

PROJECT PORTFOLIO

Trey Maevers, CFM

Urban Planner, Floodplain Manager

2015

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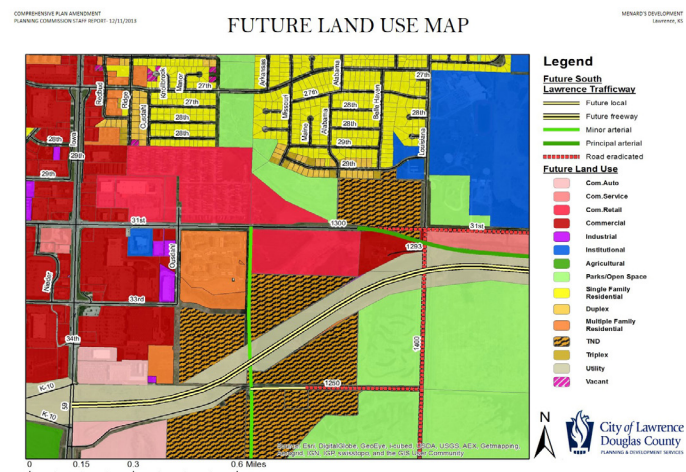
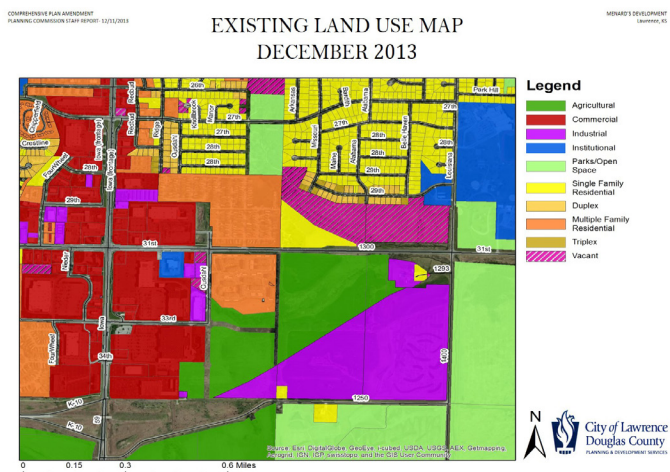
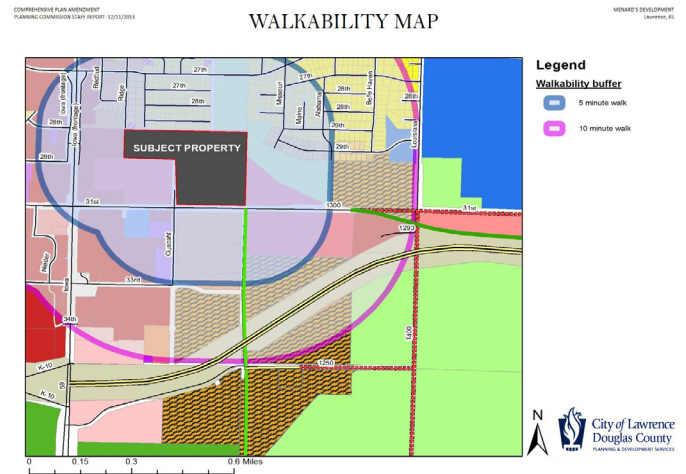
LAND-USE COMPREHENSIVE PLAN UPDATE | GRAIN VALLEY, MO

In May 2015, a Comprehensive Exam was required to graduate the Urban Planning Graduate Program at the University of Kansas. This Exam required candidates to respond to an actual Request For Qualifications (RFQ) to update a city's Land-Use Plan. This qualification request was for land-use planning and strategies for the City of Grain Valley, Missouri. My main goal was to demonstrate to the City that future land-use planning has the capability to create positive outcomes and sustain benefits for the City of Grain Valley in the short and long-term. I created an update to the Plan in order to establish a framework of the correct balance of land-uses that are feasible in terms of economic growth, environmental preservation, and social equity. The result of "good" land-use planning really is manifested through hard work, dedication and pride. I proposed an initiative to reach the community in the most efficient and effective way possible through creative community engagement techniques. The vision exemplified the importance of healthy community action, the value of safety and quality of life. The core goal of successful land-use planning is to have a safe, attractive and sustainable community that is meaningful over the long-term for citizens, neighbors and travelers. This update produced exceptional planning, architecture, and sustainable solutions to the municipality of Grain Valley and through the implementation of the Plan the City of Grain Valley could become leaders in sustainable land-use planning for the county, metropolitan area, and the state of Missouri.

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Source: <http://www.semissourian.com/story/1846950.html>

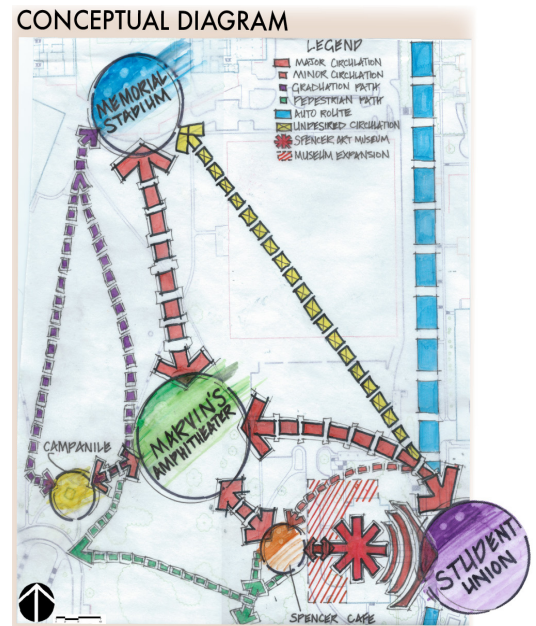


COMPREHENSIVE PLAN AMENDMENT (CPA-13-00067) PLANNING COMMISSION PUBLIC HEARING, DEC. 11, 2013

In 2013, Menards Inc. proposed an amendment to Lawrence, KS' Horizon 2020 Comprehensive Plan. The change asked, specifically, for an amendment to Chapter 6, Chapter 14, and the Revised Southern Development Plan of Horizon 2020. Chapter 6 demonstrates the Commercial Land Use of Lawrence. Chapter 14 concentrates on Specific Plans and the Revised Southern Development Plan is an extension of Chapter 14 identifying this specific location for "medium-density residential uses". The need to amend these specific areas of the Comprehensive Plan is for the expansion of the commercial corridor of South Iowa Street and showing the feasibility of this area becoming a regional commercial center. The rationale behind the push for the amendment is for a Menards development to be constructed on property northeast of the intersection of 31st Street and Ousdahl Rd.

As an Urban Planning Graduate Student we were consulted to report on the amendment and provide a land-use analysis, retail market study and tax impact analysis to members of the local Planning Commission.

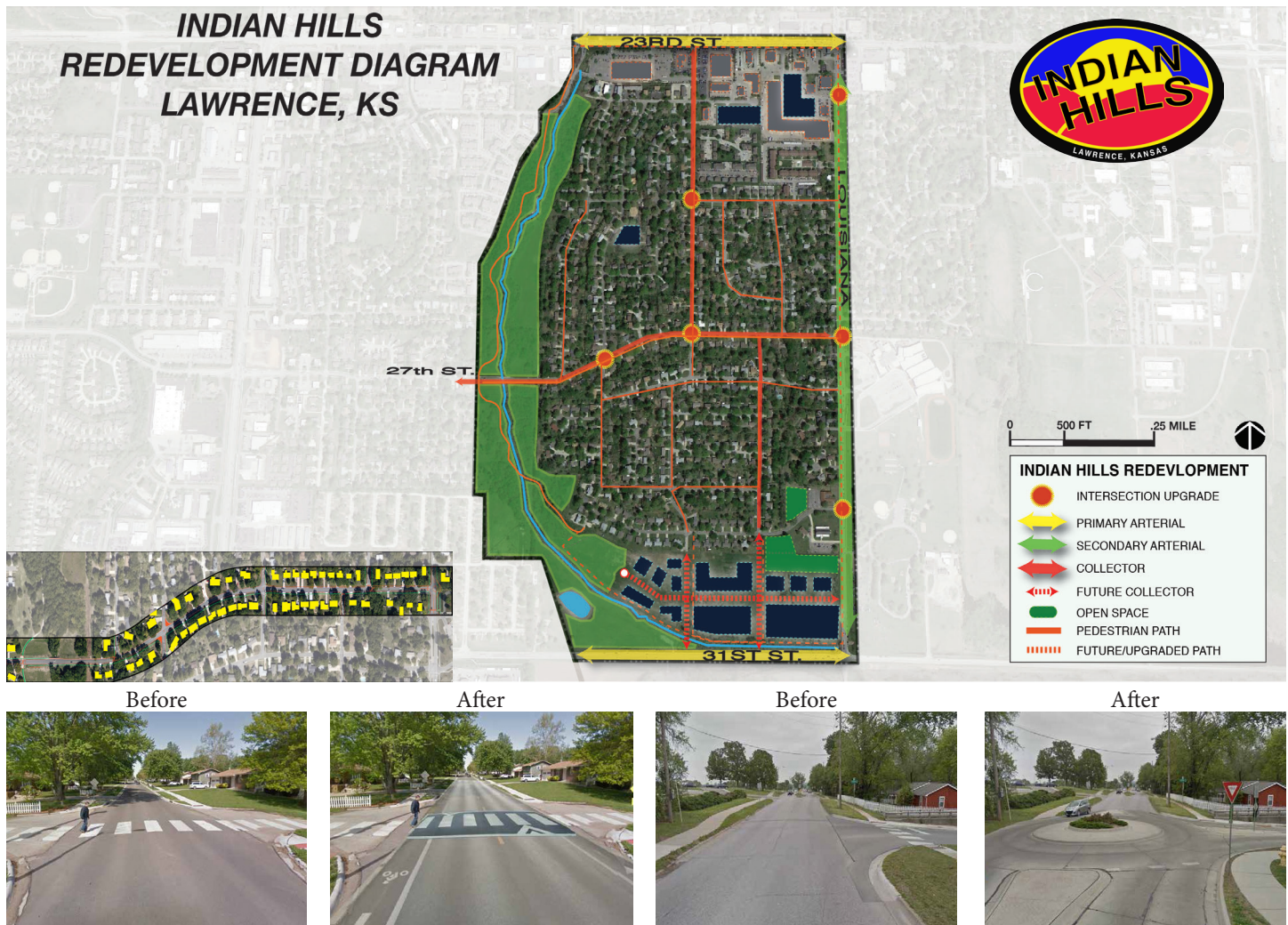
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SPENCER AMPHITHEATER AND PATIO | UNIVERSITY OF KANSAS

In the Spring of 2014, I was apart of a group that was consulted to connect Art and Football on the campus of Kansas University. My final design was for the construction of the “Spencer Musuem Amphitheater and Patio” which promoted a human-scaled social gathering place. This place marketed community involvement ontop of the superb support from the University of Kansas. The Amphitheater is a multi-terraced, 10,000 square foot natural open-air amphitheater. The Patio is a 4,000 square foot outdoor patio, that was design in conjunction with the new western expansion of Spencer Museum. Also, a twelve (12) foot pedestrian/bicycle path was constructed along existing sidewalks and open space to connect Spencer Museum with both the Patio and the Amphitheater, but most importantly, Memorial Stadium.

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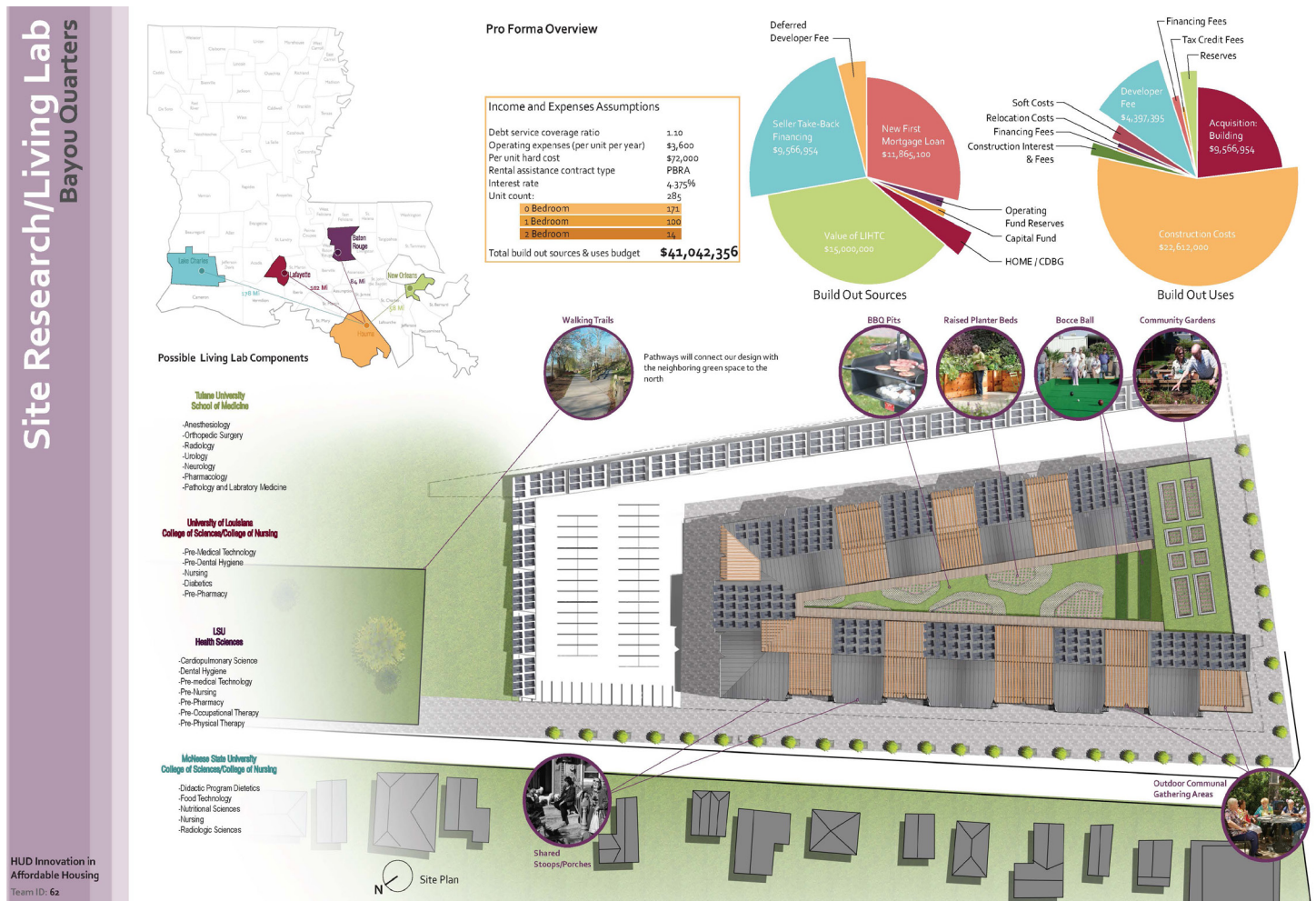


INDIAN HILLS DEVELOPMENT AND 27TH ST. CORRIDOR ACTION PLAN | LAWRENCE, KS

In December 2014, I created the Indian Hills Development and 27th St. Corridor Action Plan. This Plan is intended to continue the vision of 27th St. as a sustainable, safe community road. This plan incorporated public engagement, development review, evaluation of traffic and land-use best practices. This Plan initiated the discussion on the engineering, enhancement, education and enforcement techniques for traffic calming along 27th street. The Plan also recommended the development techniques and procedures at the tract of land northwest of the intersection of 31st St. and Louisiana.

Furthermore, this Plan recommends traffic devices and how their function, form and use for volume and speed-management benefits the community. This Plan also is an integral part in maintaining safety for drivers, pedestrians, bicyclists and motorists along this stretch of road in this community. The combination of traffic measures and sustainability methods exemplified the how citizens can be great stewards of neighborhood.

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HUD AFFORDABLE HOUSING DEVELOPMENT | HOUMA, LOUISIANA

In January 2015, I participated in HUD's Innovation in Affordable Housing student design and planning competition. The competition proposed a infill development in Houma, Louisiana. This project consisted of a multi-disciplinary team that created the proposal to develop innovative solutions for affordable senior housing. The existing building was approximately 100,000 square feet and was located on a parcel just over one (1) acre.

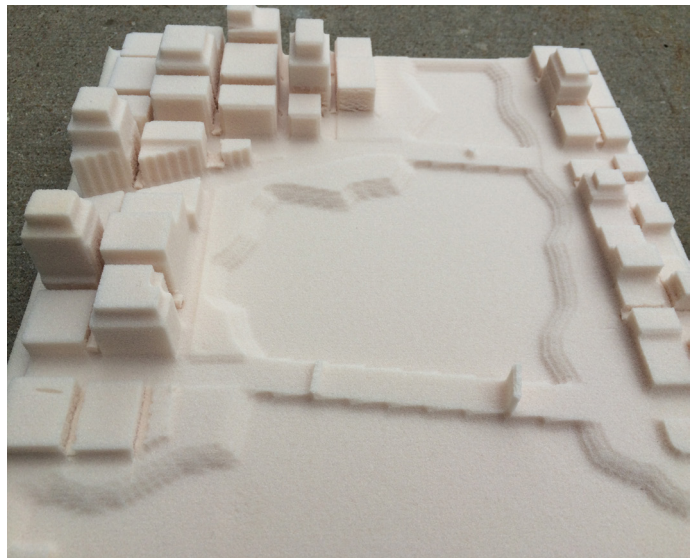
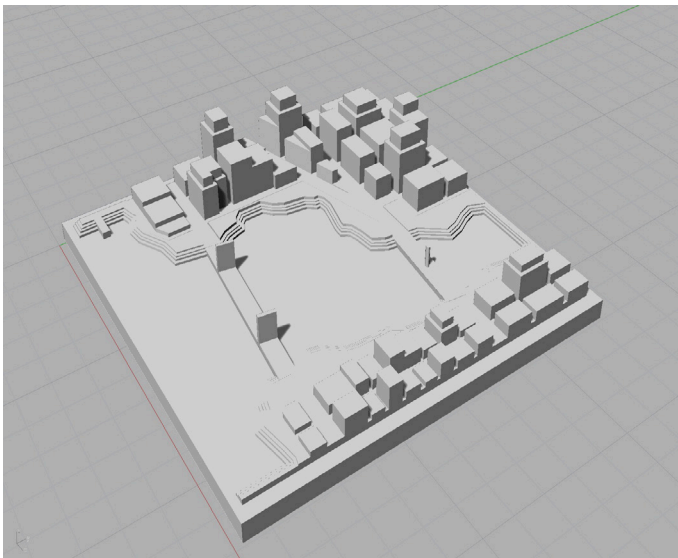
Our final product balanced affordability with energy-efficiency, durability, and resiliency. The proposed 250 dwelling units were designed for accessibility and healthy living with natural daylight and indoor environmental quality. Besides encouraging interactions, our building and site employs the most innovative sustainability strategies. The design enhanced environmental quality, while also allowing the integration of advanced technologies, which were designed along renewable-ready designs throughout the building and site. Shared geothermal loops under the interior courtyard and the parking lots. The roofs of these southern facing carports will be covered with photovoltaic panels capturing the sun's energy and pass the savings onto the tenants by providing car charging stations. Only native and adaptive plant species to Louisiana, that require minimal water, were implemented in the design. Permeable pavement was used, to recharge the ground water and reduce the storm water runoff. The rooms will be fitted with Energy Star compliant Appliances. Our team utilized strategies to ensure of maximum amount of LEED points. The design also incorporated on-site composting for the community gardens bolstering the waste-management plan.

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URBAN CONCEPTUAL MASSING | KANSAS CITY, MO

During December of 2014, I was apart of a group of students that were consulted to re-envision the development area at the intersection of 13th St. and Baltimore in Kansas City, MO. This process included multiple decisions on how the site should be developed. This process consisted of many “massing” sketches, as seen above. This approach was a quick technique that helped decision makers to see the footprint and shell on the site.



URBAN CONCEPTUAL MASSING AND MODELING | KANSAS CITY, MO

During December of 2014, this same group was called to explore a massing and modeling approach of the area. This process continued the development of our designs, pushing our work closer to the becoming three-dimensional products. During this process we had the opportunity to get “hands on” experience with a LaserLab and CNC Router to cut our patterns into material and layer them, not only to create a spatial concept, but also to create space for our designs to bend and absorb light.