

A RESTORATIVE SPACE FOR ALL

PEDESTRIAN NORTH CANAL STREET



Meghan Dunn
Penn State Landscape Architecture
LARCH 414 Pittsburgh Studio
Spring 2021

CONTENTS

01	INTRODUCTION
02	SHARPSBURG CONTEXT
03	CONCEPT STATEMENT
04	SITE SYSTEMS
05	NORTH SIDE SITE SYSTEMS
06	SOUTHSIDE SITE SYSTEMS
07	NORTH FAÇADE TREATMENT
08	SOUTH FAÇADE TREATMENT
09	GROUND MATERIALS AND FURNISHINGS
10	ROOFTOP FURNISHINGS AND SYSTEMS
11	ROOFTOPS- A HAVEN FOR BIRDS AND BEES
12	CAPTURING RAINWATER ON SITE
13	GREEN ROOFS AND WALLS
14	GROUND DRAINAGE
15	COMMUNITY PHASING
16	ACKNOWLEDGMENTS

SHARPSBURG AT A GLANCE

NORTH CANAL- THE CENTER OF TOWN



A detailed historical map of Sharpsburg, Maryland, from 1882. The map shows a grid of streets with labels such as '1st Wd', '2nd Wd', '3rd Wd', and '4th Wd'. A prominent railroad line runs diagonally across the map, labeled 'RAIL ECONOMY - 1882'. The map also shows various buildings, parks, and landmarks, including 'St. John's Church' and 'St. Mary's Church'. The title 'SHARPSBURG' is prominently displayed at the bottom, with 'ALLEGHENY' written below it.

HIGHWAY ECONOMY - 1967³



SHARPSBURG FAMILY WORSHIP CENTER

LINDEN GYMNASIUM
SHARPSBURG RECREATION CENTER

PITTSBURGH BELLYDANCE ACADEMY AT ART IN MOTION

CONSTANCE OCTOBER HOME GOODS/ SUSANN DEZI BEAUTY SALON

NORTHERN AREA MULTI-SERVICES CENTER

HITCHHIKER BREWING - BREWERY & TAP ROOM

KENNEDY PARK

SHARPSBURG MARKET GARDEN

SHARPSBURG COMMUNITY GARDEN

SHARPSBURG COMMUNITY LIBRARY/POSTAL OFFICE

JAMES SHARP LANDING

RAY SCHAFER BOXING ASSOCIATION

MT OLIVE BAPTIST CHURCH

FAMILY DOLLAR

STEELERS AND PENGUINS PUB

BROTHER TOM'S BAKERY

D AND E COLLECTIBLES - VINTAGE & COLLECTIBLE TOYS

GINO BROS PIZZA BAR

BIG PATS BAR/GRILL

MADONNA OF JERUSALEM CHURCH

SARA'S PETS AND PLANTS

KENNETH D. CURLEY MEMORIAL PARK

BIG SHOT BOB'S HOUSE OF WINGS

THE WATSON INSTITUTE

CLAY STREET

STATION STREET

MAIN STREET

NORTH CANAL STREET

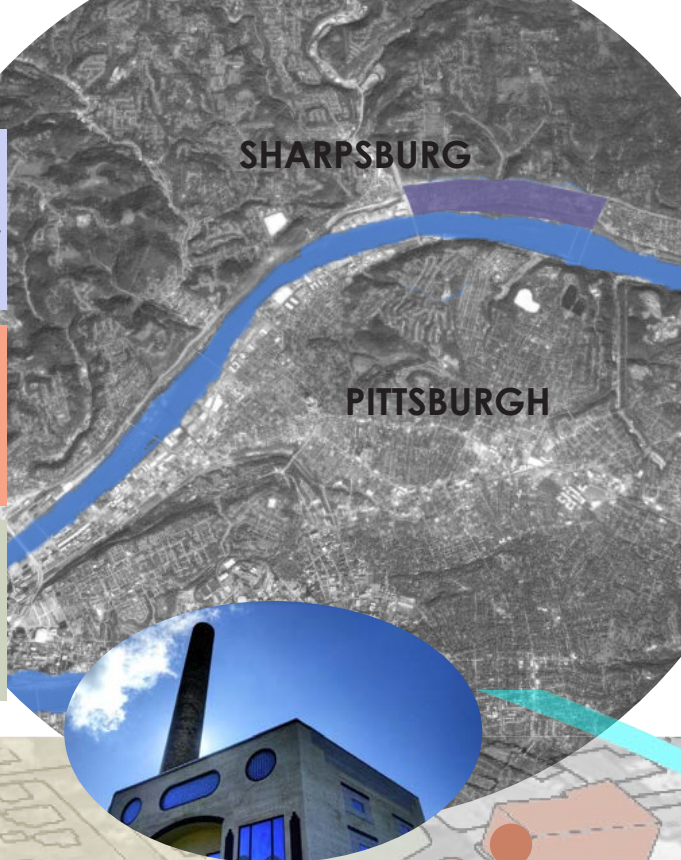
13TH STREET

10TH STREET

ALLEGHENY VALLEY EXPY

5 MINUTE WALK 0.25 MILES

DANCING GNOME
• PITTSBURGH PENNSYLVANIA •





PEDESTRIANIZED NORTH CANAL

Utilize the main street opportunity on North Canal to draw the community and visitors to Sharpsburg's local economy and businesses.

By adding in affordable food markets, restaurants and food related events, **Sharpsburg can honor its rich culinary history and H.J. Heinz.**

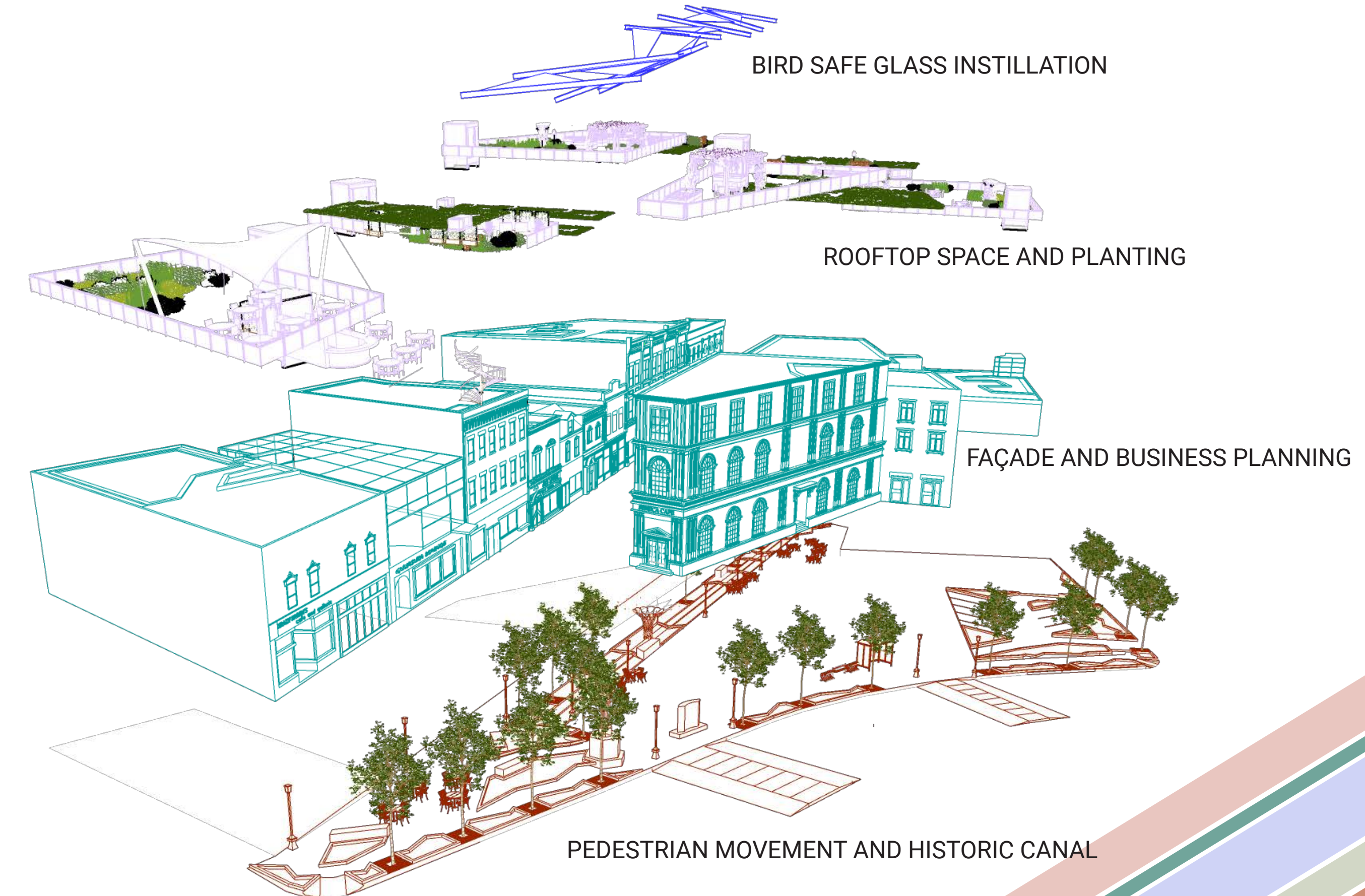
Foster community building and growth through a more involved downtown experience, growing business and personal interactions.

Create a space for local events to occur, making Sharpsburg a hub for beer, food, art, and culture.

Establish ecological design to increase tree cover, pedestrian, and bike access, and connect to the riverfront.

Create an environment for a multiplicity of businesses to thrive, ensuring a variety of opportunities.

PEDESTRIANIZED NORTH CANAL



BIRD SAFE GLASS INSTALLATION

ROOFTOP SPACE AND PLANTING

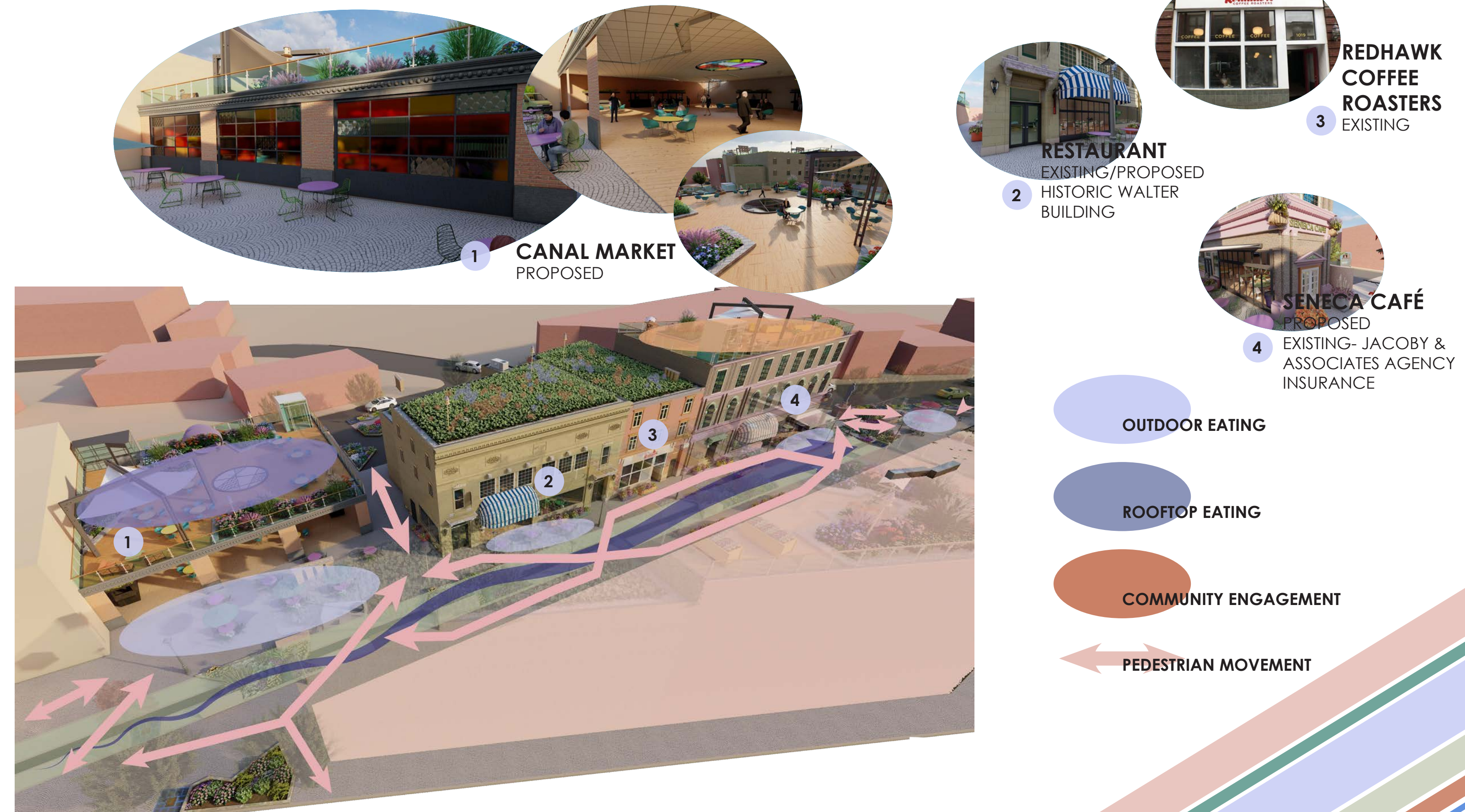
FAÇADE AND BUSINESS PLANNING

PEDESTRIAN MOVEMENT AND HISTORIC CANAL

NORTH SIDE SITE SYSTEMS



SOUTH SIDE SITE SYSTEMS



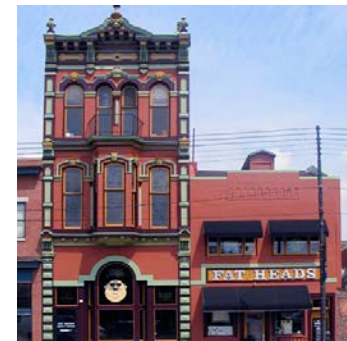
NORTH FAÇADE TREATMENT

CREATING A MAIN STREET



PITTSBURGH ARCHITECTURE

North Canal Street could be Sharpsburg's new Main street, a center for commerce, community, and growth. The existing façade structures on this street provide an opportunity to drive the notorious Pittsburgh architectural character and main street design. Following the construction of the Historic Pittsburgh City Hall in 1872, designed in the French Manner style, the city began to take on similar styles which were Romanesque, Gothic, and Eclectic, taking some influence from Greek Revival. These styles implement classic and intricate ornamentation, most notably utilizing the column, which is one of the most recognizable elements of the classic design. While there is little information about the façade design of each building on North Canal while the buildings were in these styles, there are still plenty of precedents around the city and even Sharpsburg to create a vibrant main street.

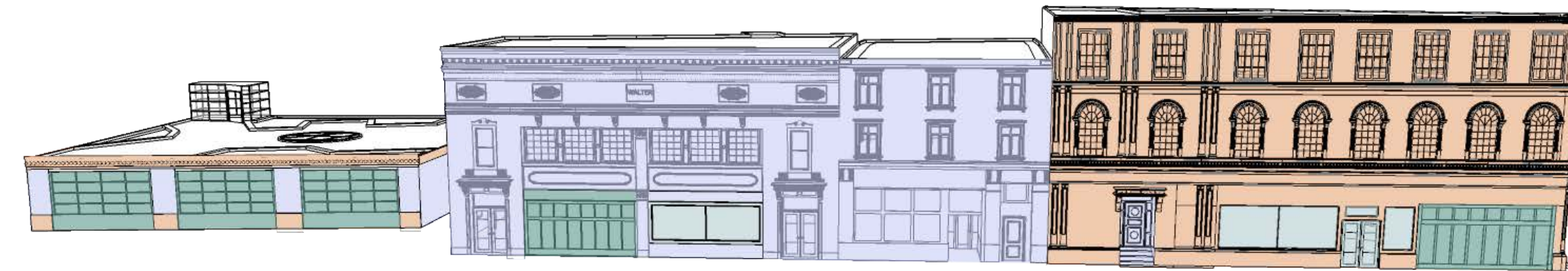


PITTSBURGH FAÇADE DESIGN



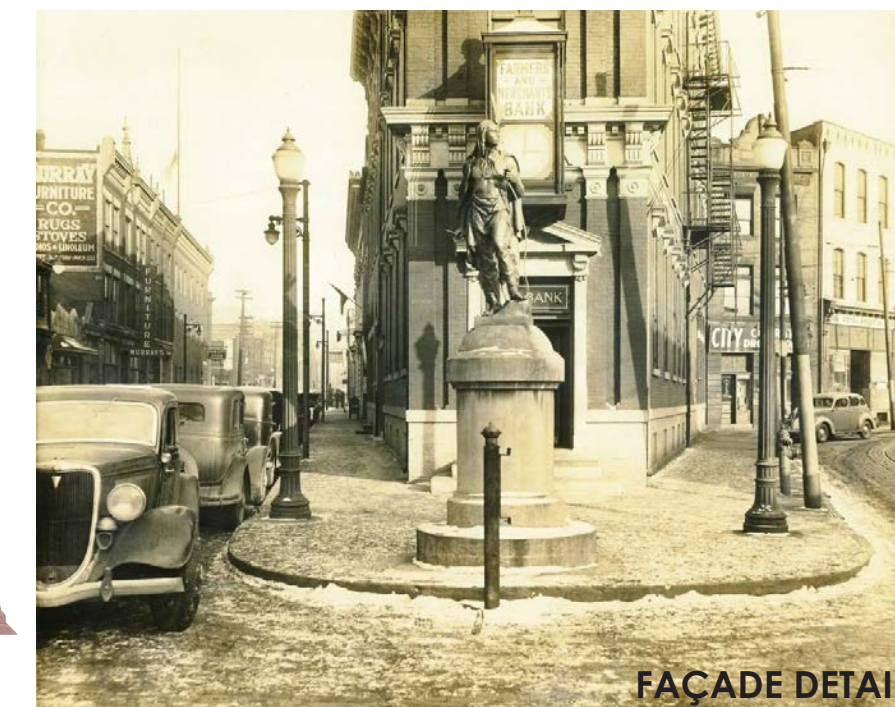
SOUTH FAÇADE TREATMENT

RESTORING HISTORY



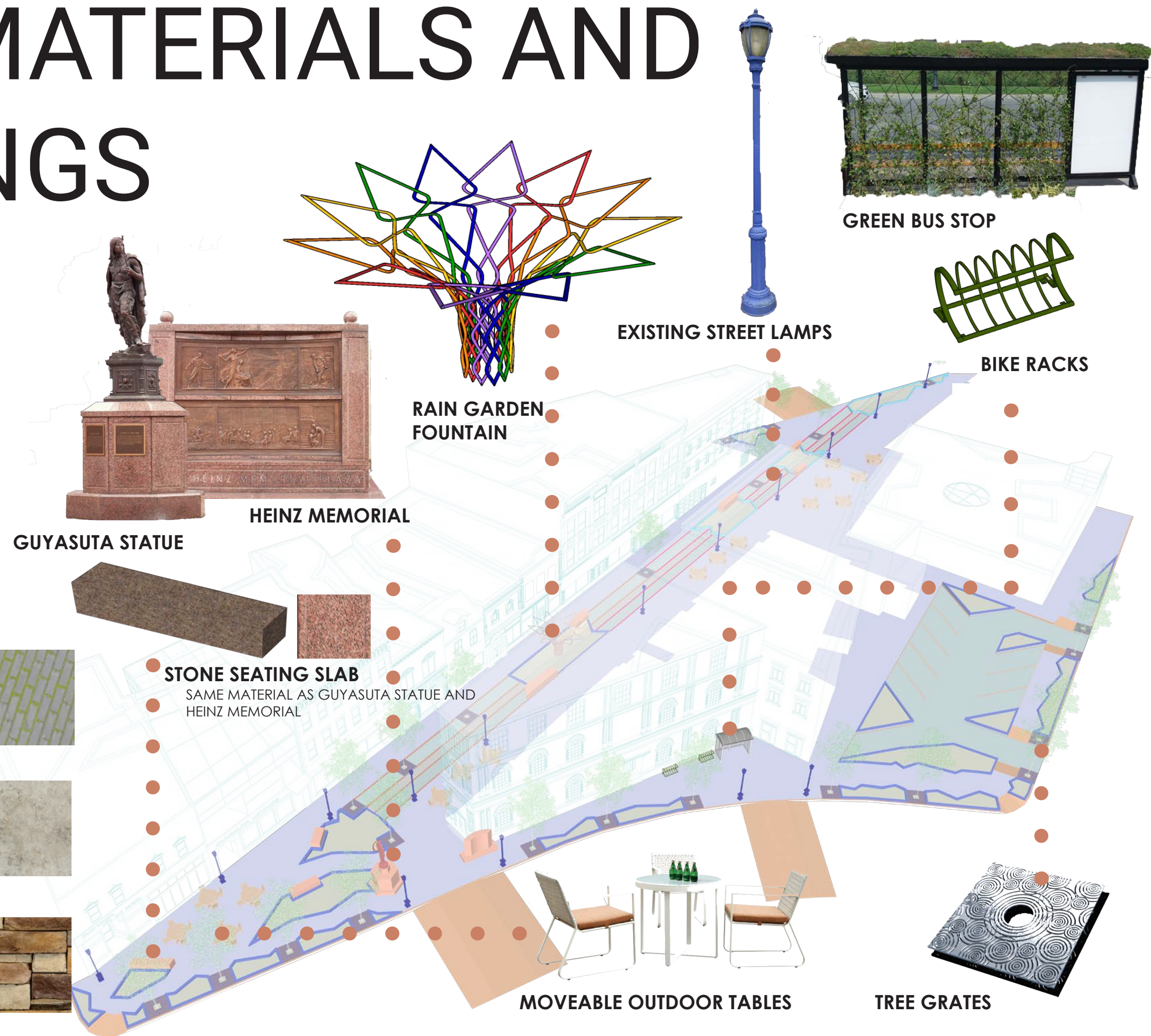
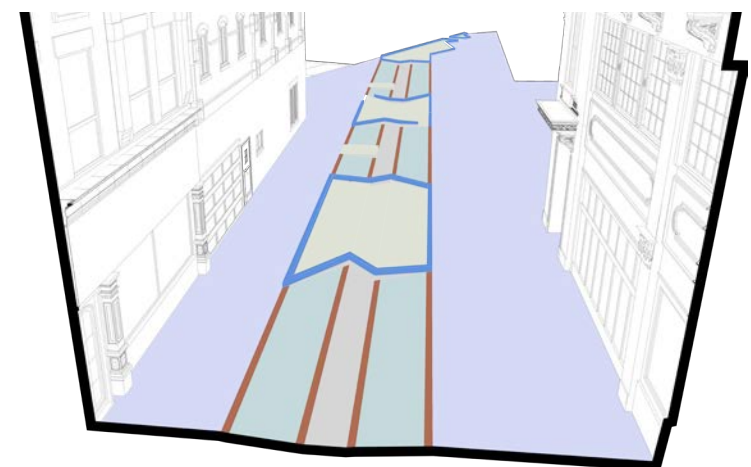
BANK FAÇADE RECONSTRUCTION

Even though there is little evidence of what historic North Canal Street looked like in the years of Romanesque and Gothic design, there are some pictures of the bank that once stood at the center of Heinz Memorial Plaza. Considering this building is the anchor point for the street and can be seen when approaching from Main Street, the façade should be a statement. Efforts to recreate historic façades is already a practice in Pittsburgh through programs created by Urban Redevelopment Authority of Pittsburgh and many others.

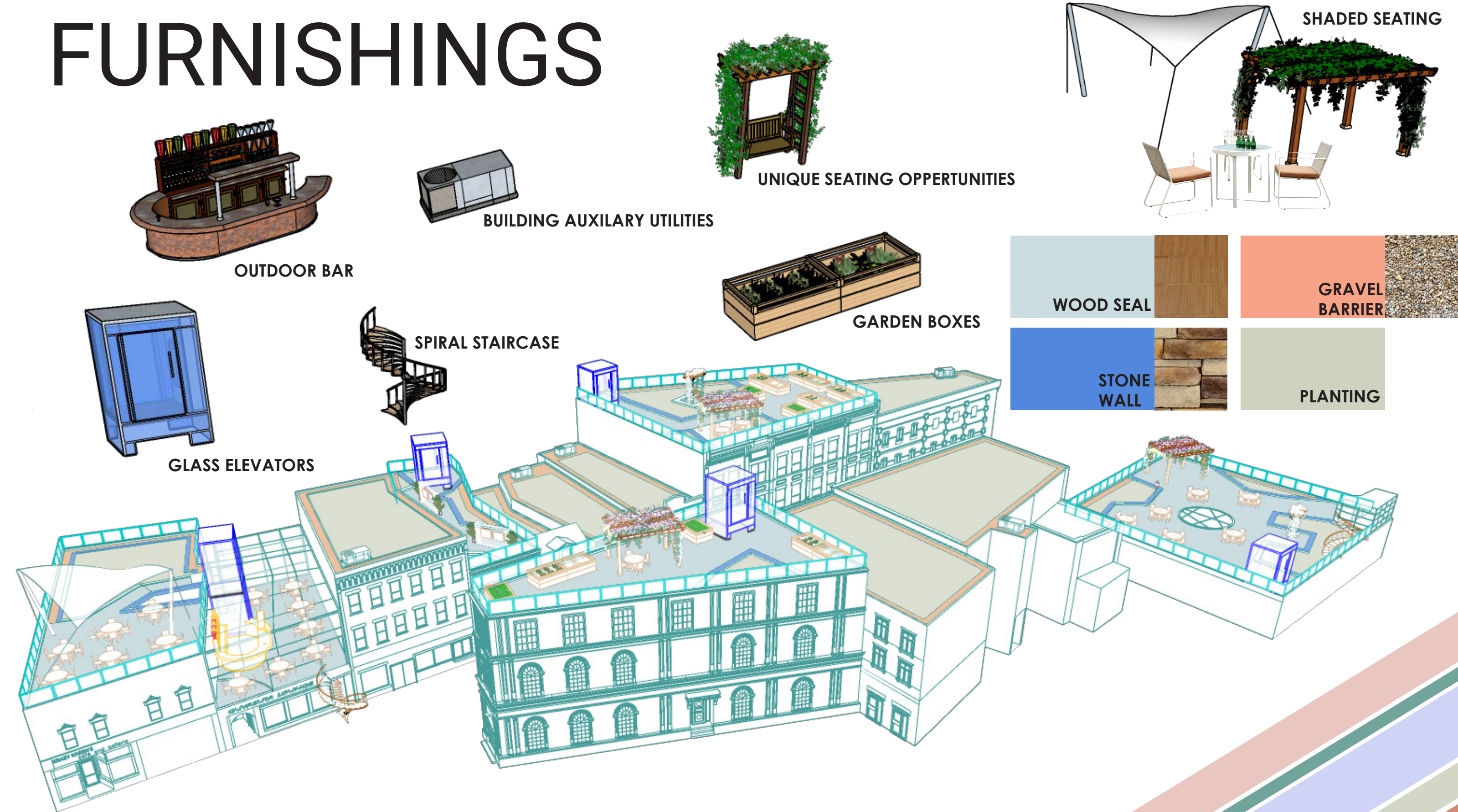


GROUND MATERIALS AND FURNISHINGS

GROUND MATERIALS PALETTE



ROOFTOP MATERIALS AND FURNISHINGS



URBAN WILDLIFE

A HAVEN FOR BIRDS, BEES, AND BUTTERFLIES

ROOFTOP GARDEN PLANTING

Black-Eyed-Susan
Rudbeckia hirta



Great Blue Lobelia
Lobelia siphilitica



Wand Panic Grass
Panicum virgatum



Little False Bluestem
Schizachyrium scoparium



Gray Goldenrod
Solidago nemoralis



Smooth Blue American-Aster
Symphyotrichum laeve



STREET TREE

Tatarian Maple
Acer tataricum



BUTTERFLY GARDEN PLANTING

Bee Balm
Monarda didyma



Blazing Star
Liatris spicata



Butterfly Milkweed
Asclepias tuberosa



Golden Alexanders
Zizia aurea



Ironweed
Vernonia sp.



Viburnum
Viburnum sp.



ROOFTOP HAVENS



Bird-Safe Windows



Sparrow



Hummingbird



Gold Finch



Robin



Cardinal



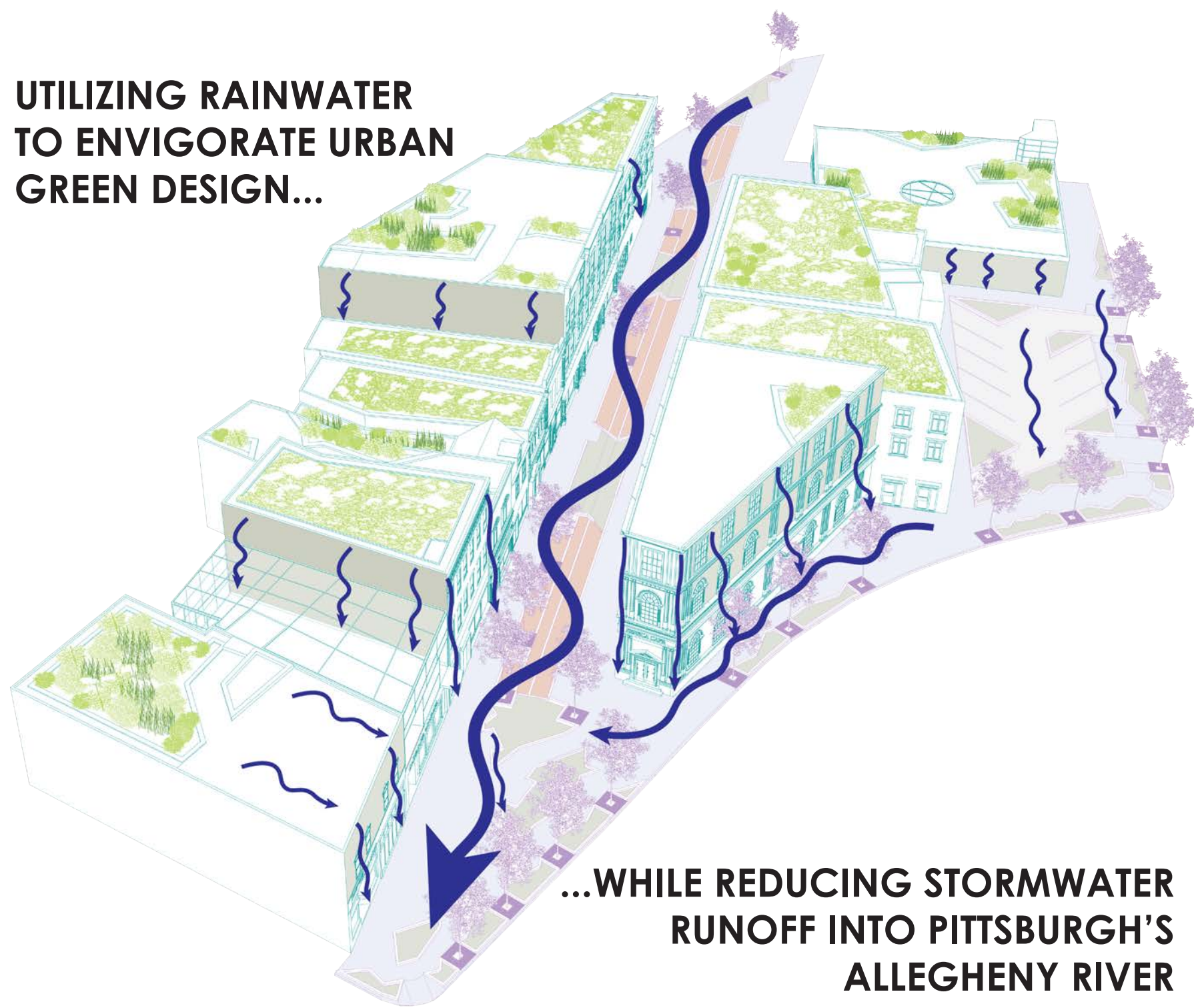
Glass Installation

The sky is for the birds, so the rooftops of North Canal Street will be too. Often, urban environments can be dangerous for wildlife, especially birds as buildings rise into their place in the clouds. North Canal will become a haven for birds and bees as the rooftops transform into habitats through green roofs and bird-safe furnishings. Hives and bird houses will provide safety for wildlife in an ever-changing environment, while bird-safe windows will protect birds from collision. Collision with transparent surfaces like windows has impacted bird populations because they cannot distinguish what is a safe space for them to fly. The glass installation over the street will not only draw the birds in through desirable colors and design, but will also warn the animals that they are entering an urban space that may not be safe. This is especially a problem at night, as wildlife will move towards light, including urban light pollution, so the glass installation will also provide a warning for birds flying overhead in the dark.

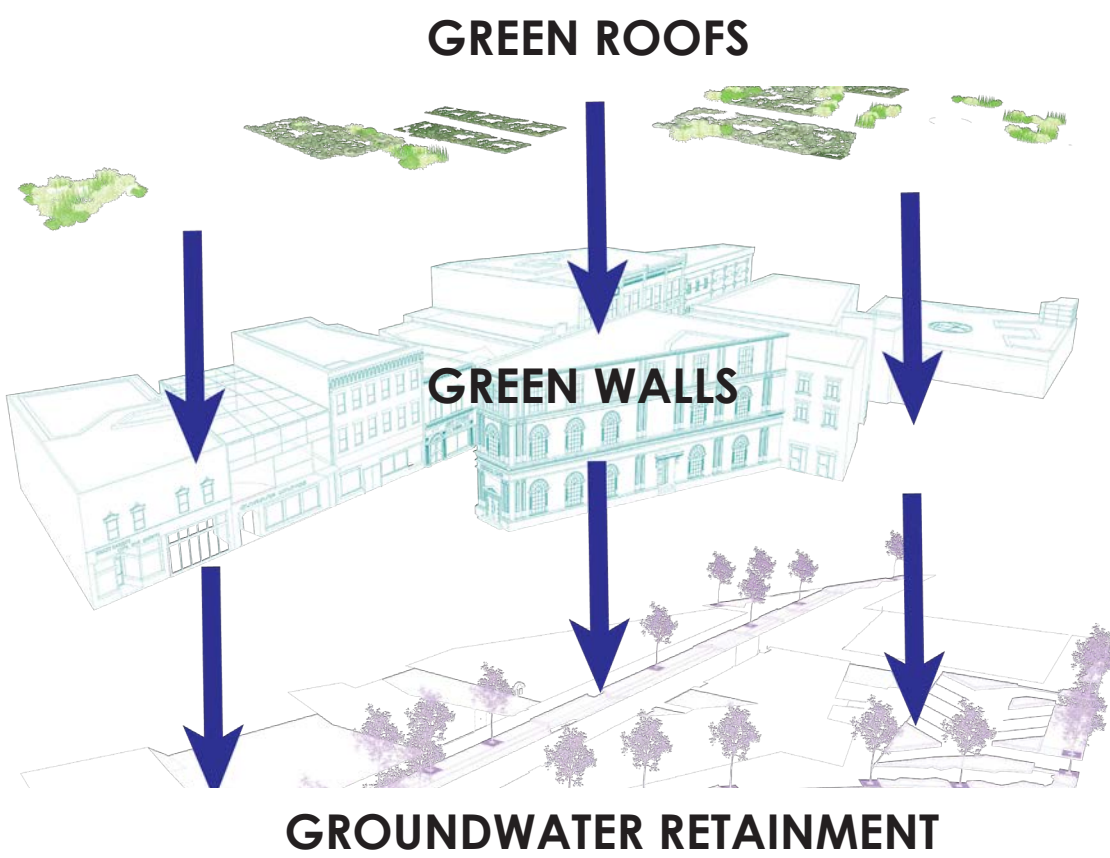
CAPTURING RAIN WATER ON SITE

A TIERED APPROACH

UTILIZING RAINWATER
TO ENVIGORATE URBAN
GREEN DESIGN...



...WHILE REDUCING STORMWATER
RUNOFF INTO PITTSBURGH'S
ALLEGHENY RIVER



Conscious rainwater drainage design is going to become an even more pressing issue in Sharpsburg as the sea levels continue to rise. North Canal Street is currently bordering the floodplain, so in the coming years stormwater will need to become a priority in every aspect of design. Reducing rainwater through a tiered system will reduce runoff from rooftops to street, thus, significantly reducing street runoff. Rainwater is captured through a variety of planting strategies and materials in order to increase transpiration and evaporation while increasing biodiversity in an urban environment.



GREEN ROOFS AND WALLS

REDUCING ROOFWATER RUNOFF

EXTENSIVE GREEN ROOFS



SEDUM MIX

SUMMER

WINTER

SPRING

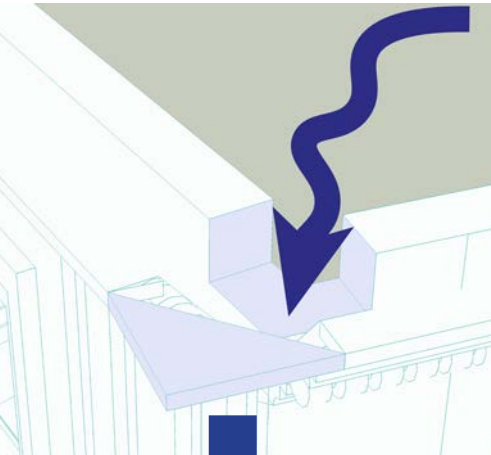
INTENSIVE GREEN ROOFS



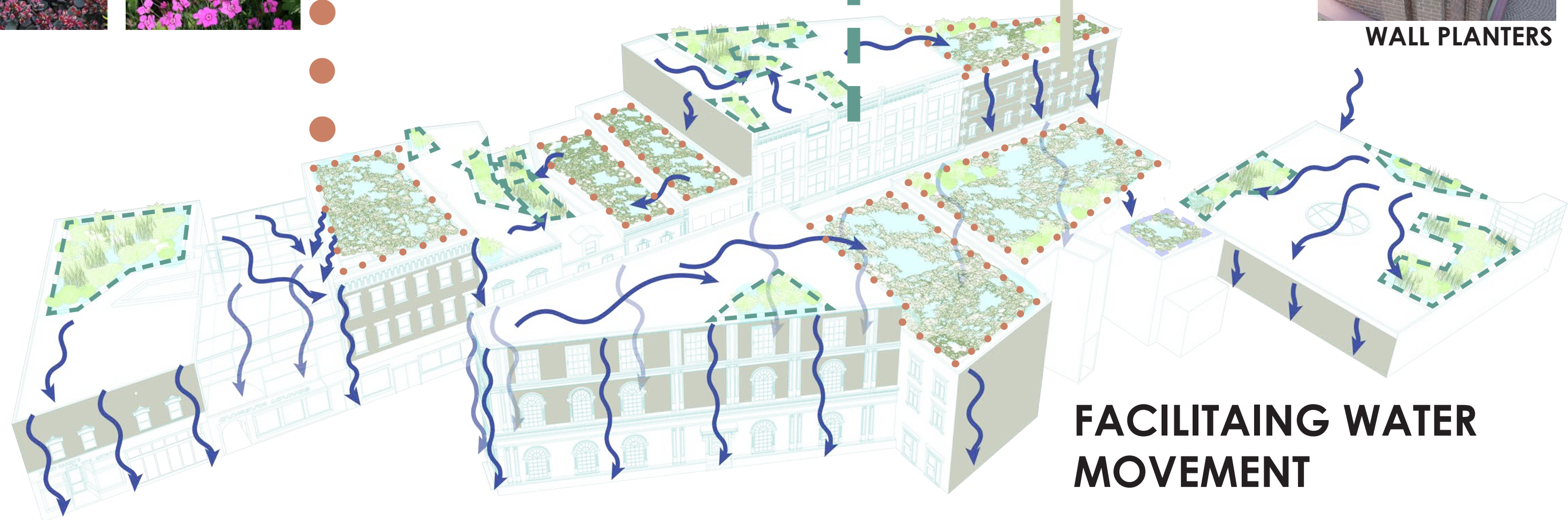
GREEN WALLS



CORNICE SPECIFICATIONS



WALL PLANTERS



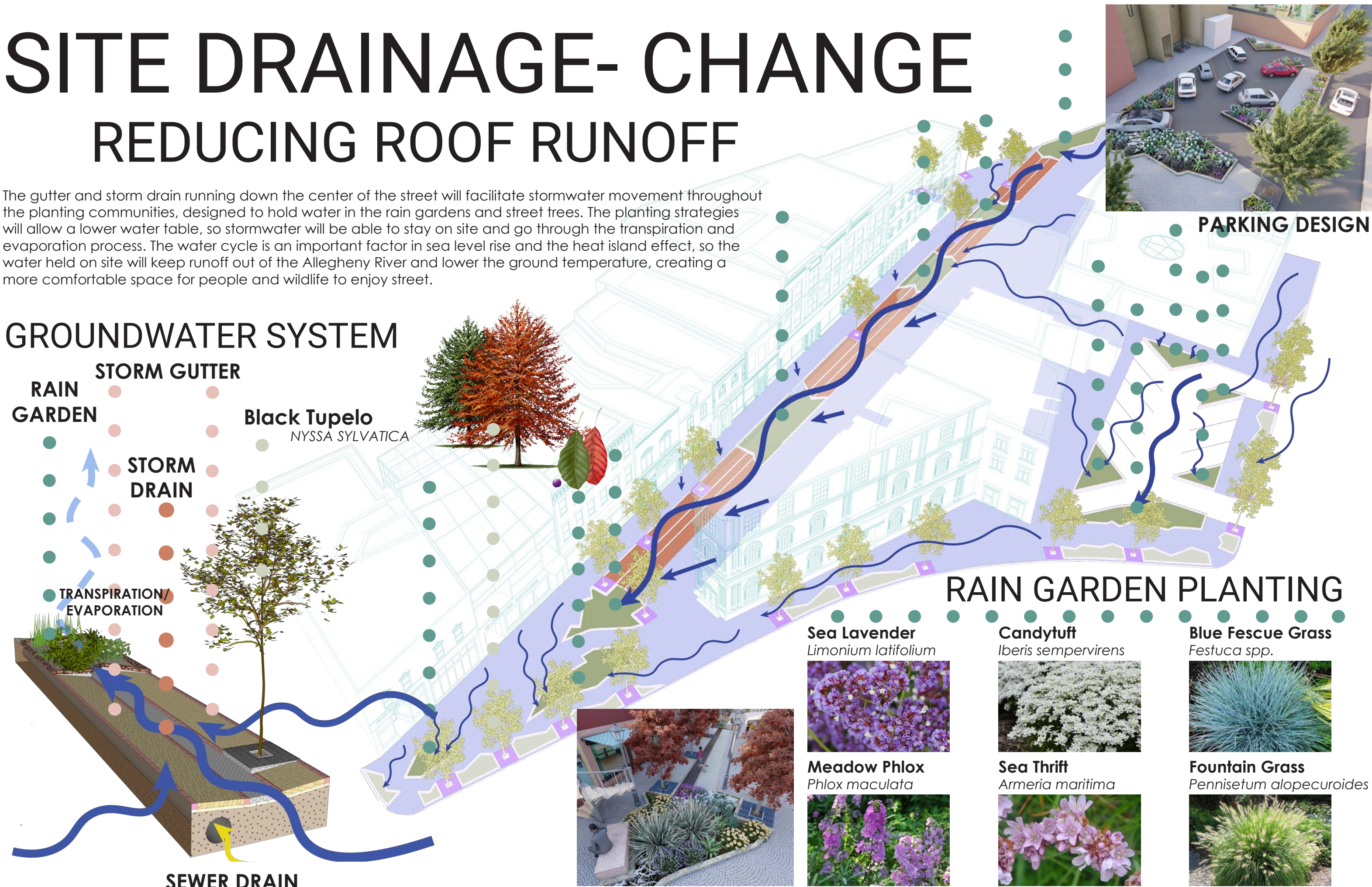
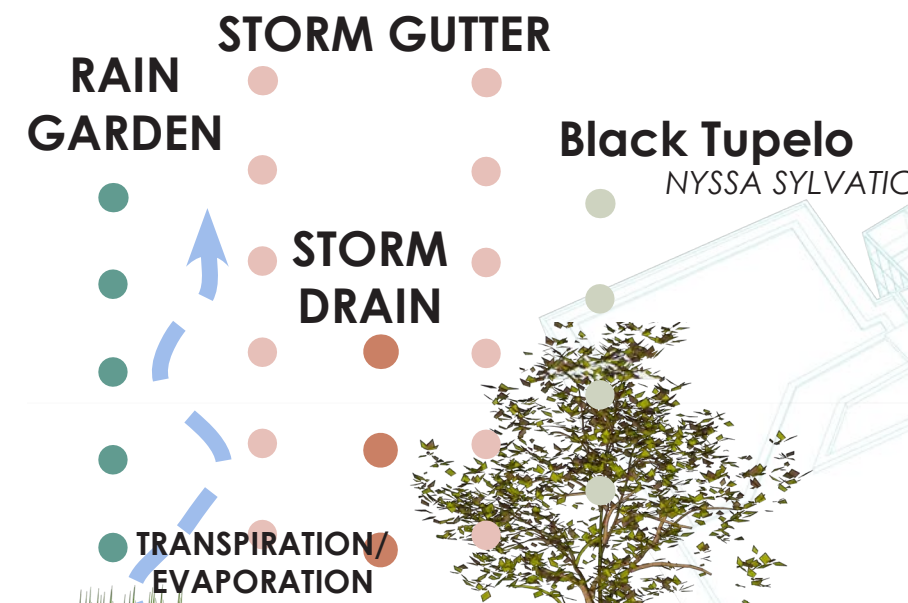
FACILITAING WATER
MOVEMENT

SITE DRAINAGE- CHANGE

REDUCING ROOF RUNOFF

The gutter and storm drain running down the center of the street will facilitate stormwater movement throughout the planting communities, designed to hold water in the rain gardens and street trees. The planting strategies will allow a lower water table, so stormwater will be able to stay on site and go through the transpiration and evaporation process. The water cycle is an important factor in sea level rise and the heat island effect, so the water held on site will keep runoff out of the Allegheny River and lower the ground temperature, creating a more comfortable space for people and wildlife to enjoy street.

GROUNDWATER SYSTEM



A SPACE FOR THE COMMUNITY

TO GATHER AND CELEBRATE

EVENTS



NORTH CANAL STREET

A RESTORATIVE SPACE FOR ALL



Thank you to Sharpsburg's Community
and Partners.



PennState Center
Pittsburgh