ACTIVE LIVING DESIGN: PROMOTING HEALTHY COMMUNITIES
Montgomery, TX

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Montgomery Demographics
Regional Context: Social Interaction
Overall Asset: Suitability Analysis

- Proximity to parks: 16.6%
- Proximity to health clinics: 16.6%
- Proximity to Points of interest: 16.6%
- Proximity to fresh produce: 16.6%
- Land use (commercial): 16.6%
- Proximity to water: 16.6%
Overall Risk: Suitability Analysis

- Cancer risk: 20%
- Respiratory risk: 20%
- Water pollution: 20%
- Poverty: 20%
- Flood risk: 20%

The map illustrates the distribution of risks across different regions, with high risk indicated in dark blue and low risk in light blue. The percentages represent the overall risk levels for each category.
Overall Vulnerability of Public Health in Montgomery
Existing Conditions: Opportunities and Constraints

TRANSPORTATION:
- Major Roadways
- Roads
- Site Boundary
- Building Shade Analysis

BUILDING FOOT PRINT:
Permeability Map:
- Most Perm. to Least
- Existing structure location

GREENSPACE:
- Parks
- Water Features

TOPOGRAPHY MAP:
- Contour Lines represent every 5 foot interval

ACTIVE LIVING ANALYSIS:
- This is a combined site analysis which depicts the total synthesis of all of the above layers

A configuration of traffic patterns in Montgomery, utilized to figure out what areas of the site are easily accessible.

The design will seek to decrease the heat island effect caused by excessive asphalt and concrete products.

Existing parks are relatively spread out, with the main public water feature being in Memory Park. So we will look to connect the residence to these sites.

The lowest point of the city is in undeveloped open space, and there is a continuous flood threat throughout a large portion of the north side of Montgomery.

The design seeks to increase active living, and improve overall quality of life through addressing current weaknesses in its natural and built environment.

OPPORTUNITIES:
- Ecological benefits from existing water features
- Improve upon the sites microclimate
- Open space for development or preservation
- Adequate connectivity
- Commercial areas are not at flood risk

CONSTRAINTS:
- Lack of pedestrian accessibility
- Complications regarding ownership of open space and major roadways.
- Portion of population is not within comfortable walking distance to parks
- North side of site contains a flood plane
- Need to increase parking without significantly increasing impervious surfaces
Mission Statement

Our team strives to emphasize connectivity, adaptive reuse and involvement in the city of Montgomery by linking existing and proposed amenities to encourage healthy and active living.
Program and Objectives
Design Strategies

**Connectivity**
- Pedestrian Oriented
- Traffic Mitigation
- Ecological Features
- Multi-use Paths
- Crosswalks

**Adaptive Reuse**
- Streetscape
- Parking
- Beautification
- Signage

**Involvement**
- Parks
- Active Space
- Festivals
- Healthy Eating
- Commercial
- Gathering Spaces

**STREETSCAPE**
- Accommodates all users safely with protected bike lane, noticeable crosswalks, and traffic calming measures.

**PARKS AND GREEN SPACE**
- Large scale park implementation containing multi-use spaces for play, water features and adequate seating.

**OPEN SPACE**
- Permanent event spaces such as an amphitheater utilizing a large outdoor area.

Widen sidewalks to accommodate multiple pedestrian uses.

Medium to low impact environmental park for multi-use activities.

Implement needed crosswalks and improve existing ones. Add unprotected bike lanes.

Easy to maintain multi-use trails with seating and open space.

Community gardens and educational spaces designed for people to plant interactions.

Temporary event spaces for farmers markets, festivals, or food trucks.
Downtown Streetscape: Perspective
Design Impact

HEALTHY EATING
- Grocery store: 93,500 sq ft increase
- Community garden: 369,000 sq ft potential

CONNECTIVITY
- Existing sidewalks: 2.5 miles
- Proposed sidewalks: 7.3 miles (290% increase)
- Bike lanes: 4.0 miles
- Trails: 14.0 miles
- Boardwalk: 0.9 miles

ACCESS TO NATURE
- Green space: 98.9% residences within 0.25 miles of park
- Proposed trees: 35 acres of canopy cover
- Existing trees: 301 acres of canopy cover

COMBINED ASSET
Combined Conditions: Points of Interest

Places
20 existing + 10 proposed

Attributes
25 existing + 11 proposed