work sample

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The East Riverside Corridor in Austin, TX faces intense development pressures with its proximity to downtown. Historically, Riverside has consisted of student housing and thriving low-to-middle income Hispanic/Latinx communities. This plan sensitively densifies the transit corridor while maintaining and expanding employment and affordable housing options for long-time residents wanting to remain in Riverside.

Two scenarios were considered in relation to projected trends in the area. The first scenario, High Mobility, implements a new Bus Rapid Transit (BRT) line, with dedicated transit lanes and ample green median space. The second, High Sustainability, adds green design requirements and more affordable two- and three-bedroom housing units.

--- Part of five-person design team
Unemployment Rates in ERC Higher Than Those of Travis County

Labor Force Participation Rate

Unemployment Rate by Neighborhood Sections

ECONOMIC DEVELOPMENT RESEARCH

Travis County ERC Pleasant Valley Montopolis

Labor Force Participation Rate

Current Land Use

Section of Riverside Drive at Pleasant Valley

PROPOSAL

Selected Sustainability Indicators

Potential Open Space & Habitat from Green Infrastructure

Runoff Reduction from Green Infrastructure
Preserving both historic man-made resources and sensitive ecological resources, this master plan for the headquarters of Badlands National Park in South Dakota introduces three typologies to sustainably and holistically manage the landscape. The typologies are based on user activity and maintenance level, with more heavily landscaped educational areas, moderately landscaped social areas, and primarily untouched natural areas.

Special attention was paid to incorporating both Cultural Landscape Characteristics and Sustainable SITES Criteria into a single framework, with the Visitor Center Lawn as a detailed case study.

---Part of two-person design team
ECOLOGICAL ANALYSIS

Climatic Patterns

Visitation Patterns

PROPOSAL

Perspective of Visitor Center Lawn

Plan of Visitor Center Lawn

Plants + Materials for Each Typology
Revitalizing three underutilized blocks adjacent to Georgia Institute of Technology and the Bank of America Tower was the goal for this project. Midtown in Motion seeks to expand the spectrum of possibilities for the Atlanta, GA metropolitan area by connecting people to places.

By reinventing the North Ave. MARTA transit station as a bright beacon for the neighborhood, Midtown in Motion creates demand for housing, retail, office, and hospitality land uses.

A dynamic, open green space carves through the existing city grid, addressing the lack of green space and creating a direct connection between the district, the university, and multi-modal regional transit options.

--- Part of four-person design team
A selection of maps from an intermediate geographic information systems (GIS) course. Topics included both spatial modeling in ESRI's ArcGIS and an introduction to integrating geographic positions systems (GPS) data as an input for GIS.

--- All work is my own.

SPRING 2016

SQL Query-based Site Selection
Regional Analysis of Census Data

Percent of Households Receiving Food Stamps

Hispanic / Latinx Concentration

Percent of Total Population

Cartography Competition Winning Design
Closed Landfills within Travis Co. on Government-owned Land

Regional Schools (includes 1 mi buffer)

Groundwater Wells (includes 1/4 mi buffer)

Point Data for Vector Suitability Analysis

Points + Polygons Data for Raster Suitability Analysis

Current WIC Clients, Bus Stops, and Children Under 5 yrs
Included sketches were either originally part of a field journaling project to document characteristic features of my hometown or completed as part of a Bioregional Planning seminar.

Bookends were created as the culminating project of a course on traditional blacksmithing techniques. No power tools were used in the fabrication, only anvil and hammer.

---All work is my own.
Early Building Form Studies

Concrete Mixing Facility near Lawrence, KS
Rail-tie Inspired Steel Bookend Set