

MAKERSPACES

A CASE STUDY IN 3 PROJECTS:

DESIGNLAB – NEW YORK HALL OF SCIENCE

L+ – NYC BRANCH LIBRARIES

GENERATOR – NYC TECH OFFICE



SITU

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graph TD; SITU[SITU] --- SITU_FABRICATION[SITU FABRICATION]; SITU --- SITU_STUDIO[SITU STUDIO]; SITU --- SITU_RESEARCH[SITU RESEARCH];
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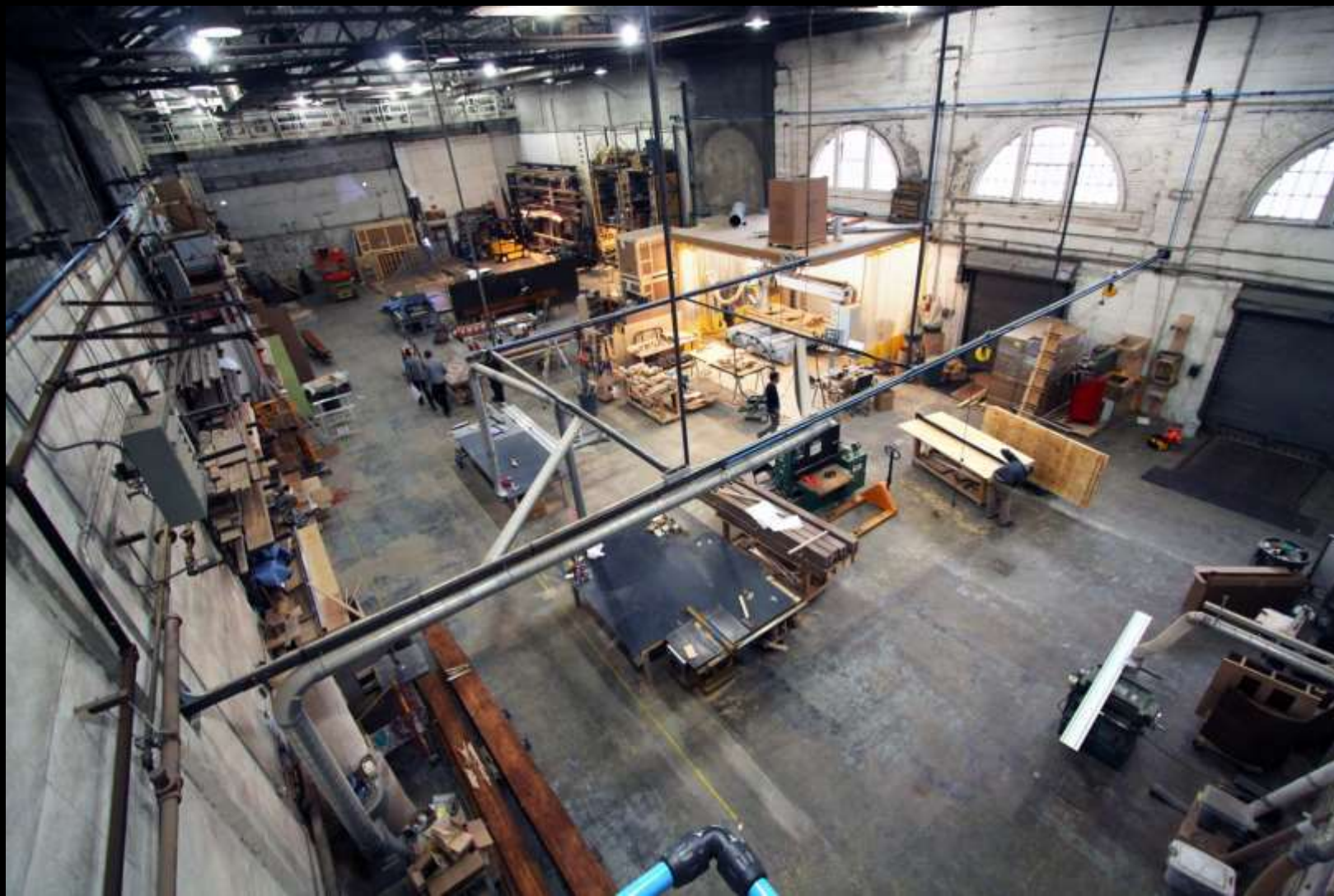
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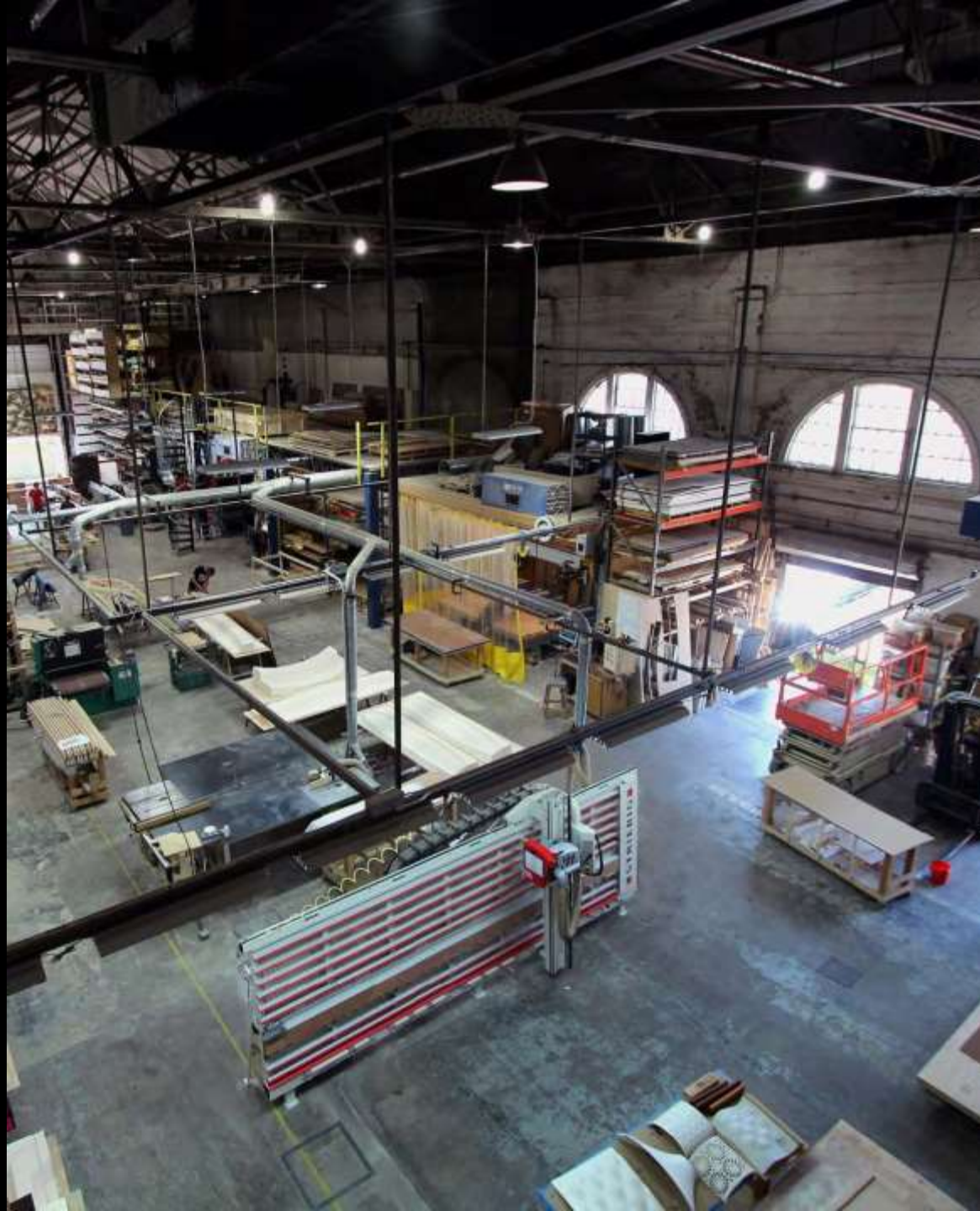
SITU STUDIO

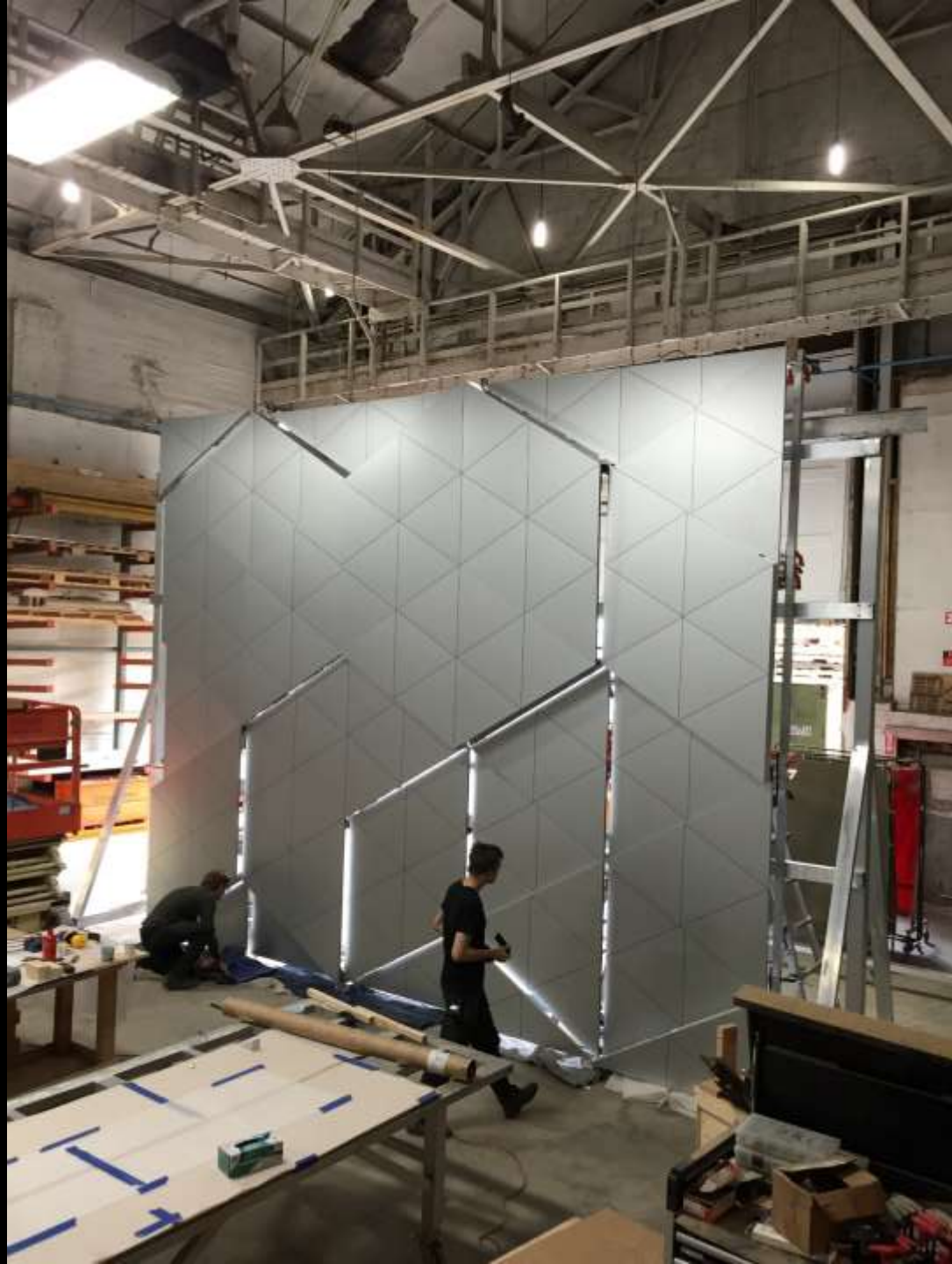
SITU RESEARCH





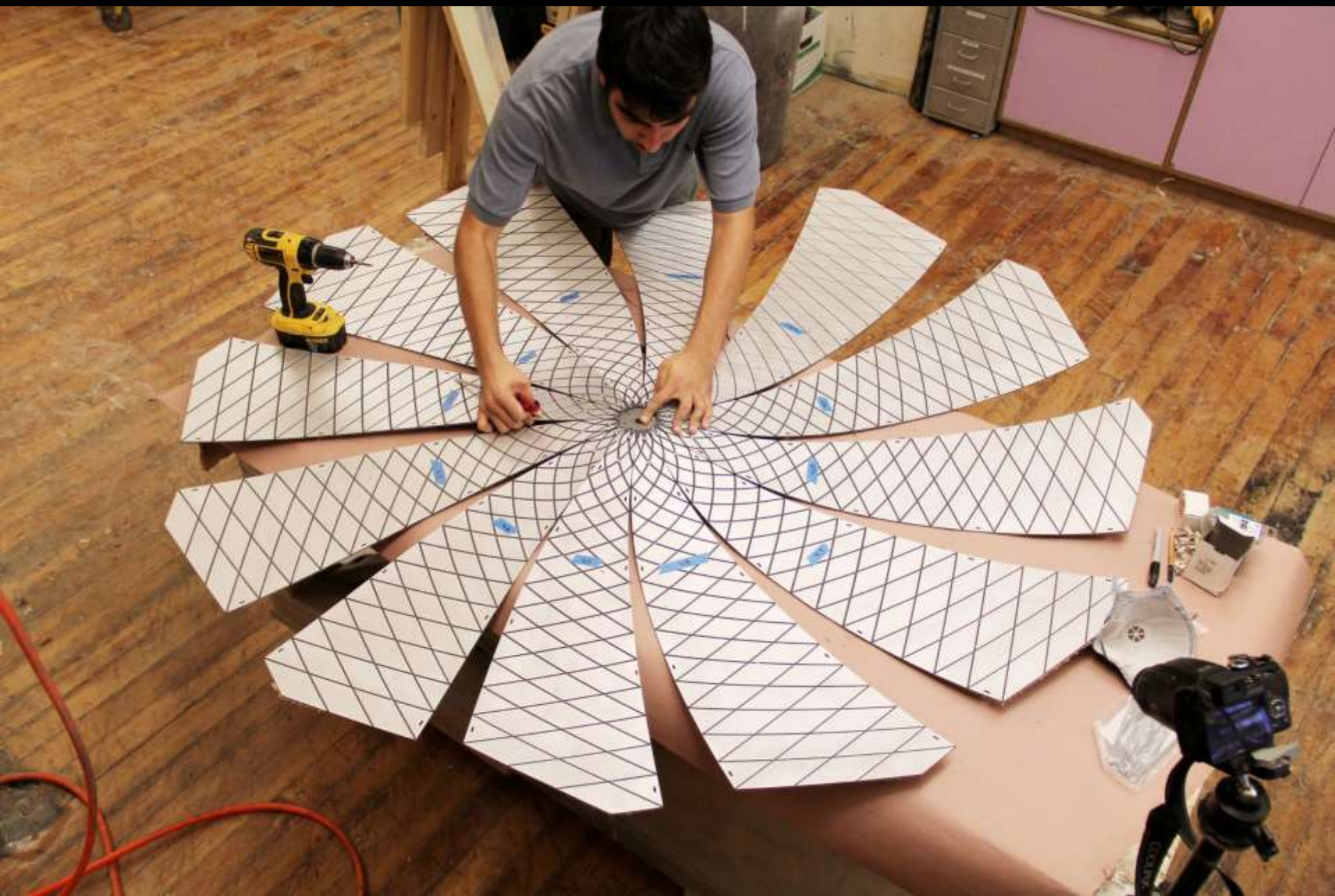








NYSOI DESIGN LAB
NEW YORK HALL OF SCIENCE





HAVA NAGILA
MUSEUM OF JEWISH HERITAGE



HAVA NAGILA
MUSEUM OF JEWISH HERITAGE



HAVA NAGILA
MUSEUM OF JEWISH HERITAGE



HAVA NAGILA
MUSEUM OF JEWISH HERITAGE











REORDER
BROOKLYN MUSEUM



REORDER
BROOKLYN MUSEUM



REORDER
BROOKLYN MUSEUM



SOLAR PAVILION 3
SOLAR ONE, ALL POINTS WEST



SOLAR PAVILION 3
SOLAR ONE, ALL POINTS WEST



SOLAR PAVILION 2
SOLAR ONE, ALL POINTS WEST





SOLAR PAVILION 2
SOLAR ONE, ALL POINTS WEST



MAKERSPACE
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MAKING DESIGN LAB

L+



Reference & Research



Event & Performance



Production



Skill-Building Classes



Childhood Learning & Afterschool



Economic Support



Event & Performance



Mobile Literacy Space



Youth Social & Recreation



Flexible Assembly Space



Crisis Center / Safe Point



Government Services



Formal Program



Book Browsing

Book Lending

A/V Browsing & Lending

Learning Materials Lending

Online Book Order & Pick-Up

Book Delivery

eBooks / mp3 Checkout

Database Access

Periodicals & Journal Access

Local History & Archives

General Research & Guidance

Individual Work Space

Quiet Space to Read

Reserved Group Study Spaces

Storytime

Early Childhood Music & Movement

Early Childhood Arts & Crafts

Afterschool Workshops & Classes

Book Clubs

Game Nights

Screenings

Pre-GED / GED Prep Classes

ESOL Classes + Workshops

Adult Literacy Classes

Computer / Digital Training

Advanced Computer Training

Online Courses / eLearning

Programmable Community Space

Neighborhood Gathering Space

Economic Empowerment Center

Business Solution Center

Job Readiness Classes

Off-Site Job Readiness Classes

Informal Program



Book Browsing
Book Lending
A/V Browsing & Lending
Learning Materials Lending
Online Book Order & Pick-Up
Book Delivery
eBooks / mp3 Checkout
Database Access
Periodicals & Journal Access
Local History & Archives
General Research & Guidance
Individual Work Space
Quiet Space to Read
Reserved Group Study Spaces
Storytime
Early Childhood Music & Movement
Early Childhood Arts & Crafts
Afterschool Workshops & Classes
Book Clubs
Game Nights
Screenings
Pre-GED / GED Prep Classes
ESOL Classes + Workshops
Adult Literacy Classes

Computer / Digital Training
Advanced Computer Training
Online Courses / eLearning
Programmable Community Space
Neighborhood Gathering Space
Economic Empowerment Center
Business Solution Center
Job Readiness Classes
Off-Site Job Readiness Classes

Curating Collections
Information Economy & Training
Group Work Space
Group Space to Hang
Homework Help
College Application Help
Community Tutoring
Teen Activities
Community Third Space
Parent / Caregiver Meetups
Organic Senior Center
Intergenerational Meeting Points
Ad-Hoc Tech Help
Self-Publishing Help
Entrepreneurial Start-Up Consult
Warming / Cooling Station
Homeless Day Shelters
Disaster Recovery / Safe Point

Potential Program



Book Browsing	Computer / Digital Training	Curating Collections	Electronic Lending Library
Book Lending	Advanced Computer Training	Information Economy & Training	Co-Working Spaces
A/V Browsing & Lending	Online Courses / eLearning	Group Work Space	Teen Center
Learning Materials Lending	Programmable Community Space	Group Space to Hang	Community Workshop / Demo Space
Online Book Order & Pick-Up	Neighborhood Gathering Space	Homework Help	Advanced Computer Training
Book Delivery	Economic Empowerment Center	College Application Help	Mind Gym
eBooks / mp3 Checkout	Business Solution Center	Community Tutoring	Exhibition Space
Database Access	Job Readiness Classes	Teen Activities	Artist Studios
Periodicals & Journal Access	Off-Site Job Readiness Classes	Community Third Space	Maker Space
Local History & Archives		Parent / Caregiver Meetups	Tool Lending
General Research & Guidance		Organic Senior Center	Recording Studio
Individual Work Space		Intergenerational Meeting Points	Media Lab
Quiet Space to Read		Ad-Hoc Tech Help	Workshops (Film Editing, etc)
Reserved Group Study Spaces		Self-Publishing Help	Rehearsal Space
Storytime		Entrepreneurial Start-Up Consult	Beta Spaces
Early Childhood Music & Movement		Warming / Cooling Station	Mini City Hall Services
Early Childhood Arts & Crafts		Homeless Day Shelters	Interface to Gov Health Agencies
Afterschool Workshops & Classes		Disaster Recovery / Safe Point	Crisis Center
Book Clubs			Mobile Literacy Units
Game Nights			Mobile Reading Rooms
Screenings			
Pre-GED / GED Prep Classes			
ESOL Classes + Workshops			
Adult Literacy Classes			

Program Types

Browsing & Lending

Book Browsing

Book Lending

A/V Browsing & Lending

Learning Materials Lending

Online Book Order & Pick-Up

Book Delivery

eBooks / mp3 Checkout

Reference & Research

Database Access

Periodicals & Journal Access

Local History & Archives

General Research & Guidance

Information Economy & Training

Read & Work

Individual Work Space

Quiet Space to Read

Group Work Space

Group Space to Hang

Reserved Group Study Spaces

Co-Working Spaces

Flexible Assembly Space

Programmable Community Space

Neighborhood Gathering Space

Childhood Learning & Afterschool

Storytime

Early Childhood Enrichment

Afterschool Classes / Programs

Homework Help

Afterschool Safe Space

Event & Performance

Exhibition Space

Performance Space

Event Space

Production

Artist Studios

Maker Space

Tool Lending

Media Lab

Workshops (Film Editing, etc)

Recording Studio

Rehearsal Space

Beta Spaces

Crisis Center / Safe Point

Crisis Center / Disaster Recovery

Youth Social & Recreation

Teen Center

Video Game Night

Economic Support

Economic Empowerment Center

Business Solution Center

Entrepreneurial Start-Up Services

Job Readiness Classes

Off-Site Job Readiness Classes

Skill-Building Classes

Pre-GED / GED Prep Classes

ESOL Classes + Workshops

Adult Literacy Classes

Citizenship Test Classes

Computer / Digital Training

Advanced Computer Training

Online Courses / eLearning

eResources Classes

Mind Gym

Government Services

Mini City Hall Services

Interface to Gov Health Agencies

Mobile Literacy Space

Mobile Literacy Units

Mobile Reading Rooms

Functional & Technical Requirements

L+

Functional



Tables



Chair Seating



Floor Seating



Storage



Shelving



Display

Technical



Wi-Fi



Plug-In



Computer/
Software



Fax/Scan/Print

















Projection/
Whiteboard



Audio

Program Matrix

Program Type	Activity	Functional Requirements							Technical Requirements						
															
Browsing & Lending	Book Browsing					•	•								
	Book Lending					•			•		•				
	A/V Browsing & Lending					•			•		•				
	Learning Materials Lending				•	•	•		•		•				
	Online Book Order & Pick-Up					•			•						
	Book Delivery							•			•				•
	eBooks / mp3 Checkout					•			•		•				
Reference & Research	Database Access	•	•						•		•	•			
	Periodicals & Journal Access		•			•	•		•		•	•			
	Local History & Archives	•	•		•	•			•		•	•			
	General Research & Guidance	•	•					•	•		•				
	Information Economy & Training	•	•				•	•	•		•				
Read & Work	Individual Work Space	•	•						•	•					
	Quiet Space to Read		•	•					•	•					
	Group Work Space	•	•	•			•		•	•					
	Group Space to Hang			•					•	•					
	Reserved Group Study Spaces	•	•				•		•	•			•		
	Co-Working Spaces	•	•				•		•	•		•			

Kit of Parts

L+

Folding Chair



Folding Table



Bookshelf / Storage Unit



Projector



Stacking Stool - Short



Reception Desk



Bookshelf



Projection Screen



Stacking Stool - Tall



Folding Table



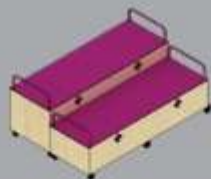
Media Display Shelf



Lighting / Electrical



Bleachers



Folding Counter



Wall-Mounted Shelf



Electrical Reel



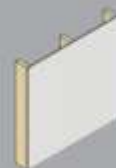
Carpet Tiles



Counter



Pinup Board



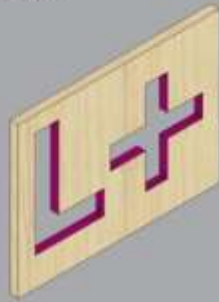
Storage Closet



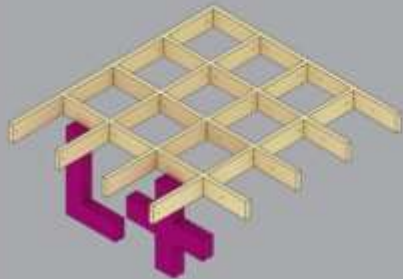
Lightbox Sign



Modular Sign



Scaffold



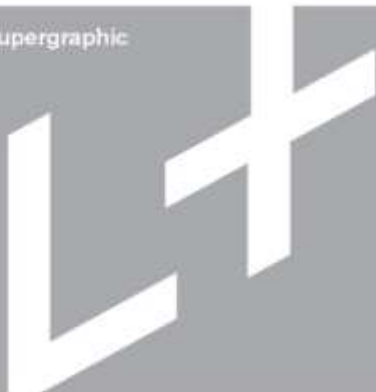
Awning



Program Screen



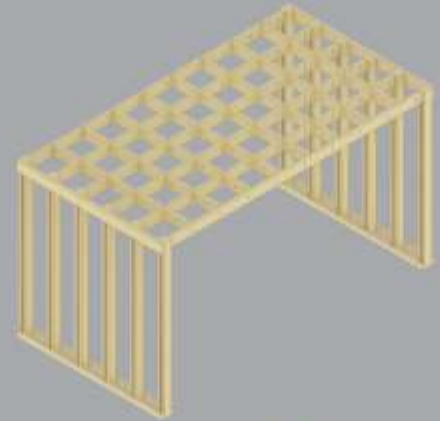
Supergraphic



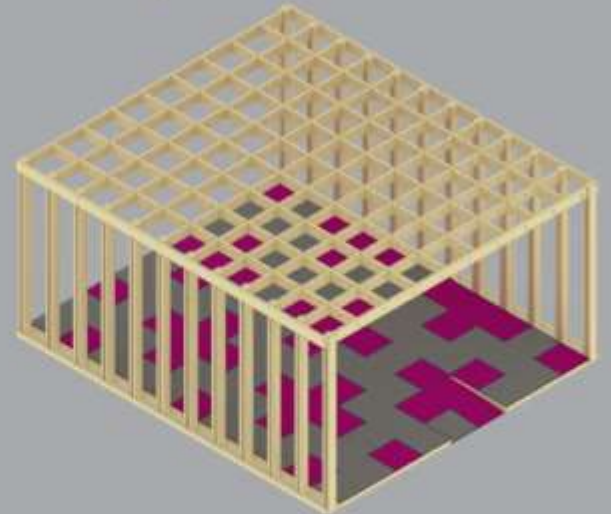
Storage Unit



Three-Sided



Six-Sided



Site Characteristics

Astoria

Underutilized Space

Baisley Park

Hidden Atrium

Grand Concourse

Transportation Hub

DUMBO

Blocked Borders

Macon

Needs Teen Space

Greenpoint

Growing Population

Jamaica

Transportation Hub

Kensington

Needs Gathering Space

Staten Island Ferry

Transportation Hub

Corona

Severe Crowding

New Amsterdam

Ground Floor of Tower

Williamsburg

Stranded in the Middle

Community Room



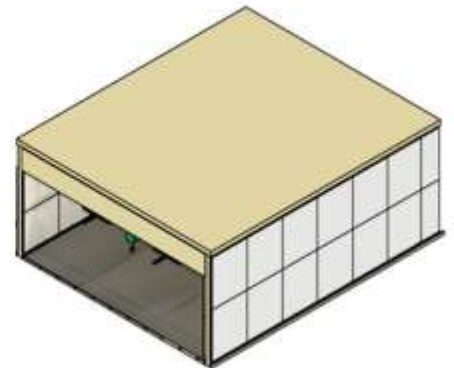
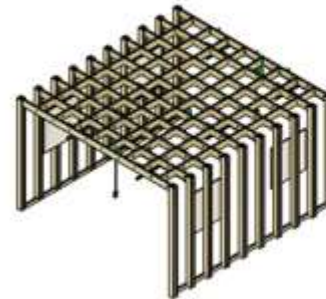
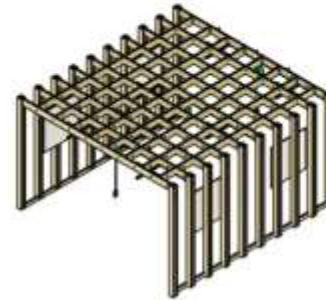
Outpost



L+

Astoria

A collection of various furniture items including chairs, tables, desks, shelves, and storage units.



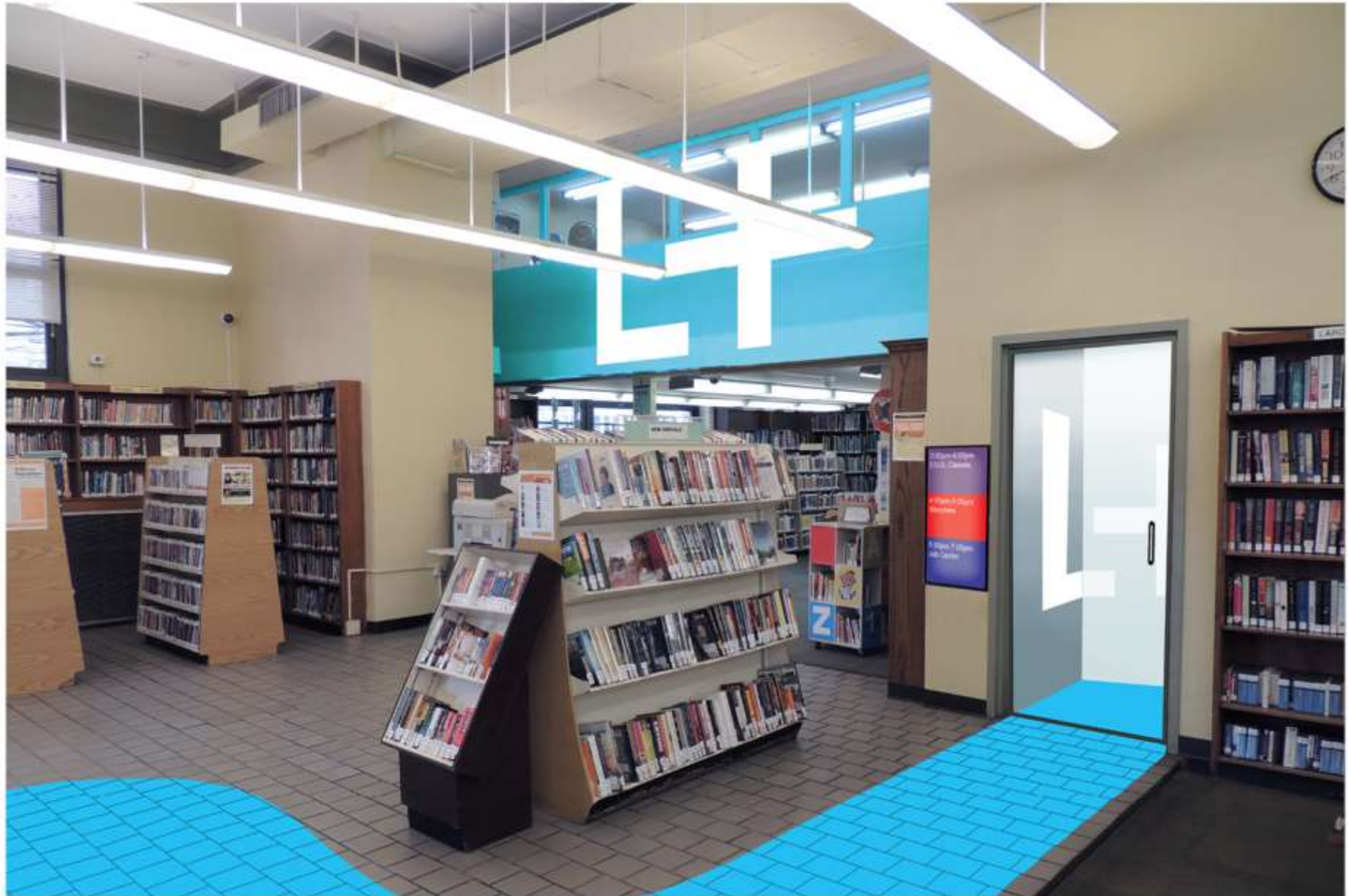
Inside a Library Branch



Outpost







Kit of Parts

QL+

Folding Chair



Folding Table



Bookshelf / Storage Unit



Projector



Stacking Stool - Short



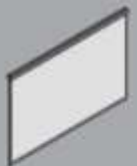
Reception Desk



Bookshelf



Projection Screen



Stacking Stool - Tall



Folding Table



Media Display Shelf



Lighting / Electrical



Bleachers



Folding Counter



Wall-Mounted Shelf



Electrical Reel



Carpet Tiles



Counter

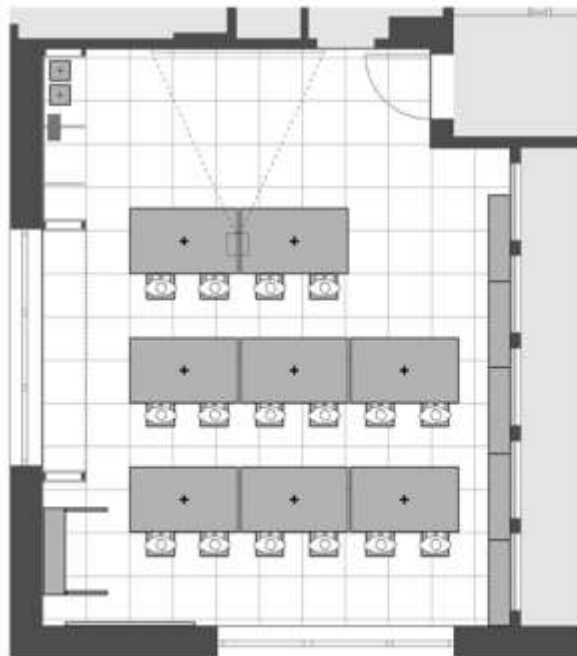


Pinup Board

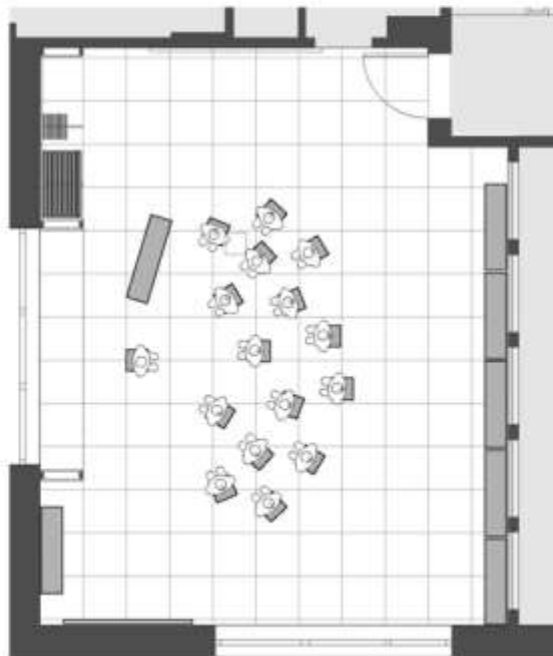


Storage Closet

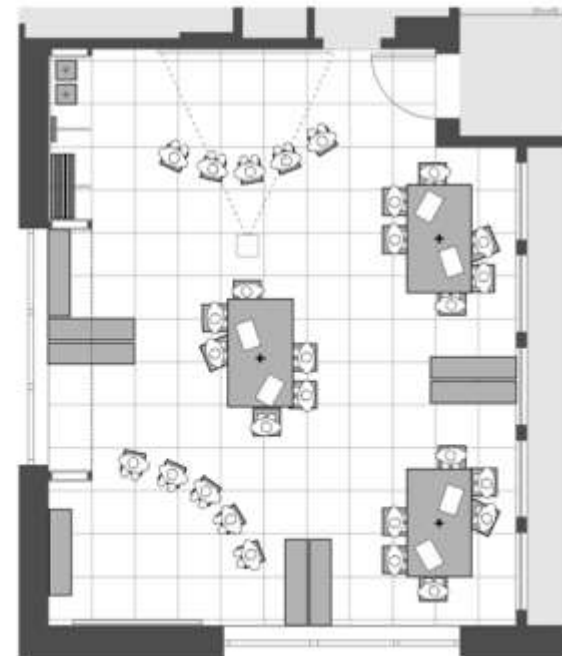




ESOL Class



Storytime



Start-Up Consult

