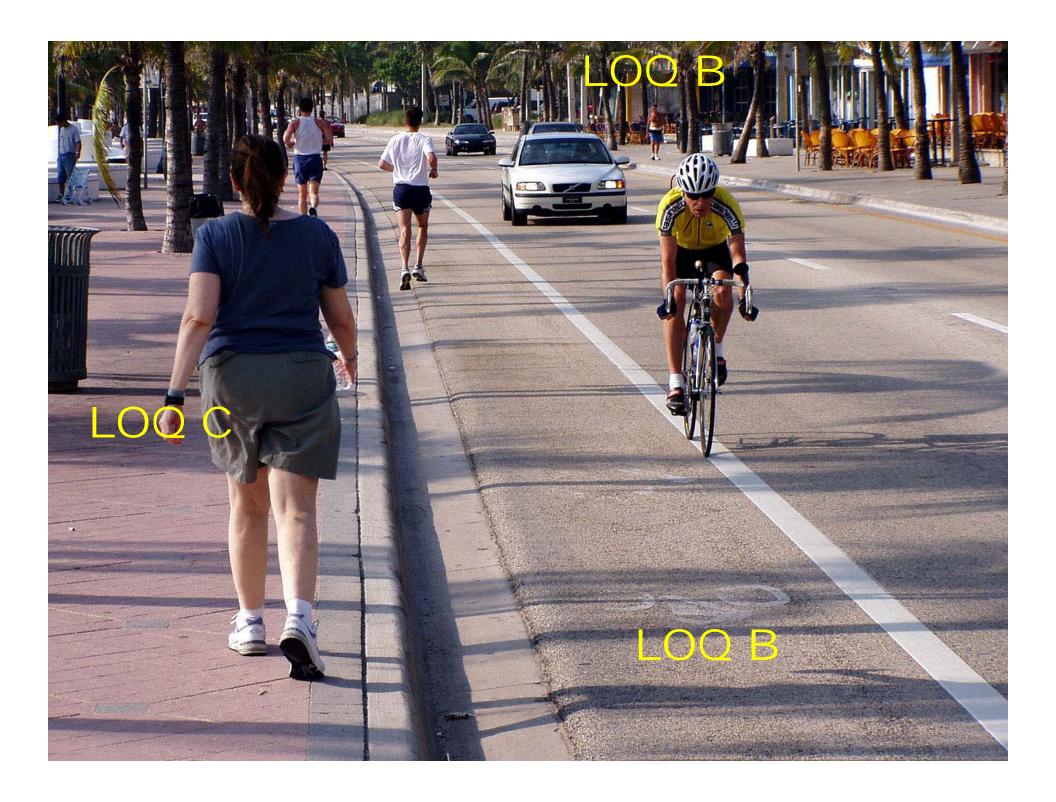


U.S. A-1-A, Ft Lauderdale, Florida



U.S. A-1-A Ft Lauderdale, Florida



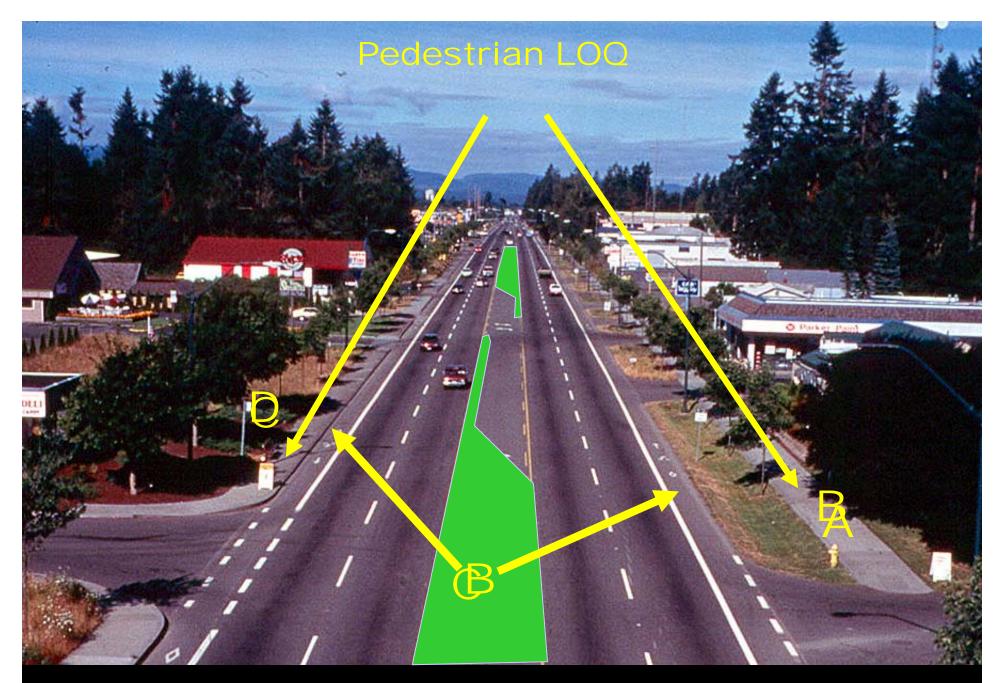








After



Bicyclist LOQ

We all have choices

People report that they would not walk in the lower photo unless forced to by circumstance





People say they choose to walk in the above setting

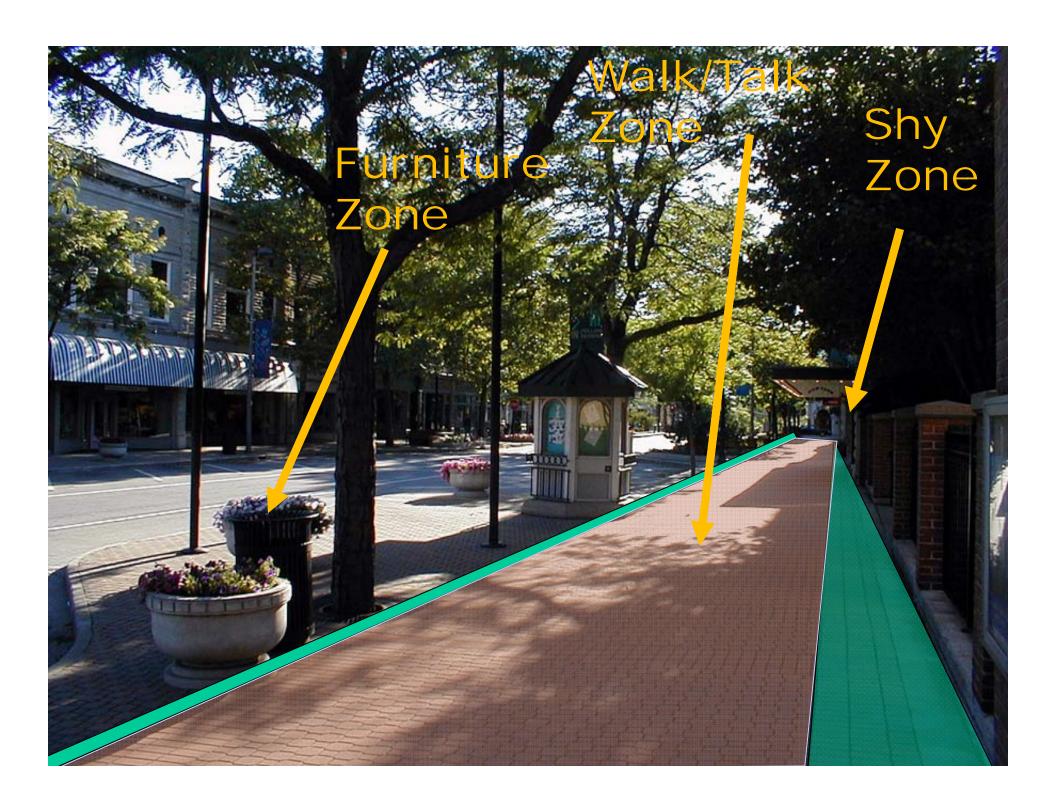
-LOQ D

LOQ B









MAIN STREET DEVELOPMENT



Typical Small Town

Neighborhood

MAIN STREET DEVELOPMENT **Strip Development Main Street Subdivision** Neighborhood Typical Small Town

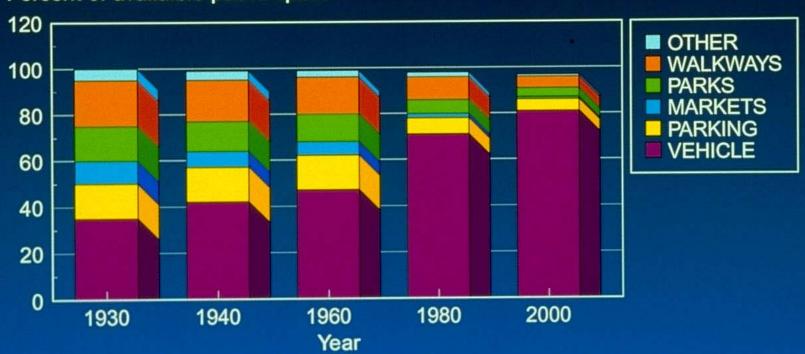
MAIN STREET DEVELOPMENT 30 mph speed zone 25 mph speed zone 45 mph speed zone Typical Small Town

Public Space

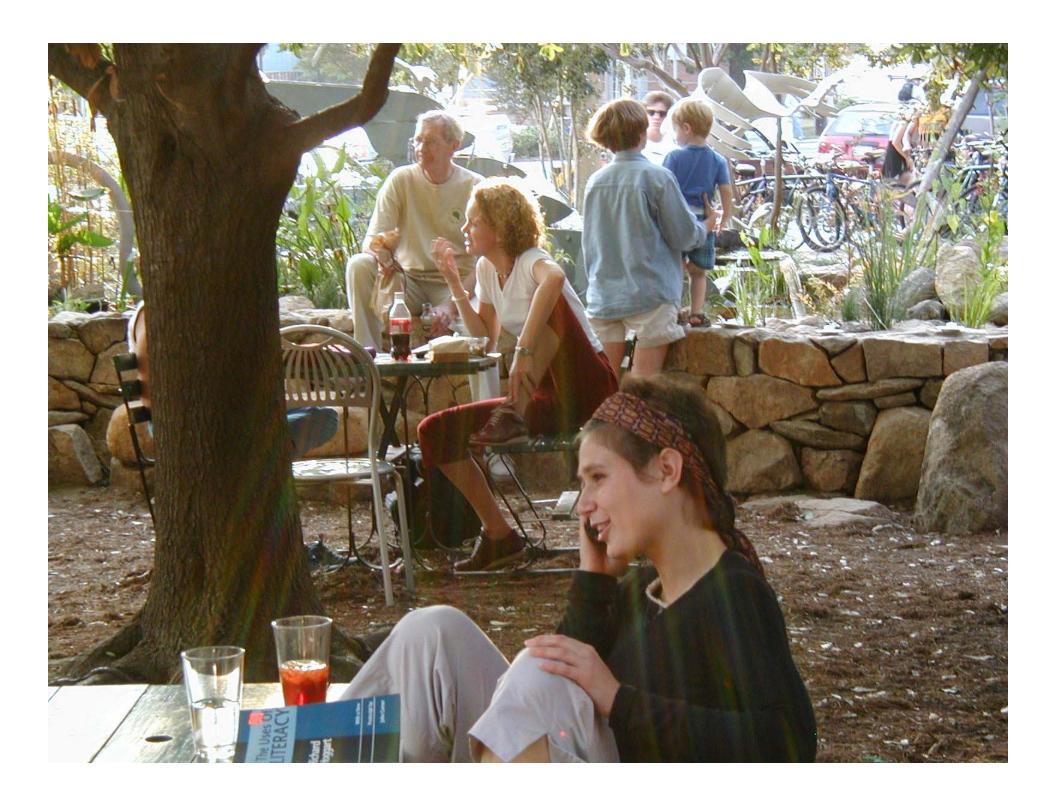
DWINDLING PUBLIC SPACE

Downtown and main street trends

Percent of available public space













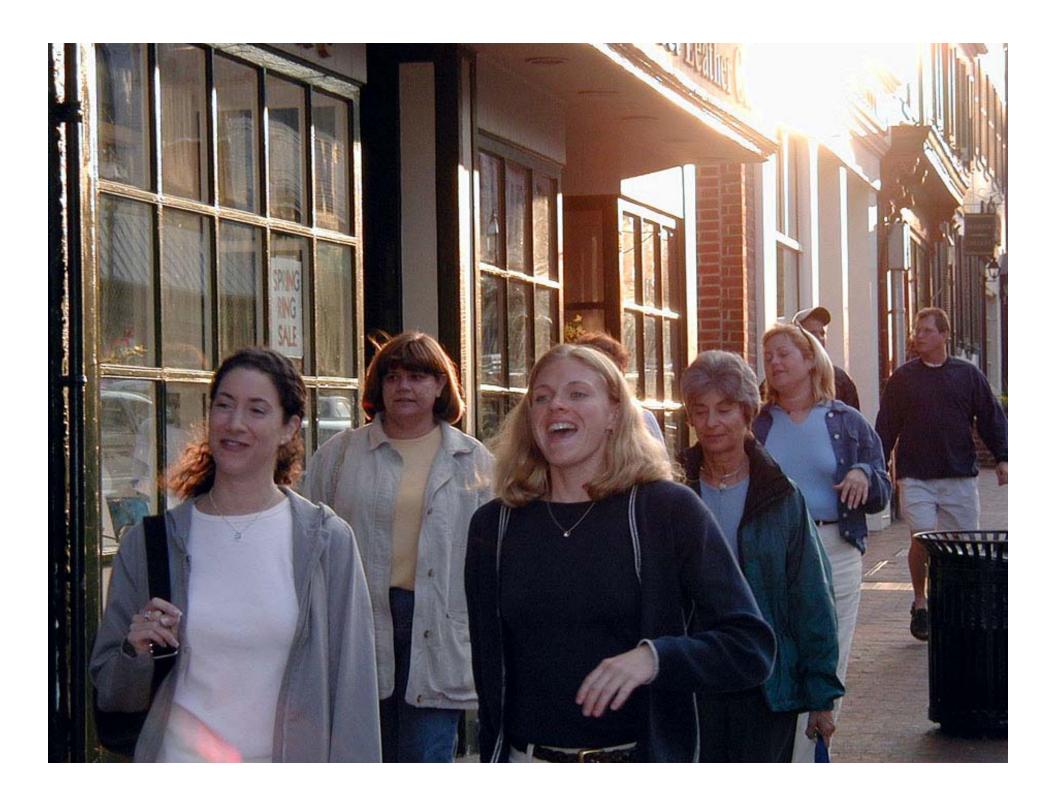


















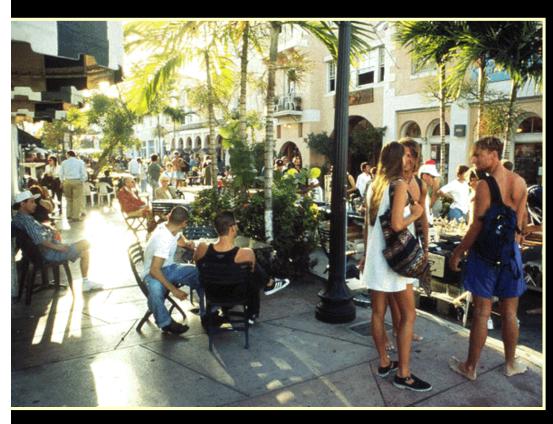


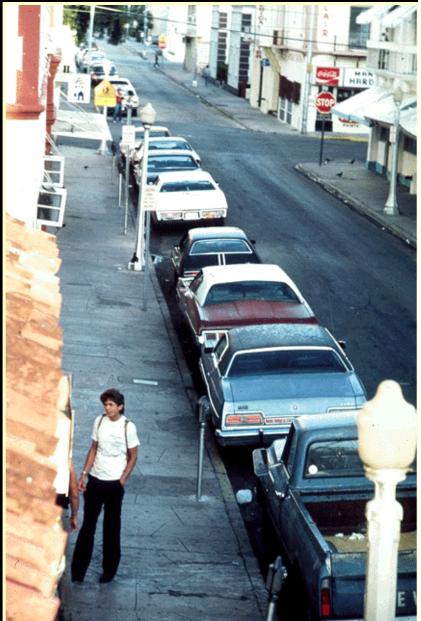




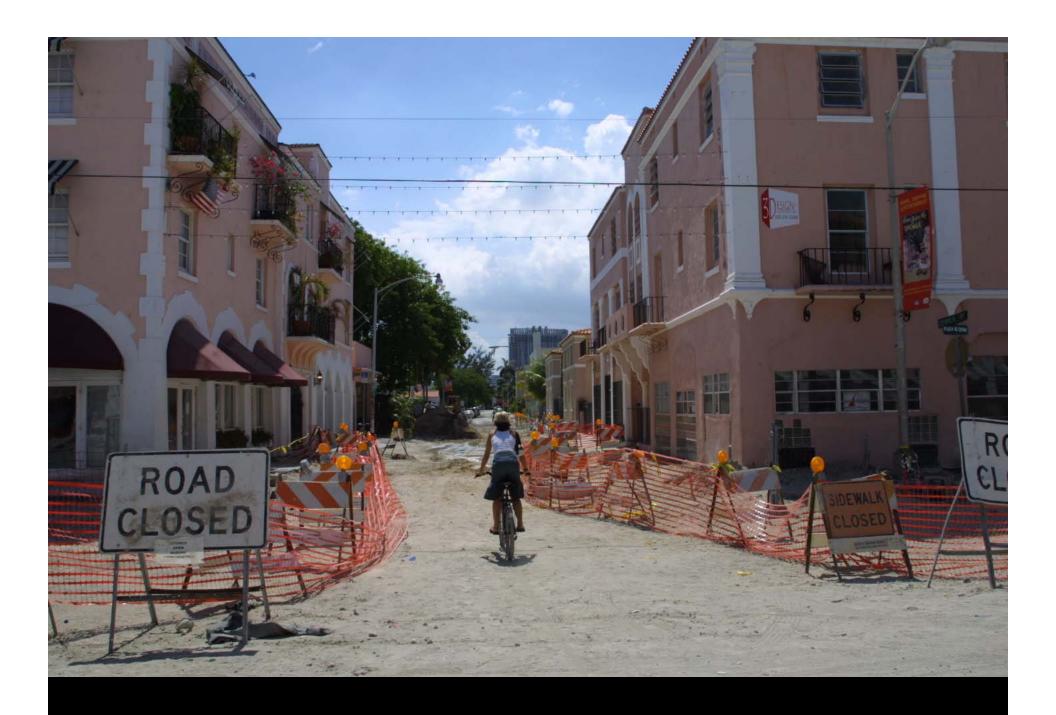


Before and After





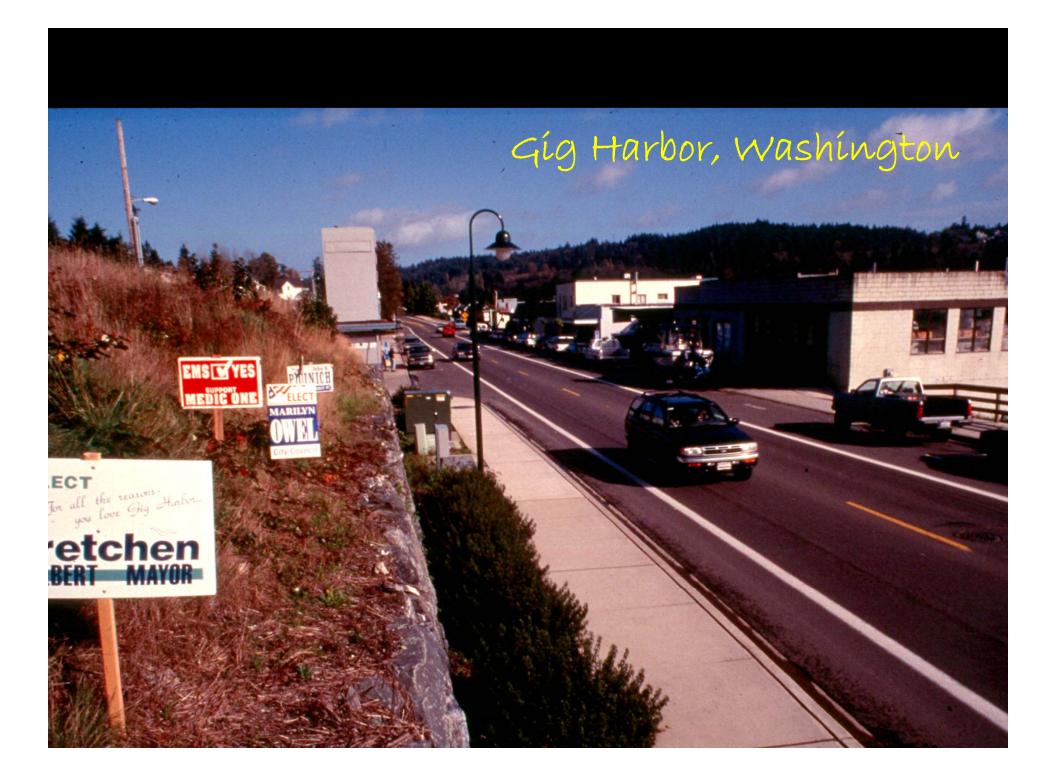












Bridgeport Way, University Place, Washington

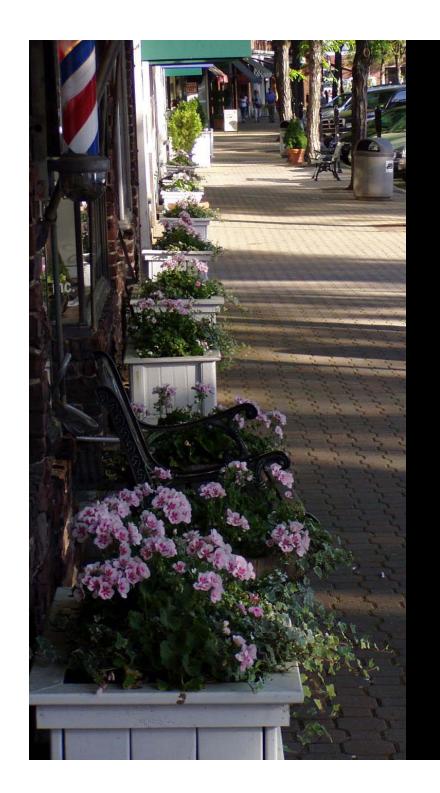


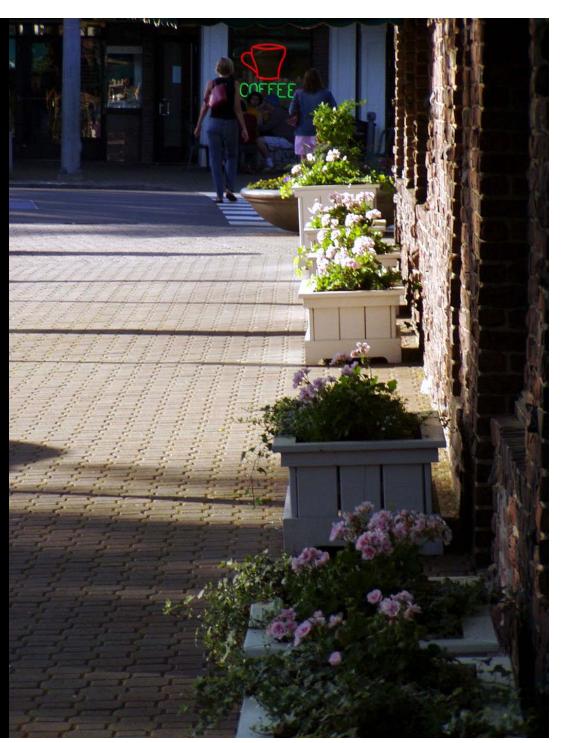


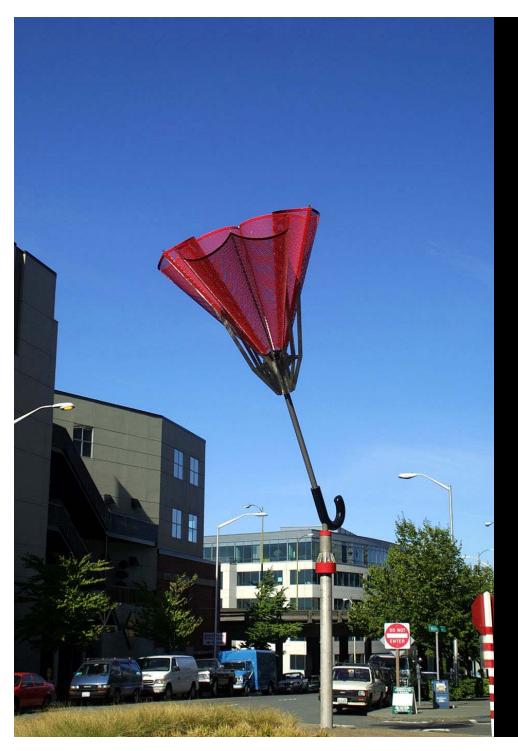


















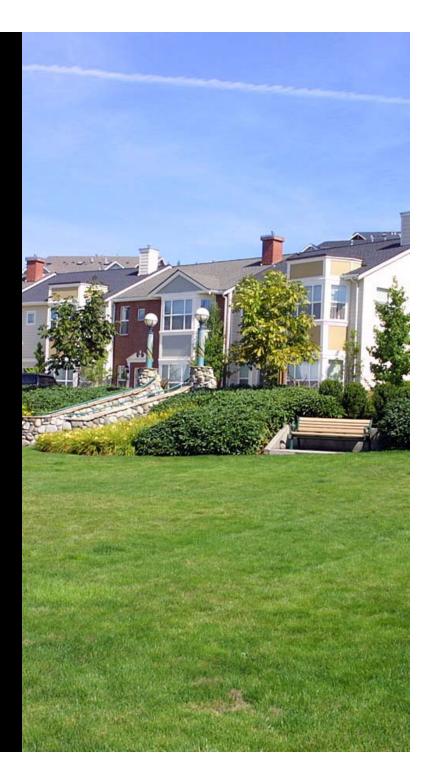












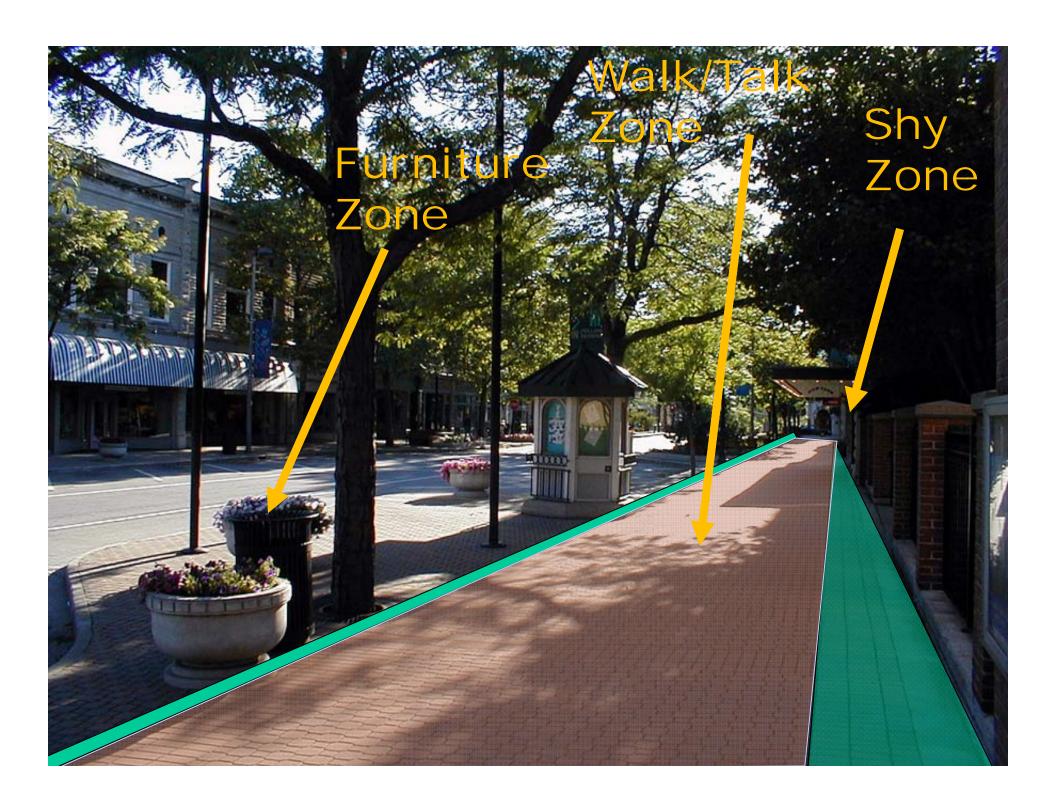




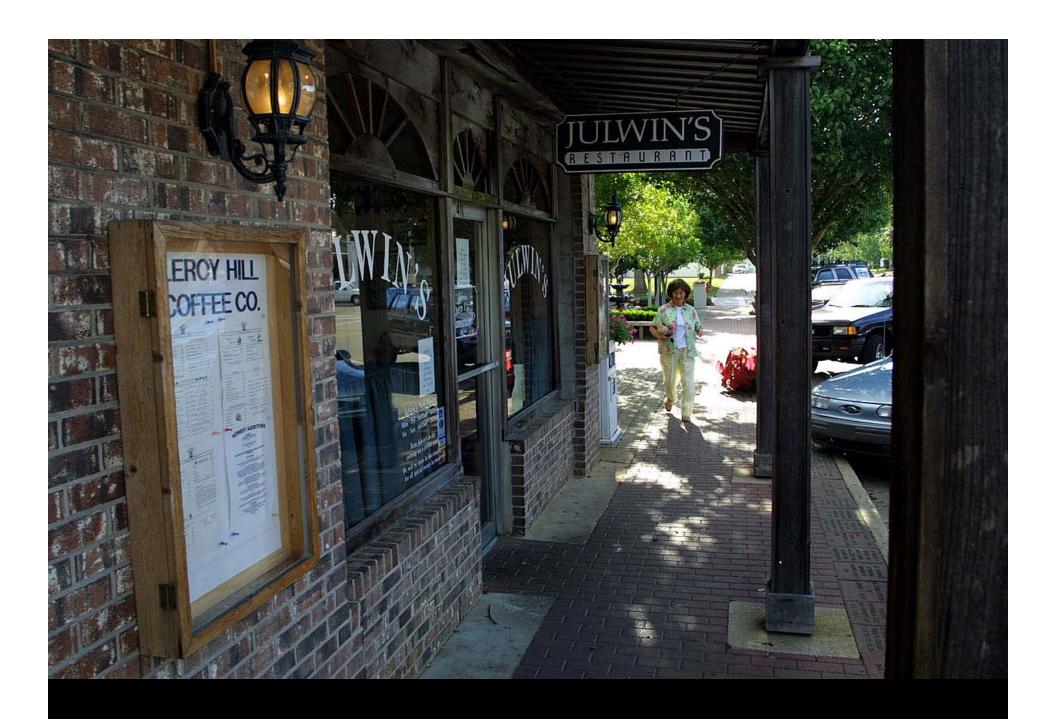


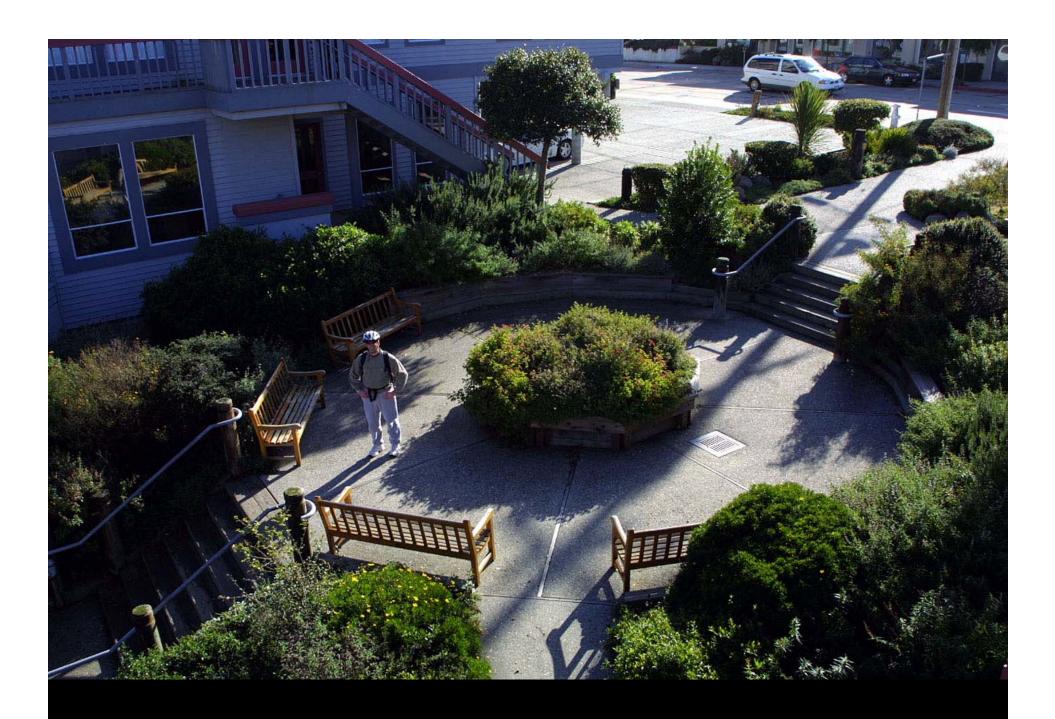


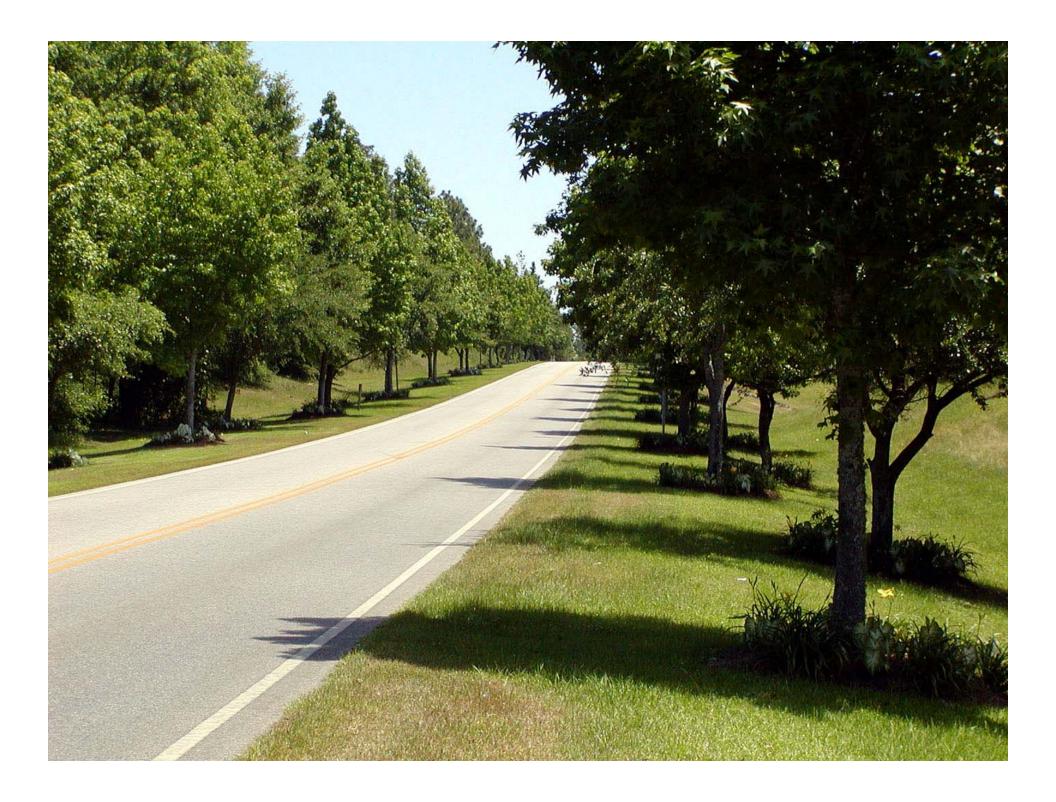




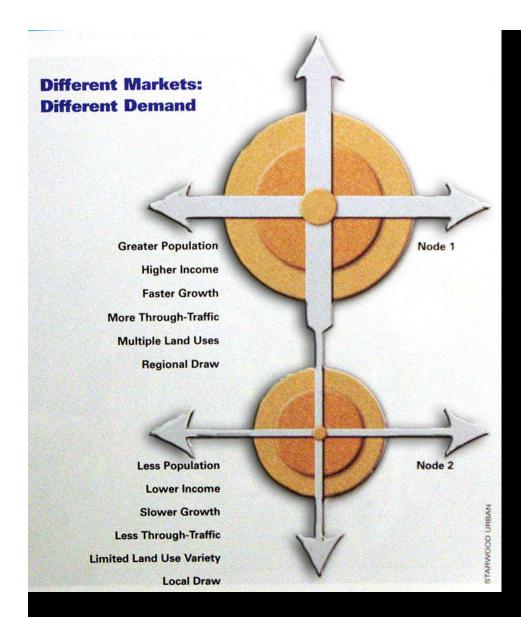








Build Villages Not Strips



Town Center

- Boulevards permitted
- 2. 2-3 civic buildings
- 3. Plazas each 1/8th mile
- 4. Mixed income housing
- 5. 40,000 sq ft commercial buildings
- 6. Residential 16-40 du/a
- 7. Multi-family residential
- 8. Parking structures permitted

Hamlet Center

- Avenues
- 2. 1-2 civic buildings
- 3. Plaza each 1/8th mile
- 4. Affordable housing
- 5. 20,000 sq ft commercial buildings
- 6. Residential 11-16 du/a
- 7. Single family cottage/garden
- 8. Parking on street, and shared

Create Variety Along the Strip Single-Family Residential and Higher-Density, Open-Space Zone Mixed-Use Zone Lower-Density, Mixed-Use, and Open-Space Zone Node 2 Higher-Density, Mixed-Use Zone STARWOOD URBAN Single-Family Residential and **Open-Space Zone**

Develop Village Centers

- 1. Enterprise Zones are established
- 2. Land is set aside for town or hamlet centers
- 3. Land swaps are made for buffers between villages
- 4. Buffer areas are developed with public space and appropriate lighter density settlement

Development Pulsing

Higher-density, mixed-use development that is integrated horizontally

and vertically

Low- and mid-rise office, multifamily, and neighborhood retail development.

> Lower-density attached and single-family detached residential development.

Higher-density urban core that is integrated vertically and horizontally and contains a finer-grain street grid, pedestrian-oriented blocks, a critical mass of activity, and a sense of place.

Parks, recreational areas, and open space that provide amenities and serve as buffers. STARWOOD URBAN









Hillcrest Neighborhood, San Diego



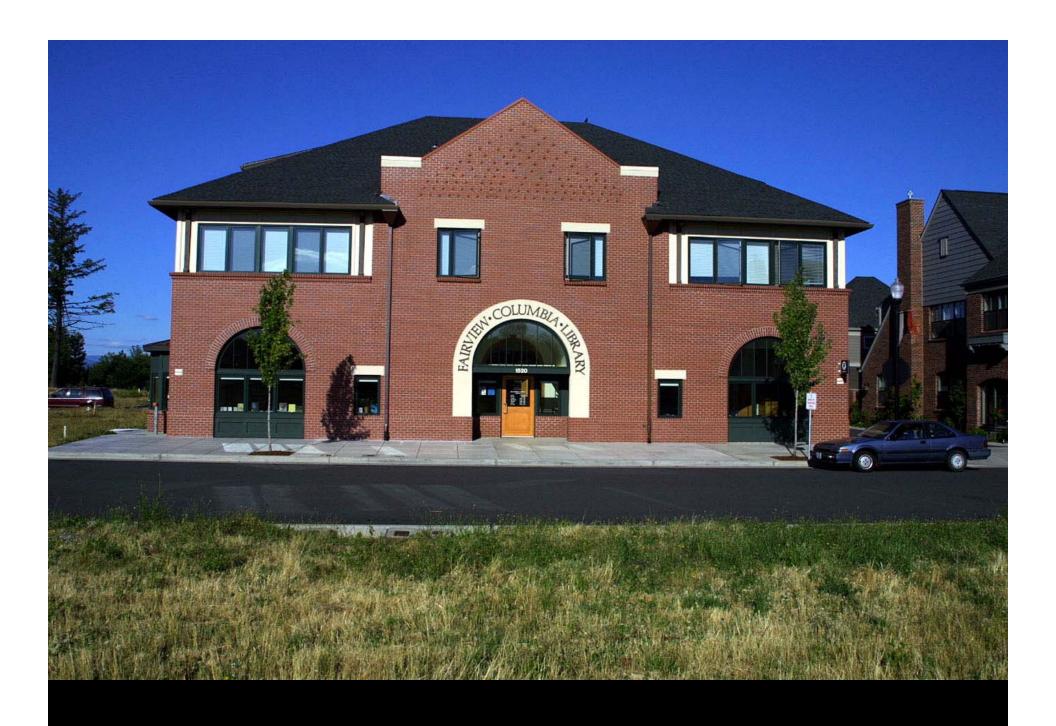


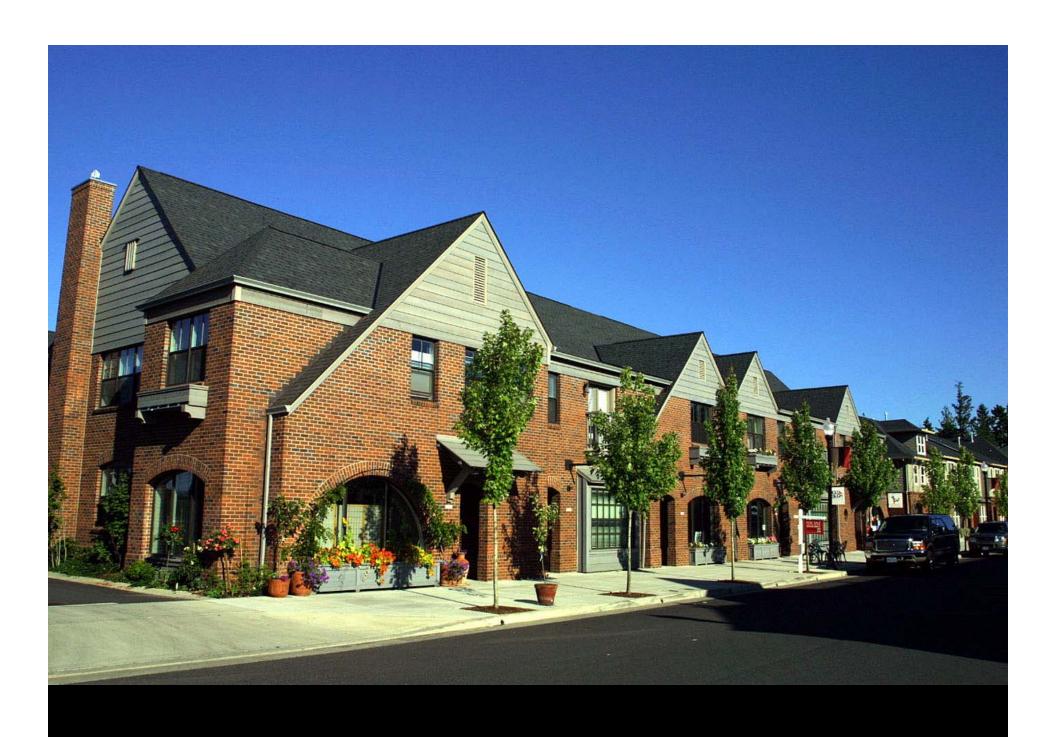
- VILLAGE RETAIL
- 2 FAIRVIEW POST OFFICE
- 3 VILLAGE OFFICE
- 4 LIBRARY/MARKET SQUARE
- 5 TOWNHOME APARTMENTS
- GOLD'S FITNESS CENTER
- 7 ROWHOUSES
- 8 LIVE-WORK BROWNSTONES
- 9 VILLAGE DUPLEXES
- 10 TOWNHOMES
- VILLAGE CHURCH
- 12 WOODLAND ELEMENTARY
- **B** SINGLE FAMILY HOMES
- MEDICAL/OFFICE BUILDING
- IS LA PETITE ACADEMY
- 6 FAIRVIEW CITY HALL
- * SALES OFFICE

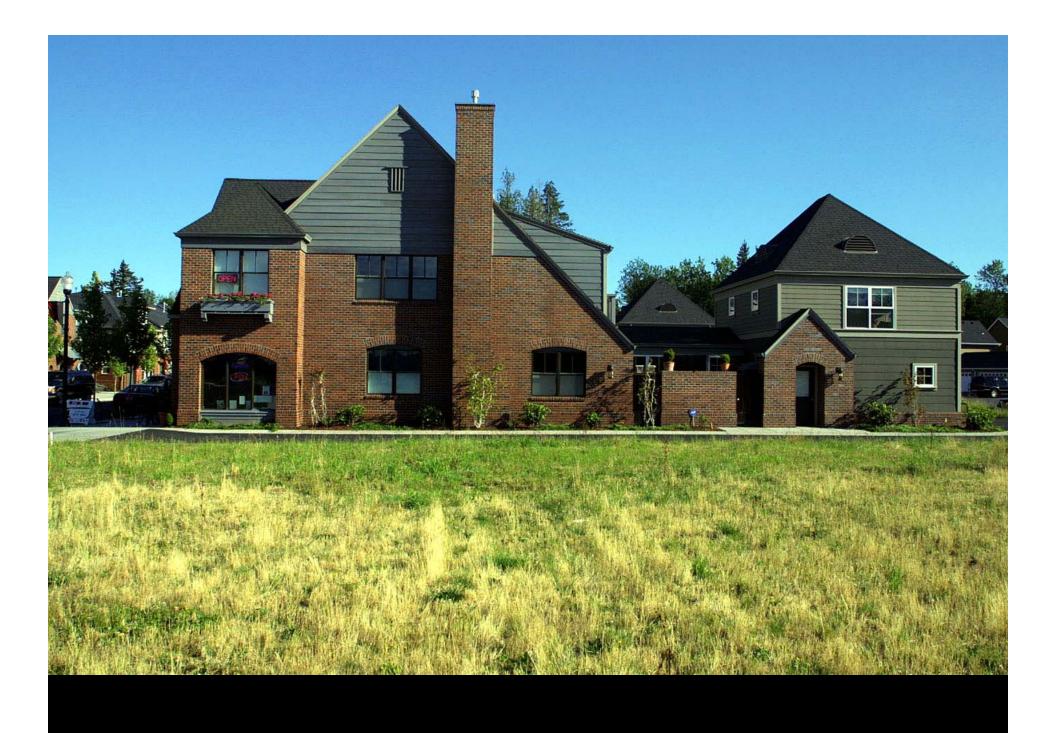


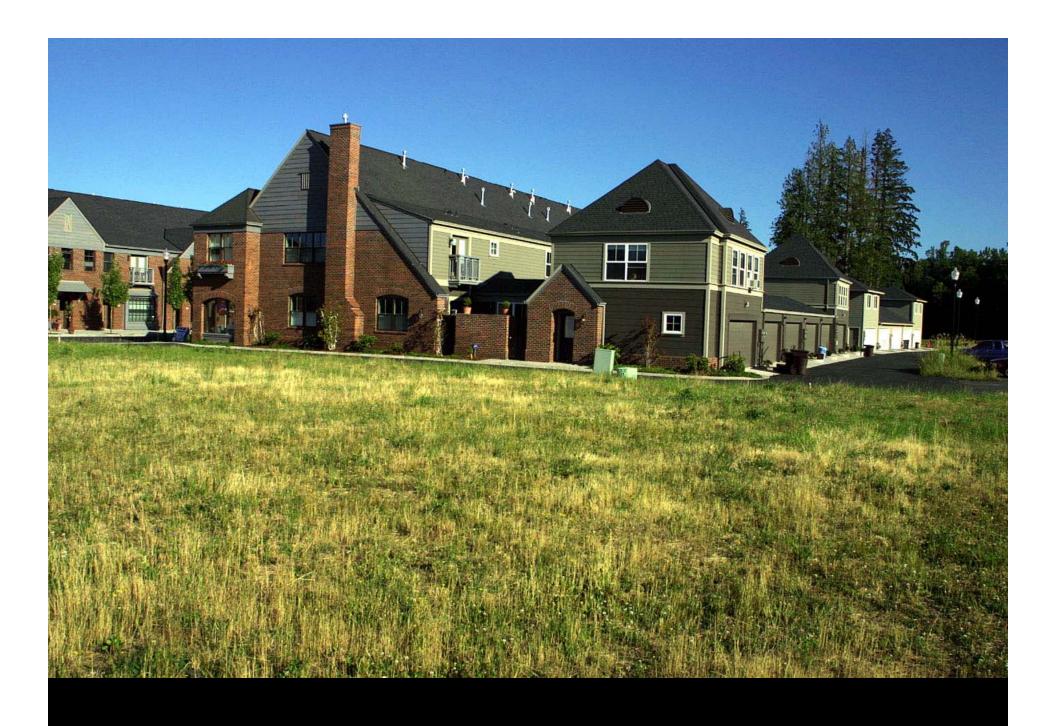


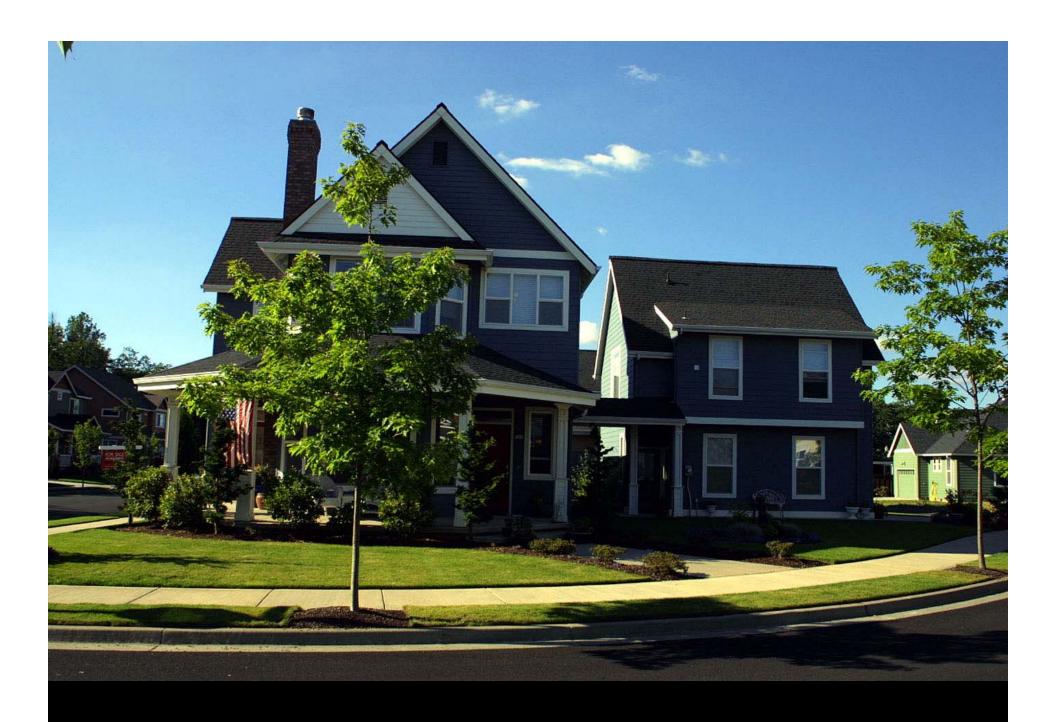


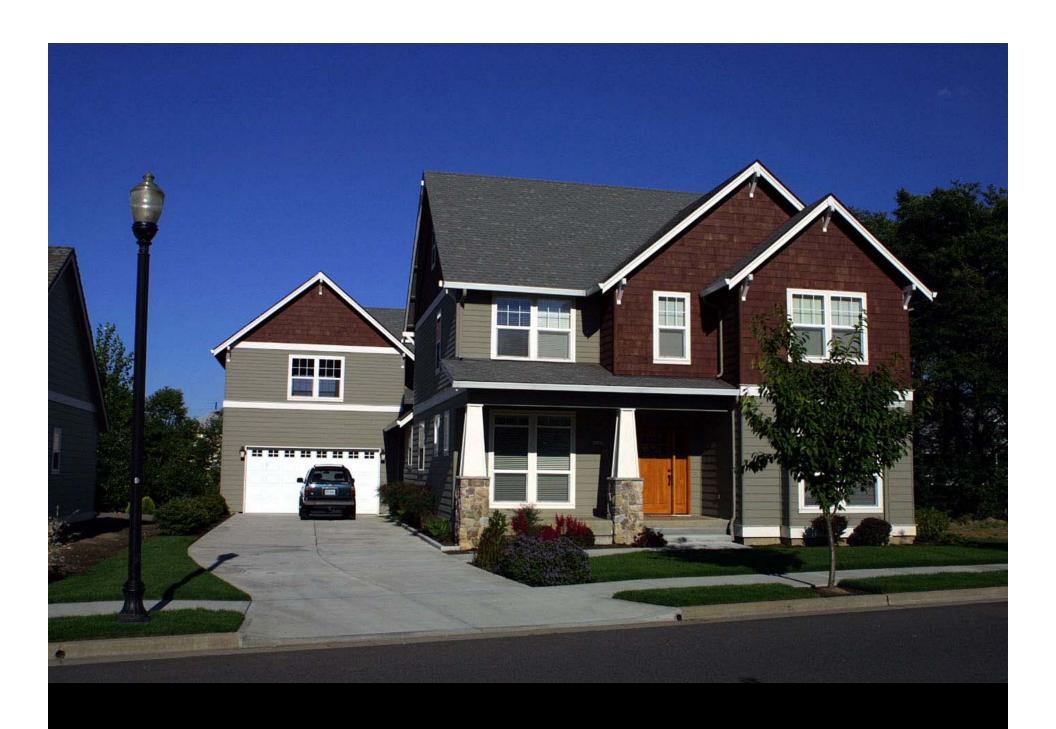


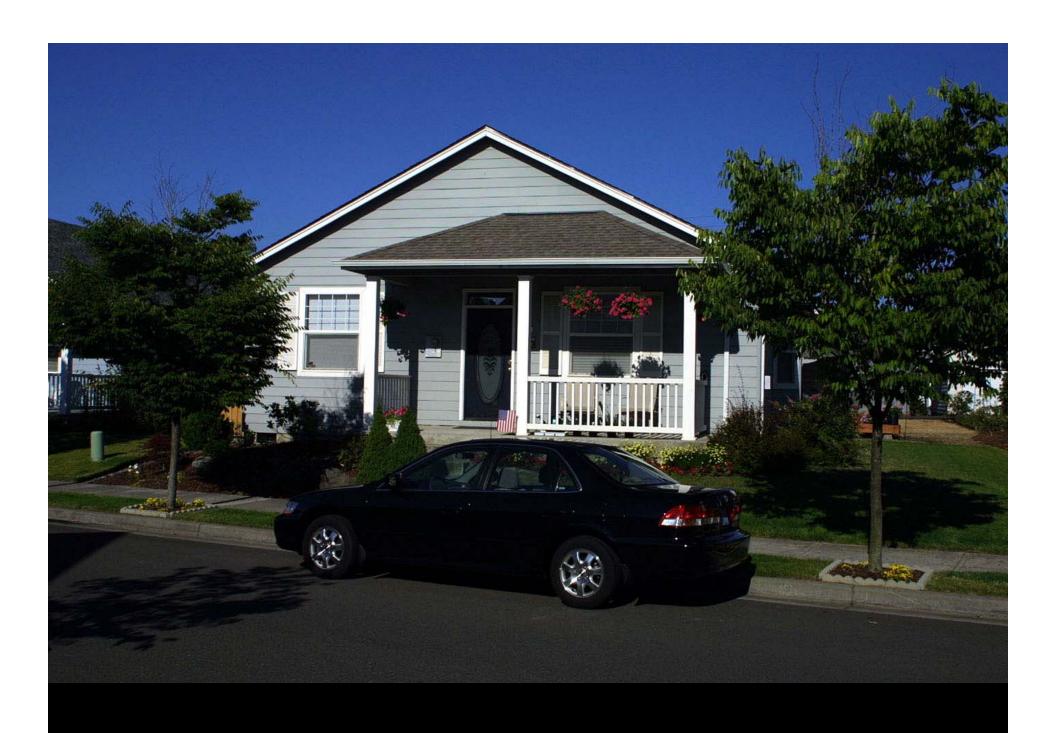


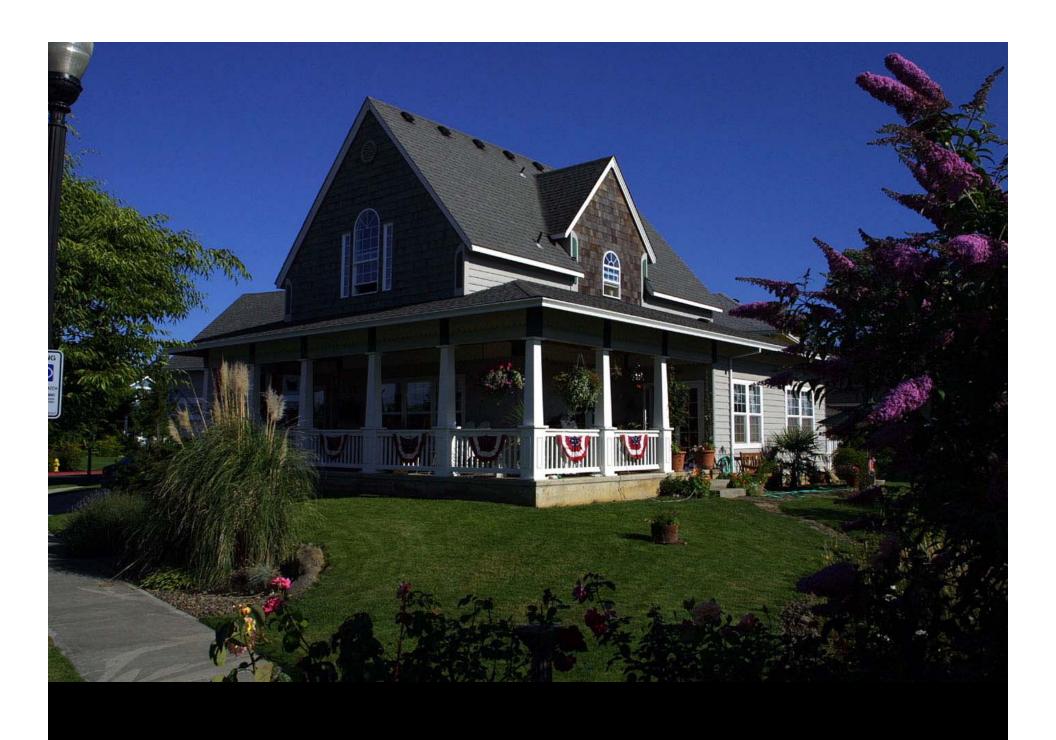






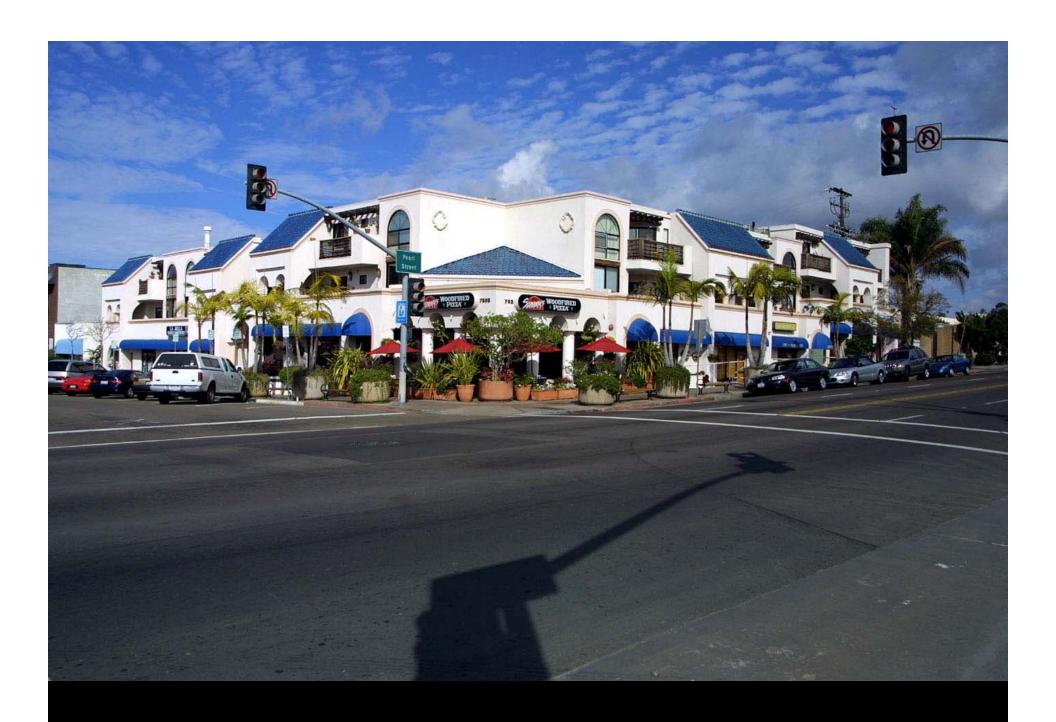


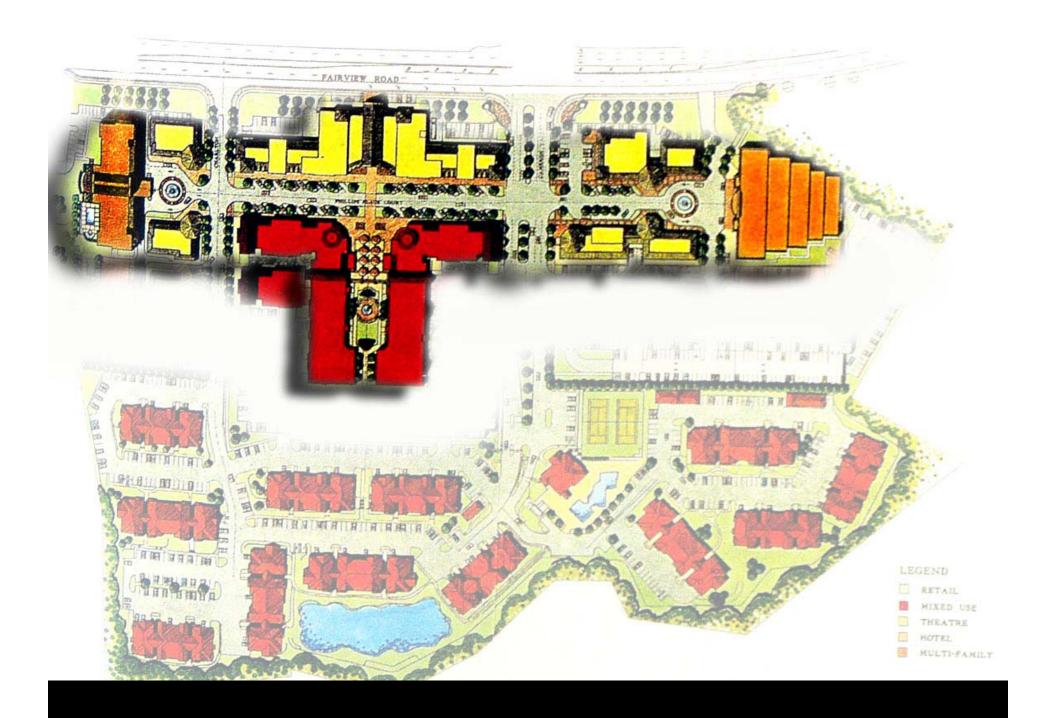




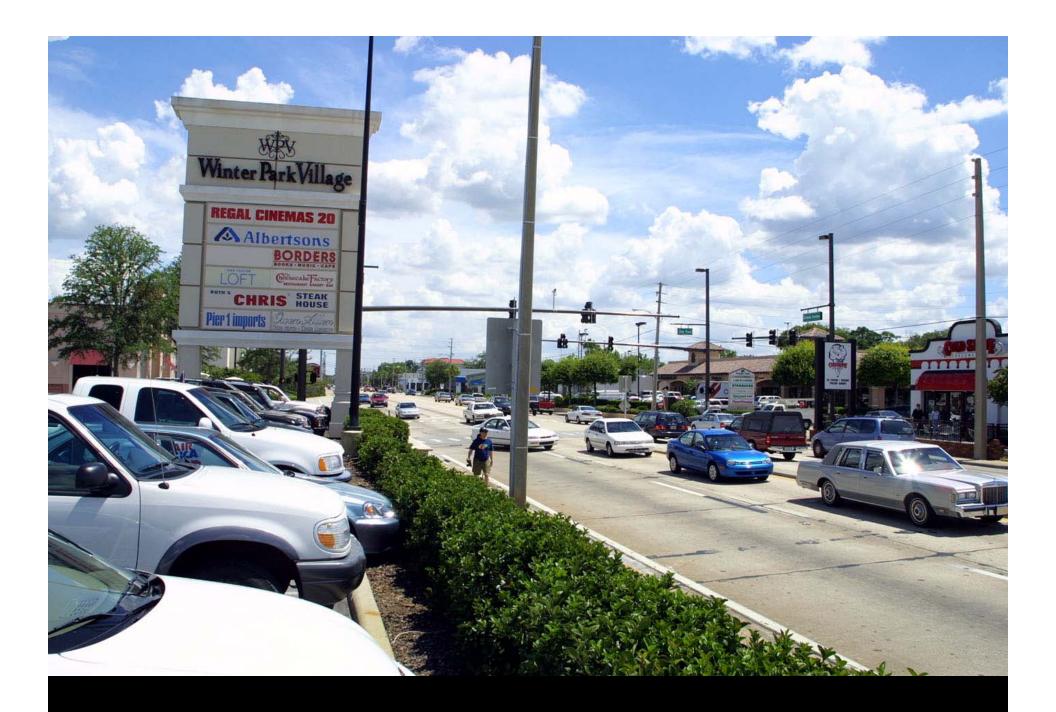










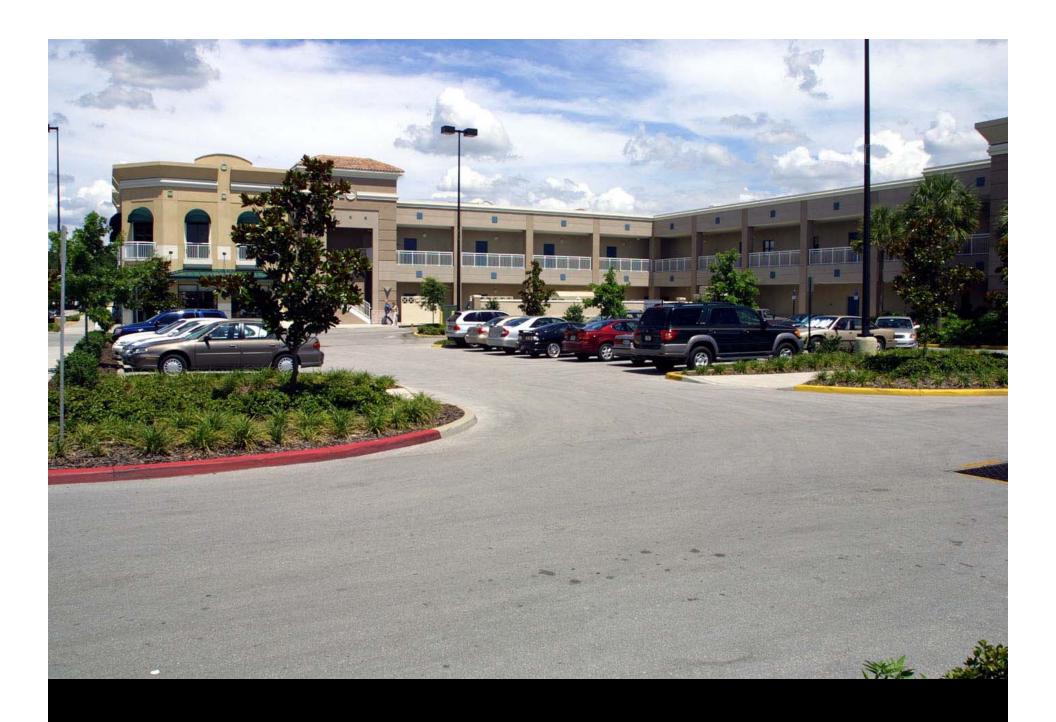






Winter Park Village, Winter Park, Florida















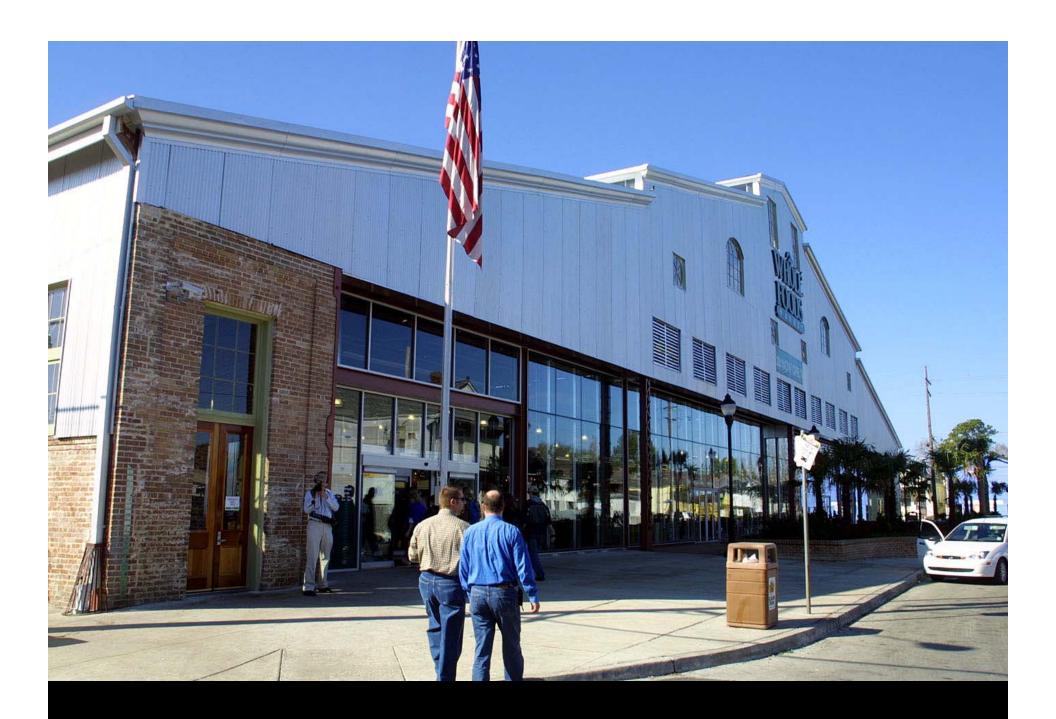


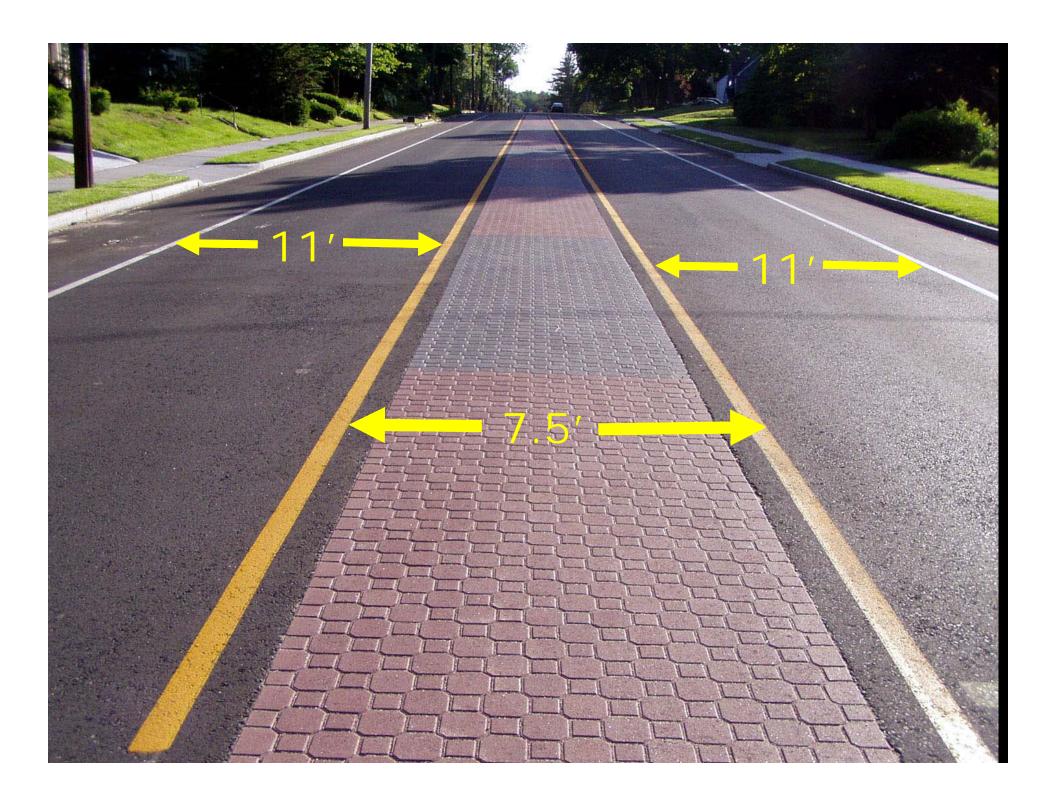




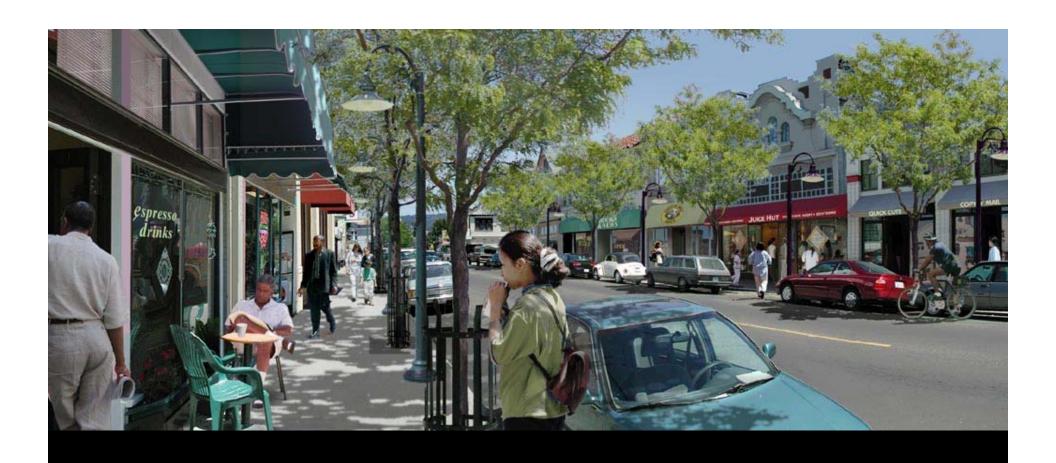










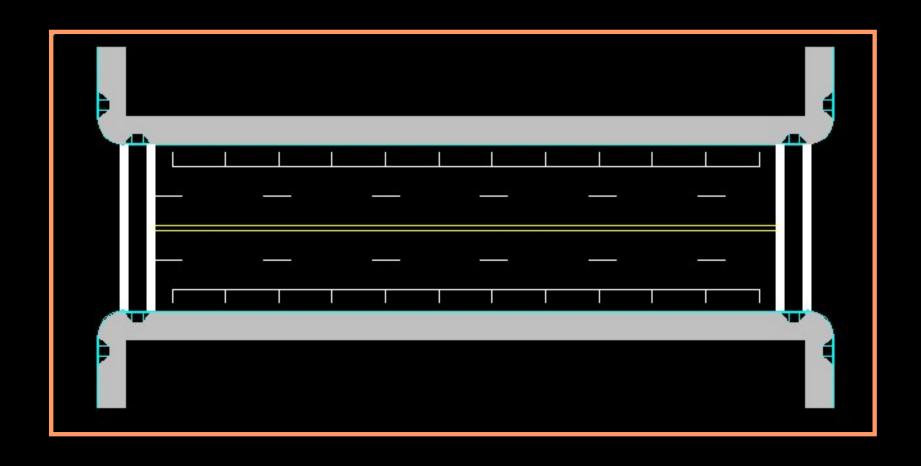




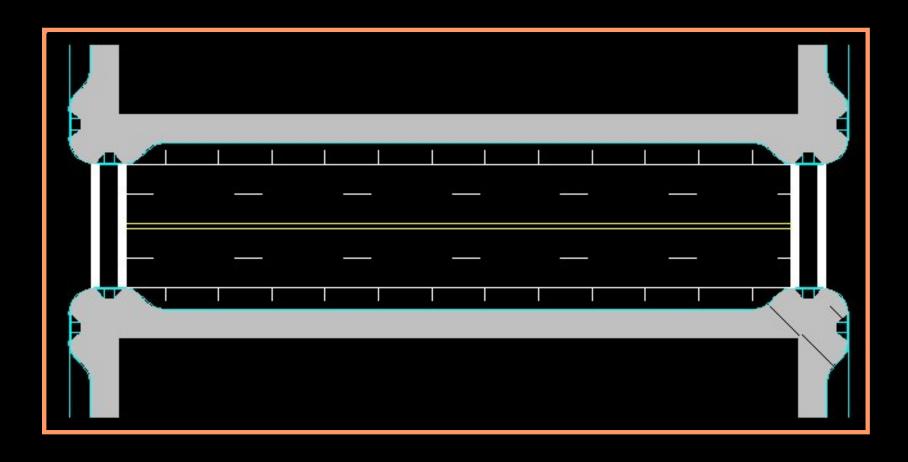




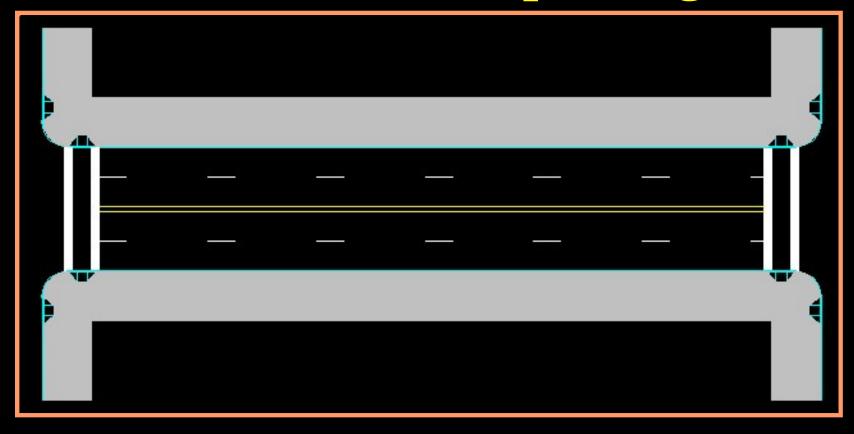
Consider curb extensions the norm...



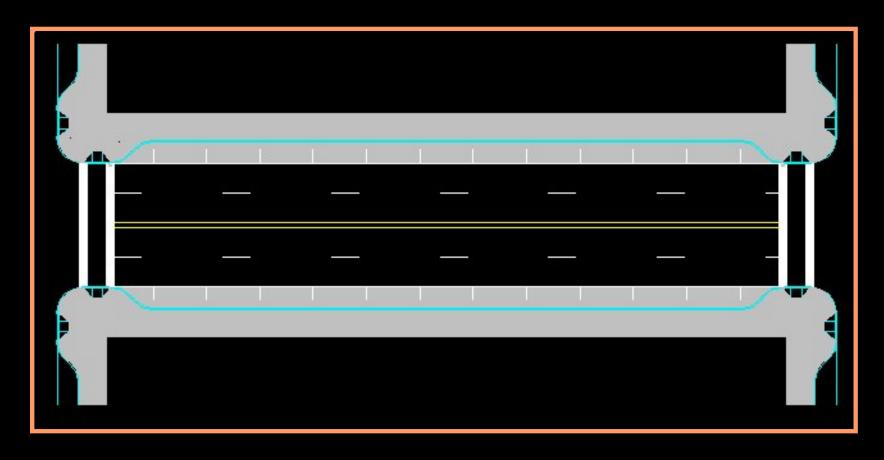
... not something you add to a street



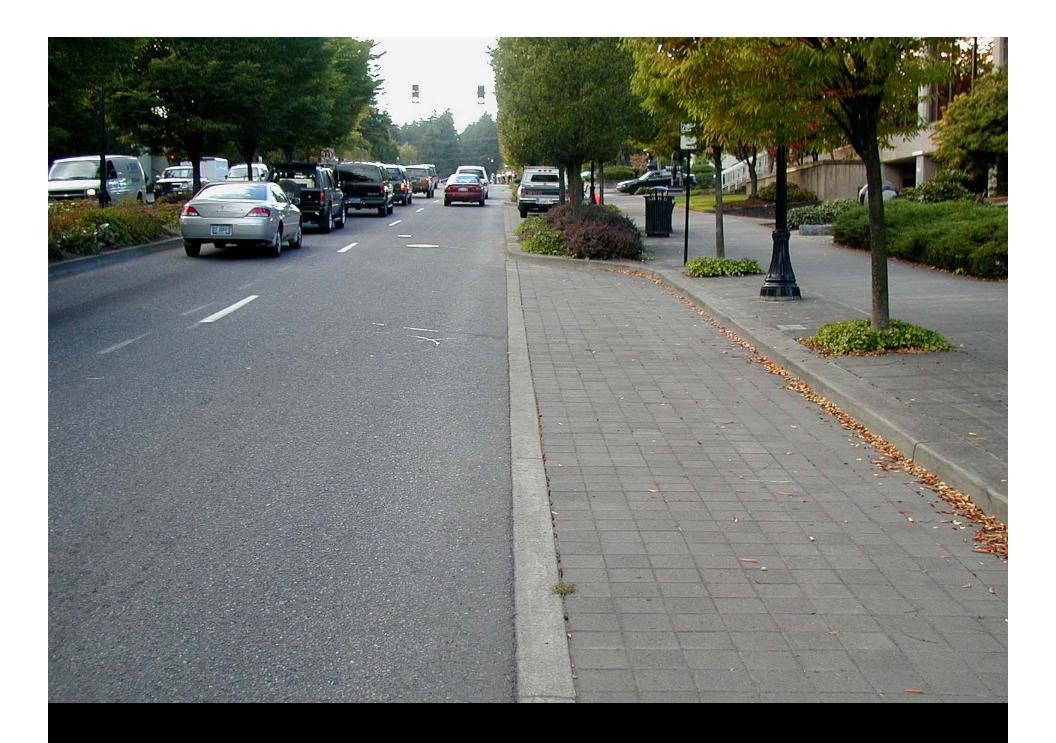
What would the street look like without on-street parking?

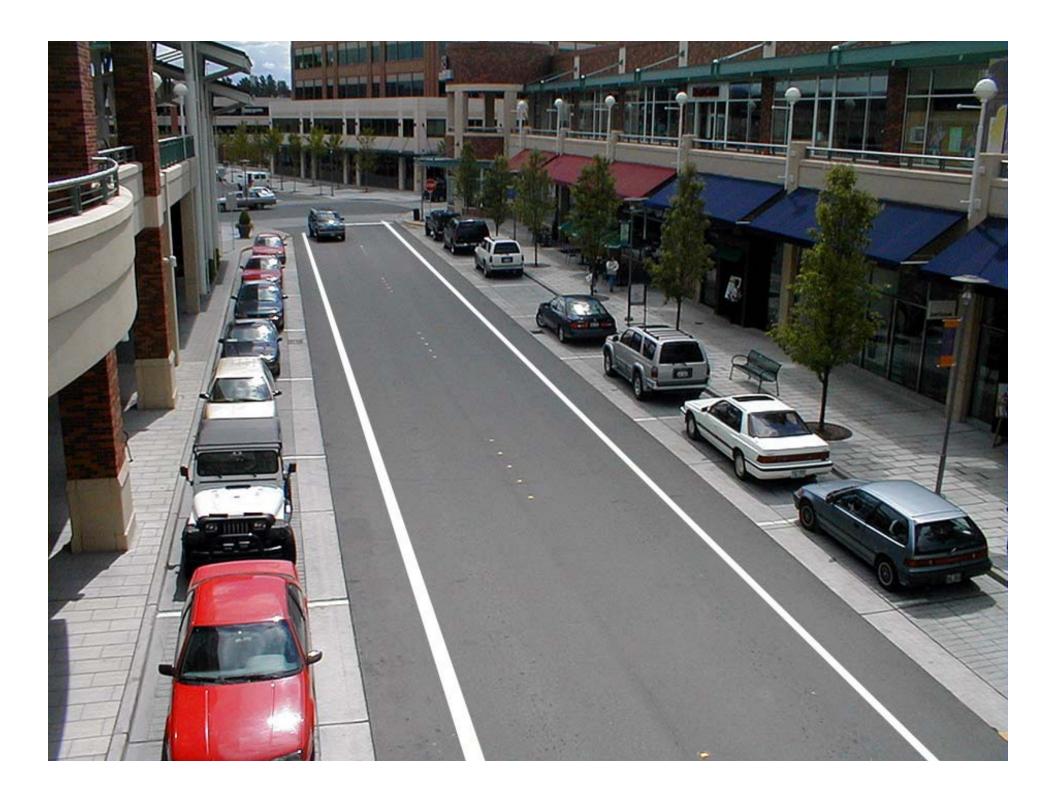


Now think of parking as the bonus!



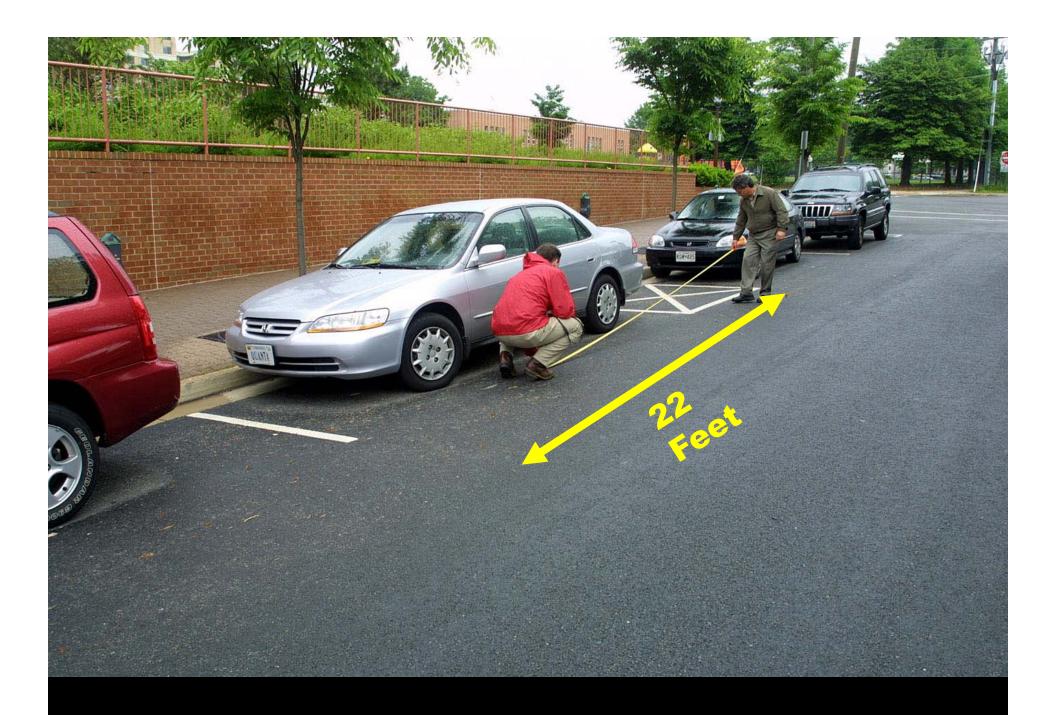
Tada! Look like curb extensions...







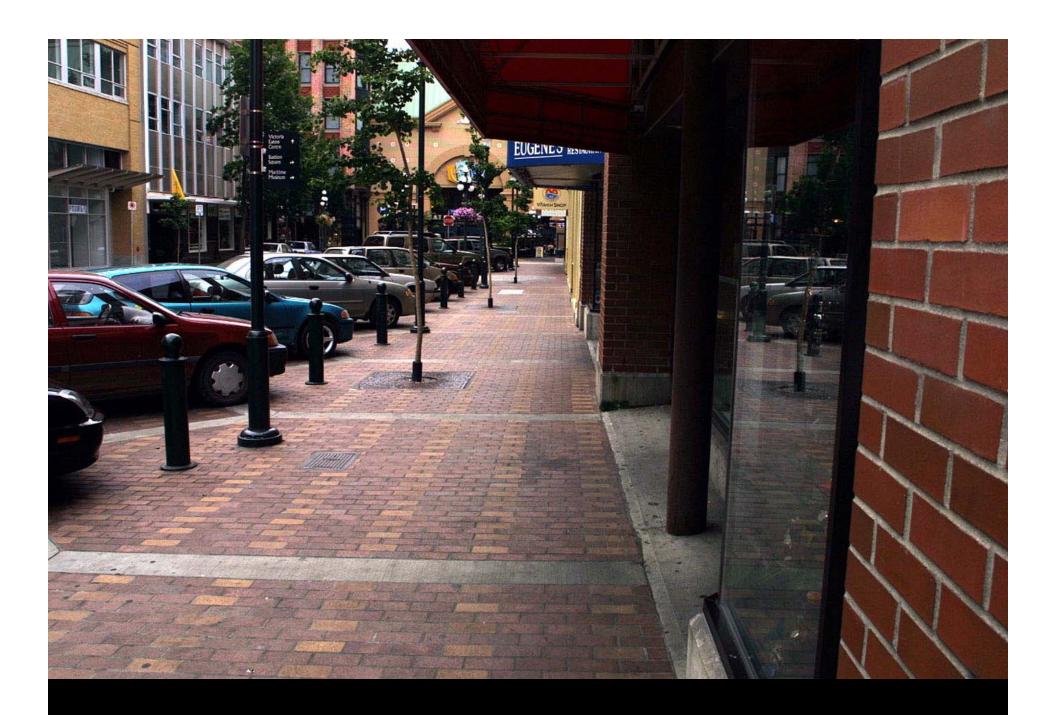
Abacoa Downtown







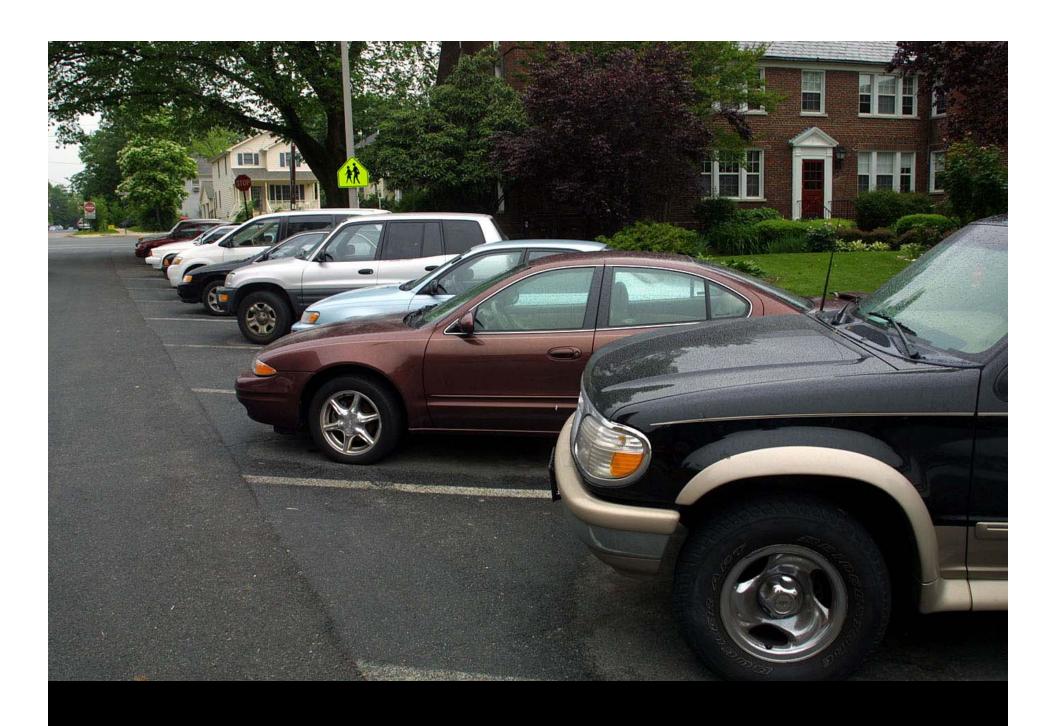
Victoria, British Columbia





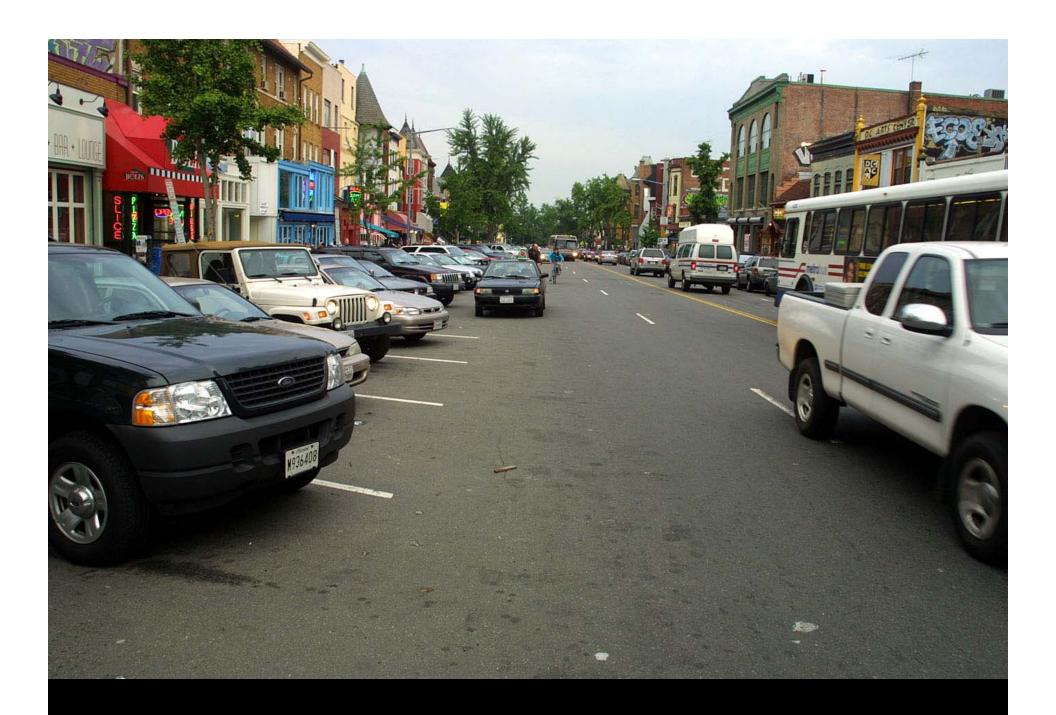
San Francisco, California



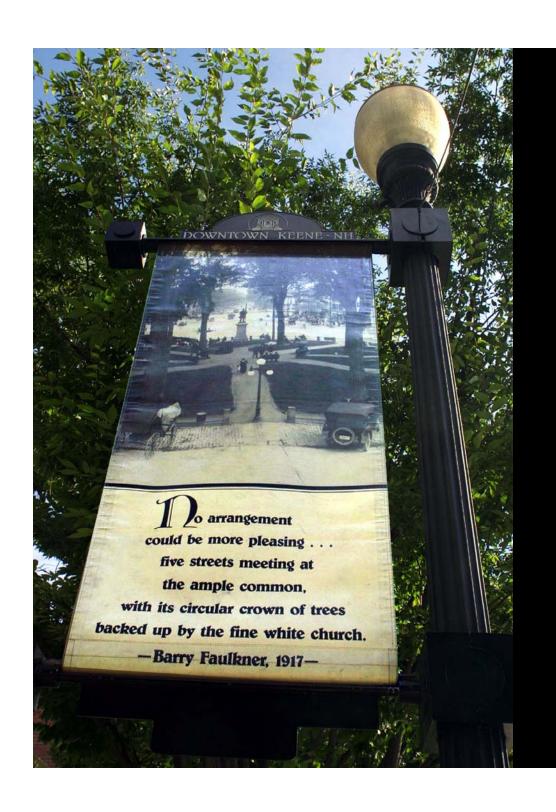






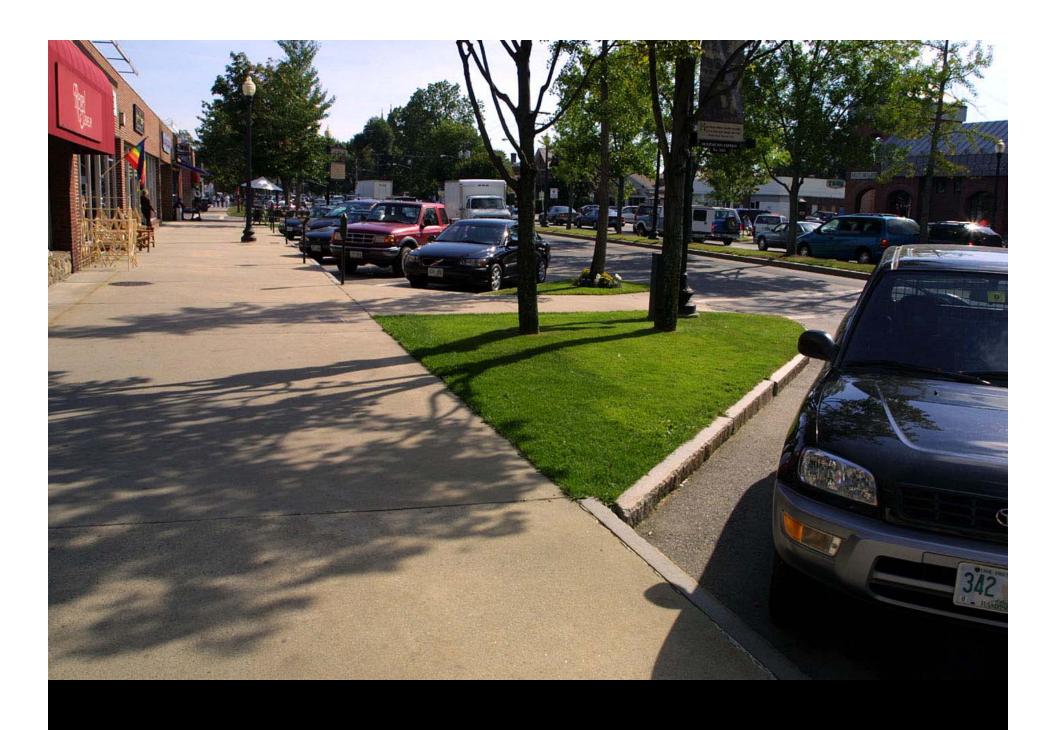






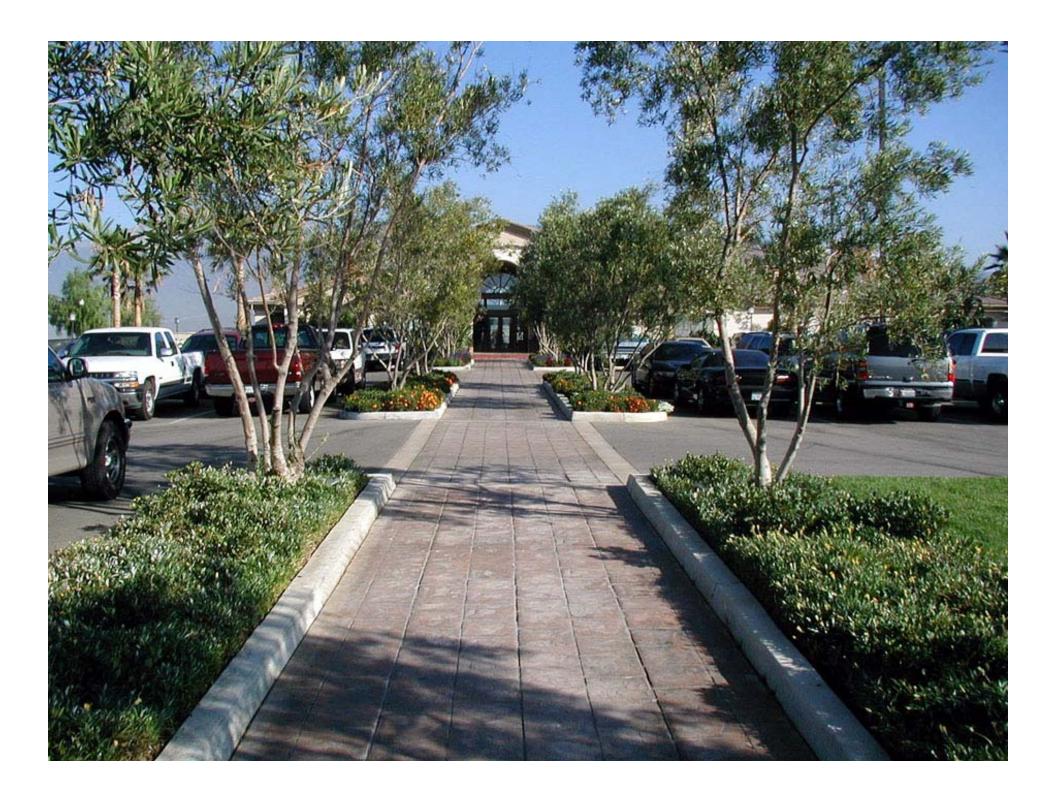
Keene, New Hampshire











Road Diets



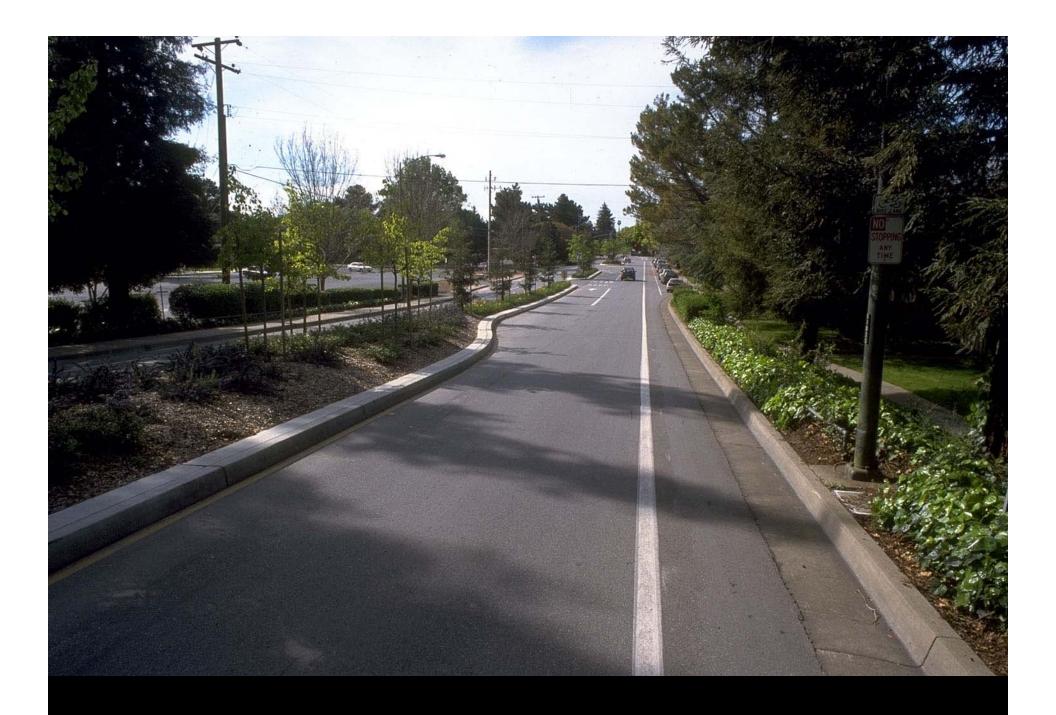
1800 vehicles per hour per lane

800 vehicles per hour Per lane















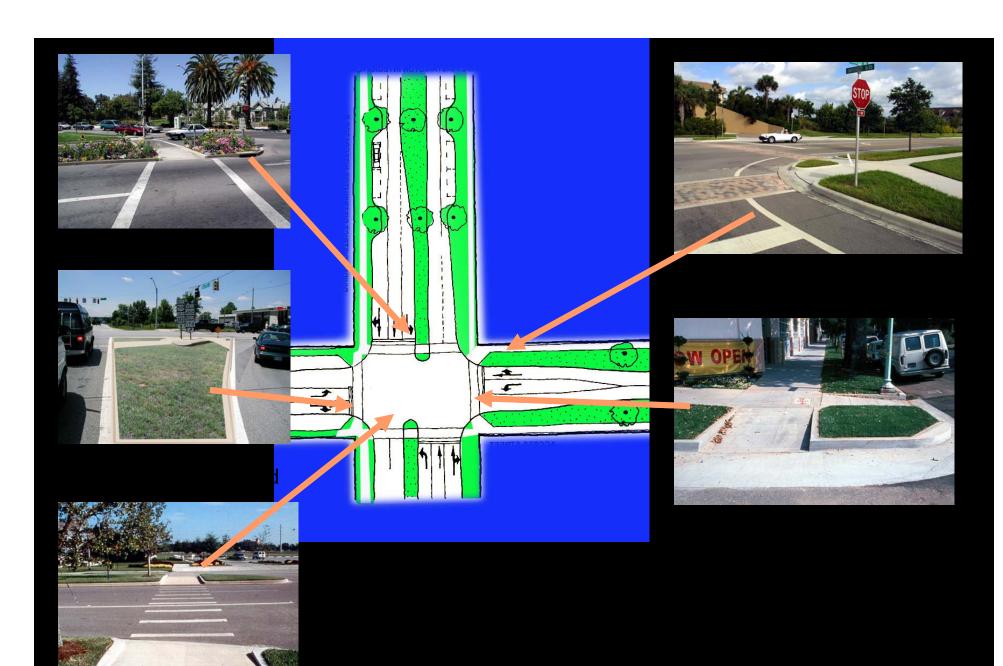
ntersections

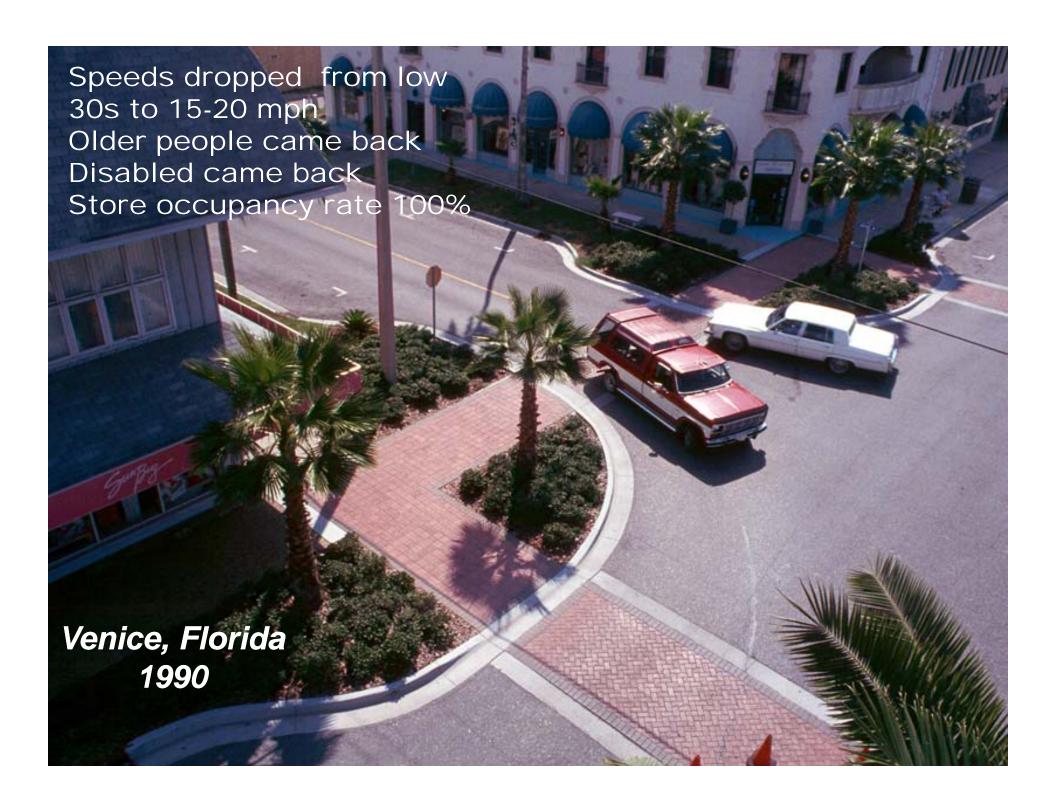


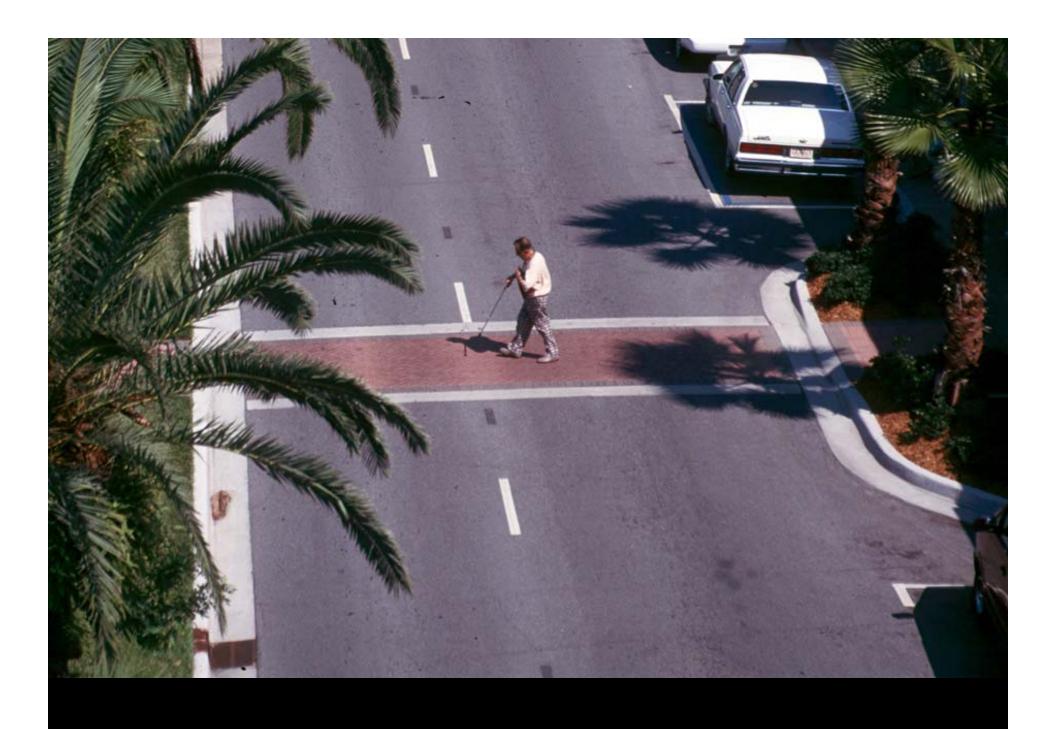


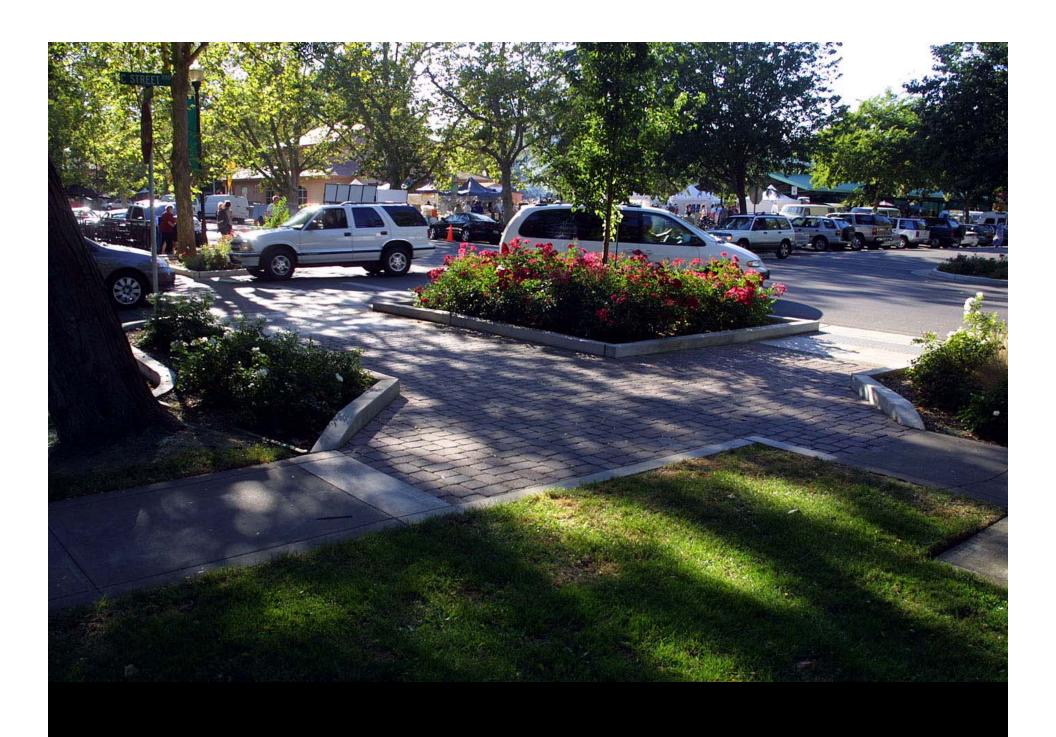
Mountain View, California

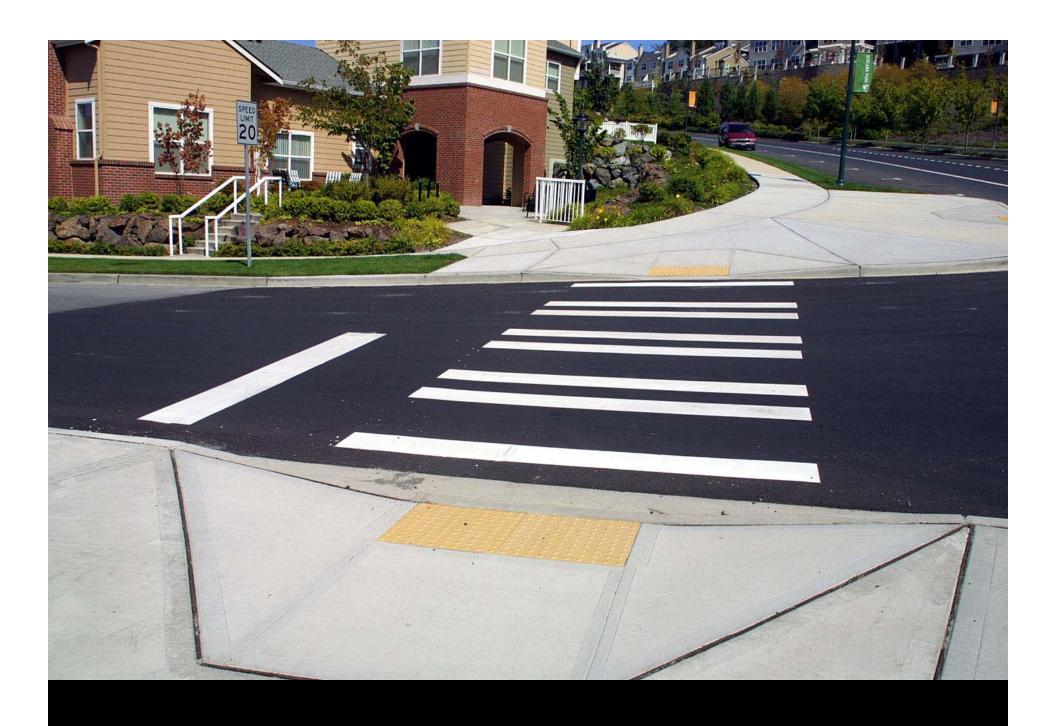






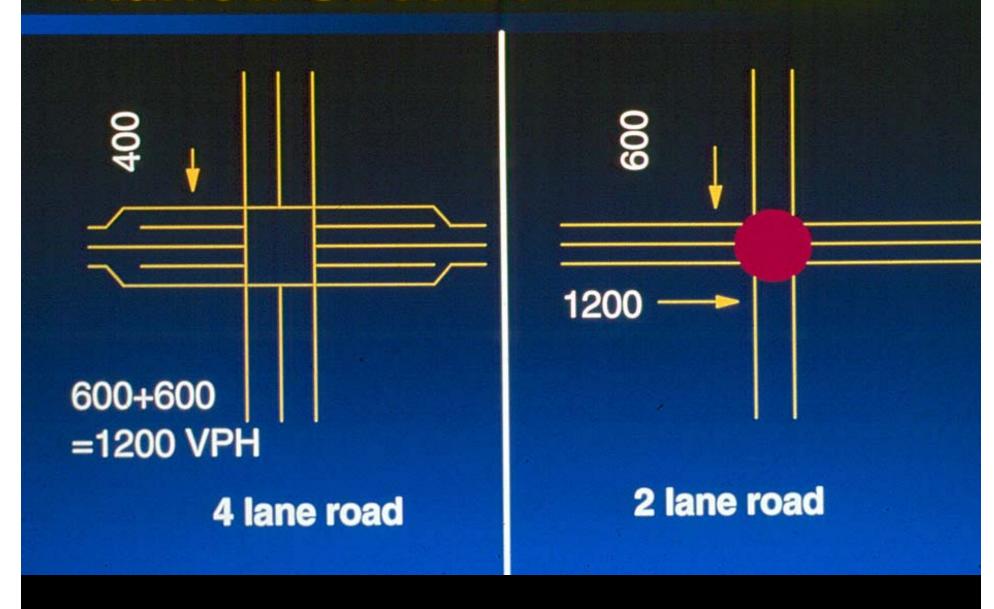


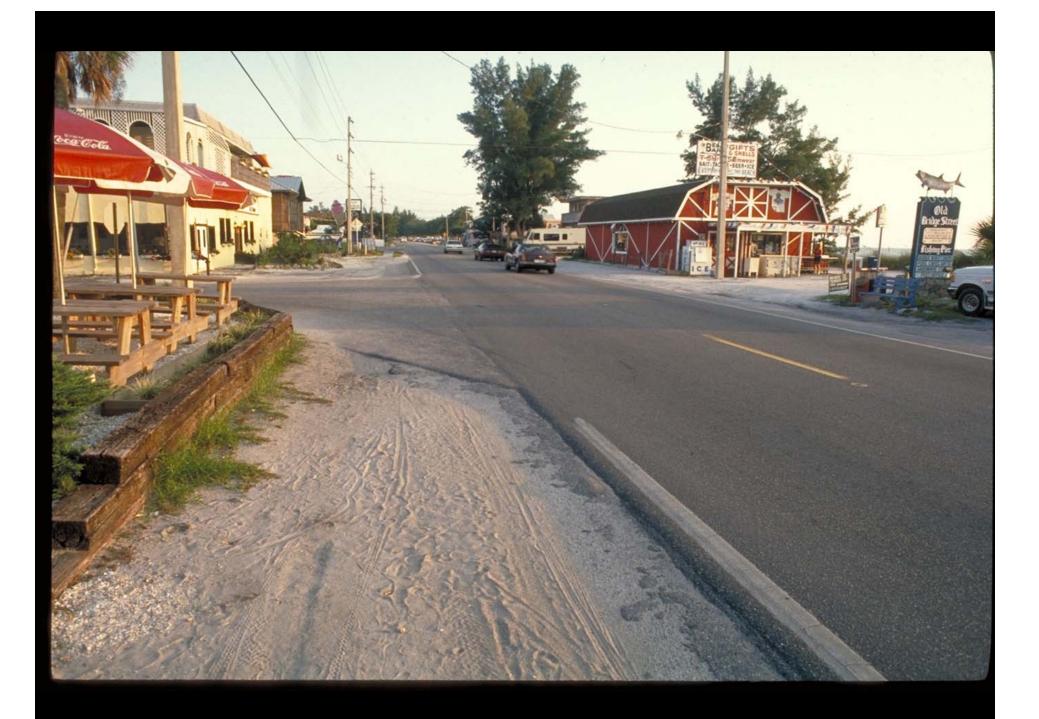




Roundanouts

Narrow Streets / Wide Nodes





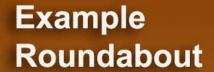


Cotati, California: Old Redwood Highway looking north



Gridley, California: State Highway 99 looking north





Benefits:

Injuries redued 90% 30% more traffic capacity

Gateway entry

Pedestrian friendly

Speeds controlled

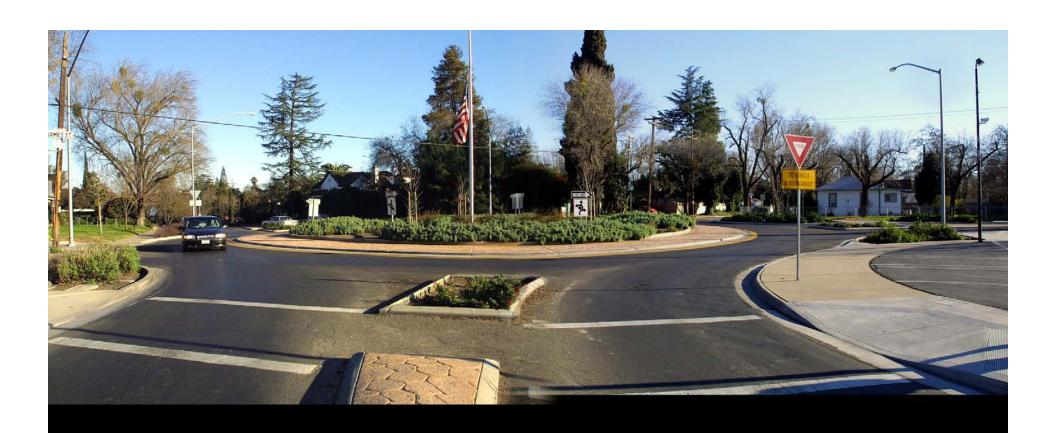
Reduced noise

Reduced pollution

Reduced maintenance

Business friendly



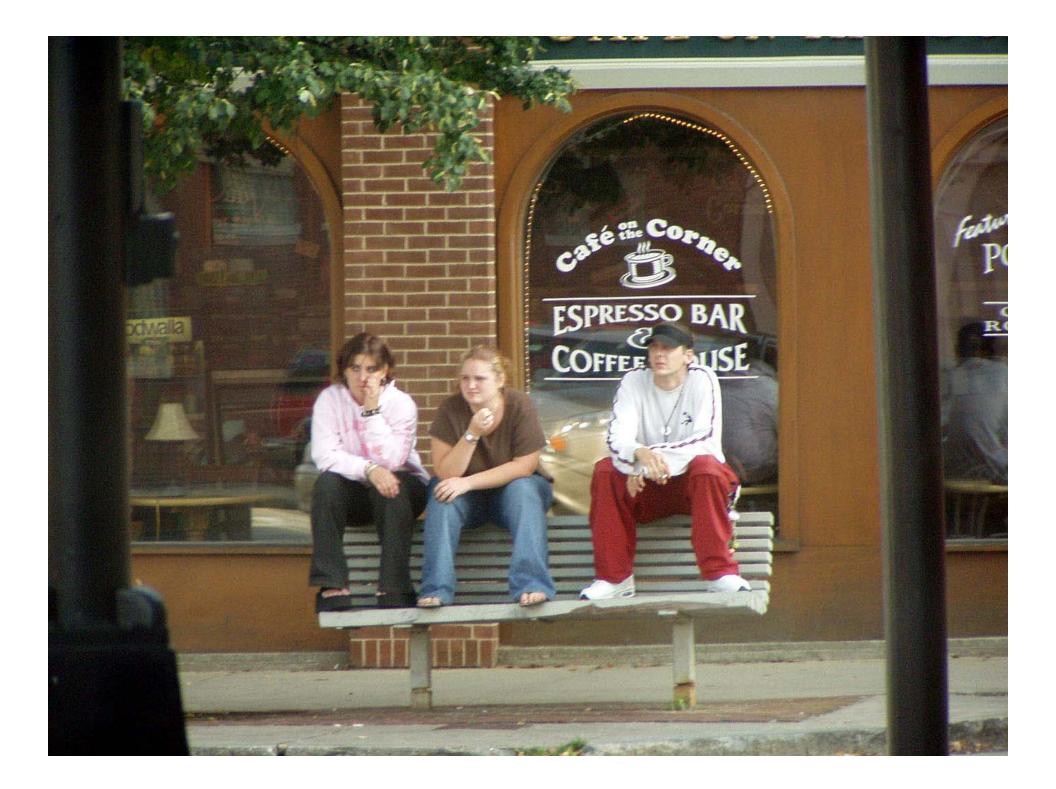


Modesto Roundabout LaLoma and "G" Streets 20,000 vehicles per day





Roundabouts work in Snow Country







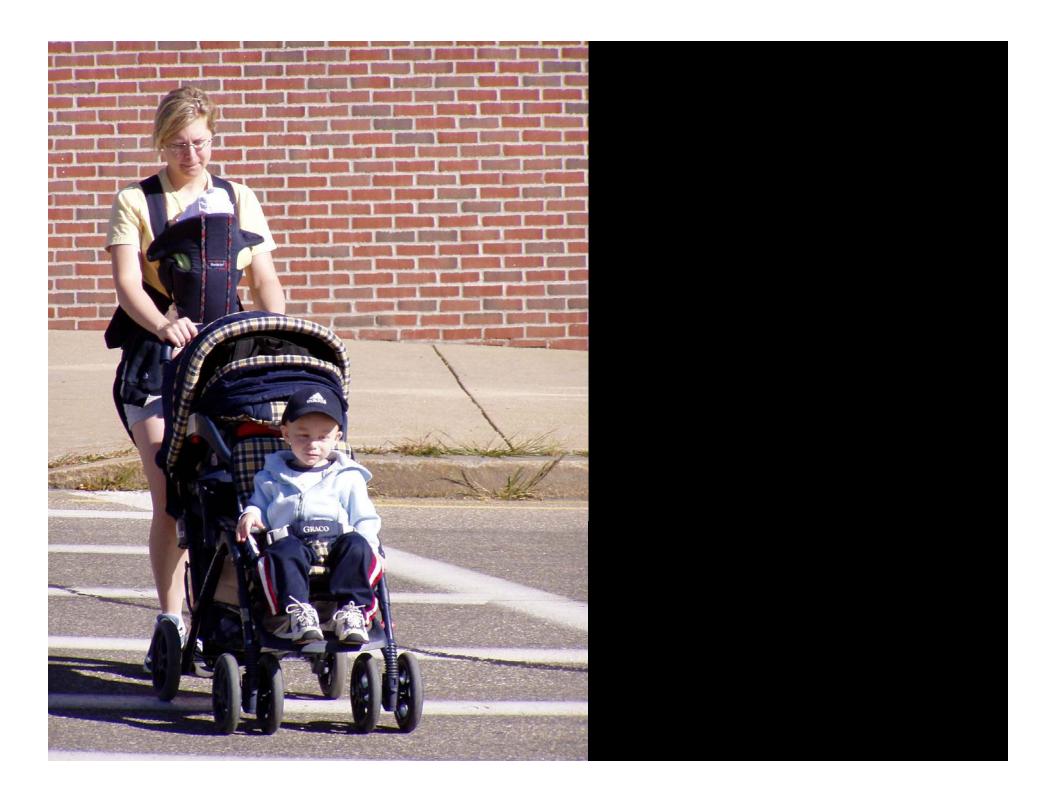


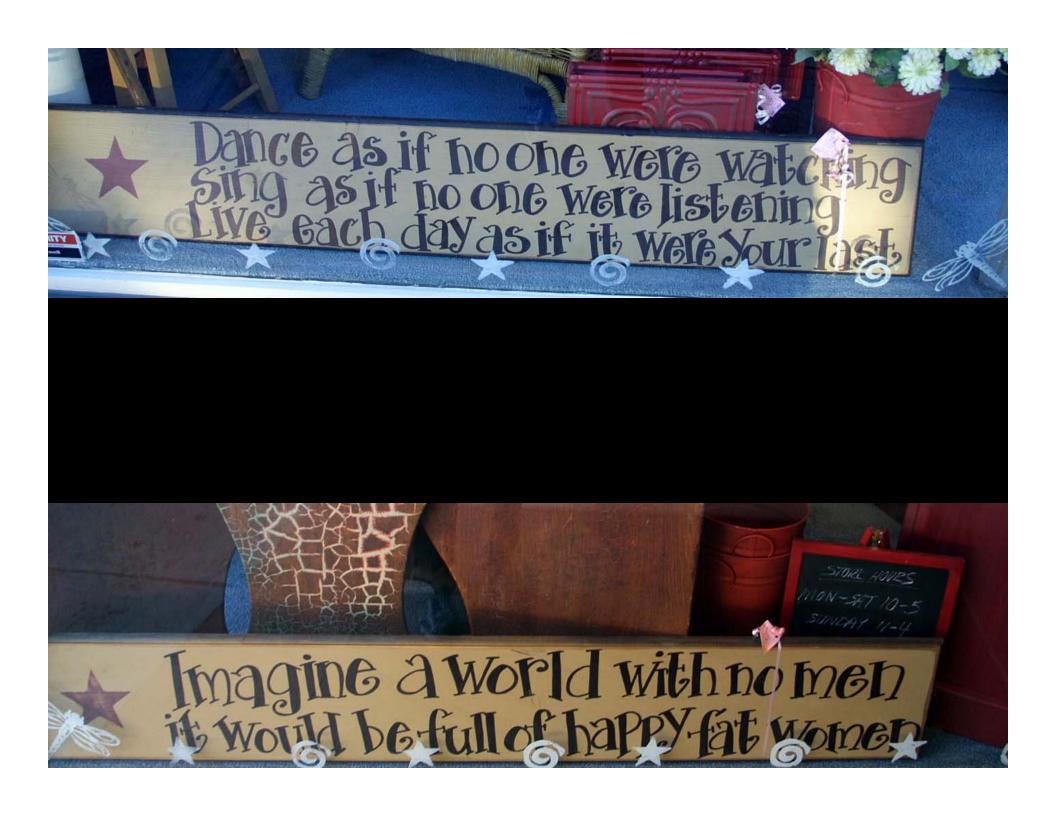










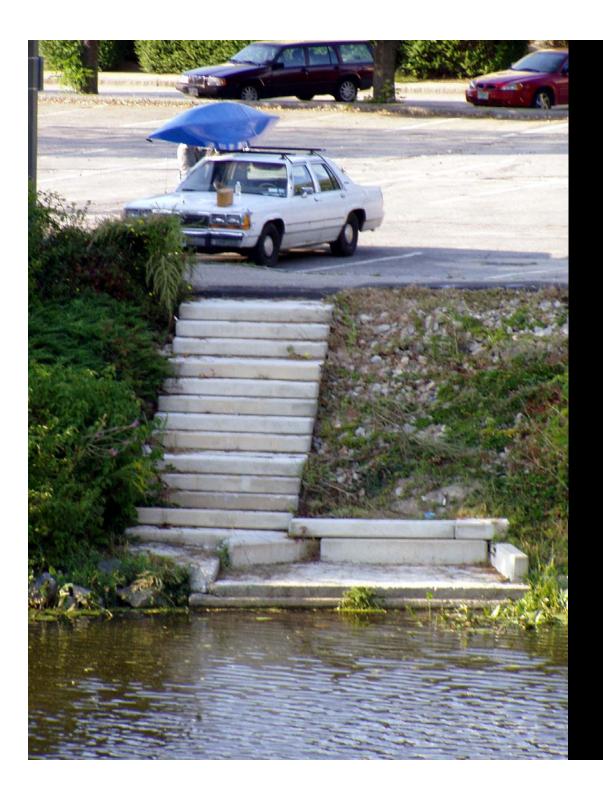












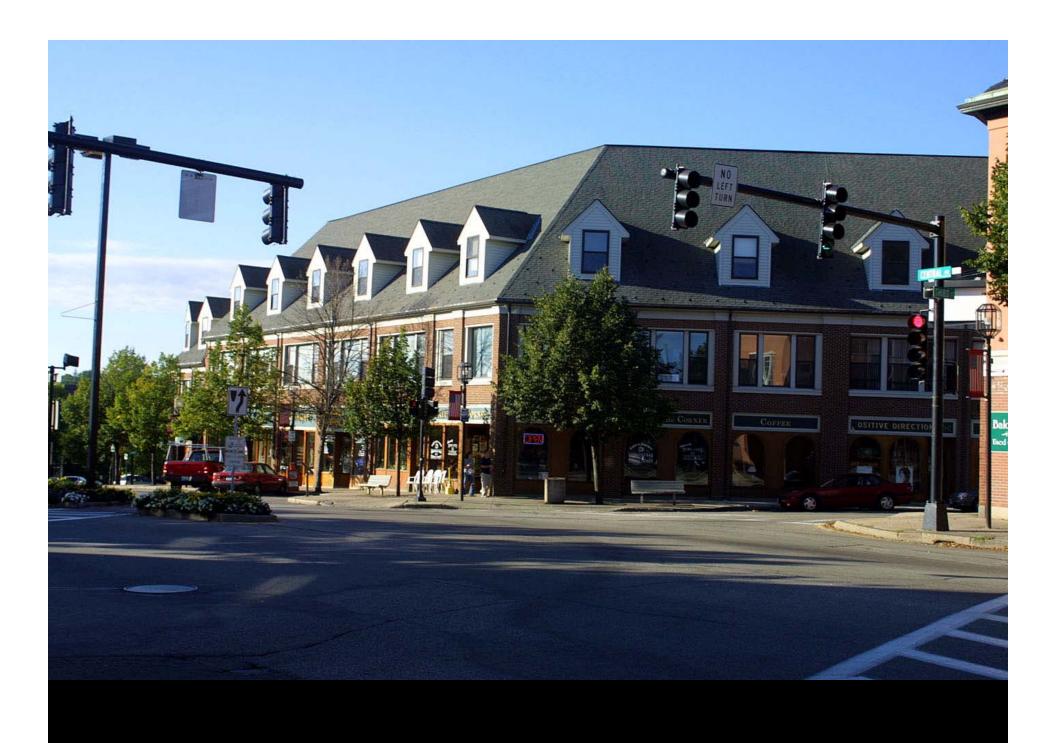








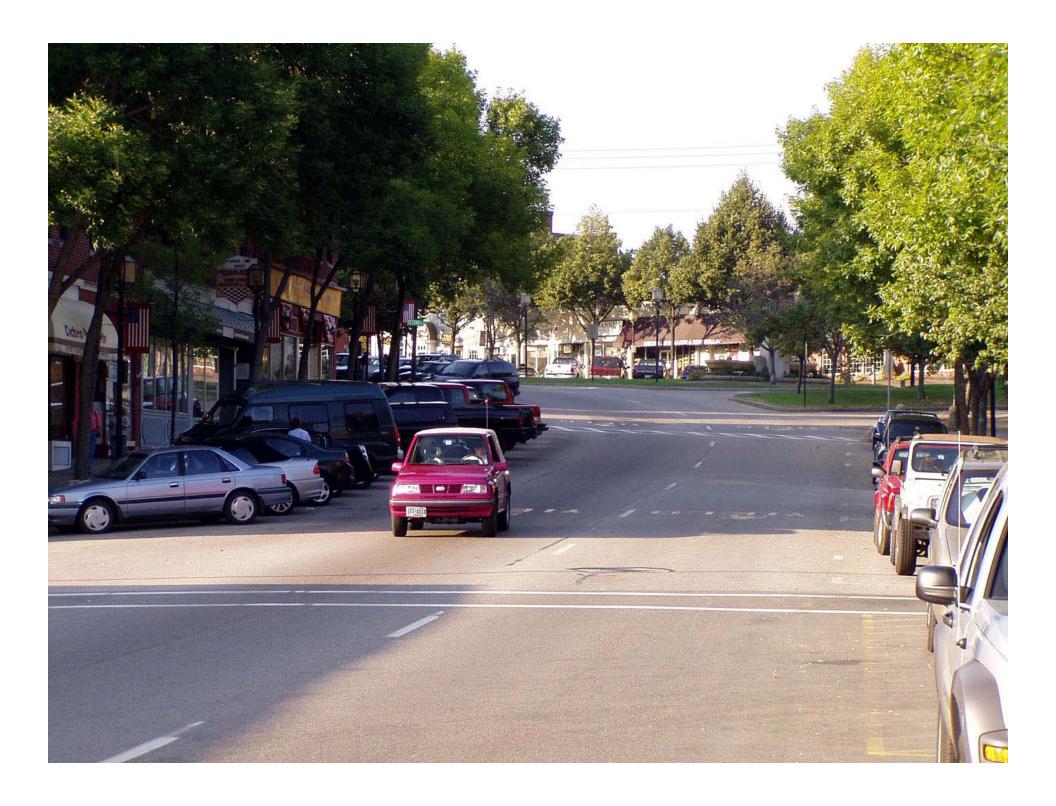


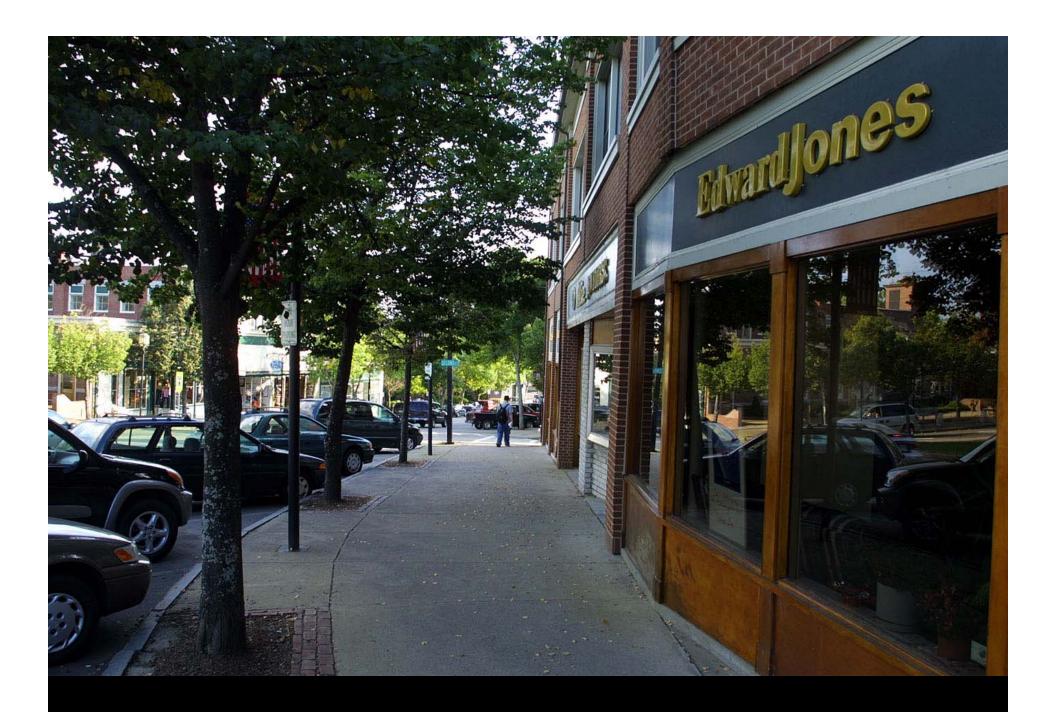


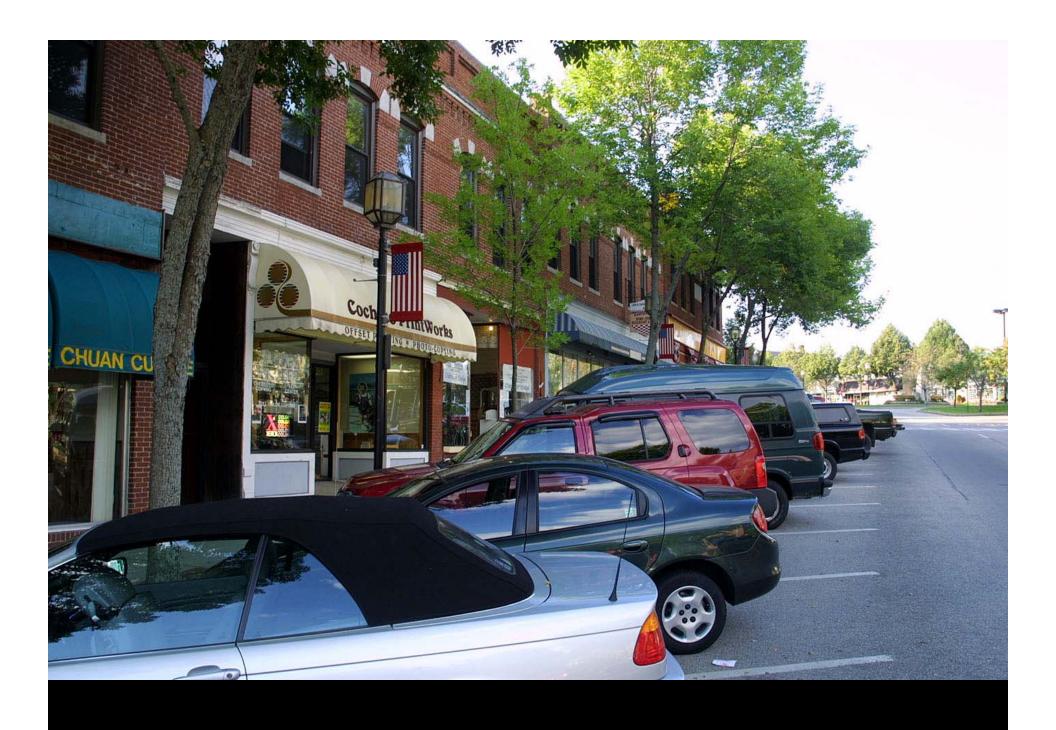




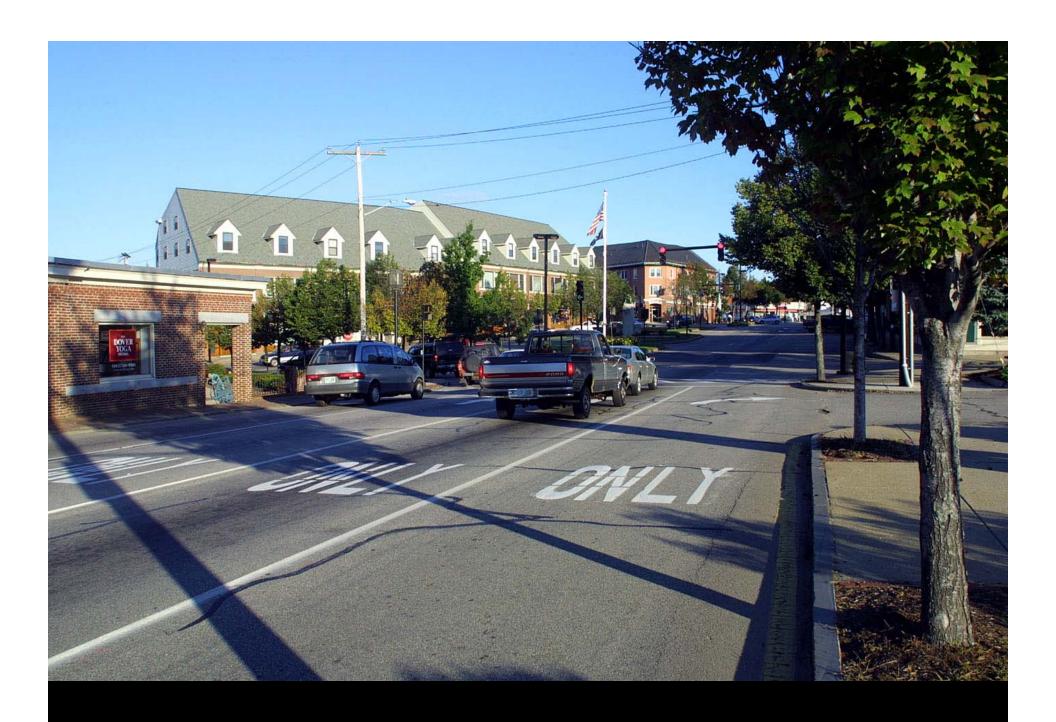








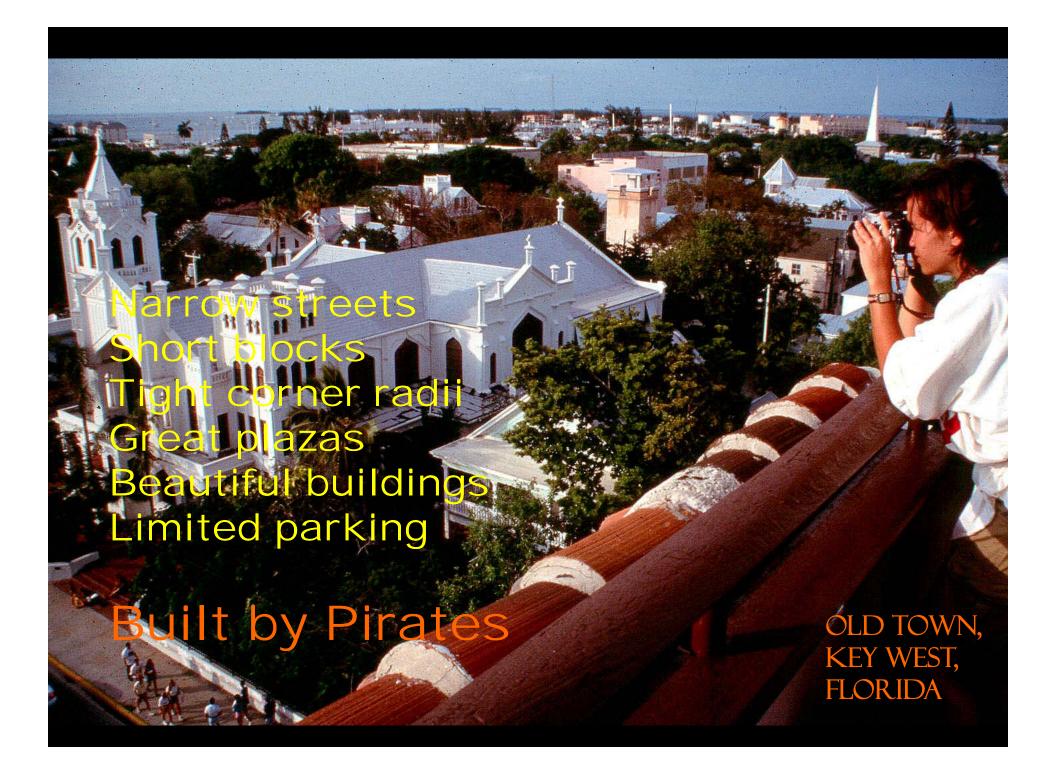


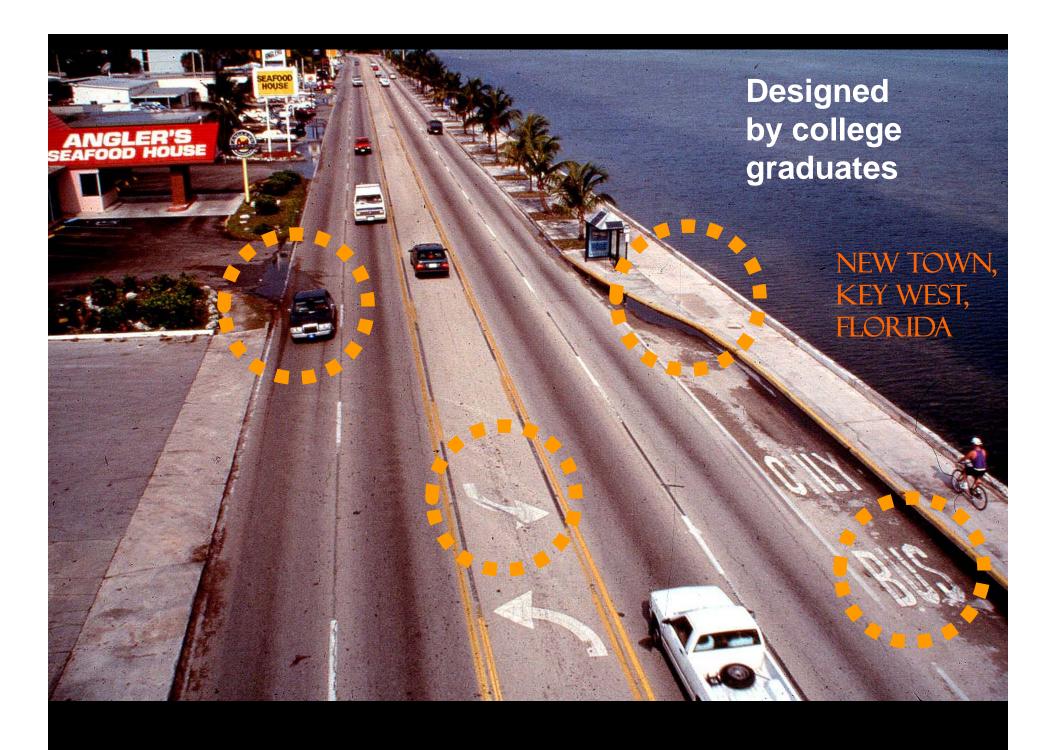




Overcoming Fear of Change









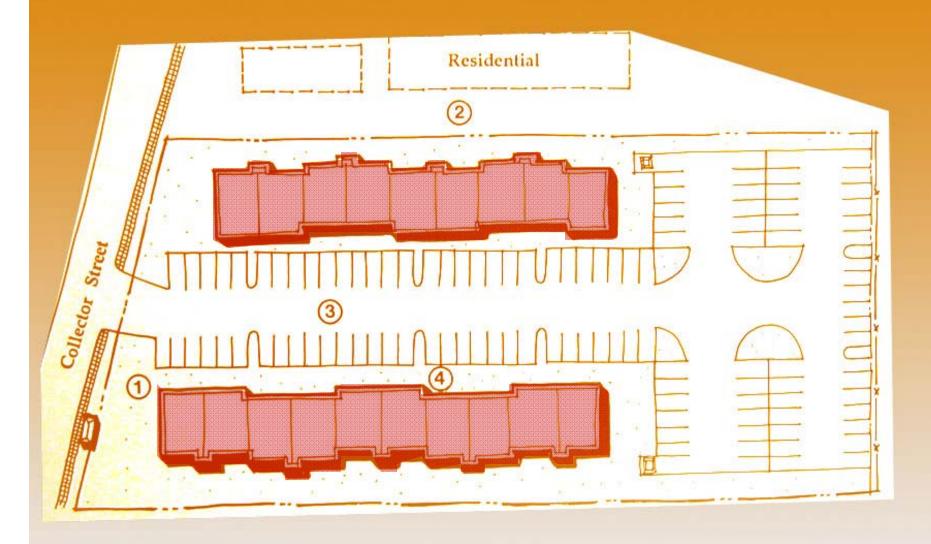
Division Avenue and Wealthy Street



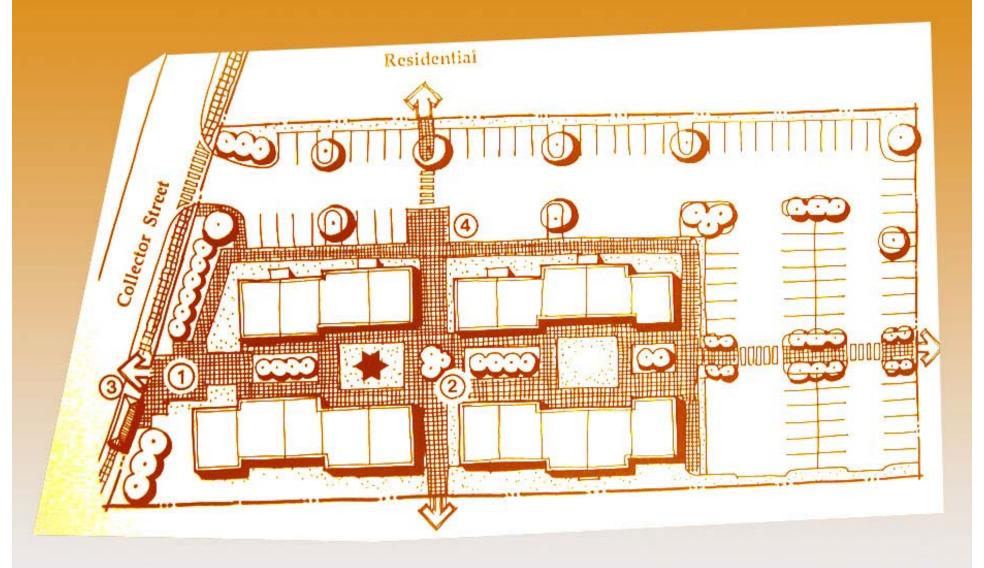




Small Apartment - Typical



Small Apartment Complex Transit Compatible









The Birdhouses

