



Option Studio Design/Build Parklet  
Spring 2022

# ARCHITECTURE STUDIO IV

## PARKLET DESIGN/BUILD

### STUDIO AIMS AND OUTPUT

We believe that designing, making, and thinking are inextricably, indelibly, and inescapably linked. As architects there is no greater tool for learning than to build the structures we design. Whether this process stokes the flames of passion for an already avid builder, ignites a desire to continue building at a 1:1 scale, or it simply becomes an experience that gives you (the future architect) an insight into construction processes; in any case this will be an unforgettable and invaluable piece of your education. Whatever background or experience level you bring to the table, at the end of the semester you will have built a structure of your (collective) design and realize the thrill of walking into a physical space that began its life as squiggle on the page.

This studio is rooted in Newark – the community in which you are planted for the duration of your undergraduate tenure. We believe that architects have a responsibility and a duty to participate in and serve the community that they are a part of. At least for now, this is your community.

In the wake of the COVID-19 Pandemic, we have a newfound appreciation and understanding of public vs. private space, and the value of being outdoors. However, in our growing cities and communities, the edges between crowded sidewalks, hectic bike lanes and busy streets have become blurred, with the pedestrian, the cyclist, and the automobile vying for their rightful place. This studio will operate at the intersection (quite literally) of this blurred boundary. We will examine, explore, design and build at the confluence of these forces.

In this studio, the students will work as a group to design and build a “parklet” in one of Newark’s outer wards. The “parklet” will be explored as a re-appropriation of a parking space (9’x18’) for use by the public, as an extension of the sidewalk. The parklet will be fabricated at NJIT, and will be designed to be easily disassembled, transported, and reassembled downtown in its final home.

The product of the studio will be a proposal that challenges the students to think at a range of scales and spheres of influence: from the details of materials, connections, and construction sequencing to the urban scale implications of their proposal, and global spheres of influence that affect the historical, social, and economic spheres within which their project will operate.

# ARCHITECTURE STUDIO IV

ARCH 296 - ARCHITECTURE STUDIO IV

Spring 2024

Studios meet M/Th 1:00-5:20pm

## Coordinators

Erin Pellegrino  
pellegr@njit.edu

Charlie Firestone  
cmf38@njit.edu

Joe Berlinghieri  
jmb232@njit.edu

Office Hours: Virtual Office Hours by appointment  
Grading: The American Letter System, from A to F.  
Delivery Format: In-Person

## I. RATIONALE:

In this studio we will be designing and building a unique structure for a specific area of Newark, based on a deep study and understanding of the needs of the residents and visitors to that area as well as the limitations and possibilities presented by the design/build model and the unique site.

## II. COURSE AIMS AND OBJECTIVES:

### Aims

In this studio we will be considering every detail of the structure. We will be working as a team to design and construct the best structure we can within the restrictions we have. By the end of the semester we should be able to walk into a structure that we built with the satisfaction of a job well done, the confidence to design and build more, and all the urgency and excitement that we will need to tackle the challenges of the future.

### Specific Learning Objectives:

- Analytical and critical thinking skills (organization of information)
- Graphics skills (visually communicating ideas, systems, process, and program)
- Fundamental design skills (ordering systems, generative use of diagrams)
- Conceptual thinking
- Model making techniques (communication of ideas through precise physical models and digital models)
- Collaborative skills
- Community Engagement techniques

## III. FORMAT, PROCEDURES:

The studio is a ferment of activity, a cauldron of common purpose, where as much is learned from each other as from your professors. Grading is based on how willing you are to release the talents within you, your commitment to the continually iterative prototyping process of concept development and design execution, your contribution to the intellectual and practical well-being of the class and understanding the importance of camaraderie - AKA mutual support and teamwork. In addition to the roadmap of where We, The Studio is going, each assignment will be based upon the accomplishment of the previous. Goad-sticks and carrots will be deployed in equal measure, to maximize productivity while optimizing school-fee VFM. Tuition (in-state) at NJIT is 17,674 USD. You are paying somewhere around 500/class. If you don't give your all, you're squandering this value.

### GRADE DEFINITIONS:

<https://www.njit.edu/registrar/policies/grading.php>

In addition to the NJIT's grading standard students at the CoAD must have a yearly 2.0 minimum studio GPA to proceed to the next studio year.

**GRADING KEY:**

|                          |     |
|--------------------------|-----|
| 01_Research              | 10% |
| 02_Model Bonanza         | 10% |
| 03_Groups of 3           | 20% |
| 04_Groups of 5 (Midterm) | 20% |
| 05_Pre-Construction      | 15% |
| 06_Construction          | 25% |

**DELIVERY MODE:** In-Person

#### IV. STUDIO CULTURE:

For a studio to be a successful experience for student and teacher alike, an atmosphere of mutual trust must be established. The key to this, we believe, is the establishment of open communication at the outset of each studio and the recognition by all parties of a set of core principles that describe the studio experience: professionalism, collegiality, and solidarity.

**While this semester guarantees nothing but to be unpredictable, you can expect from us the following:**

We will push you to move out of your comfort zone, to see the world around you differently, and to hone your craft and communication as young architects in both analog and digital methods. We will do all we can to work with each of you on your individual strengths and weaknesses, as well as to foster a collective dialog within our studio around the issues we face within this studio and as architects within the world.

**We expect from each of you, the following:**

to be on time,  
to work hard,  
to work independently and collaboratively,  
to ask questions,  
to participate,  
to critique one another constructively,  
to and push yourself to get better with each doodle, sketch, diagram, drawing, and model.

Finally, your health, safety, and well-being matters, as does ours. This is our studio, our space, and our semester together. We must be hyper-respectful and acutely aware of one another and everyone's unique circumstances. This is a stressful time, and it will likely just get worse as the semester continues to unfold. The hope is that our work will be a welcome distraction for anxious minds and idle hands; however, when appropriate, please communicate with us your needs and struggles so we can be sure that you can be the best possible student and best possible human you can. This is particularly important when it pertains to absences and deliverables. We will endeavor to be as flexible as possible, and will ask for your understanding as well as we all navigate this time.

For the full NJIT HCAD studio policy please see [link to Kepler](#).

#### V. OUR ASSUMPTIONS

Ideas are the fleeting opioid of design. It is the messy, conversational magic of prototyping and finish work that gets an idea to the point where others can understand the ideas within you. Did we say the word Craft? Well, not exactly, but without having a nose for it, and an elbow to set it in motion, not much of consequence gets done.

#### VI. REQUIREMENTS

**1. Class attendance and participation policy:**

To be late to a group (or leaving early) is tantamount to stealing time from your fellow students. To remain silent leaves your colleagues in a state of perpetual wonder as to what you are really thinking about, and it mucks up the rapport and purpose of open communication and discussion. Punctuality, politesse—perhaps even wit—and saying anything in public and being ready to listen to an opposing points-of-views lie at the core of developing mental acuity.

That being said, studio is a group-based learning experience. Your absence both from class and from the working hours outside class time within studio is a detriment to yourself, and the group as a whole. In summation: Do not abandon the flock and the flock will not abandon you.

**2. Course readings/listenings/media/musings:**

To be distributed throughout the semester as we deem necessary.

## VII. SCHEDULE:

Week 01 - Jan. 18

Th - Studio Intro & Contracts, Research Assigned, **Research/Precedent Lecture**

Week 02 - Jan. 22 & 25

M - Research Working Day

Th - **Site Visit**

Week 03 - Jan. 29 & Feb 1

M - **A01 - Research Pinup**, **Model Lecture**, Model Bonanza Assigned

Th - Model Bonanza Working Day

Week 04 - Feb. 5 & 8

M - **A02 - Model Bonanza**, **Concept Development Lecture**, Group of 3 Assigned

Th - Groups of 3 Working Day

Week 05 - Feb. 12 & 15

M - Groups of 3 Working Day, **Artist Presentations**

Th - Groups of 3 Working Day

Week 06 - Feb. 19 & 22

M - **A03 - Groups of 3 Review**, **Team Dynamics Lecture**, Midterm Assigned

Th - Midterm Working Day

Week 07 - Feb. 26 & 29

M - Midterm Working Day/Pin-up, **Presentation Lecture**

Th - Midterm Working Day

Week 08 - March 4 & 7

M - **A04 - Midterm Review**, **Client Review**

Th - **Design/Build Lecture**, **AMA**, Design Refinement

----- **SPRING BREAK** -----

Week 09 - March 18 & 21

M - Design Refinement

Th - Design Refinement

Week 10 - March 25 & 28

M - **Pre-Construction Review**, **Construction Safety Intro**

Th - Construction Prep

Week 11 - April 1 & 4

M - Construction

Th - Construction

Week 12 - April 8 & 11

M - Construction

Th - Construction

Week 14 - April 15 & 18

M - Construction

Th - Construction

Week 15 - April 22 & 25

M - Construction

Th - **Final Review**

## ARCHIVING STUDENTS WORK:

All students have to submit all their work for review and archiving to their instructor. Students also have to upload all final requirements for the entire semester on Kepler. Please ask your instructor for the specific format. In addition students might be asked to provide individual images, drawings, renderings or photographs of models (No composed boards – just individual images) in the “Featured Works” folder on Kepler:  
File type: pdf or jpg (260dpi, 8”/11.5” horizontal or vertical)  
File name: Student’sFirstName\_Student’sLastName.

## ATTENDANCE AND TARDINESS POLICY

**Excused Absences:** Are for medical and religious reasons or pre-approved for student-athletes only. An absence due to illness can be excused if the student has filed official documentation (licensed medical practitioner including NJIT Health Services) with the Office of the Dean of Students. The Office of the Dean of Students will, in turn, notify the instructor(s) that appropriate documentation has been received and confirmed, and detail what accommodation is warranted. These accommodations may range from identified dates for excused absences (normally for temporary illness) to extra time for projects and assignments (for ongoing medical issues).

**Unexcused Absences:** Students will be penalized half a grade for each absence after three unexcused absences. The instructor is under no obligation to repeat any missed information or provide access to lecture notes or presentation materials to students who arrive late. Yet it remains the responsibility of the student to learn the material presented.  
[Attendance Policy for Undergraduate Students.](#)

## ACADEMIC INTEGRITY

Academic integrity and honesty are of paramount importance. Cheating and plagiarism will not be tolerated. The NJIT Honor Code will be upheld, and any violations will be brought to the immediate attention of the Dean of Students. All students are responsible for upholding the integrity of NJIT by reporting any violation of academic integrity to the Office of the Dean of Students. The identity of the student filing the report will remain anonymous. All students are expected to adhere to the University Code on Academic Integrity and to the Code of Student Conduct.  
[Dean of Students](#) | [Academic Integrity](#) | [Student Conduct](#)

## PLAGIARISM

It is extremely important that students familiarize themselves with a proper way to cite visual and intellectual sources. Plagiarism whether deliberate or inadvertent simply cannot be tolerated. Simply put, plagiarism is the use of visual or intellectual material created by others without proper attribution. Even the use of one’s own material for more than one assignment can also be considered plagiarism. Students should not do so without the expressed consent of all instructors involved. Our librarian Maya Gervits has assembled [excellent resources on copyright, citing, and avoiding plagiarism.](#)

## STUDENTS WITH DISABILITIES

It is the school’s moral, ethical, and legal obligation to provide appropriate accommodations for all students with physical and/or learning disabilities. If students need an accommodation related to disabilities, all official documentation must be filed with the Dean of Students and the Disability Support Service Office. It is the responsibility of the student to notify the instructor at the beginning of the semester if accommodations are warranted.  
[Disability Support Service](#)

## NAAB STUDIO REQs

The National Architectural Accrediting Board accredits NJIT's architecture program. The NAAB has Program and Student Criteria that must be covered by any architectural curriculum to attain their approval. This course satisfies the following criteria:

**PC.2 Design**—How the program instills in students the role of the design process in shaping the built environment and conveys the methods by which design processes integrate multiple factors, in different settings and scales of development, from buildings to cities.

**PC.3 Ecological Knowledge and Responsibility**—How the program instills in students a holistic understanding of the dynamic between built and natural environments, enabling future architects to mitigate climate change responsibly by leveraging ecological, advanced building performance, adaptation, and resilience principles in their work and advocacy activities.

**PC.7 Learning and Teaching Culture**—How the program fosters and ensures a positive and respectful environment that encourages optimism, respect, sharing, engagement, and innovation among its faculty, students, administration, and staff.

**PC.8 Social Equity and Inclusion**—How the program furthers and deepens students' understanding of diverse cultural and social contexts and helps them translate that understanding into built environments that equitably support and include people of different backgrounds, resources, and abilities.

**SC.1 Health, Safety, and Welfare in the Built Environment**—How the program ensures that students understand the impact of the built environment on human health, safety, and welfare at multiple scales, from buildings to cities.

**SC.3 Regulatory Context**—How the program ensures that students understand the fundamental principles of life safety, land use, and current laws and regulations that apply to buildings and sites in the United States, and the evaluative process architects use to comply with those laws and regulations as part of a project.

**SC.4 Technical Knowledge**—How the program ensures that students understand the established and emerging systems, technologies, and assemblies of building construction, and the methods and criteria architects use to assess those technologies against the design, economics, and performance objectives of projects.

**SC.5 Design Synthesis**—How the program ensures that students develop the ability to make design decisions within architectural projects while demonstrating synthesis of user requirements, regulatory requirements, site conditions, and accessible design, and consideration of the measurable environmental impacts of their design decisions



# A01 \_ RESEARCH

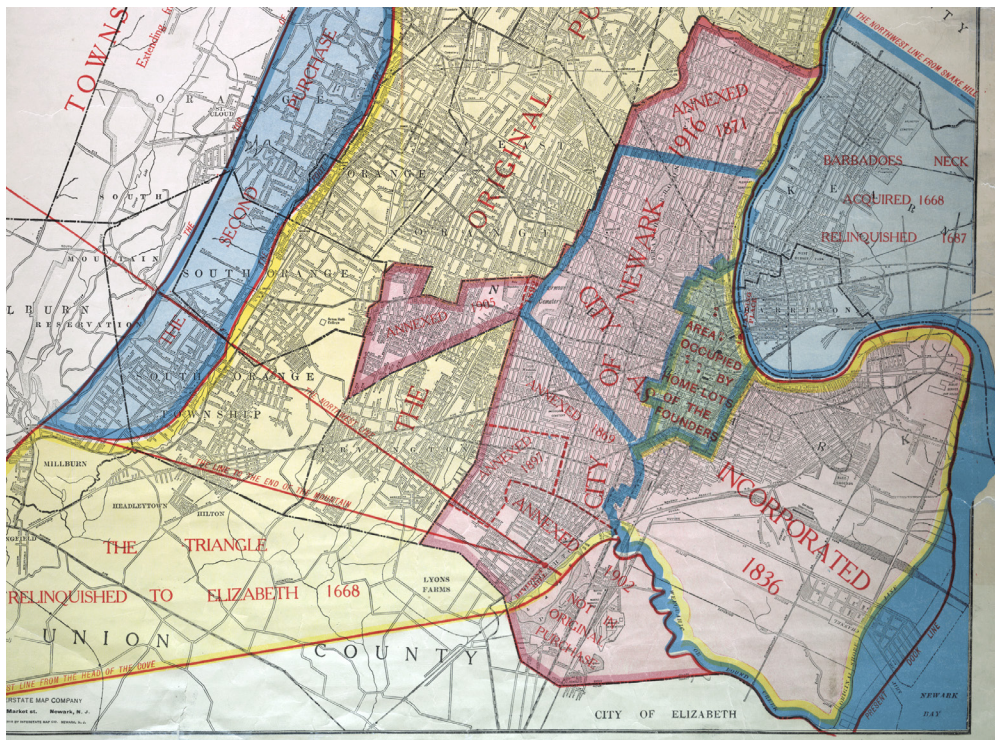


Image:  
Newark 1666 to 1916. The Changing  
Landscape of Newark, Rutgers,  
[https://mapmaker.rutgers.edu/  
NEWARK/oldNewark.html](https://mapmaker.rutgers.edu/NEWARK/oldNewark.html).  
Accessed 29 Dec. 2023.

## DESCRIPTION

While you will be assigned a specific Ward and initial first location, your parklet will otherwise be siteless. It's exact installation site will be assigned below, but keep in mind that it's location may move around within its home ward. To that end: your parklet should be informed by the context of the ward in which it resides.

Before we begin design, we must as a class answer a few basic questions about: WHAT we're doing, WHERE we're doing it, WHO we're doing it for, and HOW it's been done in the past. In order to answer these questions, you will be divided into one of (4) research groups, each with a specific agenda that aims to expand our understanding of the place, the past, the community, and/or precedents. Our research groups are as follows:

## SITES:

### NORTH WARD

TBD TBD TBD TBD  
TBD TBD TBD TBD  
TBD TBD TBD TBD  
TBD TBD TBD TBD

### SOUTH WARD

Plants and Poets  
Vegan Restaurant  
505 Clinton Ave, Newark, NJ  
07108

### EAST WARD

Five Corners Ristorante  
10 Wilson Ave, Newark, NJ  
07105

### WEST WARD

Blueberry Cafe  
Juice Bar And Vegan Grille  
547 Central Ave, Newark, NJ  
07107

## SA \_ SITE ASSETS GROUP

Your mandate is to create the physical and digital assets for interacting with the site that will give us the context we need to proceed with designing and presenting the work created during this semester. Prior to the site visit, the site assets team will also need to isolate the business district(s) as potential sites for the parklet. The site assets team will be charged with focusing on the physical characteristics of the neighborhood, specifically the potential sites of the parklet.

## DELIVERABLES:

1. SITE MODEL (1/4" = 1'-0"): Create a representative street section model to serve as your section's site model

- Model should be approximately 18"x36"
- Model should include a portion of the surrounding buildings, the sidewalk, street, and at least one corner condition
- Model should be detailed, neat, and presentation quality.
- Model cost should not exceed \$150 (to be shared between all section members, approx. \$10 per person).

2. OTHER PHYSICAL & DIGITAL ASSETS: You will be responsible for creating the digital and printed assets for your section:

- Printed maps at various scales
- Clean, vector file maps for digital use.
- (2-4) representative Street Sections (1/4" = 1'-0") digital & printed

GROUPS HC, COM, & P will each be responsible for presenting their research in (2) formats:

1. PRESENTATION: You will deliver a 10-15 minute slide-show presentation presenting your research to your classmates.
2. BOOK: You will format your research in the pre-prepared indesign template for inclusion in studio book.

## HC \_ HISTORICAL CONTEXT GROUP

To better understand the context of your ward you will need to gain an understanding of the historical context in which it resides.

**DELIVERABLES:** You will present the following deliverables in presentation & book format.

1. TIMELINE: Create a timeline of your ward's history, to help your section better understand the current physical, social, economic and political circumstances of your ward.
2. HISTORICAL MAPPING: Gather, curate and present the historical development of your ward using mapping.

## COM \_ COMMUNITY GROUP

You will be responsible for defining the "client" of the parklet and identifying their needs. What are the different types of restaurants/businesses in the area? How might their seating and other needs vary, intersect, overlap, or diverge? Who inhabits the areas you are studying? When, why and how do they inhabit these areas? What are the patterns of inhabitation of pedestrians, bikes, scooters, cars, workers, shoppers, students etc.? What are the big institutions? What is the Ward known for? What are they proud of?

**DELIVERABLES:** You will present the following deliverables in presentation & book format.

1. DOCUMENTATION & DIAGRAMS: You will address the questions outlined above using data and graphics found as part of your discovery process, as well as original documentation and diagrams. You must create a minimum of (5) original diagrams addressing the topics outlined above.
2. INTERVIEWS: As part of this process you will need to interview members of the community. These can include: council persons or other members of local government, business owners, community leaders, or other community members. Your team will be responsible for performing at least (3) interviews.

## P \_ PRECEDENTS GROUP

What is a Parklet? How has this program been addressed in the past? What are the ideal ergonomics of a parklet?

**DELIVERABLES:** You will present the following deliverables in presentation & book format.

1. PARKLET INFO & DIAGRAMS: Your presentation will include background information on what a parklet is, and the different approaches to parklets that you have found as part of your research.
2. PRECEDENTS: Using the pre-prepared Indesign Template, each person should prepare (3-4) relevant precedents to present to the class. As a team you will need to coordinate to make sure you are covering a breadth of different parklet examples. The template includes the following items:
  - Photos and Diagrams
  - Location Plan & site section showing context
  - 1/4" = 1'-0" Plan, including: scale figures & dimensions
  - 1/4" = 1'-0" Long section or elevation, including: scale figures & dimensions
  - Original sketches and diagrams exploring materiality and occupation of the parklet



# DESIGN/BUILD \_ PARKLET



Images:  
Spring 2022 Poplet Options Studio



## MANDATE

Your assignment this semester is to design and build a PARKLET for a ward of Newark. Your parklet will provide a seating area and public amenity to occupy a parking space in front of a local small business or institution from May-October. The parklet will be moved around from spot to spot each year, and so it must be able to provide for the needs of many different locations, and accommodate a variety of street conditions.

## DETAILS

**PROGRAM:** The parklet must provide seating, a barrier to traffic, planting areas, as well as shading elements. Additional programmatic elements can be incorporated. Seating and table elements should be fixed (not loose) although they may change from year to year. The parklet must conform to ADA accessibility guidelines.

**BUDGET:** Should not exceed \$5K. Students will be responsible for tracking the budget, and sticking to it.

**DIMENSIONS:** Footprint not to exceed 7.5'x18'. The parklet must be modular and easy to disassemble and reassemble. The entire demounted parklet must be able to fit in a landscaping trailer: 7'x14' with 10,000 lb payload.

**MATERIALS:** Wood and wood products are to be used as the primary construction materials. Students will be responsible for sourcing and procuring the materials of construction. Students are encouraged to seek out and source additional material donations if possible. Construction will need to be treated to withstand outdoor conditions year round in both the assembled and disassembled states.

**FABRICATION & ASSEMBLY:** Students will construct the parklet on NJIT premises, making use of the HCAD fabrication shop and design/build tools. Parklet should be designed to be easily assembled and disassembled each year by a small team of unskilled/low-skilled workers (2-5 people).

## DELIVERABLES

- (1) Built Parklet
- (1) Set of Construction Documents
- (1) Presentation explaining the design and construction process of the parklet
- (1) Project Manual for the Client showing: use, care, assembly, and disassembly
- (1) Urban Design Study

Refer to Assignments 02, 03, 04, 05 & 06 for details & intermediate deadlines.  
Final Review/Exhibition: Thursday April 25th, 2024

# A02 \_ MODEL BONANZA



Image:  
Model Bonanza, Fall 2023  
Bird Blind Options Studio

## DESCRIPTION

To start the design process, we will begin with a series of study model investigations exploring your initial ideas for the parklet. These models are intended to be quick, provocative, and conceptual.

## PHASE I

During Phase I of this investigation, you are tasked with exploring the effects of MATERIALITY on formal development. What are the unique properties of paper, chipboard, and basswood that influence the way you use these materials to create form? What operations do these materials lend themselves to? And what sorts of operations are they more resistant to?

**DUE:** (beginning of class, Thursday Feb. 1):

(3+) initial study models:

- (1+) Paper
- (1+) Chipboard
- (1+) Basswood

During Class you will be mining your models for successful and interesting formal strategies to iterate upon.

## PHASE II

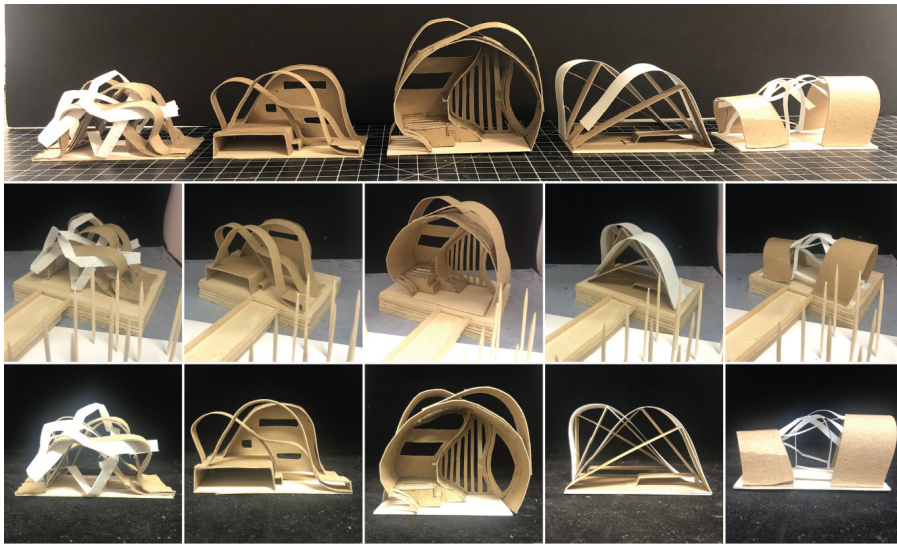
During Phase II you will develop and iterate upon the formal strategies derived from your Phase I models. Playfulness, experimentation, and risk-taking are encouraged. Use any materials of your choosing including those not listed in Phase I (foam, sticky notes, clay, wire, cloth, etc. )

**DUE** (beginning of class, Monday Feb. 5):

(5+) follow-up studies. These studies can be made of any materials or material combinations of your choosing. Document all models & submit to Canvas. Select your most interesting/successful (3) models from the total (8+) models created to submit to the MODEL BONANZA.

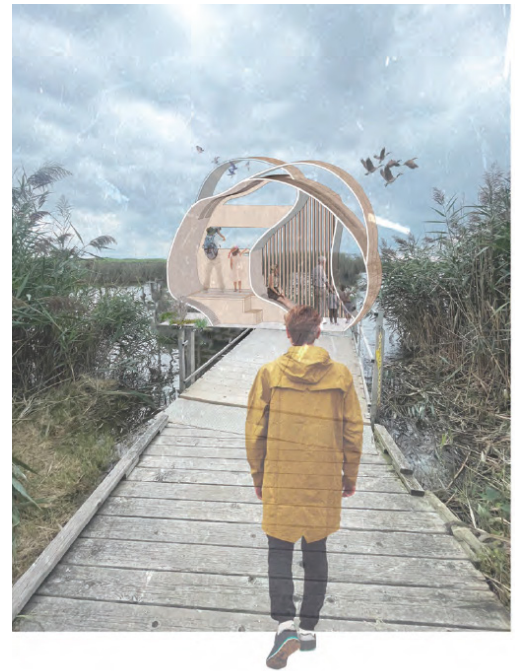


# A03 \_ GROUPS OF 3



Images:

Group of 3, Fall 2023 Bird Blind Options Studio  
Arvind Jayakanth, Oscar Villalobos, Wei Huang



## DESCRIPTION

Building upon the work from the Model Bonanza. You will take your groups' "mother models", mine them for the conceptual qualities that you find most compelling/productive, and develop a robust and imaginative proposal for a parklet to be placed in your assigned ward in Newark. You will work closely and collaboratively in your team of (3) to develop your parklet proposal as far as possible within the time allotted.

The focus of this round is **FORMAL DEVELOPMENT & CONCEPTUAL CLARITY**.

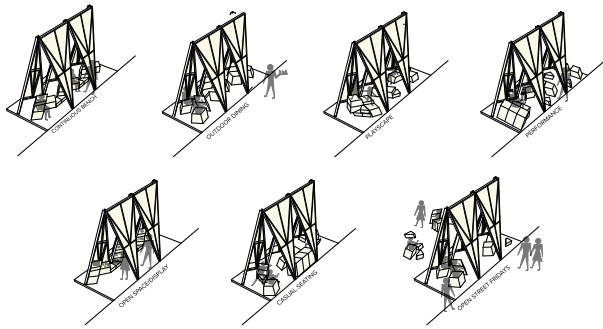
## DELIVERABLES:

1. Title & Brief description
2. Conceptual Diagrams
3. Process: Show your precedents, collages, sketches, iterations of models, drawings and group brainstorming sessions.
4. Plan(s) @  $1/4" = 1'-0"$ . Must include people & surroundings
5. Sections @  $1/4" = 1'-0"$  (1+ cross section, 1+ long section). Must include people & surroundings.
6. Axon and/or exploded axon
7. Perspectives (minimum of (2) exterior (2) interior) - can be model shots/collages. Must include people and a suggestion of the surroundings.
8. Model @  $1/4" = 1'-0"$  to fit into your section's site model.

**Deliverables** should be formatted in slideshow presentation format. Groups should be prepared to present slideshow, and have a printed presentation (11x17 format available for reference & redlining).

Please have your digital and printed presentation ready to present by: **Monday 2/19 @ 1pm.**  
Refer to Canvas for Upload requirements.

# A04 \_ GROUPS OF 5 - MIDTERM



Images:

Group of 5, Spring 2022 Parklet Options Studio



## DESCRIPTION

Working in teams of (5) develop your parklet option as far a possible within the given time frame. Refer to the Design/Build\_Parklet handout for parklet requirements. At this phase of development it's time to get specific about SPATIAL QUALITY, PROGRAM and MATERIALS. Additionally, it's important that we "pitch" these design options to the client by honing our verbal presentation skills and presenting beautiful drawings and models.

## DELIVERABLES:

1. Title & Brief Description
2. Diagrams (program, users, & siting):
  - How does your parklet adapt to different programs (coffee shop, bar, cafe, formal dining, performance, etc.)?
  - How does your parklet address different siting conditions (corner, mid block, narrow street, wide street, etc.)?
  - How does your parklet address other factors affecting occupation? (Sun, rain, wind, user types, accessibility, etc.)?
3. Diagrams (construction sequencing) demonstrating the following:
  - a. Original fabrication
  - b. Demounting & transportation of the parklet modules.
  - c. Re-installation of the parklet
4. Plan(s) @ 1/2" = 1'-0" Must include people & surroundings.
5. Sections @ 1/2" = 1'-0"+ (2x cross sections, 1x long section). Must include people & surroundings.
6. Detail Section @ 1" = 1'-0 (or larger)
7. Axon and/or exploded axon
8. Perspectives (minimum of (2) exterior (2) interior) - can be model shots/collages. Must include people, suggestion of surroundings and materiality.
9. Model @ 1" = 1'-0" (or larger) - this model should be highly detailed and be able to demonstrate (either partially or fully) the process of demounted and re-installing your parklet.
10. Model @ 1/4" = 1'-0" to fit into your section's site model.

**Deliverables** should be formatted in slideshow presentation format. Groups should be prepared to present slideshow, and have a printed presentation (11x17 format available for reference & redlining).

Please have your digital and printed presentation ready to present by: **Monday 2/19 @ 1pm.**

Refer to Canvas for upload requirements.

# 05 \_ PRE-CONSTRUCTION

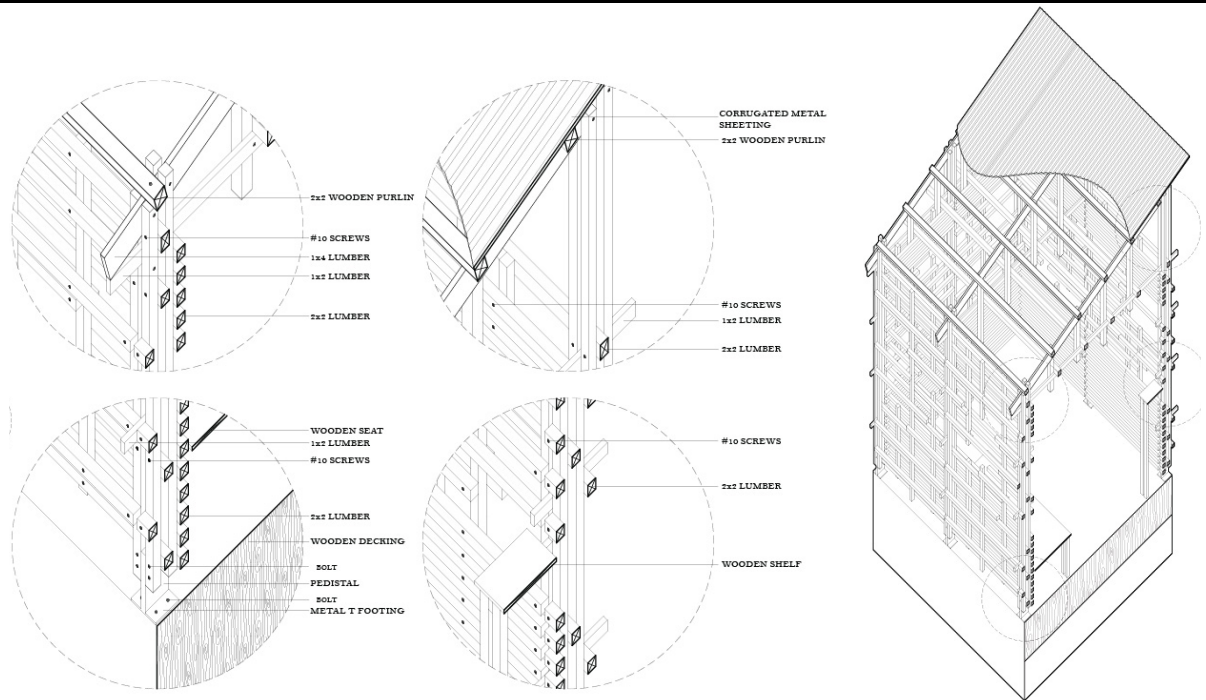
Images:

Fall 2023 Bird Blind

Options Studio

Drawings By:

Jason Wittlinger



## GENERAL REQUIREMENTS

The Pre-Construction Phase will be fast and furious. Following Spring Break you will have about a week to take the selected design, refine it and flesh out any pieces that need additional attention attention before you start construction. You will now be working on a single project with a team of 34-38 students. Your parklet team will be subdivided into teams of 8-10 as defined below:

## CD \_ CONSTRUCTION DOCUMENTS TEAM

The Construction Documents (CD) Team, will be responsible for producing the technical drawings used by all to help construct the parklet and document it's design for future use/replication. The CD group will be responsible for producing the construction documents using the Autocad Template and Plot Style. For the pre-construction review, another key role the CD team will play is to design and execute the full scale mockup(s). You should join this team if you enjoy three-dimension puzzle solving, drafting, and working on technical details (or would like to learn).

### DELIVERABLES:

1. Rhino Model:
  - Unified and well organized (using blocks).
2. 1st Draft of CD Drawings:
  - Plans @ 1/2" = 1'-0"
  - Elevations @ 1/2" = 1'-0"
  - Sections @ 1/2" = 1'-0"
  - Details, 1" = 1'-0" and/or 3" = 1'-0"
  - Axonometric Details, 1" = 1'-0" and/or 3" = 1'-0"
3. Full Scale Mockup(s)

## L \_ LOGISTICS / MANANGEMENT TEAM

The Logistics Team will be responsible managing the budget, construction schedule, deliverables schedule, ordering of materials, and staffing/time tracking. The Logistics Team will serve as the "Project Manager" for the design and construction of the project from this point forward. You should join this team if you enjoy (or would like to improve your abilities at) organizing, using spreadsheets, scheduling, and managing teams.

### DELIVERABLES:

1. Budget (using budget template)
2. Construction prep (ordering long lead items, any special tools, site prep as needed).
3. Construction Schedule (Gantt Chart)
4. Deliverables Schedule

## **P \_ PRESENTATION / DOCUMENTATION TEAM**

The Presentation Team will be responsible for producing the presentation drawings, presentation slideshow, and coordinating the presentation script. You will also be in charge of documentation during the entire construction process, including photographing, videos, and timelapse, drones, etc. You should join this team if you have great skills in (or would like to improve) your graphic abilities, presentation skills, and/or photography/documentaiton skills.

### **DELIVERABLES:**

1. Project branding, name, logo (and colors as needed - both for presentation drawings & of the parklet itself).
2. Any templates / file management guidelines that need to be developed.
3. Cohesive pre-construction presentaiton documenting research and design process for the review.
4. Detailed diagrams documenting construction process for fabrication at NJIT.
5. 1st draft of Project Manual for the Client showing: use, care, assembly, and disassembly.

## **UD \_ URBAN DESIGN TEAM**

The Urban Design Team will be responsible for considering the urban context of the project and continuing to develop/ speculate on the future of the parklet. The urban design team will both develop the requisite contextual diagrams for the parklet and they will pick up the design where it left off (at the point where building needed to begin) to continue developing and considering how the parklet might adapt, multiply, influence and be influenced by the urban context surrounding it. You should join this team if you would like to continue designing, particularly with an eye towards sensitivity to urban context.

### **DELIVERABLES (1st draft of the following):**

1. Diagrams showing relation of parklet to urban context at various scales.
2. Drawings, models, diagrams & renderings showing variations, developments and propagations of the parklet.
3. Any additional documentation needed to demonstrate further conceptual development.

Please have your digital and printed presentation ready to present by: Monday 3/25 @ 1pm.  
Refer to Canvas for Upload requirements.



# 06 \_ CONSTRUCTION



Images:  
Fall 2021 POD Options Studio

## GENERAL REQUIREMENTS

During the construction phase of the project, you will have multiple duties. You will continue the work with your Pre-Construction team and you will also have construction duties. Everyone who is able to participate in construction activities will be required to fulfill a MINIMUM of (3x) 3hr shifts per (4) weeks of construction (total of 12x shifts, or 36 hrs). If you are unable to perform construction duties, or need accommodations please coordinate with your studio instructor. Team deliverables are as follows (but will be adapted to the needs of the individual parklet as needed):

## CD\_CONSTRUCTION DOCUMENTS TEAM

- 11x17 Drawing Set:
  - A-001 - Title Page - Including Rendering & Drawing List
  - A-100 - Plans, 1/2" = 1'-0"
  - (A-101, 102, 103 - Additional Plan pages as needed)
  - A-200 - Elevations, 1/2" = 1'-0"
  - (A-201, 202, 203 - Additional Elevation pages as needed)
  - A-300 - Sections, 1/2" = 1'-0"
  - (A-301, 302, 303 - Additional Section pages as needed)
  - A-400 - Details, 1" = 1'-0" and/or 3" = 1'-0"
  - (A-401, 402, 403 - Additional Detail pages as needed)
  - A-500 - Axonometric Details, 1" = 1'-0" and/or 3" = 1'-0"

## L\_LOGISTICS / MANAGEMENT

1. Budget & Ordering/Receipts tracking
2. Construction Schedule (Gantt Chart)
3. Deliverables Schedule
4. Staffing Log

## P\_PRESENTATION / DOCUMENTATION

1. Presentation explaining the design and construction process of the parklet (work from all groups in parklet team).
2. Project Manual for the Client showing: use, care, assembly, and disassembly.

## UD\_URBAN DESIGN

1. Diagrams showing relation of parklet to urban context at various scales.
2. Drawings, models, diagrams & renderings showing variations, developments and propagations of the parklet.
3. Any additional documentation needed to demonstrate further conceptual development.

Final Review/Exhibition: Thursday April 25th, 2024  
Refer to Canvas for Upload requirements.