



Formless

Tyler Richburg Graduate Thesis Master of Landscape Architecture Auburn University









INTRODUCTION

My thesis did not start with the idea of the formless, it was the result of a process. As a result, this thesis book is as much of a demonstration into me finding the Formless, just as the projects in this book are seeking too in regards to landscape architecture. The formless as defined throughout is not anti-form, as all things created are manifested in form, but as dynamic processes of the landscape, such as: plant succession and people moving through a site.

This thesis looks at a designer's dialogue, or call and response approach, to design with these processes to continually shape space over time. This book is a chronological timeline of the process that unfolded to discover the Formless in landscape architecture. This investigation stemmed from an initial investigation into form generation in design, beyond my traditional approach, euclidian geometry, as well as reading work from Julian Raxworthy's Ph.D. thesis of landscape architecture about process discourse and work from the architectural experimentation lab known as Formlessfinder.

This idea of Formless seeks to push the envelope in regards to the role of a landscape architect. Instead of just designing a space to evolve over time, and then walking away from it, there seeks to be an active engagement, that facilitates that change over time, as the change is occurring, through a dialogue with the processes that shape the spaces in which we live.

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STREAM RESTORATION

My journey began by trying to unpack the process of stream restoration and how the form of most projects is driven by an in depti study of surrounding streams, and a mimicking those found to be successful streams, within the new project. I wanted to investigate now as a designer, there was a role that could be celebrated in this process, as to not only design something to appear as natural, but celebrate the profession of landscape architecture.

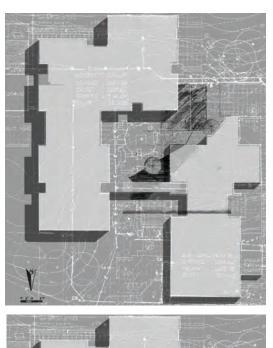




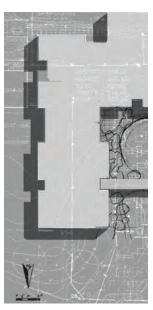
FORM MAKING

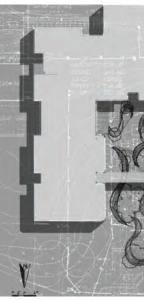
In response to my previous explorations, I began process drawings that were focused on giving form to the space, withou using the rigid, geometric framework, of the surrounding building. Although they came across as arbitrary and did not achieve what I was trying to accomplish, and did not offer any new knowledge. I was drawing, without really knowing what I was trying to discover through these drawings.





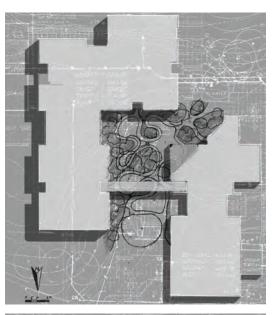














case study: BERLIN BLOCK

The Berlin Block, created by Gustav Lange, in Hamburg, was a perfectly square limestone cube that then had a controlled, slow, drip of water. This form was used to highlight the process of decay and degradation. As well as allowing the process of degradation to set up a new set of conditions with cracks and crevices, holding pockets of decomposed limestone, and catching soil and seeds, fostering growth of mosses and ferns. This project set up an initial set of conditions and set a process in motion and let it unfold.





1 Gustav Lange

case study: RIVERBED



2 Olafur Eliasson

This art installation entitled 'Riverbed', by Olafur Eliasson at the Louisiana Museum of Modern Art, in Denmark, has had a profound impact on my exploration into the Formless since the onset. This was one of the first pieces I saw that really struck me in regards to a fluid and dynamic process, and its ability to be made legible against a baseline, that of the stark white walls of the museum.

In an interview on this piece, Eliasson states that although these conditions are man made, there is an unexpected nature about it, that changes each time he visits. These uncertainties allow a process that was set in motion, by the designer, to remain in motion, and through interactions by Eliasson, and patrons of the museum, the course of the water may be altered, and your experience in the space may change. As the forces acting upon it change, and shape the space and environment, your experience and engagement will change as well.

This is something I clung to in regards to the life of a project being given a new life daily, as the processes of the space determine much more than the original installation could have accounted for.

case study: FORMLESSFINDER



3 Formlessfinder

Formlessfinder is an experimental laboratory oriented towards the moments of formlessness in architecture. A statement by formlessfinder, "we embrace the raw, the unprocessed, the unstable, the ephemeral, and the degradable," helped me arrive at the decision to engage with the process of plant succession within my thesis, because of it's ephemerality, and the ability to engage with a process that is unstable, uncertain, and ephemeral.

Formlessfinder seeks to foster a new form of interaction and engagement with space, and not only offers new understandings of space and material, but of collectivity and social experience. These are pieces that I sought to achieve through my interpretation of the formless in landscape architecture. By offering a dynamic process that could be manipulated, and responded to, offering a new set of conditions that change the way the space is perceived, and engaged with, throughout the life of the space. In contrast to maintaining a process in a given state, and having a repeat experience.

THE PERSON LECTURE PERSONNEL PROPERTY PRO

PROCESS

After analyzing case studies, and evaluating my previous process drawings, I began to create diagrams that sought to highlight process within the Dudley Hall courtyard, and how those may be captured, harnessed, or brought to light. Expanding beyond the process of people moving through the site, but other processes, such as wind and light.



case study: ECO INVENTORY

4 Murilo Melo

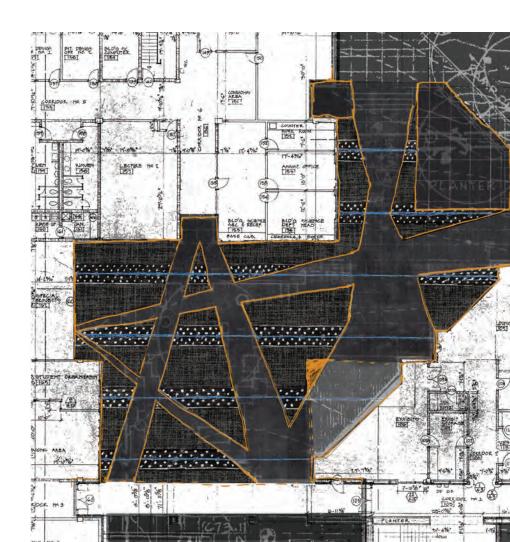
This diagram representing an ecological inventory by Murilo Melo for the WWF (World Wide Fund for Nature) looks at one tree in Brazil and graphically depicts an ecological inventory of a tree and its greater impacts. When I began to explore the notion of plant succession as a process to unpack within a space, this graphic became a tool that allowed me to think of a process as having an inventory component, and allowing that to be a gateway into a designer's dialogue with process. This fed into my first design approach of the Dudley courtyard, detailed next.



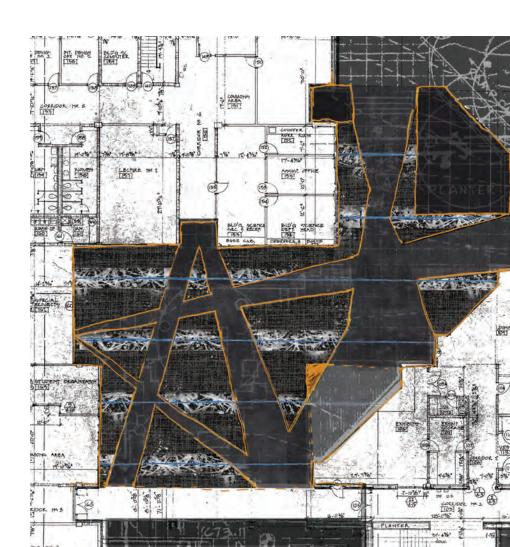
SITE SELECTION

The site selection for this thesis is the College of Architecture, Design, and Construction building at Auburn University, Dudley Hall. The first design test included the courtyard area surrounded in red, with later iterations extruding to the north and south of the area. This site was selected due to the phased approach throughout each intervention, which corresponded with the timeline of most university students. The ability for students to be involved in the initial investigations, be here for a few years of plant growth and process, and also being there to see the designer's response to process.

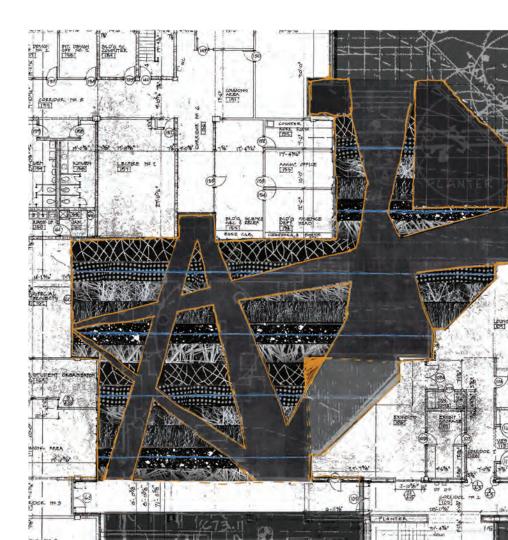
I began in this first design by expanding upon my previous study of pedestrian paths of movement through the site. This was based on a prediction from witnessing the way the site is traversed currently, as well as speculation of future desire lines upon completion of the ongoing renovation. I then gave a hierarchy to the process, by making the paths with the highest predicted pedestrian paths the biggest. This created forms, that were then filled with structural soil topped with gravel. The blue line indicates a fencerow that was installed in the beds, and a painted line across the walkway, to act as a baseline throughout the phases to judge process and progress. The swath along each fencerow was planted with a pre selected plant pallet of native plants, and seeded with another select group of native plants.



Due to the call and response nature of this thesis exploration, there is a time to leave a process, or processes, and allow them to unfold. This plan shows where the plants that were planted, and seeded, begin to grow and respond to their conditions. All the while also affording the opportunity for the unexpected to occur, such as birds utilizing the fencerows to perch, and dropping seeds outside the initial plant pallet.

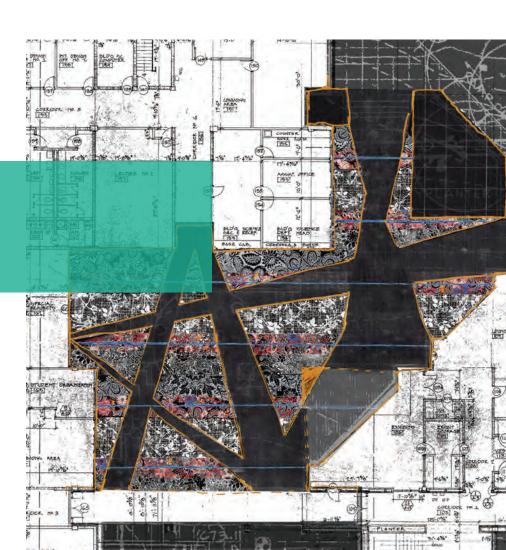


The third phase of this design scheme, speaks to my response as a designer. This is where the dialogue between myself and process begins to take shape. I took a process inventory of the system by removing all of the plants and placing them in individual striations creating a new set of conditions, that otherwise would not have occurred. These new conditions will be left to unfold over the next phase.



The final phase of this installation depicts the growth and spreading of plants within these new communities and a revelation process occurs, of the nuances of these conditions, that were made possible by a direct, and intentional move by the designer, myself.

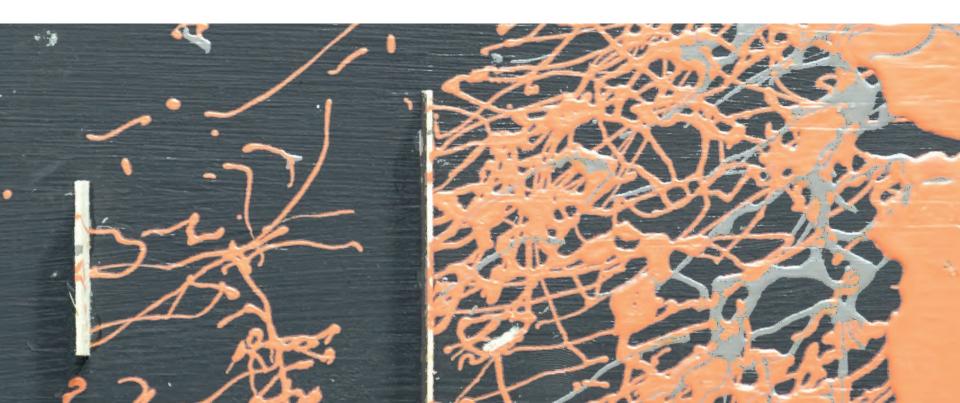
This was a good first pass at a design dialogue over time. However, there were some constraints to this, such as predicting the paths of people, and giving that a hierarchy, instead of allowing that process to give itself hierarchy and form. As a result of that, the process of plant succession was confined to a given form, instead of being allowed to emerge on its owr





DRIZZLE

Although there were eight individual interpretations of pouring paint, there were three that really drove my final compilation piece. The first painting portrays a series of walls and then a small and steady stream of grey paint, at normal viscosity, was drizzled it in front of a box fan, allowing the process of wind to disperse the paint. I then repeated the process with the orange paint, allowing the paint to build up along the wall and create layers, while also creating voids and spaces behind the walls.



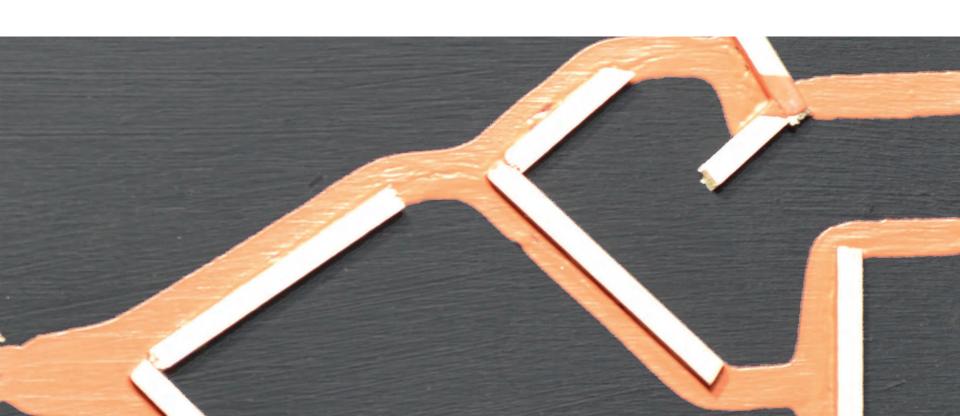
DROP

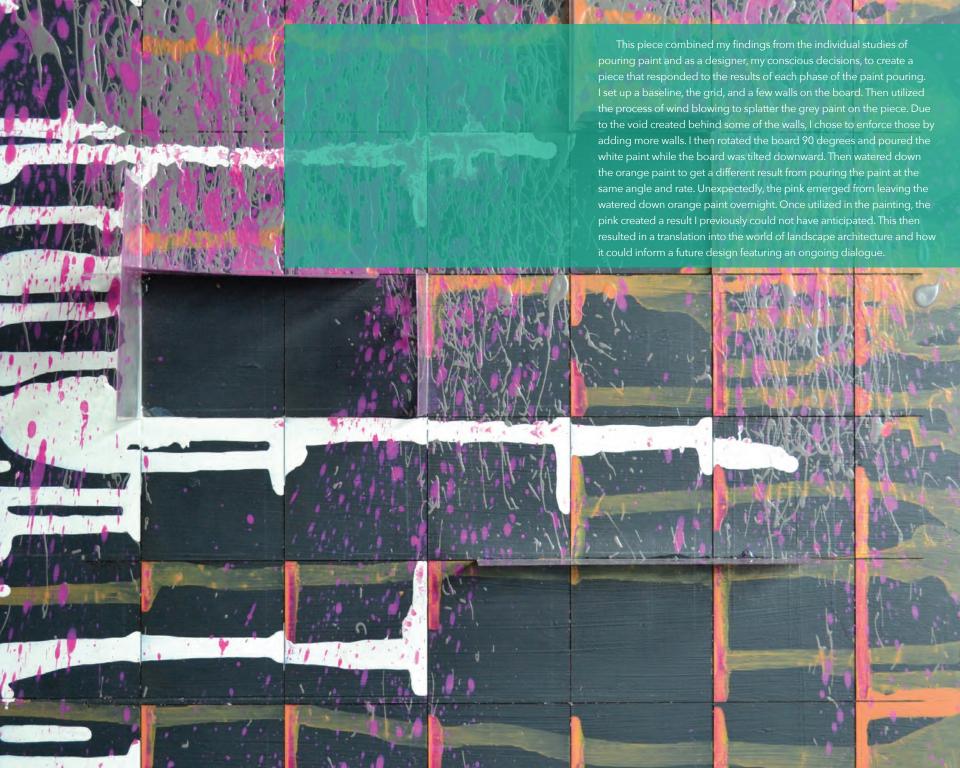
This piece involved dropping a tennis ball covered in grey paint from three feet high, creating a splatter pattern, due to the process of gravity. This was then repeated with another ball covered in orange paint, before dropping the ball covered in grey paint a second time. This created a layered effect, concealing and revealing portions of the two different paint colors. It also created intricate patterns completely different in nature from the drizzle approach.



DRAIN

The third piece looked at diversion and aggregation. I achieved this by watering down the paint and slightly tilting the board at a downward angle and pouring the paint, allowing the pre-placed walls to divert the paint, and conceivably fill up in the other inverted spaces. However, what was interested was the fact the paint did not fill up in the spaces as I had anticipated. And although this was not as I had planned, it was still beneficial, as it gave me a way to talk about the unexpected. This unplanned result was a representation of a process unfolding, and responding to a set of conditions in its own way.











TEST 02

Upon completion of the paint piece, I began to explore Dudley Courtyard again. First I created an 8'x8' concrete unit system, with voids of gravel, all covering a structural soil suitable for plant growth. The size was determined because of its ability to be an occupiable space on its own, or part of a larger space. The upper and lower portions show each horizontal row to be a 6" step, to accommodate the topography of the site. The ramp allows the middle portion to remain flat. This was then seeded with a pre selected plant pallet of 6 plants, which grew where people were not walking, and where specific conditions were suitable for each plant.

PHASE 01

This initial phase shows the paver system at installation, with no plants actually planted. This is the phase in which uniform seeding of the plant mixture occurs. And then left for the process of plants to grow and emerge, and respond to the other processes that are impacting this site.



This shows the second phase, and people moving through the predicted corridors of the site, because they are not predetermined as before. The plant communities then begin to occupy the spaces people are not walking. This initial growth would consist of grasses, and small shrubs and trees that stay within the straight lines of the gravel beds.



Phase three highlights the my first engagement as a designer, and it is only a subtle move of orienting the pavers of the most used pedestrian path, from the top of the ramp, to the main entrance to Dudley Hall. While the remainder of the plants are left to grow and spread as conditions and processes allow.



This plan shows my decision to reinforce the plant community adjacent to a major corridor running north and south, that I predicted to have little traffic, which would result a large plant emergence. I did so by bringing in fill soil, and elevating that plane to create a patio space, and then replanting the plants that were there originally, to provide shade for the space.



The final phase shows again, a continual growth of the plants, and plant communities, while my engagement here is similar to what I did previously, but in the lower portion of the courtyard, below the ramp. And creating a grid of the trees that were growing here, and another flat space, through infill, in which people could gather.





PLANT PROFILES

This is the list of plants I selected for the initial seeding of my final design investigation. I limited the list to a small sample of the Piedmont region, 6 plants. This was to showcase the micro-climates, and not be confused as to which plants grow where. I also broke them up into 2 plants for early, mid, and late succession phases each. This ensures a seed bank that will extend beyond the initial conditions of the site.

ANDROPOGON VIRGINICUS

Commonly known as broomsedge, it is an early successional clumping grass that is very prevalent in the piedmont region and is one of the first plants to show up after a disturbance, or a field is left fallow. It grows up to about 3 feet tall, and is a golden brown. It is widely dispersed throughout the region by wind.

5 Andrey Eremin



BETULA NIGRA

River birch as its referred is an early succession tree that fascinates me. It has an exfoliating bark that provides a year around aesthetic appeal, and the light green foliage that produces a filtered shade on the ground is nice, especially in the hot Alabama summers. They can also grow in upwards of 50' if the conditions are favorable, often having multiple trunks.



NYSSA SYLVATICA

Black Gum is a mid succession tree that grows anywhere from 30-50' tall, yet takes a while to reach that height, as it is slow growing. It is noted, and chosen, for its incredible fall color ranging from scarlet to orange to yellow, and its dark purple fruit as well as offering shade relief during summer, and sun in the winter, once the leaves have dropped .

6 L. H. Bailey Standard Cyclopedia of Horticulture

ACER RUBRUM

Specifically, Acer Ruburm 'Autumn Flame' was chosen as the second mid successional tree to be seeded on site. It is also another deciduous tree dropping its gorgeous, and vibrant, red fall foliage, once winter comes. It is also an excellent shade tree as well. Also, due to the large number of seeds it produces, it is a major bird and squirrel attractant.

7 Nguyen Thai





Eastern Redbud is a small, late succession understory tree. Given the right conditions, it only grows 15-30' tall. It has a yellow fall color, but is most known for its pink, purple, or fuchsia buds that occur in early spring. Before the tree ever buds out, its stems are covered in blooms, making it stand out against most of its surroundings that time of year.



CORNUS FLORIDA

Flowering Dogwood, like the redbud, is a small, understory, late succession tree, growing under the shade of the larger surrounding trees. It has the same growth habit as the redbud, at 15-30′ tall. It is known for its early spring blooms that are often a pure white, and usually signal Easter is near. It is also known for having distinct red berries.

8 Eaton, M.E.





TEST 03

After exploring plant succession, and selecting a plant pallet to work with, I began to explore Dudley Courtyard again. I chose to keep the 8'x8' concrete unit system, with voids of gravel, with a structural soil throughout, suitable for plant growth. This was then seeded with a pre selected plant pallet of 6 native plants.

THIRD PHASE MUSIC (FUTURE)

PHASE 01

The first phase shows the initial installation of the unit system. This is where the seed mixture is combined with sand, in order to get an even distribution across the entire site. Allowing the processes of people, sun/shade, water, and animals to determine where plants will emerge and how people will engage the site.















CRITICAL ANALYSIS

While this final design came close to pulling all the pieces together in the journey to find the Formless. When I began to evaluate this final test, and see what should be done moving forward, it became clear that this is much more difficult than I imagined it to be at the onset. Although this design test sought to depict the process of plant succession in response to people walking through the site, wind, and sunlight, there are still so many factors and processes that simply could not be accounted for.

Another critique I have of my design is the plan view graphics. They depict the plants, such as the andropogon and other emerging plants, as a field. This works diagramatically; however, this approach also renders half of the walkways covered, which would not be the case. Although the edges may be blurred in some instances, as the plants creep, or sway over the edge, they will not inhibit walking, or dwelling, as depicted in the plans.

Moving forward, I would explore more rendering approaches, because by nature of drawing, or creating, you are giving form to what I am trying to engage with, the formless. This creates an obstacle in translation, as depicting process is something that I don't think this thesis has mastered. Although my approach becomes more successful as the design tests move forward, by becoming more loose, and dynamic, such as the processes themselves are by nature.

Further investigation into the design revealed another shortcoming, which is the actual designer's dialogue, or engagement, that occurs. I did not clearly articulate, or define, the nature of the designer's role, and it comes across as arbitrary. This could be explored further by creating a set of criteria by which to judge whether a design decision, or engagement, should be made. I think this could also be expanded upon by the creation of more graphics, and phases, allowing there to be a depiction of more moments, and dialogue, instead of depicting such large scale moves from phase to phase.







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