

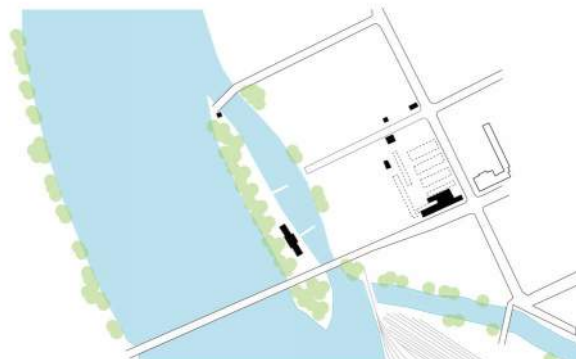


# MISSISSIPPI RIVER PARK AND COMMUNITY CENTER

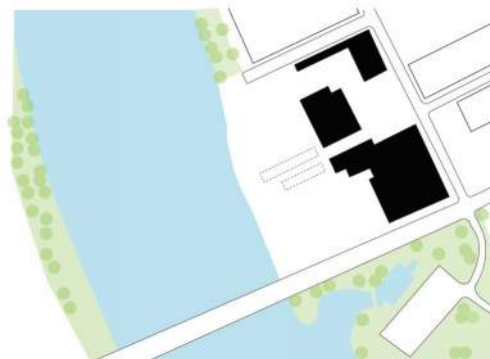
Minneapolis MN



**Pre-1850's** Oak Savannah and Dakota Land



**1912** Early Sawmill Activity and Hall's Island Bath House



**1988** Expanded Mill and and Island Annexation



**2024** Graco Park and Hall's Island Restoration

## SITE TRANSFORMATION

### ECOLOGICAL BALANCE

### INDUSTRIAL HERITAGE

### EQUITY AND ACCESS



**Pre 1850** Site home to Dakota people and blanketed in Oak Forest

**1851** In Treaty with the Sioux, Dakota cede lands including modern day Minneapolis to US Government. Over next decade, Dakota people were forcibly removed from region

**1855** Town of St. Anthony incorporated on the East Bank fo the Mississippi River. Merged with Minneapolis 15 years later



**1883** Horace Cleveland first envisions Park System, including a necklace of green spaces along the Mississippi River. The flat, featureless, and industrial riverside of NE Minneapolis is ignored for the next century.



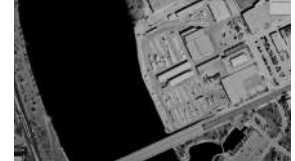
**1885** Saw Milling operations begin on site



**1902** Dr. Pearl Hall purchases the Island from the State and builds a Public Bath House.



**1930** Scherer Bros. Lumber begins using the site.



**1930** Scherer Bros. fills in channel separating Hall's Island from East Bank



**2010** Minneapolis Park Board purchases land from Scherer Bros. and razes Lumber Buildings



**2017** Hall's Island reconstructed



**2021** Park Board builds first Spark'd Studio - a technology makers space for teens - at Powderhorn Park

**2024** Planned Grand Opening of Graco Park, which seeks to integrate recreation, opportunity incubation and restoration of habitat

### ORIGINS

### INDUSTRIALIZATION

### RESTORATION



PARK PROGRAM

GATHERING AND EDUCATION

- 1 Community Center
- 2 Porch / Proscenium
- 3 Amphitheatre
- 4 Entry Plaza
- 5 Future Shade Pavilion
- 6 Picnic Area

HABITAT AND RESTORATION

- 7 Great Bee Lawn
- 8 Prairie / Geothermal Ground Loop
- 9 Wet Meadow
- 10 Riverwalk
- 11 Gravel Beach

ACCESS AND CONNECTION

- 12 Tunnel Connection to Regional Bike Trail
- 13 Regional Bike Trail Extension
- 14 Hall's Island Promenade
- 15 Intersection Improvements
- 16 Accessible Parking



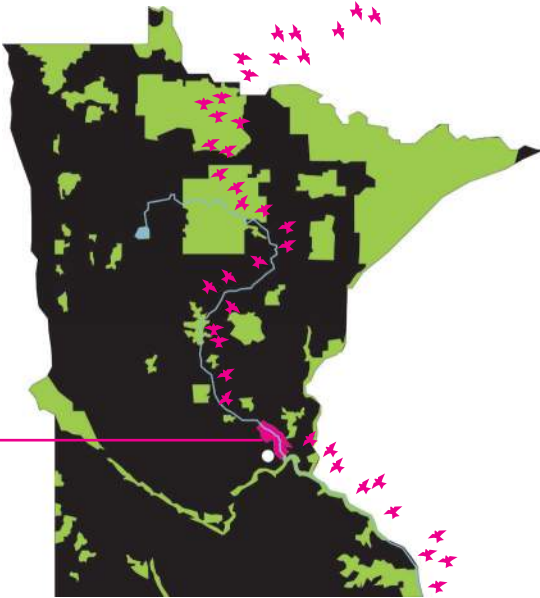
MINNEAPOLIS  
PARK SYSTEM

GRACO  
PARK



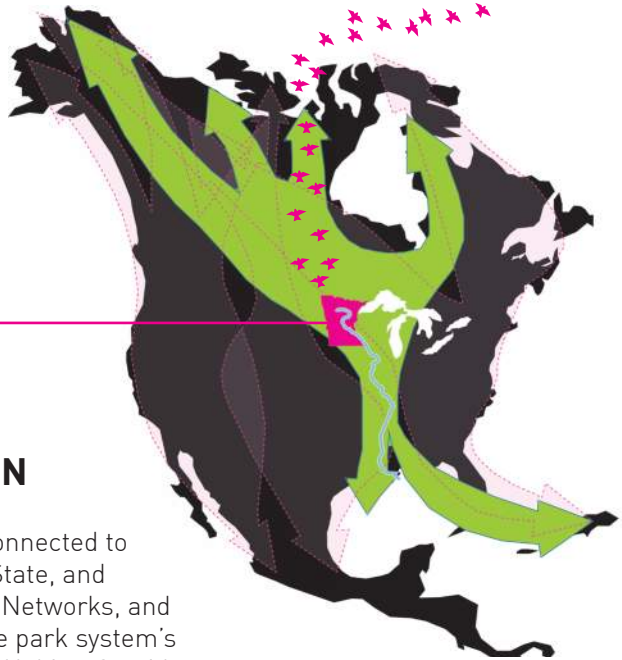
MINNESOTA  
CRITICAL  
BIRD HABITAT

NORTH METRO  
MISSISSIPPI  
RIVER iBA



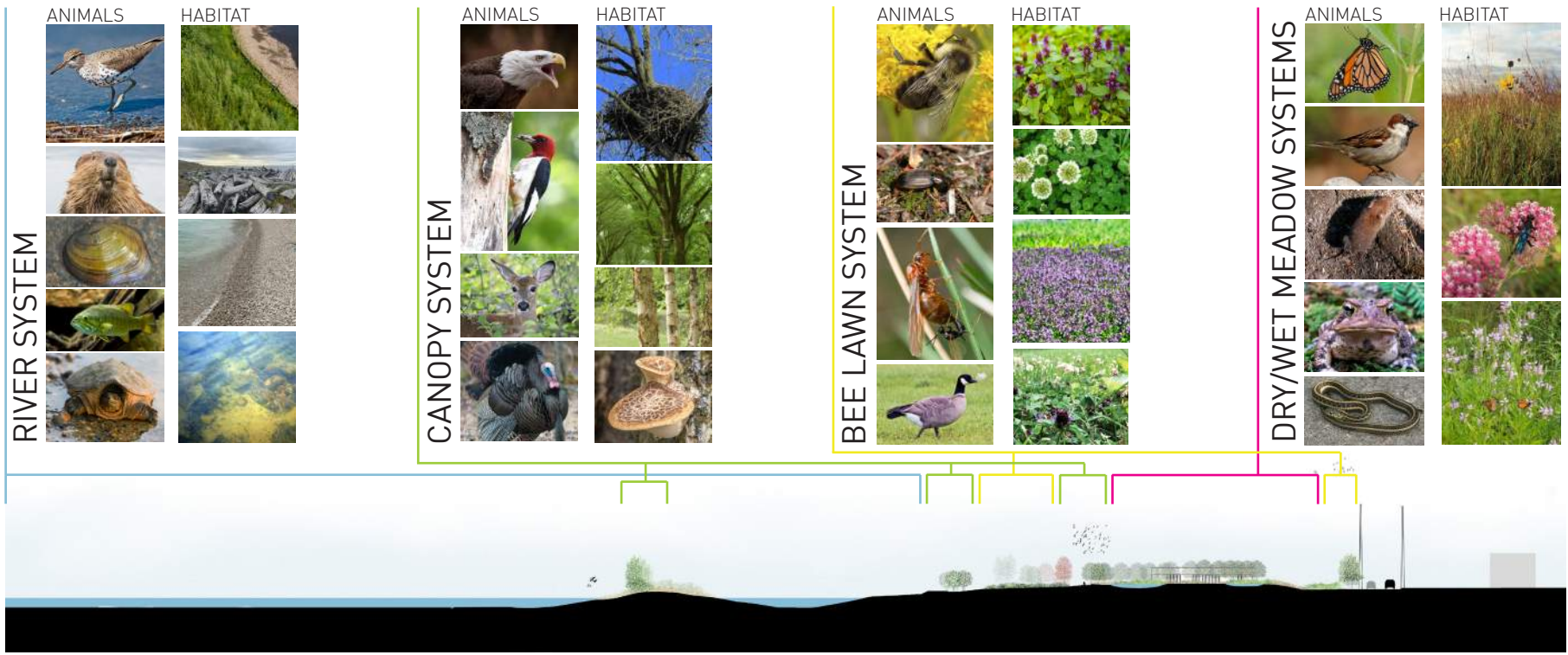
MISSISSIPPI  
RIVER  
FLYWAY

MINNESOTA



HABITAT SYSTEMS

The Park is structured by Habitat Systems that relate groupings of plant species, tree types, and ground cover to key species who reside and migrate through the Mississippi River Corridor.



A LINK IN  
THE CHAIN

The Park is connected to Continental, State, and Local Habitat Networks, and maximizes the park system's potential as a Habitat Corridor







## PARK AS OPPORTUNITY INCUBATOR

Spark'd Studios are creative technology spaces being built within the park system to support self-expression, interest-driven activities, and self-actualization for young people. Programming includes:

- 1 E-SPORTS
- 2 VIDEO PRODUCTION
- 3 WEB DEVELOPMENT
- 4 MUSIC PRODUCTION
- 5 DIGITAL FABRICATION
- 6 PHOTOGRAPHY
- 7 PODCAST PRODUCTION
- 8 ENTREPRENEURSHIP
- 9 STORYTELLING
- 10 ART AND MIXED MEDIA

 Spark'd Studio Locations  
 Poverty Rate > 30%



## COMMUNITY CENTER PROGRAM

### COMMUNITY GATHERING

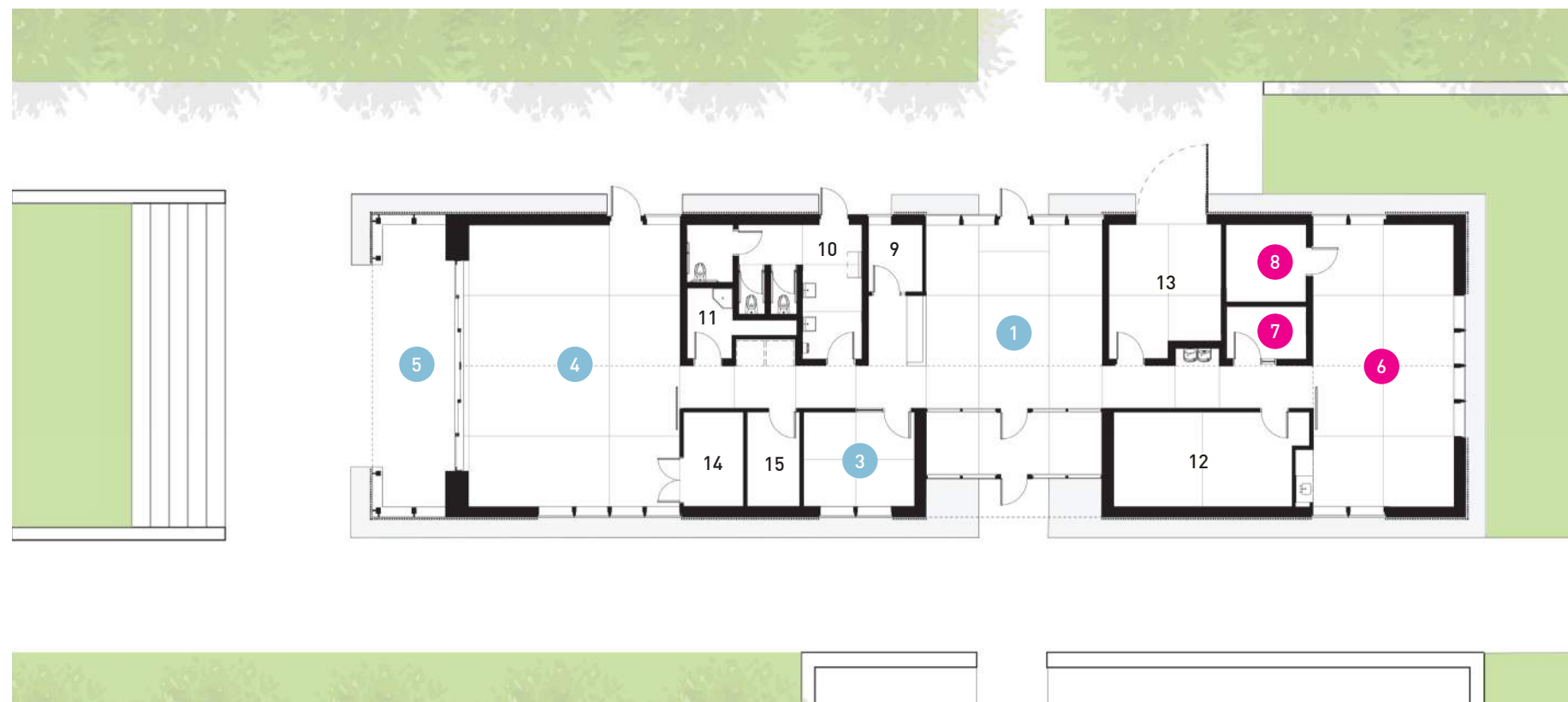
- 1 Commons
- 2 Reception
- 3 Small Conference Room
- 4 Multipurpose Room
- 5 Porch / Proscenium

### SPARK'D STUDIO

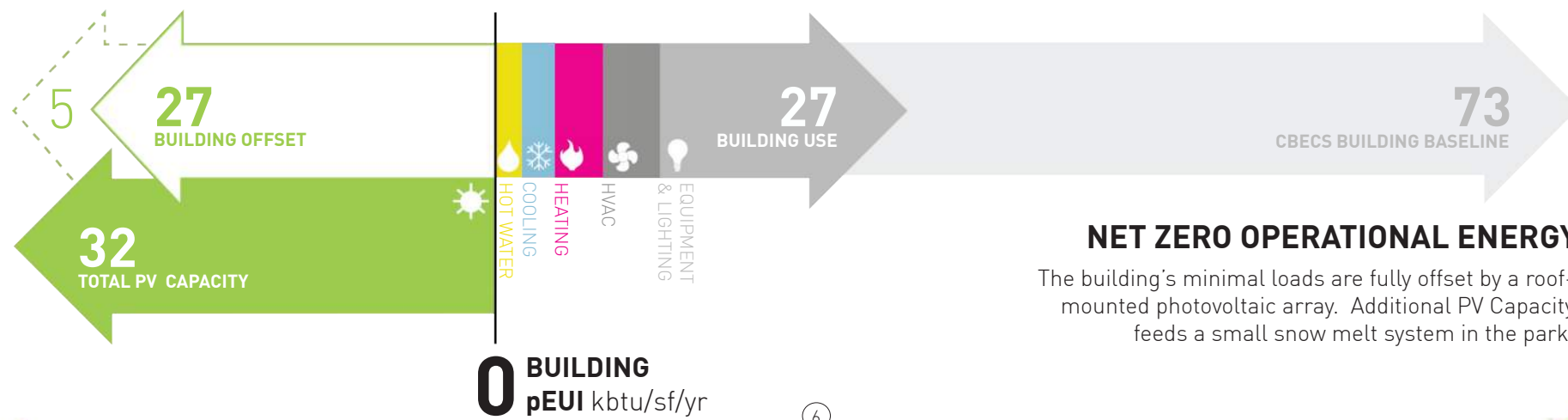
- 6 Spark'd Studio
- 7 Recording Studio
- 8 Studio Storage

### SUPPORT

- 9 Office
- 10 All Gender Restroom
- 11 Janitor's Closet
- 12 Storage
- 13 Maintenance Garage
- 14 Mechanical
- 15 Electrical

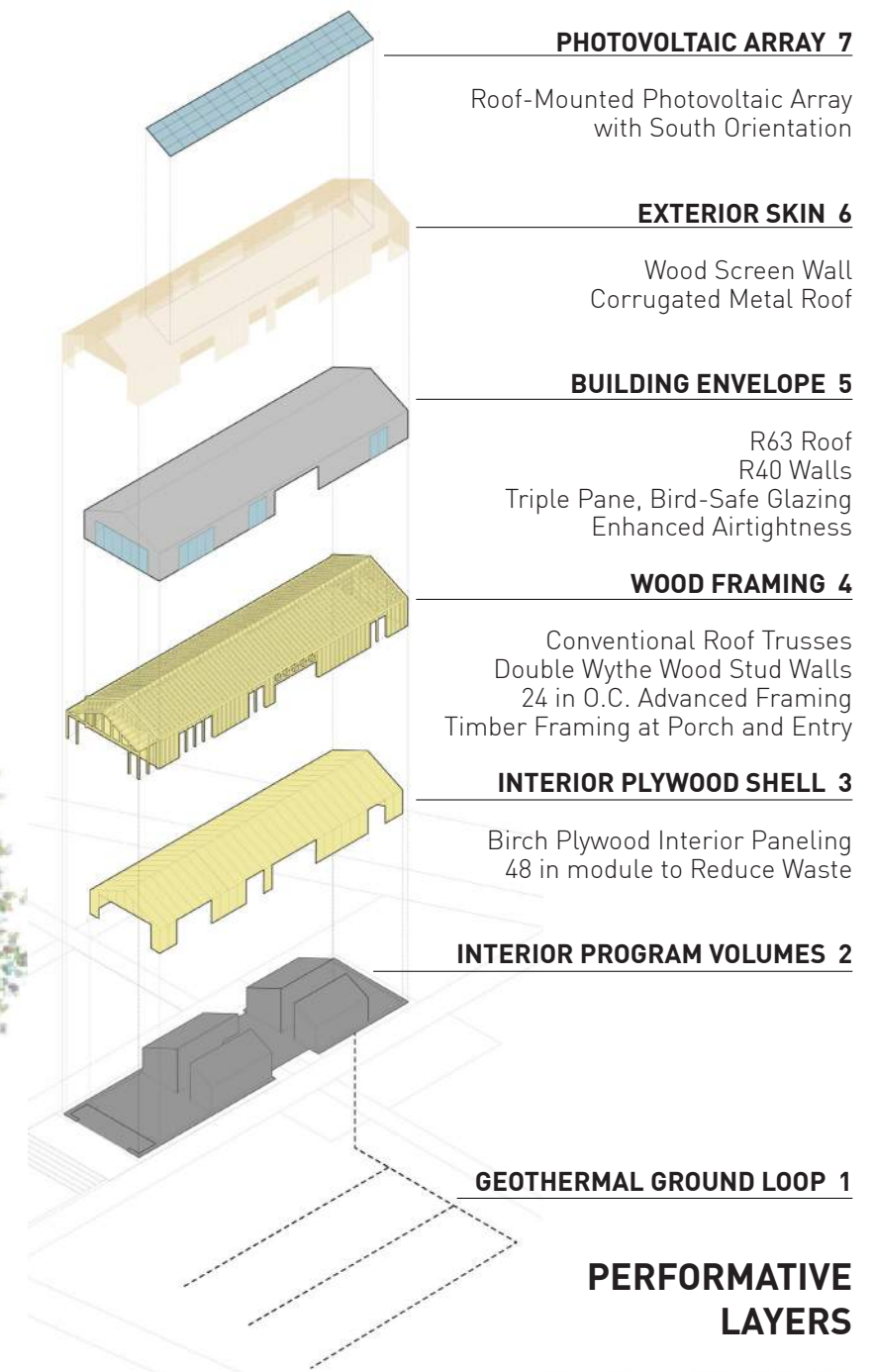






## NET ZERO OPERATIONAL ENERGY

The building's minimal loads are fully offset by a roof-mounted photovoltaic array. Additional PV Capacity feeds a small snow melt system in the park.



- 1 Recessed Photovoltaic Array
- 2 R63 Dense Pack Cellulose in Conventional Wood Trusses
- 3 R40 Dense Pack Cellulose in Double Wythe Wood Stud Wall
- 4 Triple-Glazed Windows



- 5 Ventilated Corrugated Metal Roof
- 6 Continuous Ventilation Below Deck
- 7 Continuous Interior Air Barrier
- 8 Service Chase interior of Air Barrier



- 9 In floor Radiant Heat
- 10 Overhead Fan
- 11 DOAS with Energy Recovery
- 12 Wood Slat Shading

The building assemblies carefully balance economical and conventional systems such as Corrugated Metal Roofing, Wood Stud Framing, Prefabricated Wood Roof Trusses and Cavity Insulation with increased attention to Energy Efficiency, Moisture Resistance, and Thermal Comfort

## BALANCING ECONOMY AND PERFORMANCE





**PORCH AND  
PROSCENIUM**

On its west end, the building's wood rainscreen slips past the thermal envelope, creating an open air Porch & Proscenium for social gathering and performance.





**A MULTIPURPOSE  
COMMUNITY HUB**

The Multipurpose Room, provides an expanded footprint for space intensive Spark'd Studio activities and a venue for community-wide events. On precious good weather days, a pocketing glass door opens to the amphitheater and river beyond.



PLYWOOD ROOF SHEATHING  
GYPSUM EXT WALL SHEATHING  
COATED OSB INT WALL SHEATHING

**C** 96" MODULE

INTERIOR PLYWOOD  
WALL PANELS

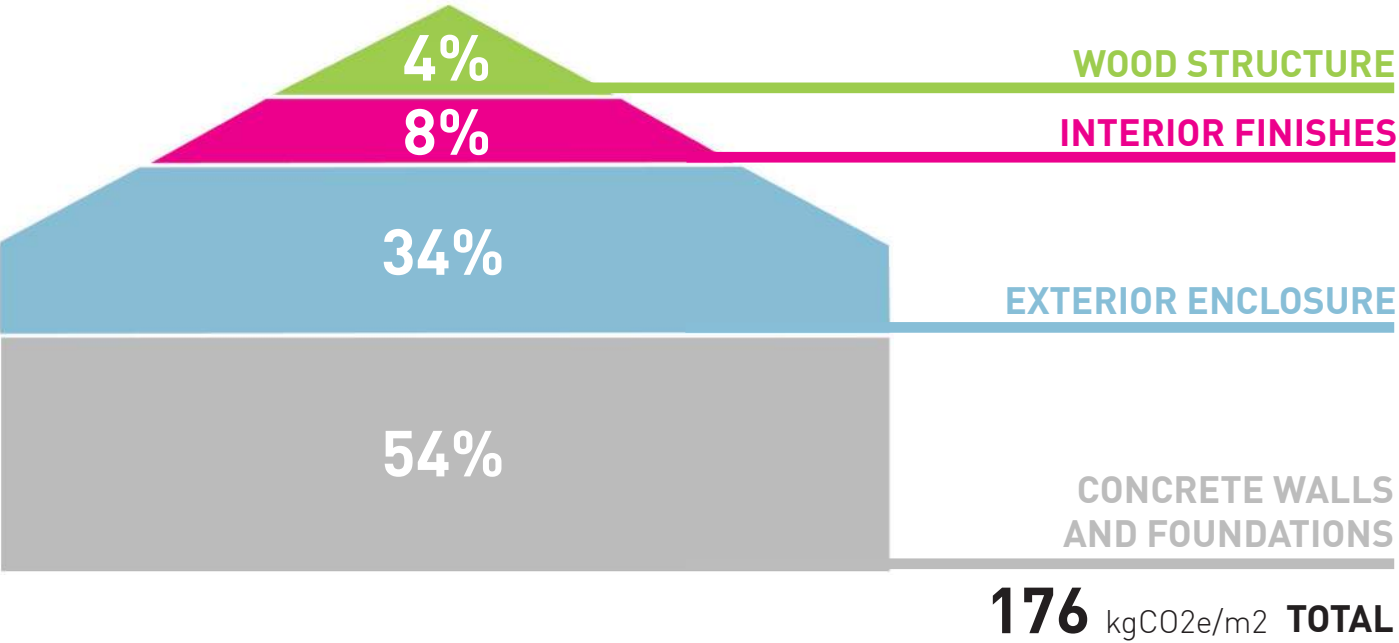
**B** 48" MODULE

WOOD STUD WALL  
AND WOOD TRUSS SPACING

**A** 24" MODULE

The building is planned on a strict module system based on standard panel sizes and thermally efficient 24" stud spacing, minimizing waste and reducing cost and embodied carbon.

**MODULARITY**



The building's embodied carbon use is limited by the use of wood for both the primary structure and interior finish., offsetting the high embodied carbon of necessary concrete components.

**EMBODIED CARBON USE**

**1 DOUBLE-WYTHE STUD WALL**

Double-Wythe Stud Walls use conventional wood framing to provide more space for insulation and a thermal break between wythes. Panelized detailing and Advanced Framing techniques bolster economy and thermal performance, respectively.

**2 WOOD TRUSSES**

Wood Trusses are a conventional and low carbon means of roof framing that uses small, rapidly grown sections of lumber.

**3 DENSE-PACK CELLULOSE**

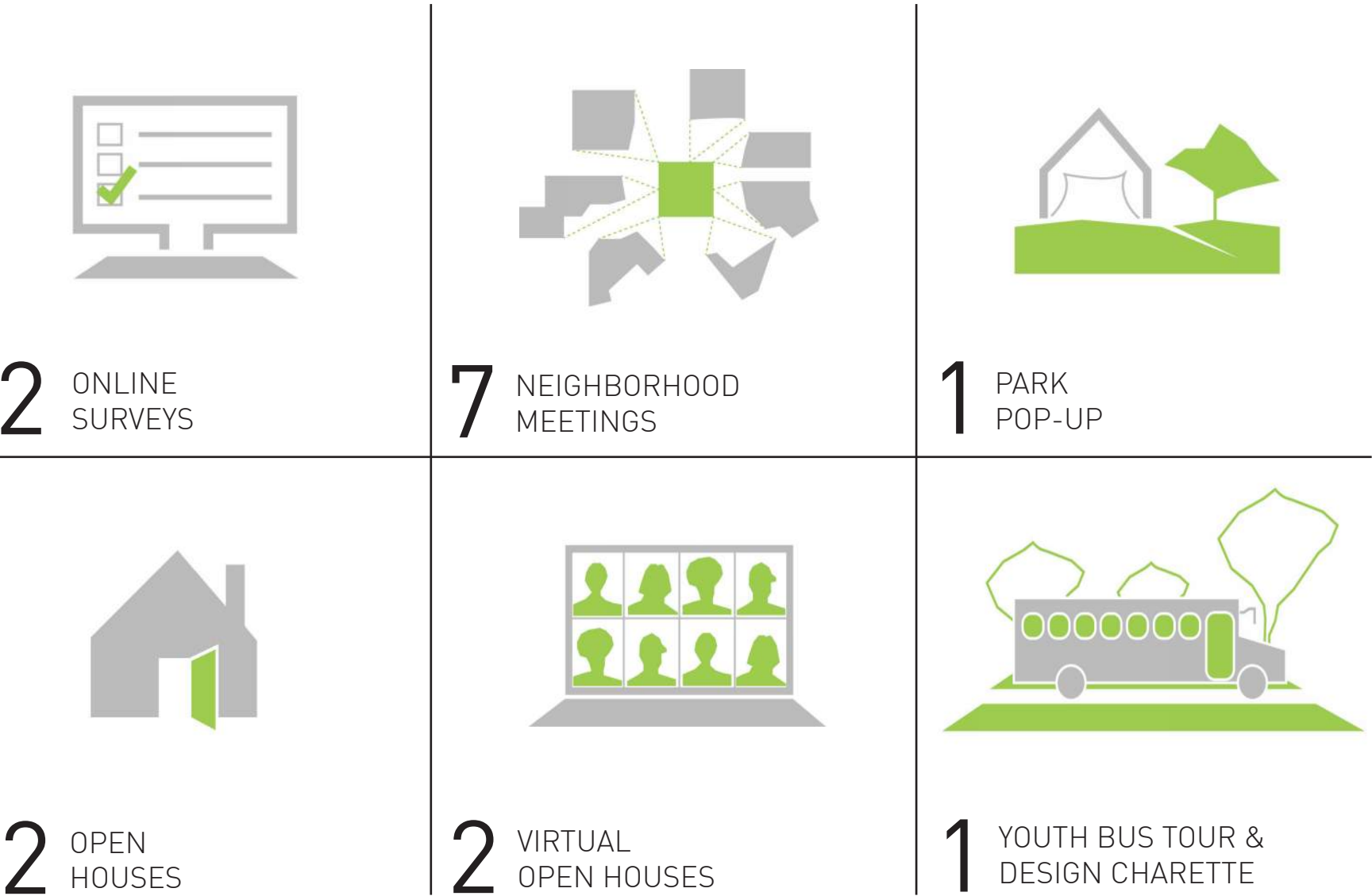
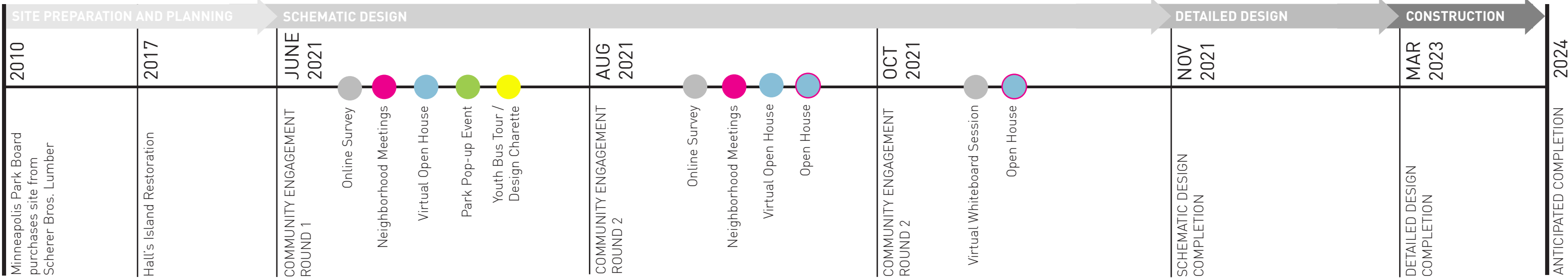
Double-wythe stud walls and Wood Trusses are infilled with economic, moisture-tolerant, and low-embodied carbon Dense Pack Cellulose insulation.

**4 PLYWOOD INTERIOR**

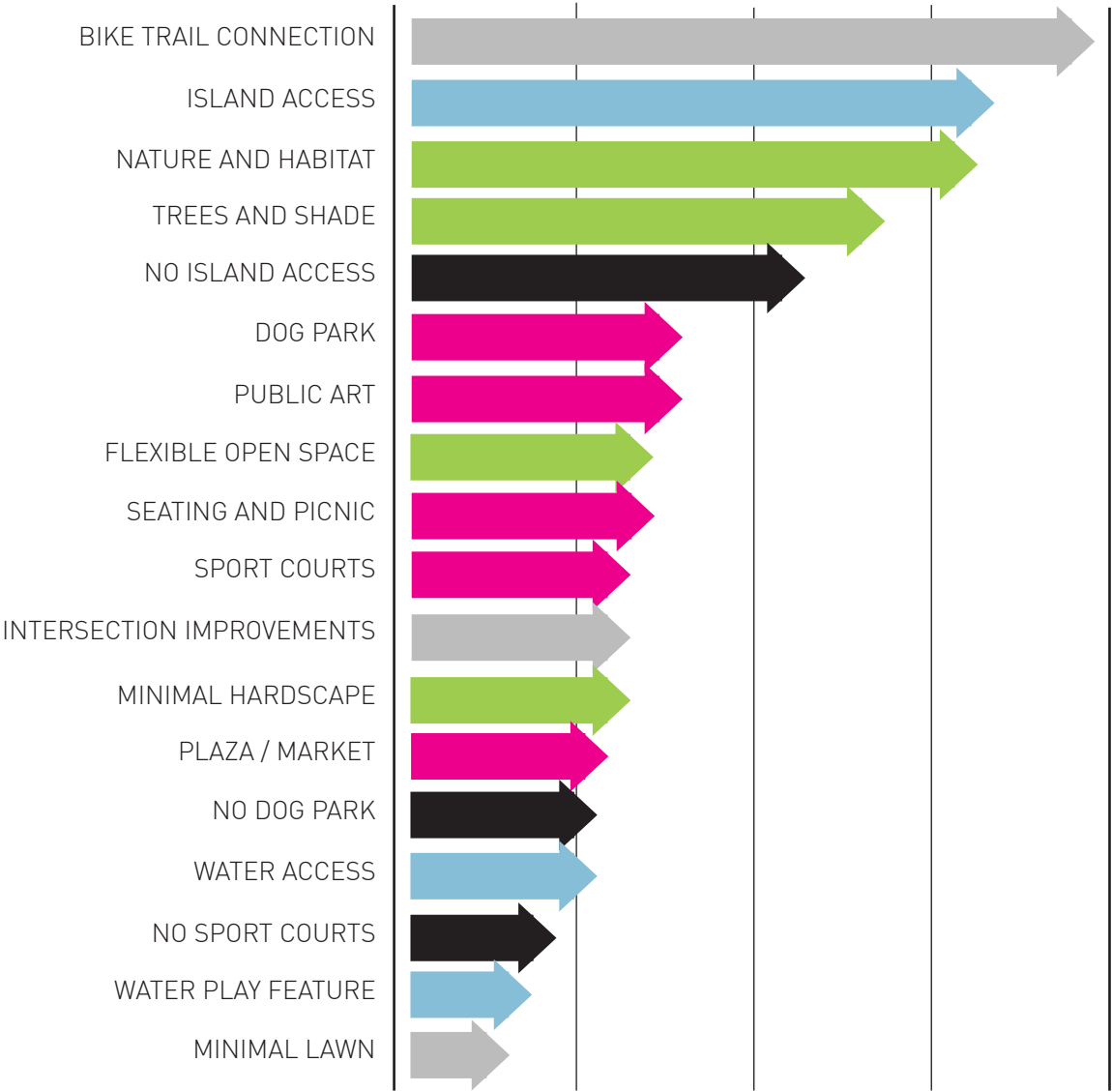
Birch Plywood Interior finish provides material warmth, durability and low embodied carbon use.

**EMBODIED CARBON  
REDUCTION MEASURES**





COMMUNITY  
ENGAGEMENT  
MATRIX



COMMUNITY  
PREFERRED  
ACTIVITIES