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Great Plains Energy Codes Conference

October 18, 2012



City of Omaha Master Plan Environmental Element

Launched by the City and Omaha by Design in November 2008 and adopted by City Council in December 2010

Public/private policy initiative creating a comprehensive environmental section for City of Omaha Master Plan

Positions Omaha as environmental leader in the metropolitan area



environment
omaha

www.environmentomaha.com



Environment Omaha

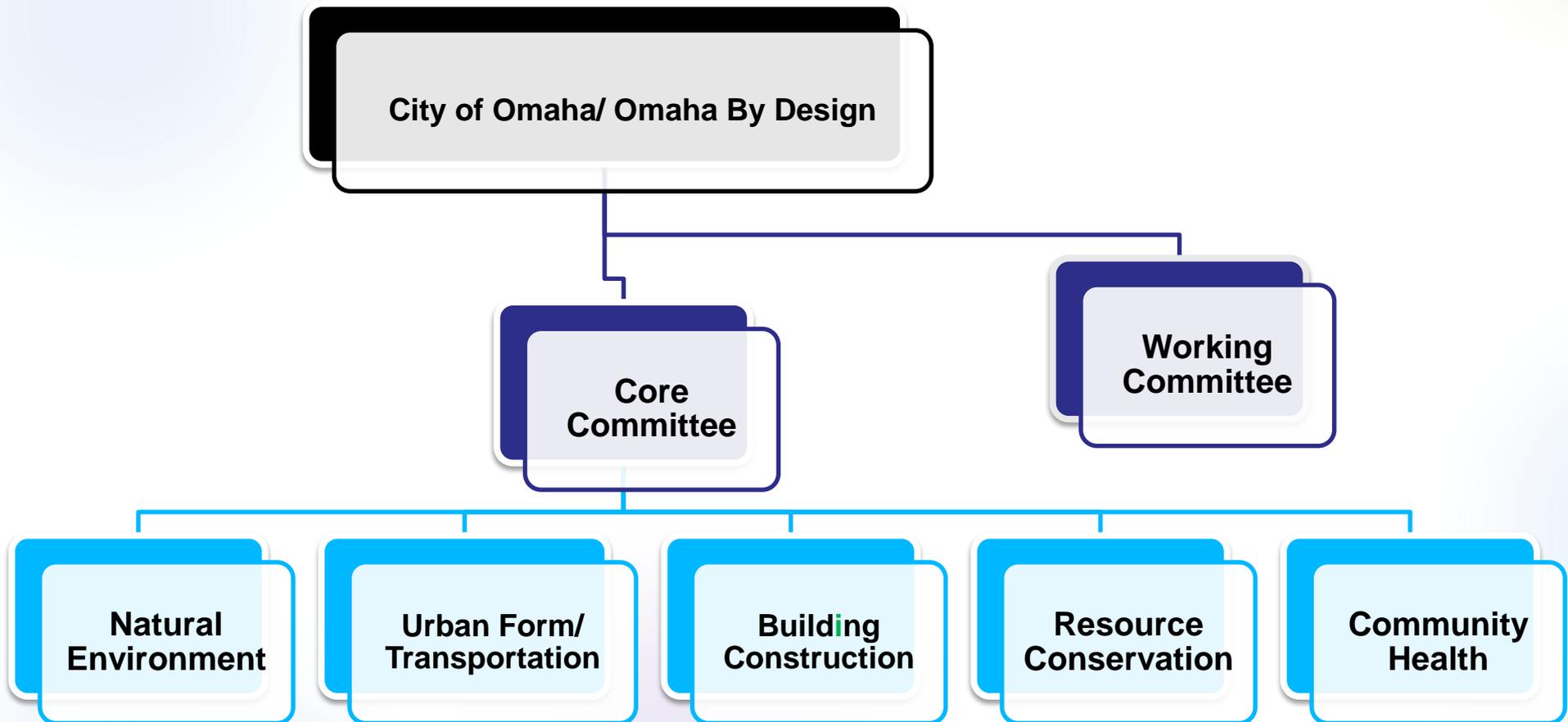
- 200 volunteers
- 4,000 volunteer hours
- 25 goal areas with objectives and policies
- \$75,000 budget
- Regional partners
- Limited consulting services from Rocky Mountain Institute





Environmental Element

Committee Organizational Chart



Advisory Committees



Plan Structure

Goals/ Measurements/ Objectives/ Strategies

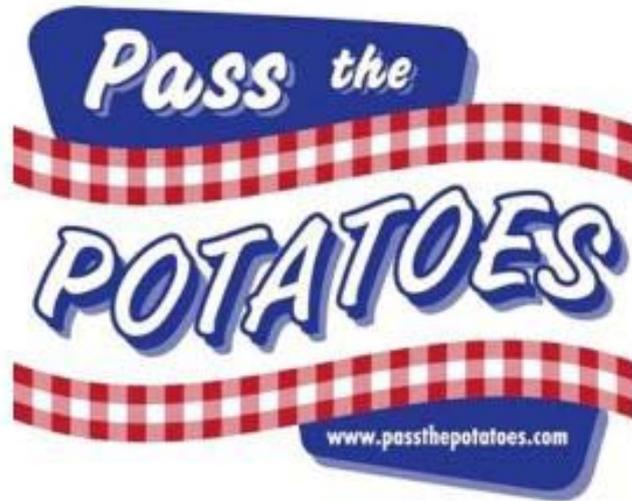
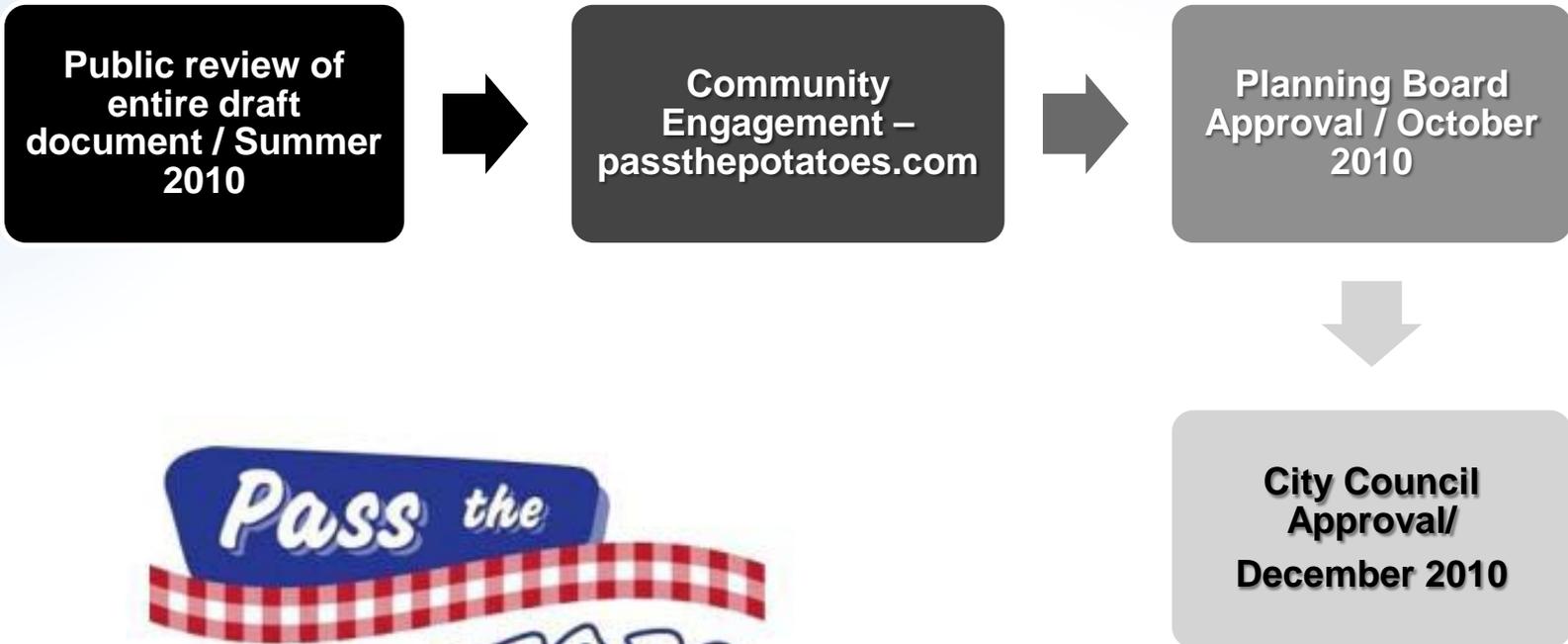
- Educational initiatives
- Code Issues
- New Regulations
- Partnerships
- Plan, guidelines, inventories

Rockbrook Village





Approval Process





Environment Omaha

- **Natural Environment**
- Urban Form / Transportation
- Building Construction
- Resource Conservation
- Community Health





Natural Environment

Overall Goal

- Omaha will value environmental features that contribute to quality of life.
- Health of people is connected to health of the natural environment.
- Natural systems provide economic benefits.

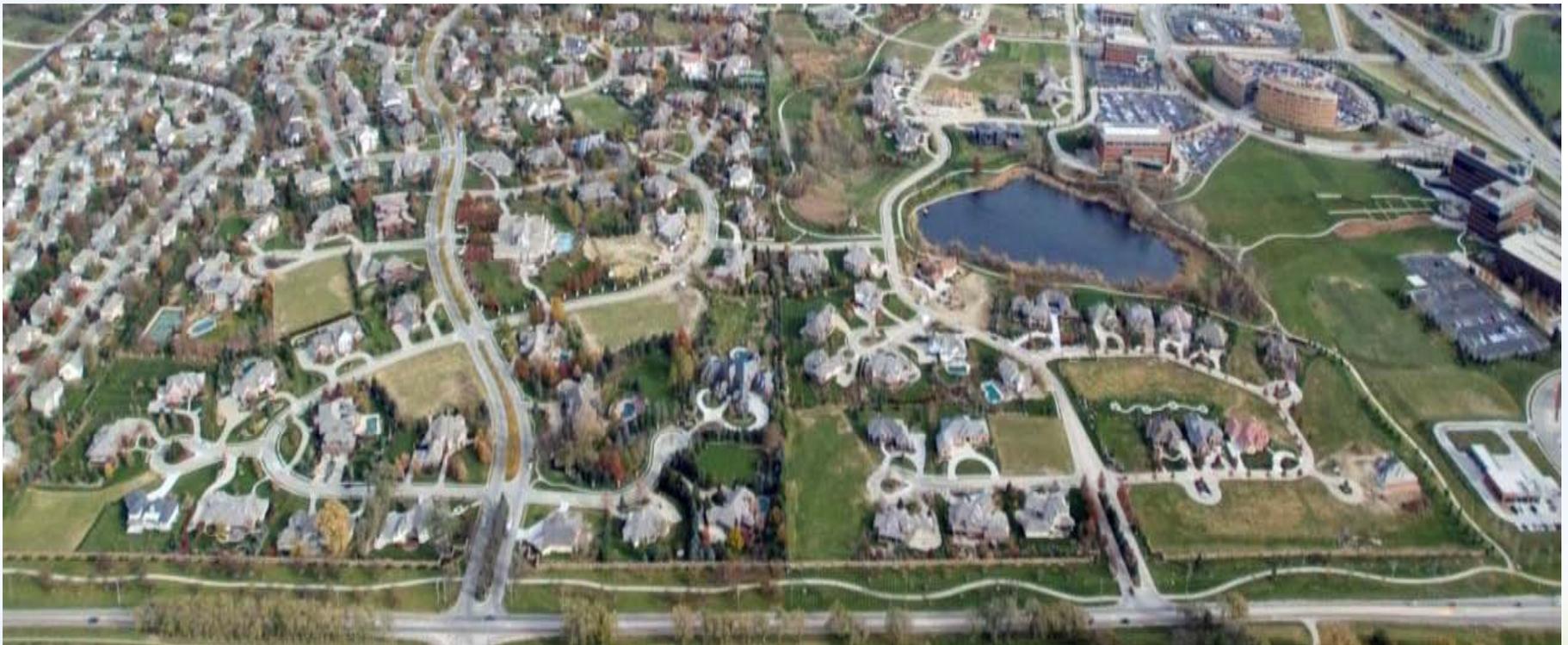


Allwine Prairie



Natural Environment Measurements

1. All residents within $\frac{1}{2}$ mile of open space.
2. Attain State Surface Water Quality Standards.



Linden Estates/ First National Business Park



Natural Environment Measurements

3. Reduce number of air quality health alert days to 20.
4. Reduce night sky luminance NNSL (Natural Nighttime Sky Luminance) in public parks and open spaces.



Pedestrian
Bridge &
Omaha Skyline



Natural Environment

Goal Areas

Land

Visual Resources

Natural Habitats

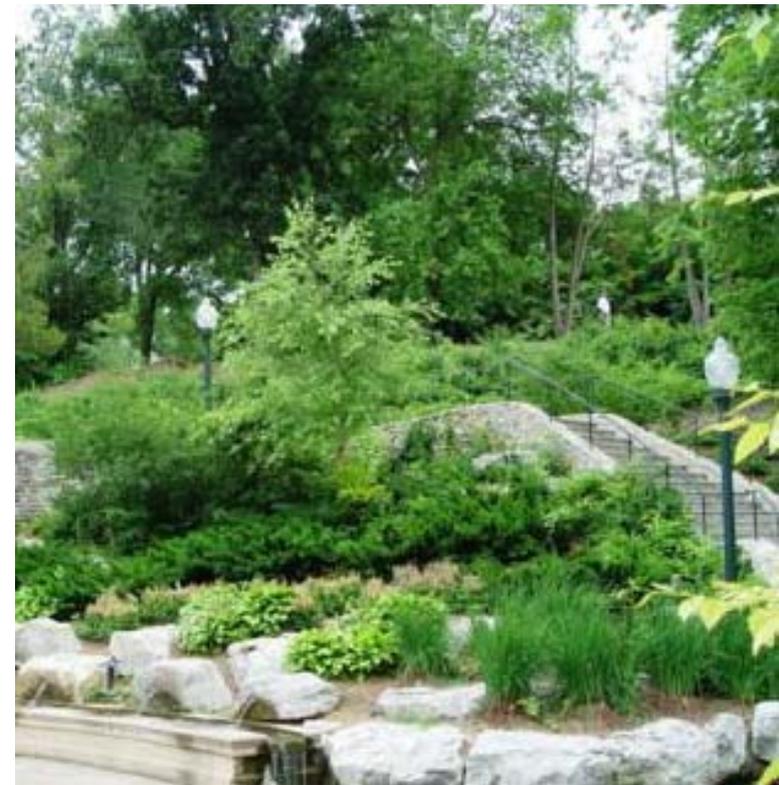
Urban Landscapes

Air and Climate

Acoustic Environment

Water

Elmwood Park Grotto





Natural Environment

Areas of Interest

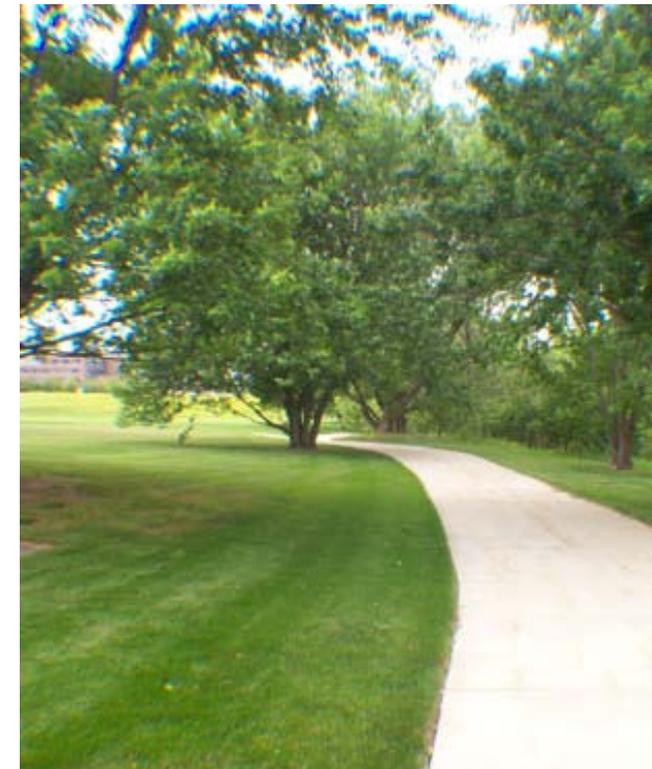
Preserve land with unique scenic and ecological value.

Develop Green Infrastructure Plan.

Reclaim, restore and redevelop degraded land.

Develop Environmental Assessment Handbook for developers.

Expand use of NEWANIP.





Environment Omaha

- Natural Environment
- **Urban Form / Transportation**
- Building Construction
- Resource Conservation
- Community Health

Omaha circa 1950's

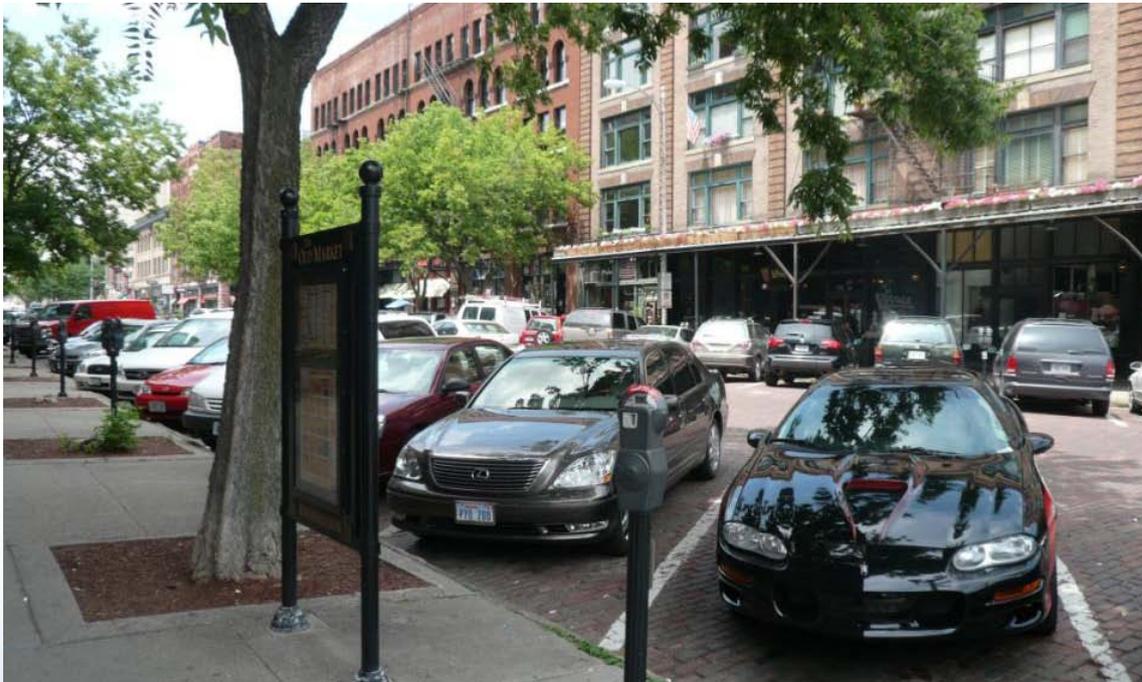




Urban Form/Transportation

Overall Goal

- Insure compact, contiguous urban area.
- Effectively use all land within current municipal limits.
- Support balanced transportation network.



Old Market



Urban Form/Transportation Measurements

1. Increase overall population density.
2. Increase trips using active transportation modes.



Metro bike rack



Urban Form/Transportation Measurements

3. Fewer than 65% of all work commuting trips will be made in single-occupancy automobiles.
4. Per capita motor vehicle miles traveled (VMT) by Omaha motorists will be reduced.





Urban Form/Transportation Goal Areas

Large-Scale City Form

Land Use and Development Policy

Land Development

Transportation Network

Transit

Active Transportation



Benson Maple Street



Urban Form and Transportation

Areas of Interest

Regulation of density.

**Assessment of development regulations
and financing methods.**

**Expand use of TIF to encourage
redevelopment.**

**Increase walkability of residential
neighborhoods.**

Balanced Transportation Plan.





Environment Omaha

- Natural Environment
- Urban Form / Transportation
- **Building Construction**
- Resource Conservation
- Community Health

Omaha skyline





Building Construction

Overall Goal

- Lead the nation in innovative building renovation and construction.
- Promote the reuse and recycling of building materials, packaging and yard waste.

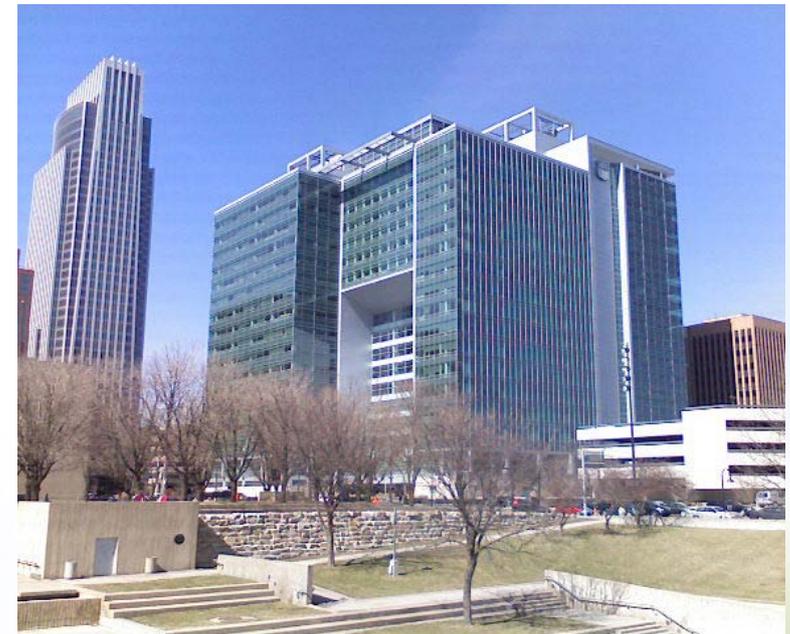


Aksarben Village



Building Construction Measurements

1. Adopt the goal of the AIA 2030 Challenge – net-zero energy buildings.





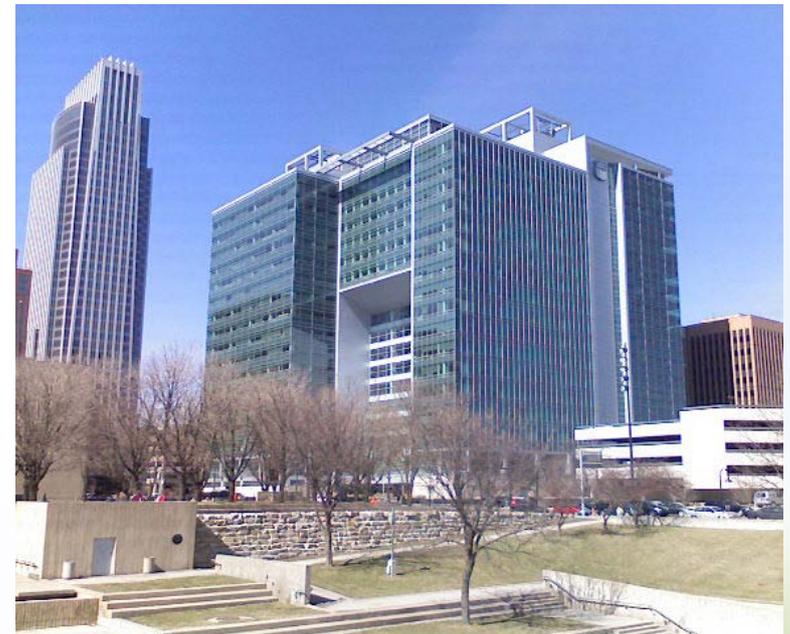
AIA 2030 Implementation

1. Non-Residential

- Immediately - 24% Greater Efficiency Than ASHRAE 90.1-2007
- Increase Performance Standard By Avg. of 4% Annually

2. Residential

- Immediately – HERS Index of 70.
- Increase Performance Standard Annually.





Building Construction

Goal Areas

Non-Residential - Renovation

Non-Residential - New Construction

Residential – Renovation / New Construction

Building Sites

Kutack Rock





Building Construction

Strategies Related to Code Updates

Performance standards in energy code.

Update code to accommodate renewable energy systems.

Remove code impediments that inhibit sustainable building renovations .

Remove code impediments to mixed use buildings.

Incorporate latest healthy building provisions in code updates.

Encourage “gray water” reuse.

Zero Net Energy Test House





Environment Omaha

- Natural Environment
- Urban Form / Transportation
- Building Construction
- **Resource Conservation**
- Community Health





Resource Conservation

Overall Goal

- Conserve and protect water resources.
- Improve air quality.
- Meet energy demand by improving efficiency and encourage renewable energy.
- Work toward becoming a zero-waste-to-landfill community.





Resource Conservation Measurements

1. Reduce per capita energy use.
2. Increase use of renewable energy.
3. Reduce water use per capita.



Creighton University solar panels



Resource Conservation Measurements

4. Increase waste diversion.
5. Decrease per capita waste generation.





Resource Conservation

Goal Areas

Water

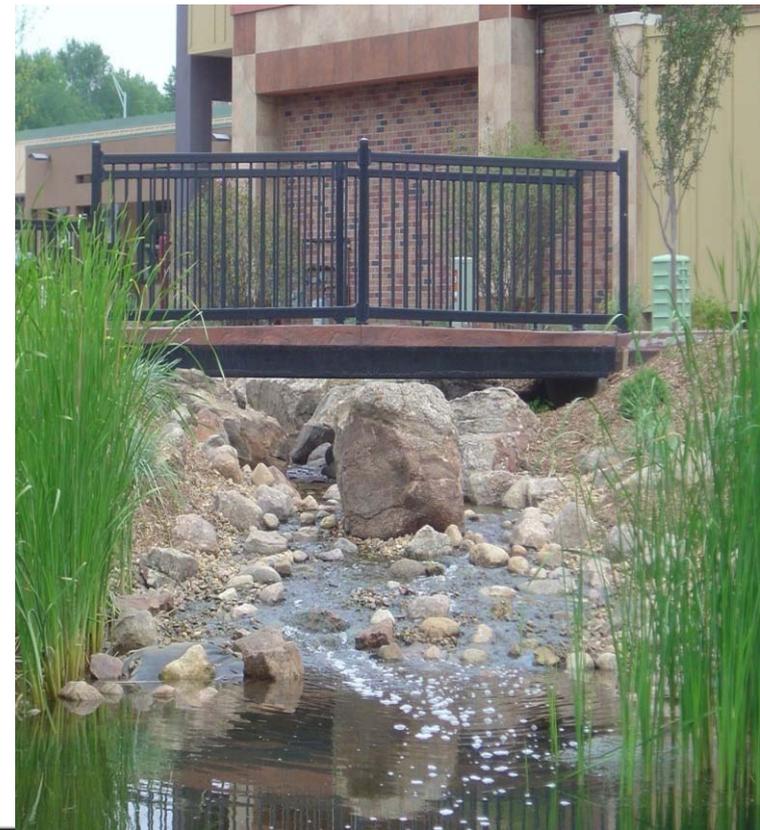
Air and Climate

Energy

Materials - Purchasing, Waste/Recycling

Human Resources – Green Jobs, Technology

Rockbrook Village





Resource Conservation

Areas of Interest

Promotion of indoor and outdoor water conservation.

Seek legislation enabling stormwater utility.

Reduce demand for energy.

Create task force to research vulnerabilities to high energy prices.

Encourage business opportunities related to plan, i.e. energy efficiency retrofits.

Morrissey Engineering





Environment Omaha

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- **Community Health**





Community Health

Overall Goal

- Active, safe and healthy living environments support a high quality of life.
- Prioritize resources to support and sustain community health.





Community Health Measurements

1. Decrease adult obesity rate.
2. Increase percentage of adult and youth who consume 5 or more servings of fruit and vegetables.
3. Increase physical activity.
4. Increase number of City staff and designers certified in Crime Prevention through Environmental Design (CPTED).





Community Health

Goal Areas

Active Omaha

Safe Omaha

Healthy Omaha





Community Health

Areas of Interest

Design parks, trails and open space to encourage physical activity.

Increase use of Crime Prevention through Environmental Design (CPTED).

Encourage access to healthy foods in all neighborhoods.





Implementation Priorities

Natural Environment

- *Natural Resources Inventory*
- Environmental Checklist for Developers
- Increased Use of Native Landscaping

Urban Form / Land Use

- *Redevelopment Financing Legislation*
- Identification of Funding for Acquisition of Vacant Properties in Blighted Areas
- Code Modifications That Produce Higher Density Mixed Use Development



Implementation Priorities

Urban Form / Transportation

- *Education on Economic Benefits of Public Transportation*
- Completion of Transportation Master Plan
- Support for Public Transportation Infrastructure
- Enhanced Transportation Funding

Building Construction

- *City of Omaha Energy Code Update*
- Informational Resources on Best Practices
- Energy Saving Incentives



Implementation Priorities

Resource Conservation

- *Comprehensive Energy Management Plan*
- *Promotion of Benefits of Recycling*
- Expand Recycling Programs
- Garbage Fee to Incentivize Waste Minimization
- Green Business & Work Force Development

Community Health

- *Community Education on Crime Prevention Through Environmental Design (CPTED)*
- Extensive Activity in Active Omaha and Healthy Omaha Strategies



Thank You!

Questions?

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