

ASHLEY TRUITT

Landscape Architecture Portfolio
2019-2021





ASHLEY TRUITT

Master of Landscape Architecture Student

Education

University of Michigan

Master of Landscape Architecture | Expected Graduation: Spring 2022

Michigan Technological University

Bachelors of Science, Applied Ecology and Environmental Science | Winter 2017

Contact

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Skills

Adobe InDesign
Adobe Illustrator
Adobe Photoshop
AutoCAD
ArcGIS
Sketchup
Rhino
Lumion

About Me

My main interests in design lie within ecological systems and sustainability at a community scale. I hope to use community engagement to drive the design process while solving problems related to climate change.

Experience

KC Runciman Landscapes

Landscaper | 2018-2021

Natural Resources Conservation Service

Soil Conservation Pathways Intern | 2017

Michigan Technological University

Field Crew Supervisor | 2017

Michigan Technological University

Teaching Assistant | 2016

Involvement

ASLA

Student Member | 2020-Present

University of Michigan SASLA

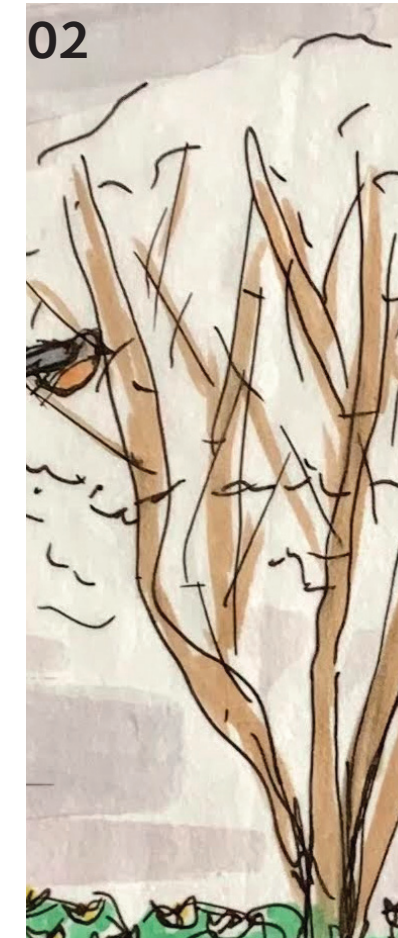
Vice President | 2021-Present

Track Leader | 2020-2021

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01

Green New Deal Superstudio: Green For All

Date: Fall 2020

Location: Ann Arbor, MI

Programs Used: AutoCAD, Illustrator, Photoshop, InDesign, Google Earth Pro, Revit, Rhino, Lumion

To some, the Green New Deal's framework is far off and unattainable. This mixed use development pushes those boundaries and shows what future developments can look like in the scope of decarbonization, justice, and job creation. The goals for this project are to create an equitable and accessible community, manage all stormwater generated on site with green stormwater infrastructure, utilize renewable energy resources, and promote biodiversity while increasing carbon storage. Five housing typologies are intermixed throughout the site to build equity and accommodate many socio economic statuses. Housing units are also clustered in a way that allows access to shared greenspace. A series of bioswales and a large central retention pond is used to convey and store stormwater on site. Native wetland vegetation is used to enhance carbon storage in these areas as well. In conjunction with solar roofs, there are two solar fields that total one acre that provide access to renewable energy to all homes on site. These solar fields also act as rain gardens, providing even more carbon storage. Lastly, a bus rapid transit stop is implemented to enhance the accessibility of this neighborhood to surrounding job opportunities. All in all, this development is a great example of how we can use the Green New Deal to design communities for the future.

Site Planning



ACCESSIBILITY



EQUITY



STORMWATER

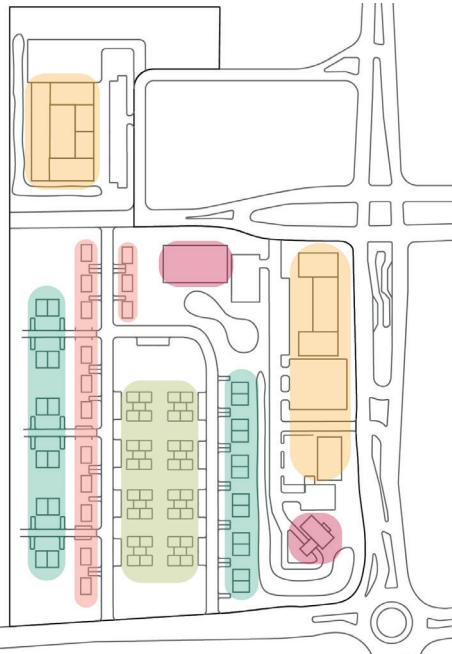


SOLAR ENERGY

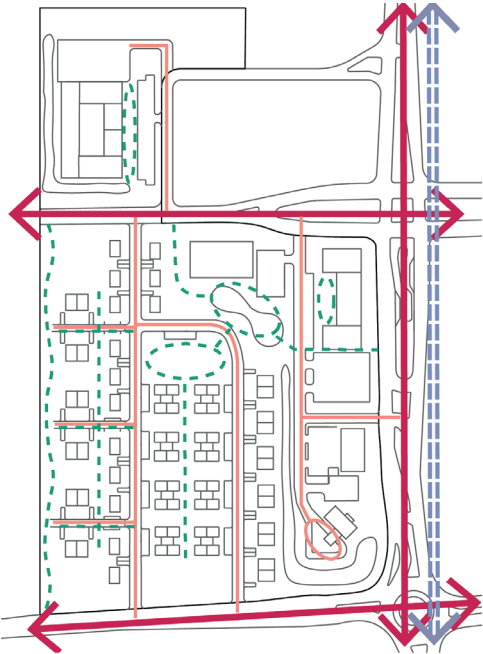


CARBON STORAGE

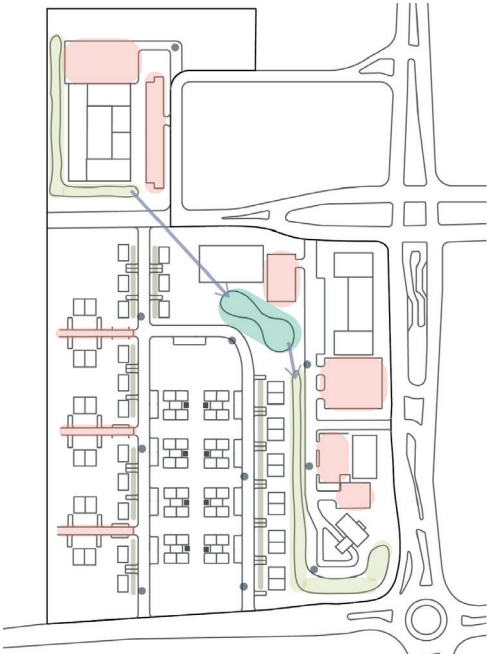
Site Analysis



- BUILDING TYPOLOGY**
- Office
 - Mixed-Use
 - Single Family
 - Duplex
 - Fourplex



- CIRCULATION**
- Bus Rapid Transit
 - Primary Roadway
 - Secondary Roadway
 - Pedestrian



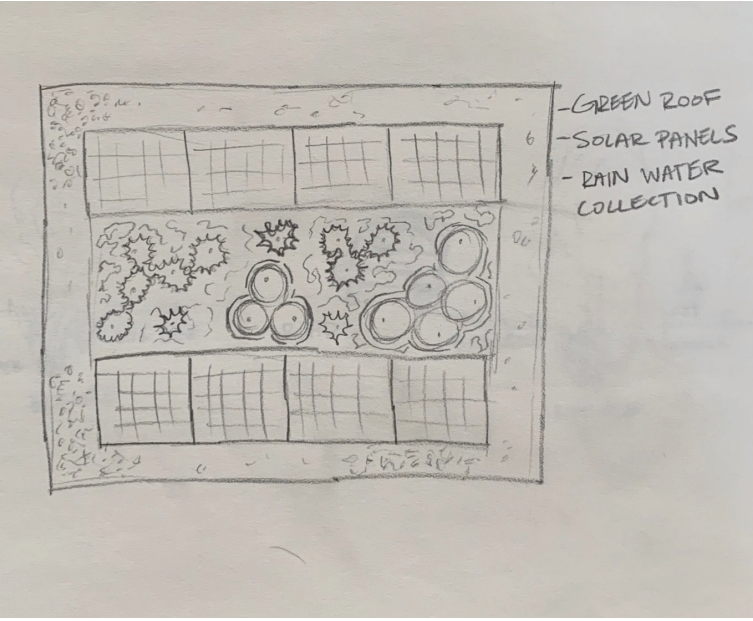
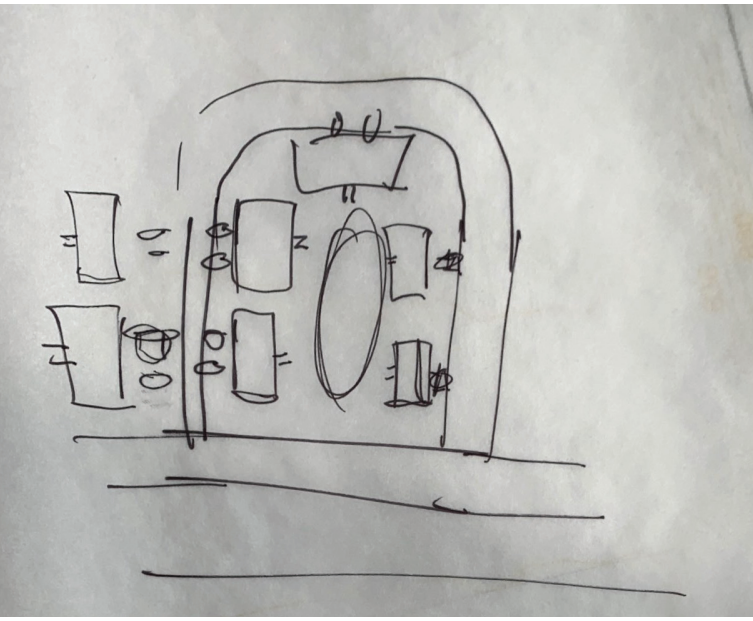
- STORMWATER MANAGEMENT**
- Permeable Paving
 - Retention Pond
 - Bioswale
 - Cistern
 - Catch Basin

Site Plan



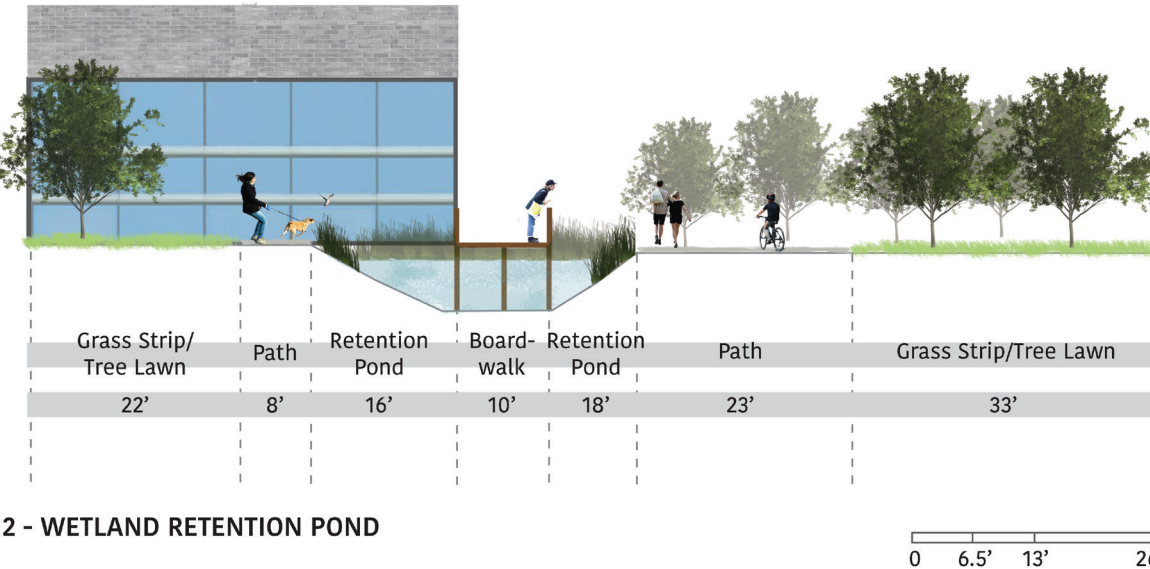
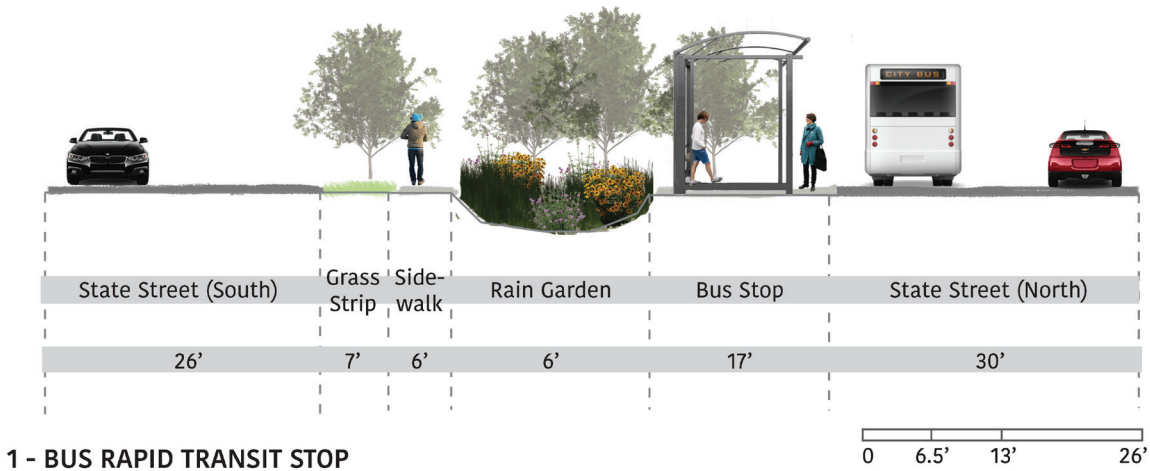
- LEGEND**
- 1. Single Family Housing
 - 2. Duplex Housing
 - 3. Fourplex Housing
 - 4. Mixed-Use Housing
 - 5. Office Space
 - 6. Existing Bank
 - 7. Solar Garden
 - 8. Neighborhood Park
 - 9. Bus Rapid Transit Stop

Initial Design Ideas



Site Planning

Sections



Perspective Renderings



Mixed Use Plaza



Woonerf Shared Street

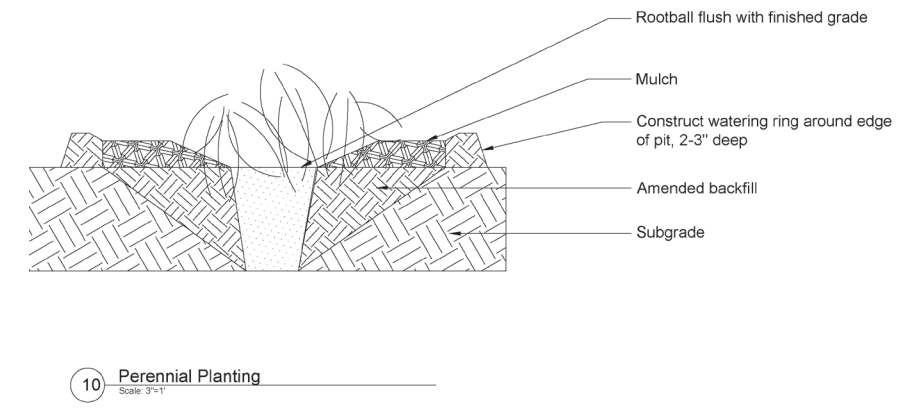
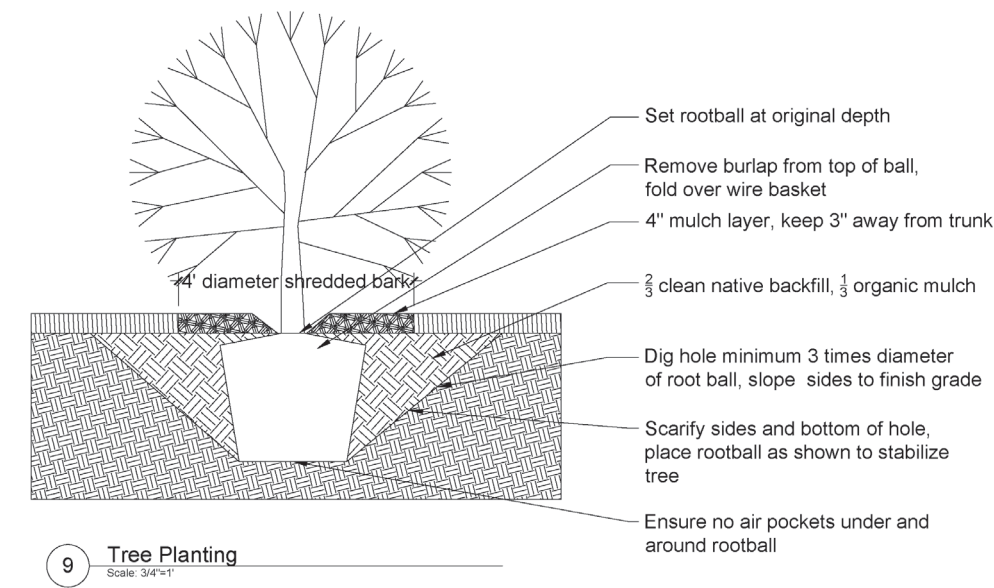
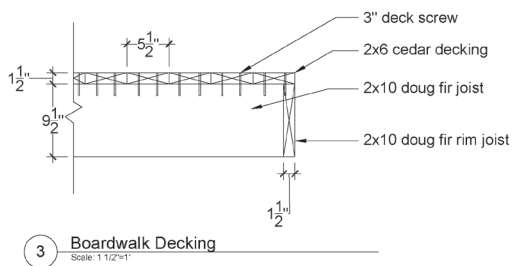
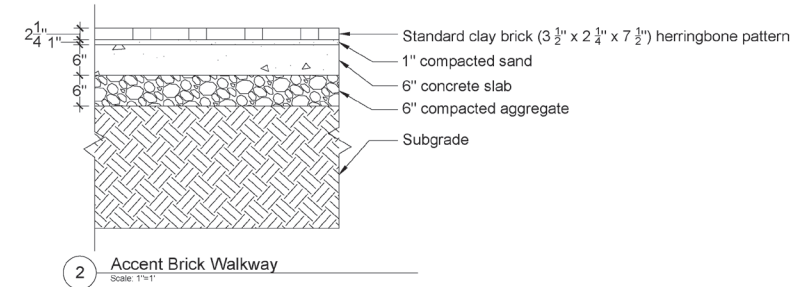
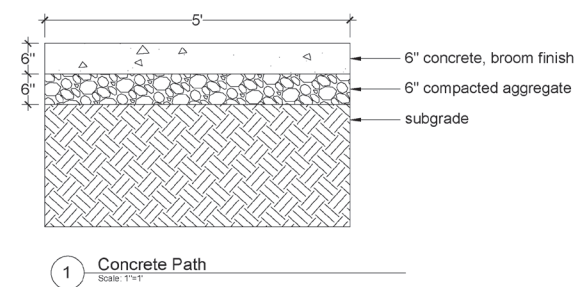
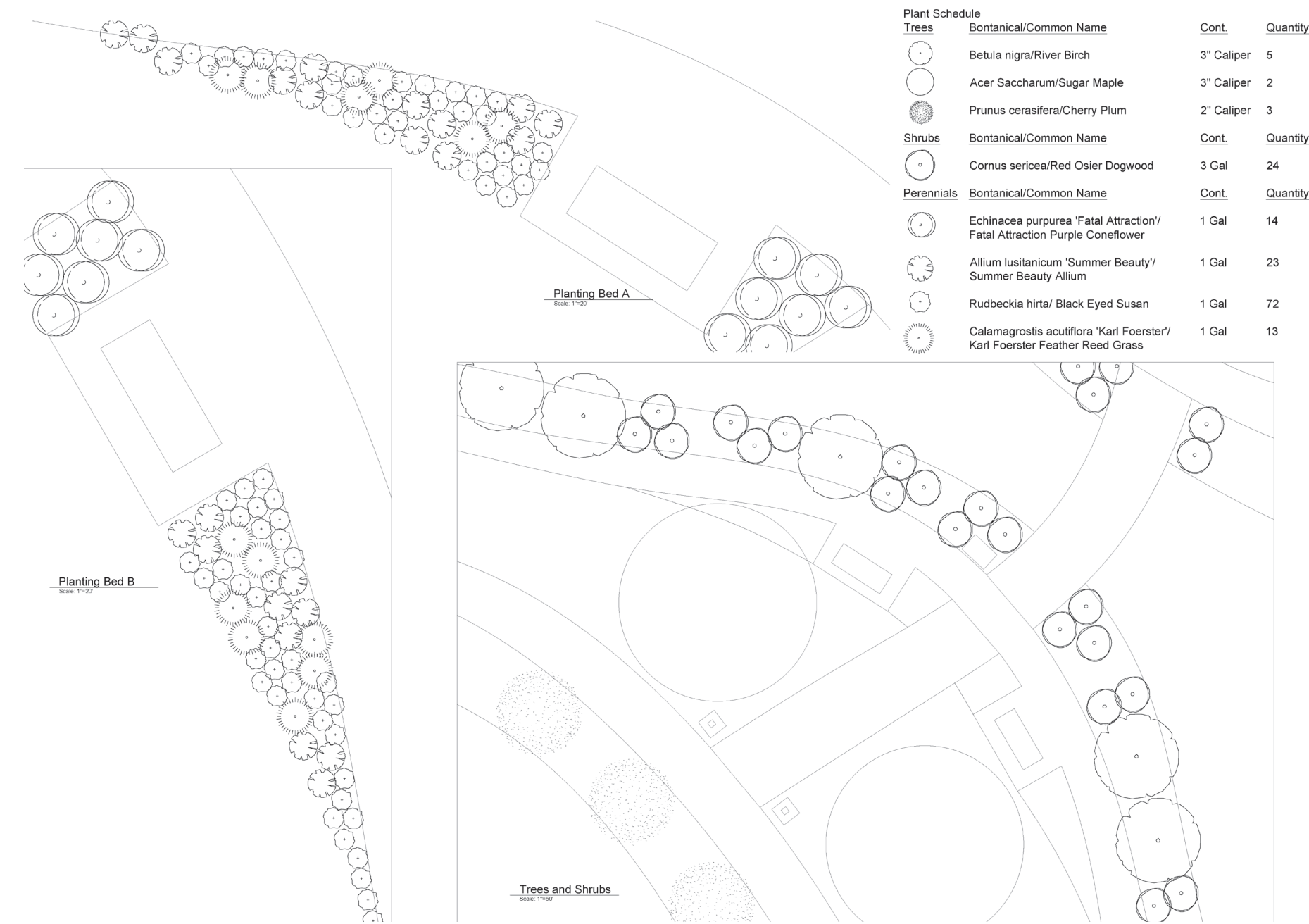


Neighborhood Park



Solar Farm and Rain Garden

Construction Details





02

Nature Rx at the Dana Garden

Date: Fall 2020

Location: Ann Arbor, MI

Programs Used: Excel, InDesign, Photoshop, Illustrator

Research has shown that getting outside in nature greatly improves your physical and mental wellbeing. The Dana Garden is located outside of the School for Environment and Sustainability at the University of Michigan. Being a graduate student, I know first hand how important it is to take time out of your day, no matter how busy you may be, and take a mental break. The Dana Garden uses a naturalistic planting style to draw University students, faculty, and staff in to recharge through nature. There are opportunities to pause and watch the birds forage for food, caterpillars turn to butterflies, and seed heads sway in the wind. Plant species native to the Great Lakes Region are prioritized to bring life and excitement to the garden year round. Everybody's road to psychological restoration is different. Nature RX at the Dana Garden allows you to take that journey at your own pace, one piece at a time.

Planting Design

Naturalistic Planting Plan



Seasonal Interest

Plant Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Autumn Brilliance Serviceberry	*
Black Chokeberry	*
Bicknell's Sedge	*
Karl Foerster Feather Reed Grass	*	*	*
Fountain Grass	*	*	*
Lady Fern
Anise Hyssop	*	*	*
Beebalm	*	*
Big Leaf Aster	*	*	*	*
Black cohosh	*	*
Bloodroot	*	*
Bugbane	*	*
Columbine	*	*
Culver's Root	*	*	*	*
False Solomon's Seal	*	*
Foamflower	*
Golden Alexander	*	*
Great Blue Lobelia	*	*	*
Hyssopleaf Thoroughwort	*	*	*
Ironweed	*	*
James Crockett False Chamomile	*	*
Lady's Mantle	*
Moonshine Yarrow	*	*	*
Mountain Mint	*	*	*
Pale Purple Coneflower	*	*
Purple Milkweed	*	*
Rattlesnake Master	*	*	*
Sweet Coneflower	*	*	*	*
Thundercloud Meadow Rue	*	*	*
Visions Astilbe	*
Woodland Phlox	*	*

KEY: * Flower Color ... Seedheads Present ... Fruit Present Fall Color

Planting Design



Visions Astilbe



Autumn Brilliance Serviceberry



Big Leaf Aster



Lady's Mantle



James Crockett False Chamomile



Lady Fern



Bloodroot



Black Cohosh



Black Chokeberry



False Solomon's Seal



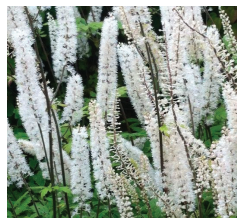
Golden Alexander



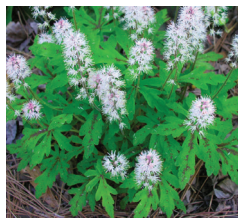
Woodland Phlox



Mountain Mint



Bugbane

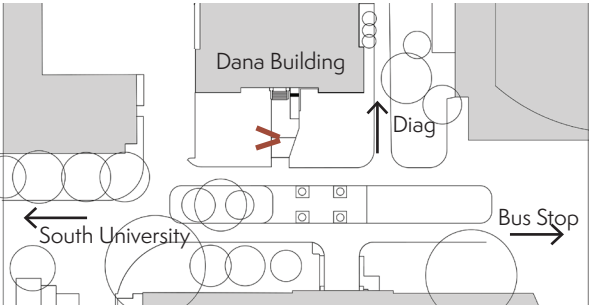


Foamflower

Calm and Cohesive



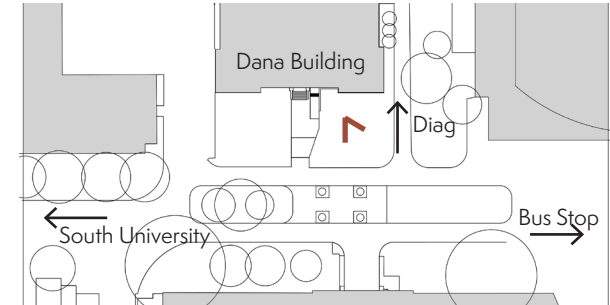
Big Leaf Aster and Bugbane blanket the landscape. Bright blooms from Golden Alexander offer a moment to pause and reflect.



Intrigue and Inspire



Your gaze is directed across the landscape to the bright blooms of Sweet Coneflower. Karl Foerster Feather Reed Grass and Fountian Grass grab your attention as they sway in the wind.



Hyssoleaf Thoroughwort



Sweet Coneflower



Beebalm



Karl Foerster Feather Reed Grass



Columbine



Culvers Root



Fountain Grass



Moonshine Yarrow



Pale Purple Coneflower



Purple Milkweed



Rattlesnake Master



Thunder Cloud Meadow Rue



Anise Hyssop



Bicknell's Sedge



Great Blue Lobelia



Ironweed



03

A Step on the Flyway

Date: Spring 2020

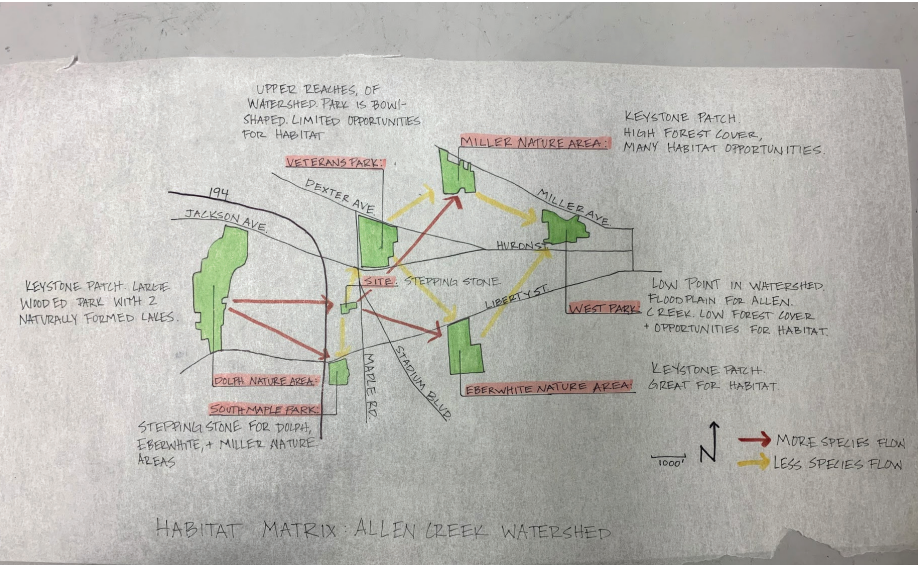
Location: Ann Arbor, MI

Programs Used: Photoshop, Illustrator, InDesign, Sketchup

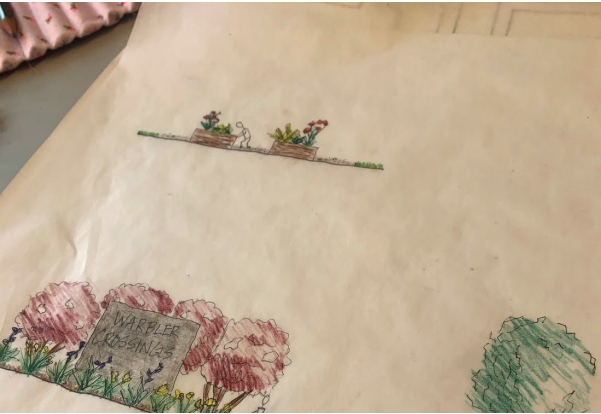
A Step on the Flyway is a small community development that centers around ecological principles. Analysis of surrounding greenspace, sun and shade patterns, stormwater flows, and wind patterns were key to creating a sustainable design. This site sits within an impermeable matrix surrounded by a series of green patches. Because of this location, it is perfectly situated to be an ecological stepping stone for local songbirds and migratory birds from nearby flyways. Vegetation buffers are located on the North and West perimeters of the site to slow down and block harsh winter winds. A detention pond is located in the lowest elevation on site for stormwater collection, surrounded by a mix of slow and fast growing tree species to maximize carbon storage. Vehicle and pedestrian circulation are carefully considered to minimize the urban heat island effect. It is equally important in the winter to maximize sun exposure to aid in snow melt and create comfortable spaces for residents. All vegetation on site is selected to provide habitat and food resources for the bird populations as well. This development is the perfect balance of addressing human comfort and needs, as well as being an ecologically sustainable site.

Ecological Design

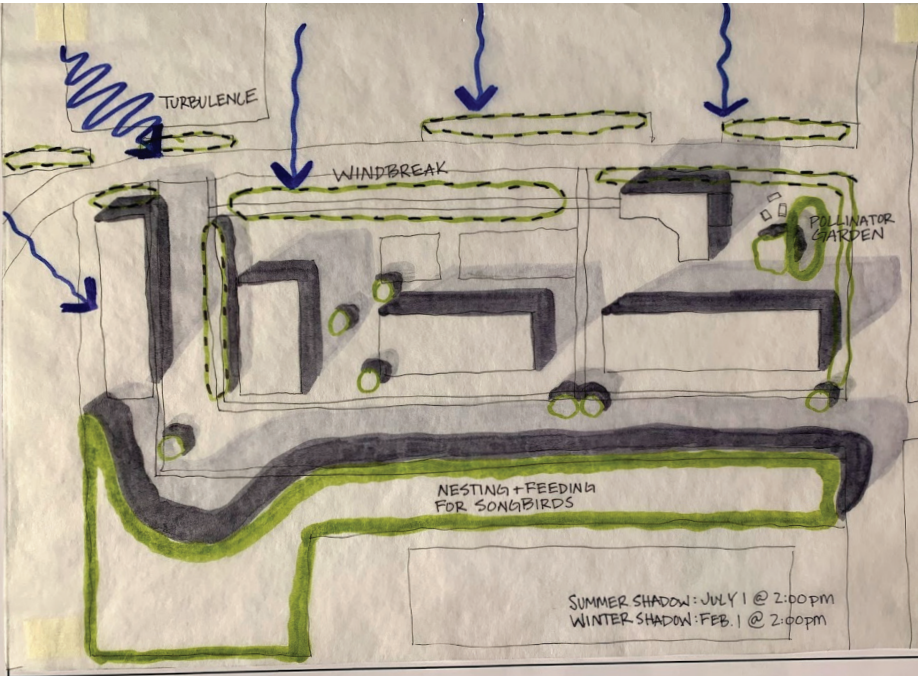
Design Development



Habitat Matrix Analysis

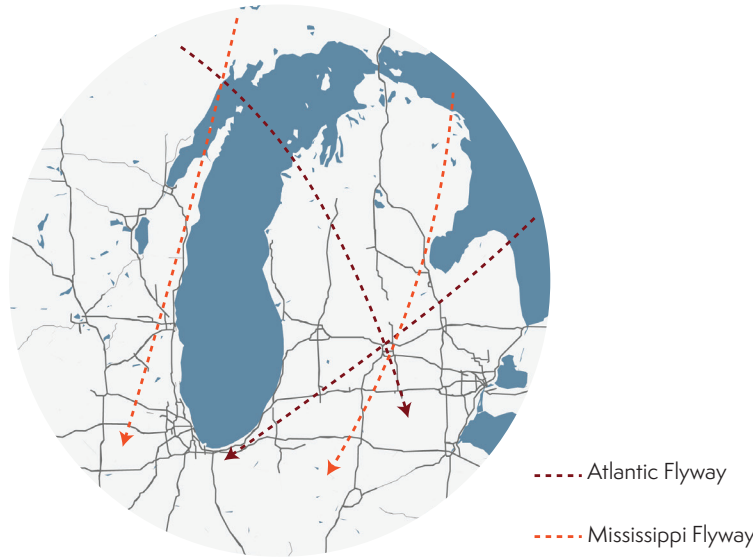


Front Entry and Community Garden Sketches

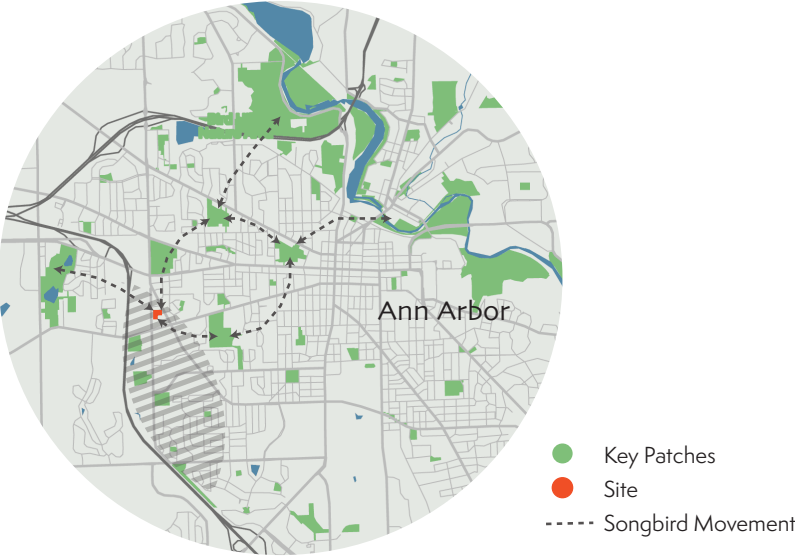


Winter Wind and Seasonal Shadow Analysis

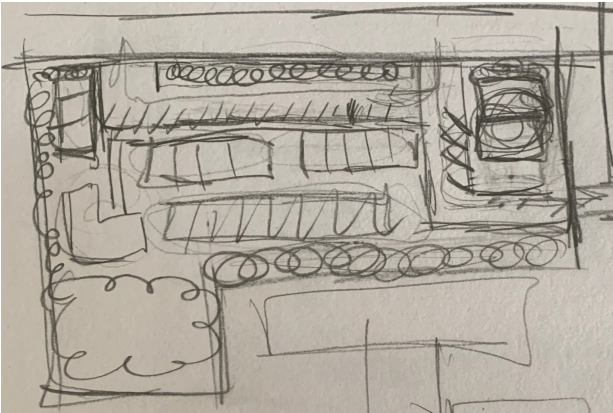
Regional and Immediate Context



Migratory bird flight paths



Songbird movement across Ann Arbor Landscape Matrix

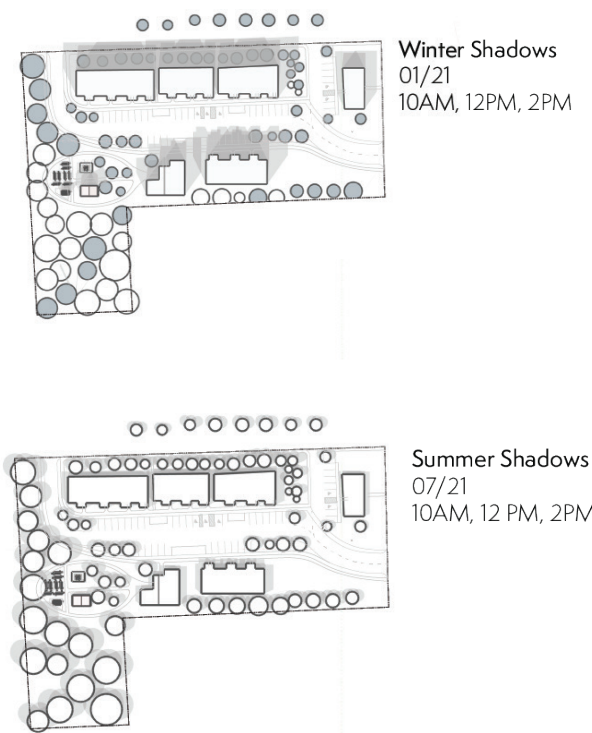
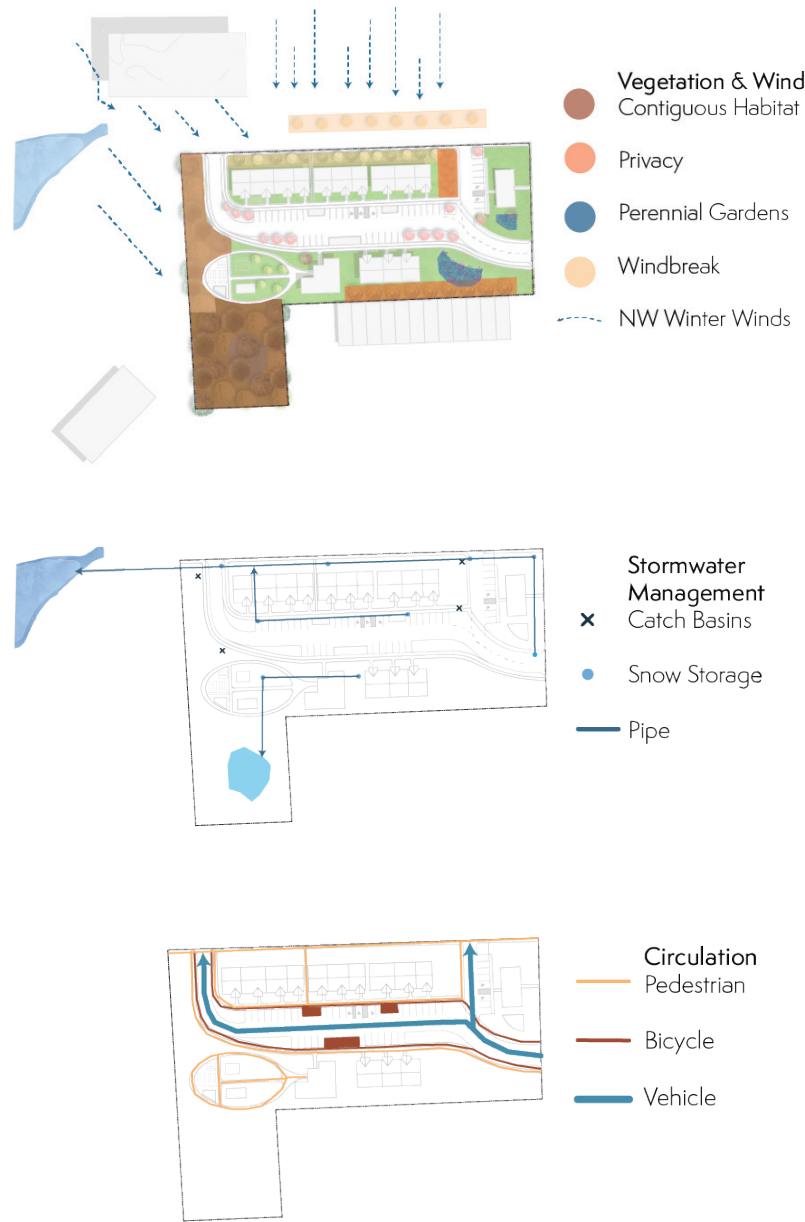


Initial Design Concept



Ecological Design

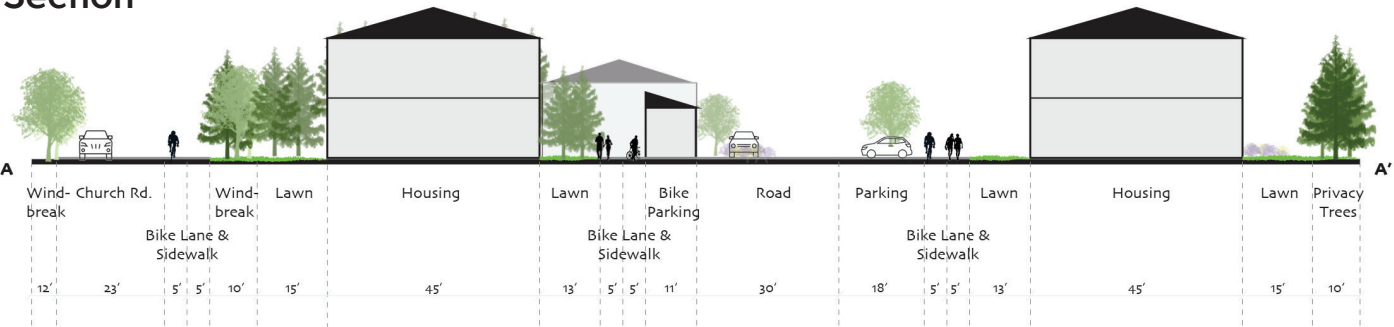
Site Analysis



Site Plan



Section





Credit to Audeline Kurniawan

04

ULI Hines Competition: Synovial City

Date: Spring 2021

Location: Kansas City, MO

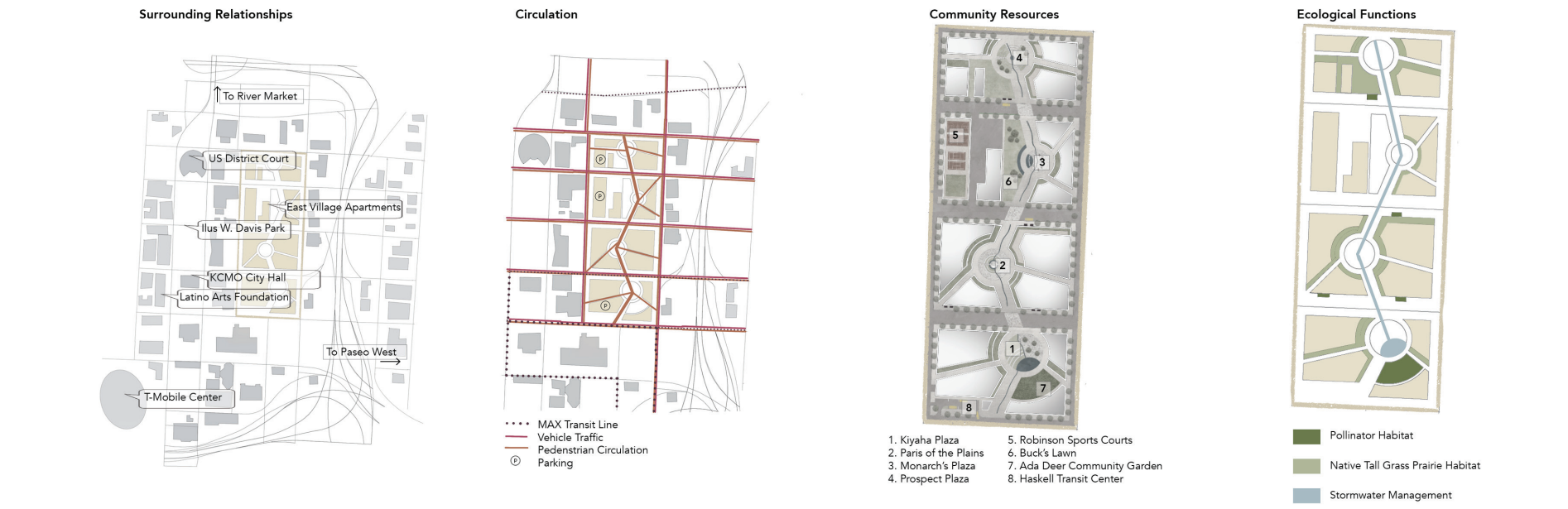
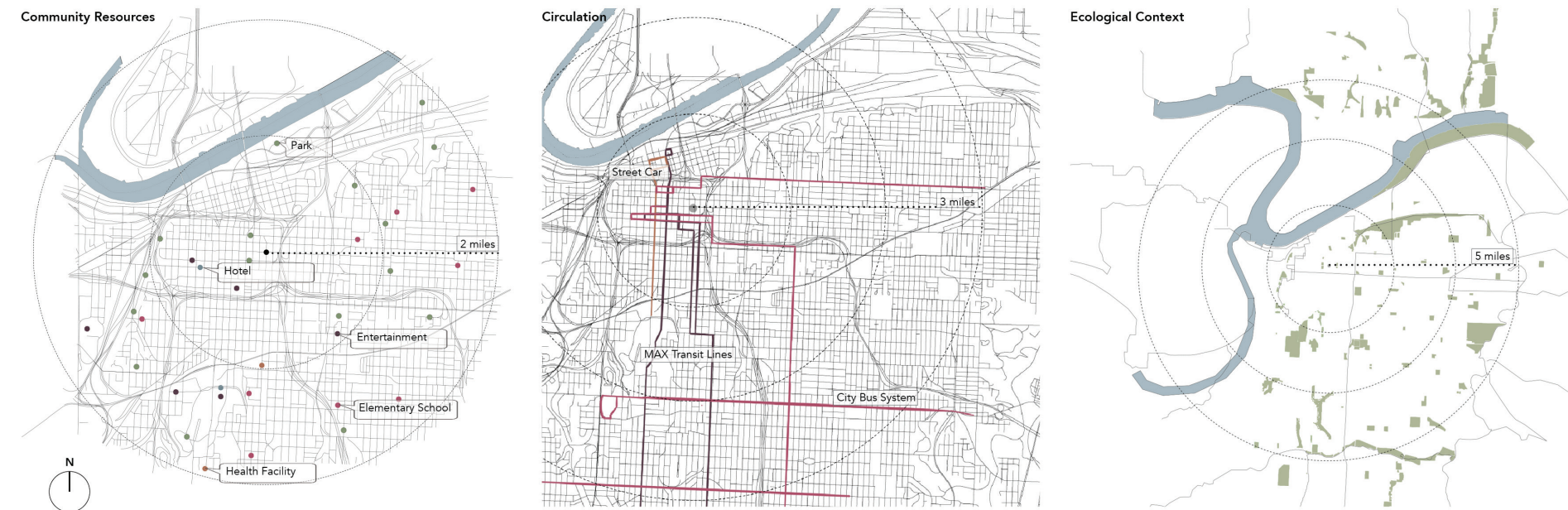
Programs Used: ArcGIS, AutoCAD, Illustrator, Photoshop, InDesign, Procreate, Google Earth Pro

Group Work

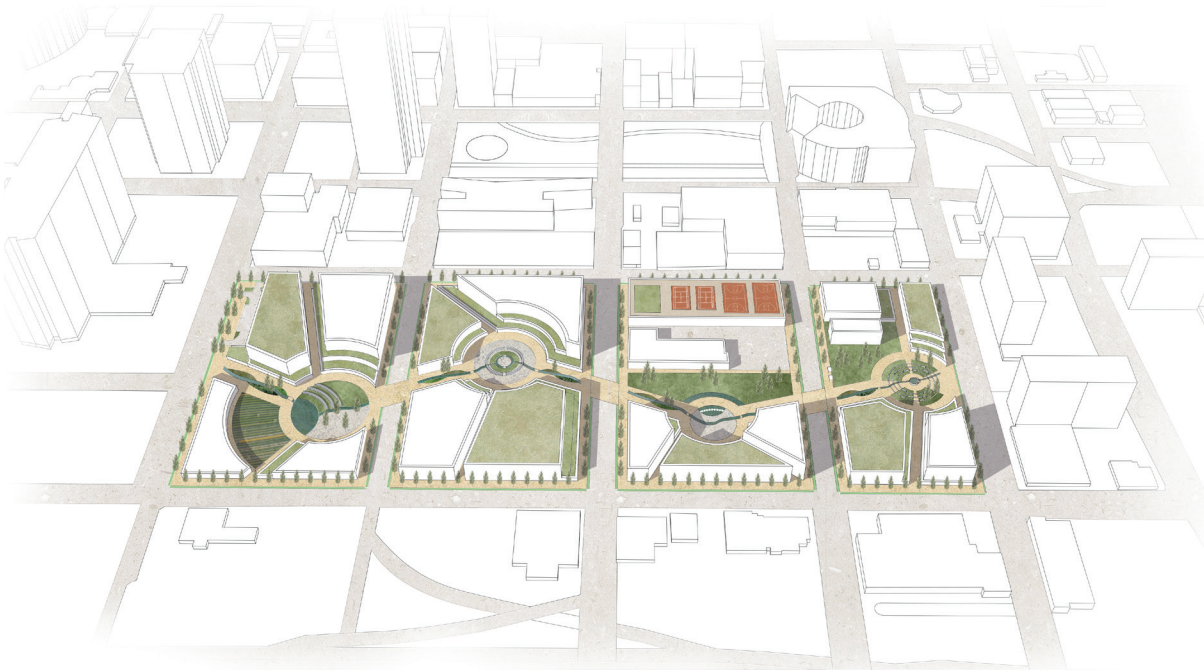
Synovial City is all about creating stronger and deeper connections within the study site and across Kansas City. Our solution to the “atrophying” nature of many downtown areas is to both honor the city’s rich cultural history and revitalize the site with programming to facilitate enhanced connections and equity in four main areas - transportation, economic, cultural, and environmental. Additionally, the development serves as a joint, or connection point, between the trendy neighborhoods to the west and the historically under served areas to the east. A main transportation hub along 12th Street will bolster these connections through the MAX bus rapid transit system. A free public charter school, neighborhood health center, and affordable housing are implemented to boost economic security for individuals, families, and youth. Environmental connections are strengthened through educational programming and play structures harkening to local species of the Missouri region, green roofs and pollinator-friendly Tall Grass Prairie patches to honor this region’s ecological history, as well as an innovative stormwater management design which weaves through the site following the natural sinuosity of a river’s form. Through these major interventions, KCMO can truly become a smoothly functioning, lively, and interconnected Synovial City.

Urban Design

Regional and Immediate Context

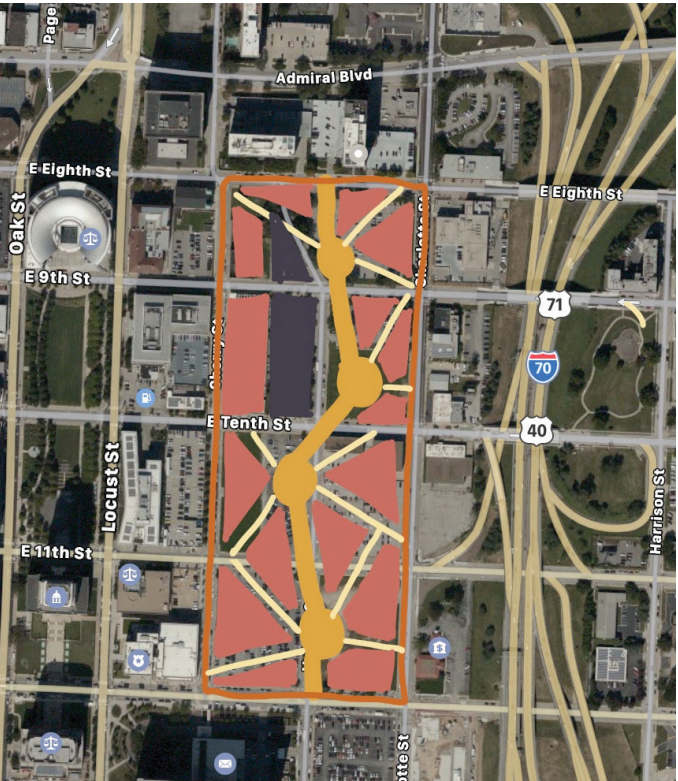


Site Plan

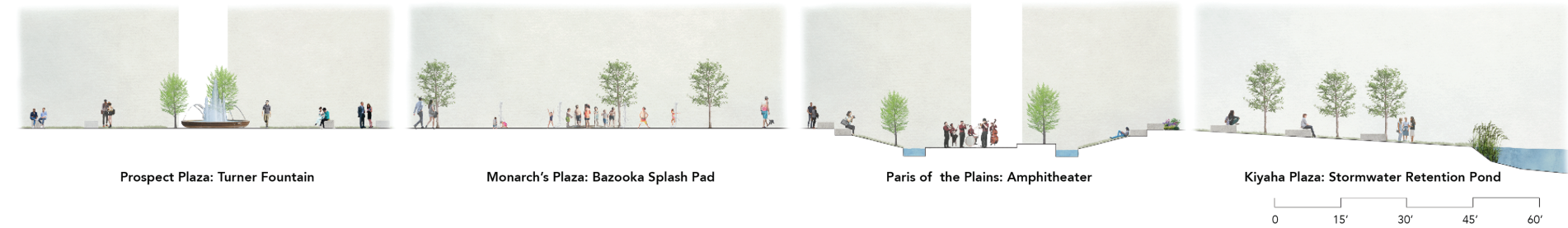


Credit to Sharni Smith

Initial Design Concept



Site Programming



THANK YOU

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