



# GATHERER'S POINT

DECENTRALIZED, RESILIENT FOOD SYSTEM FOR NYC

INTEGRATING RESEARCH, URBAN FARMING, MARKET, FOOD PROCESSING, AND EDUCATION

## GATHERER'S POINT

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POINT

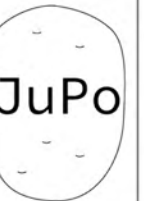
ATV:  
URBAN  
SYSTEMS  
INTEGRATION

CONSULTANTS:

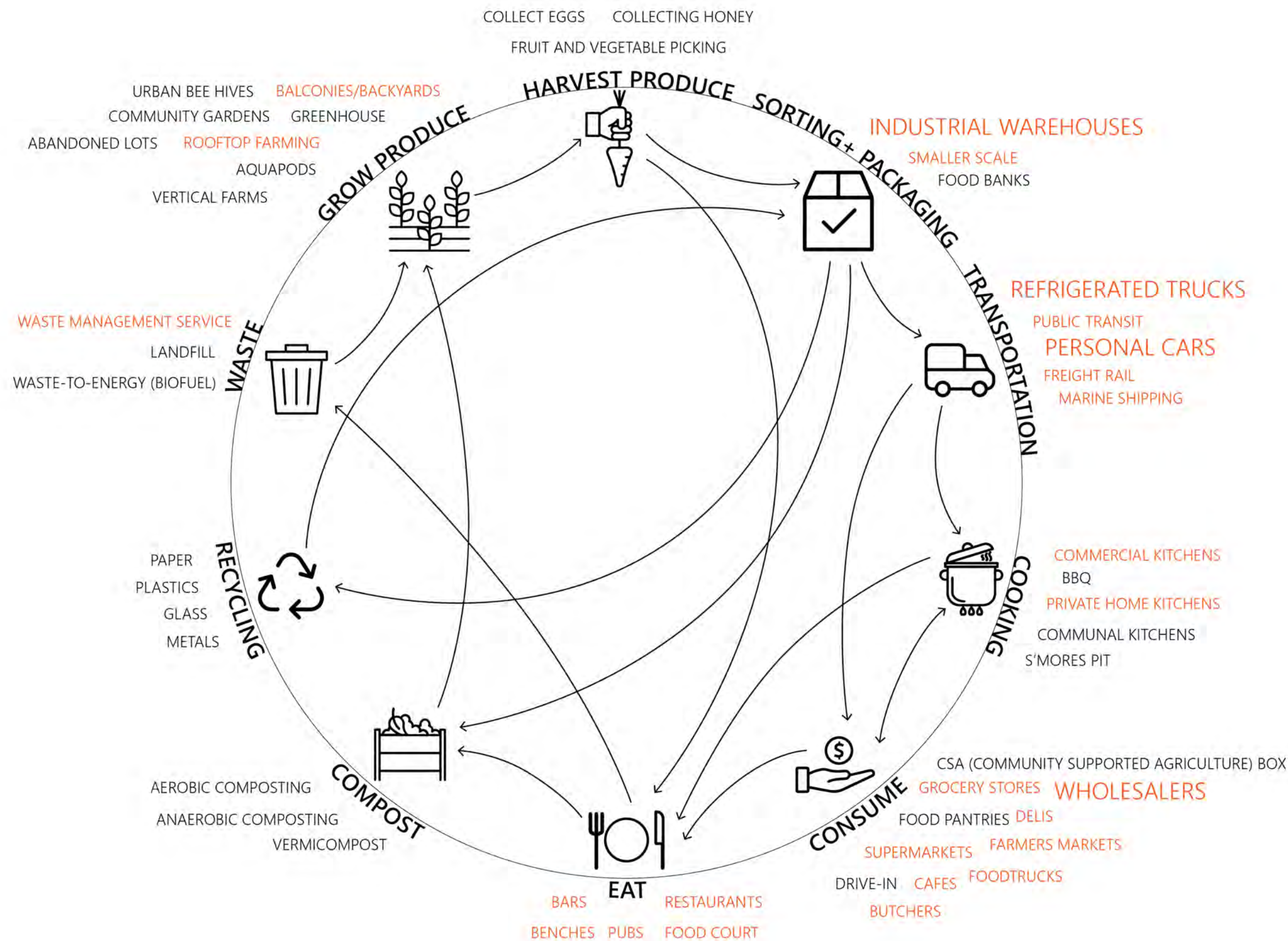
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VINCENT LEE  
(ARUP)  
JOSH MARGUL  
(BUROHAPPOLD)  
THOMAS SLATER  
(TRANSSOLAR)

TEAM:

SIXUAN LIU  
VERA MONTARE  
SAVORY  
TIANYU YANG  
CHARLOTTE YU



# CONCEPT - FOOD



→ FOOD FLOW    ORANGE: ACTIVITIES EXISTING IN 10-MIN WALKING RADIUS FROM SITE    BLACK: POTENTIAL ACTIVITIES

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ATV: URBAN SYSTEMS INTEGRATION

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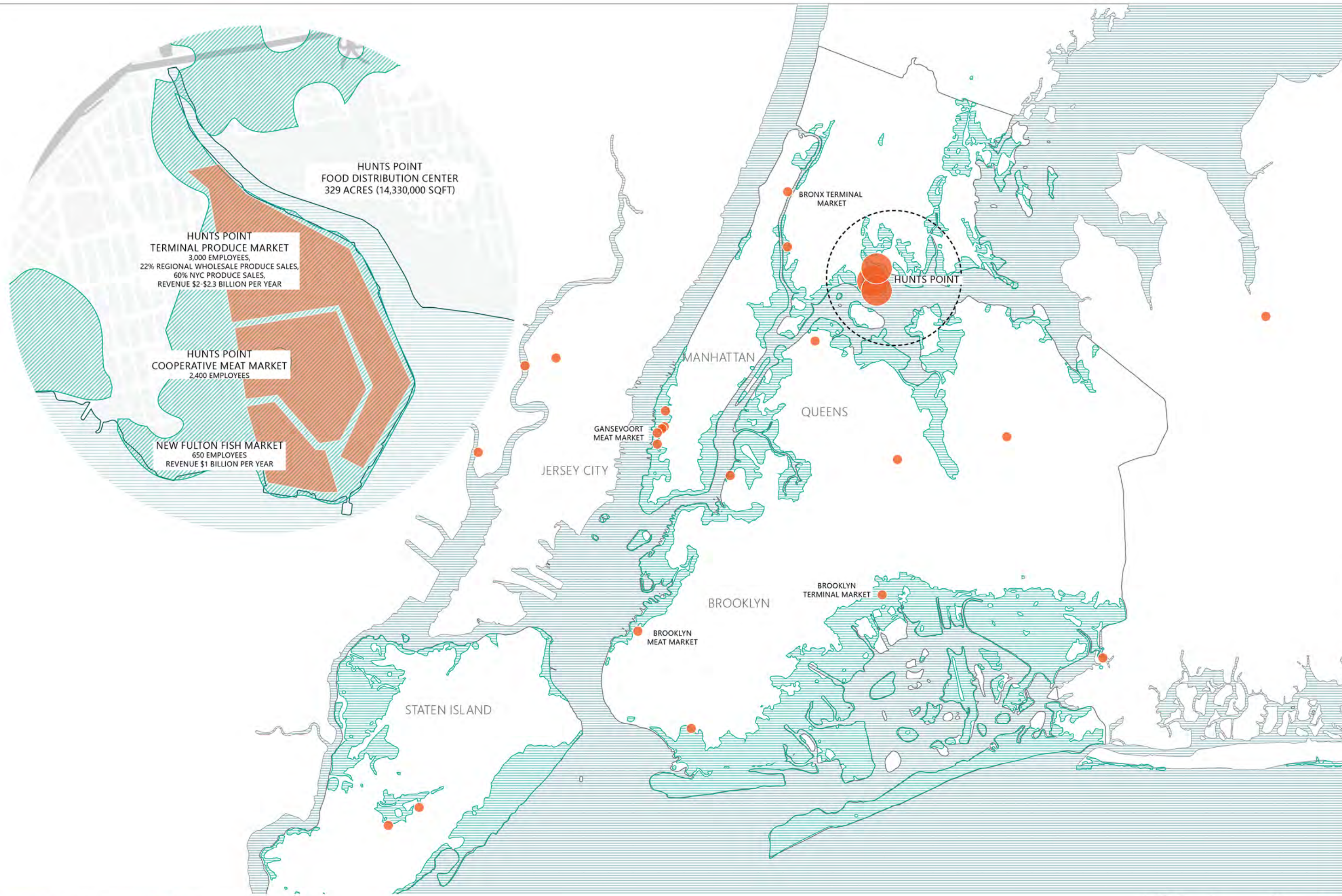
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# FOOD IN NYC



**HUNTS POINT FOOD DISTRIBUTION CENTER**  
329 ACRES (14,330,000 SQFT)

**HUNTS POINT TERMINAL PRODUCE MARKET**  
3,000 EMPLOYEES,  
22% REGIONAL WHOLESALE PRODUCE SALES,  
60% NYC PRODUCE SALES,  
REVENUE \$2-\$2.3 BILLION PER YEAR

**HUNTS POINT COOPERATIVE MEAT MARKET**  
2,400 EMPLOYEES

**NEW FULTON FISH MARKET**  
650 EMPLOYEES  
REVENUE \$1 BILLION PER YEAR

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2050 FLOOD PLAIN    FOOD MARKETS

0 1/4 1/2 1 2 MI

# MULTIMODAL FOOD HUB OPPORTUNITIES

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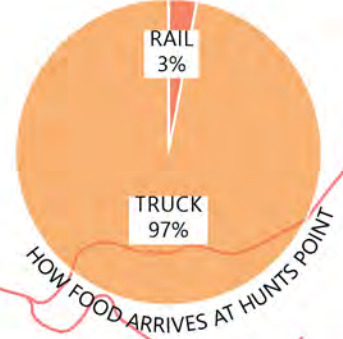
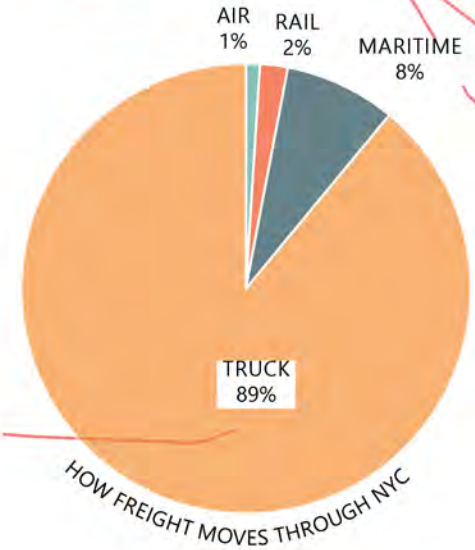
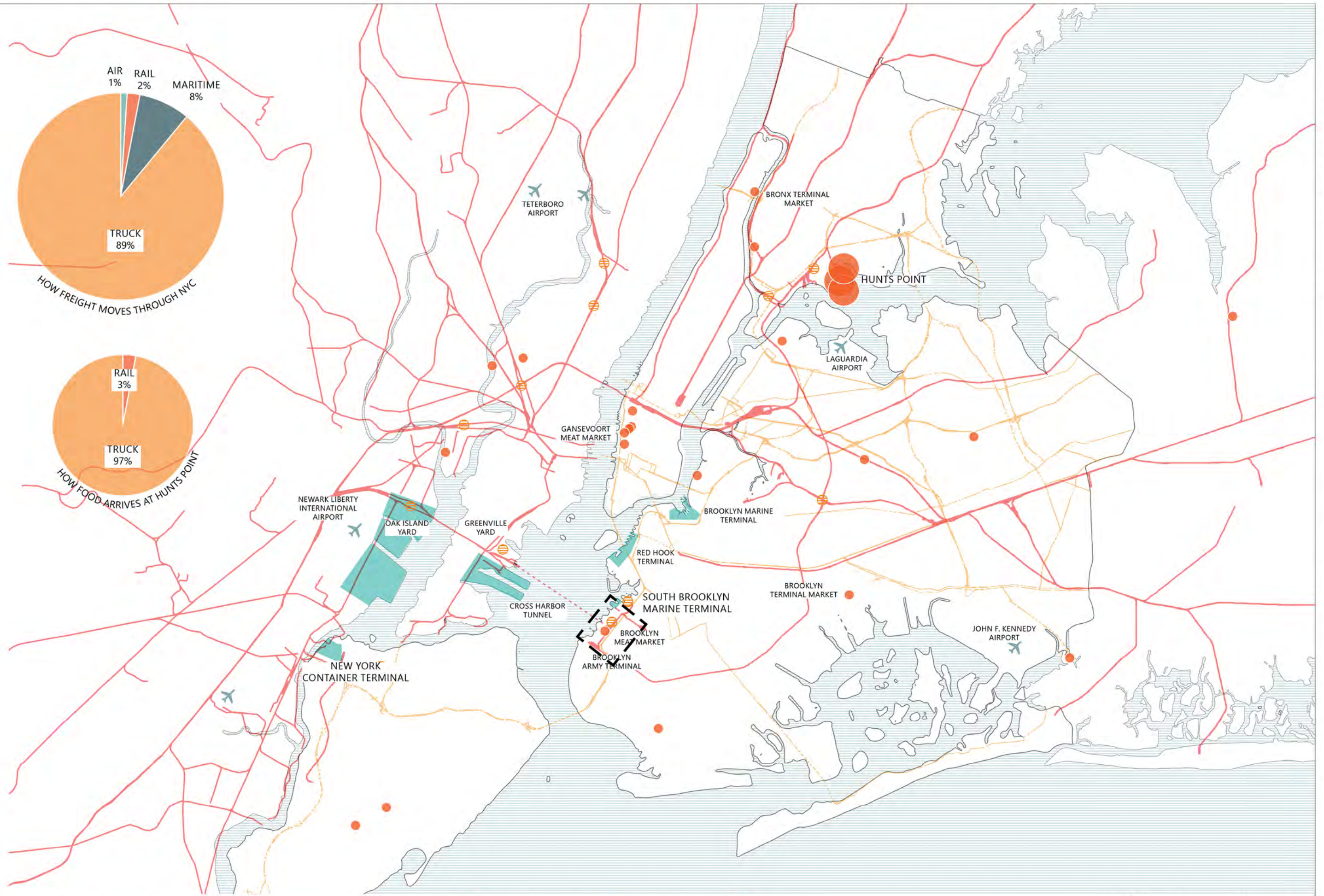
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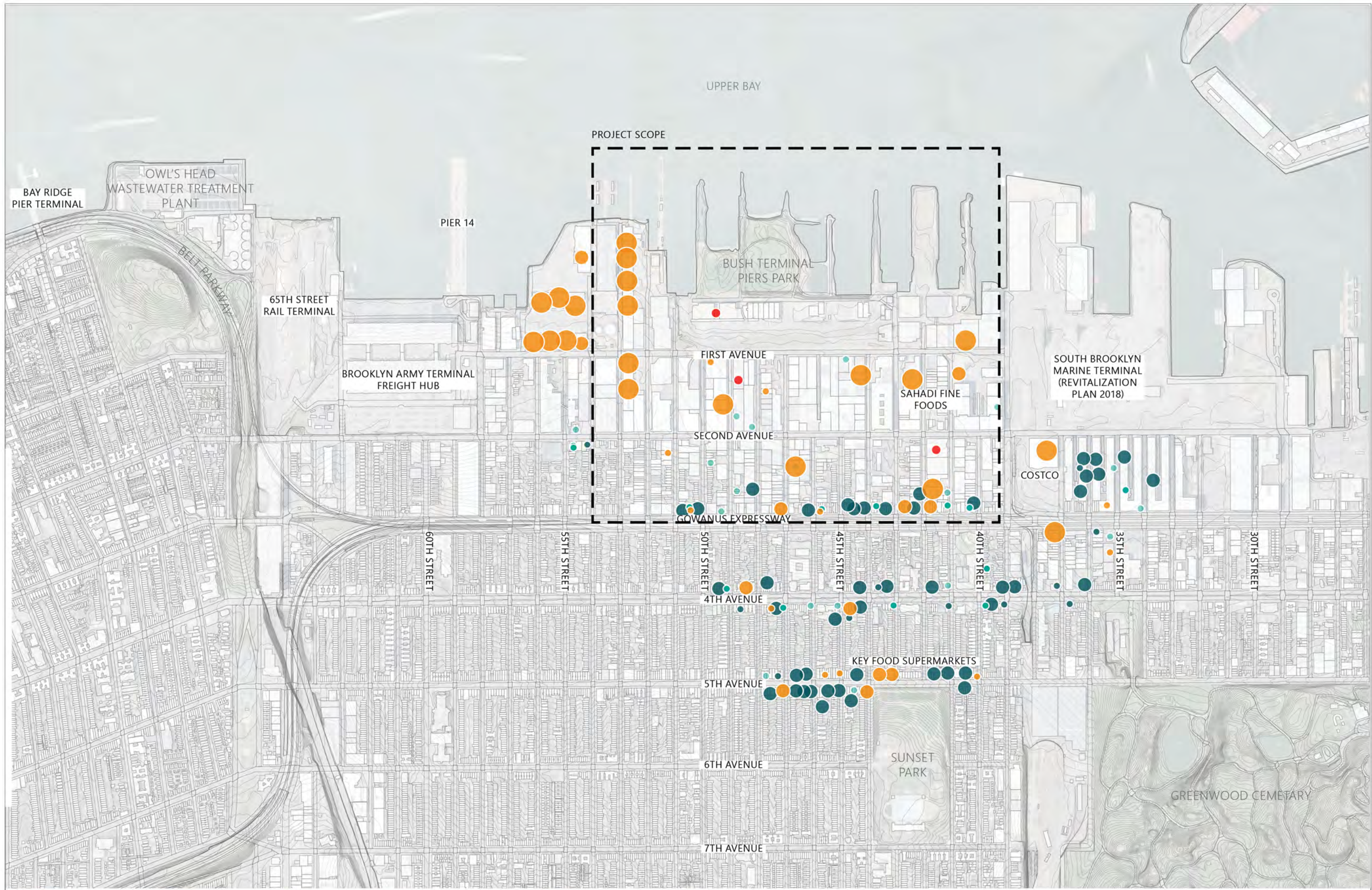
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— FREIGHT TRAIN   
 - - - CROSS RAIL HARBOR TUNNEL   
 — MAJOR TRUCK ROUTES   
 ■ MARINE TERMINALS   
 ● FREIGHT STATION   
 ● FOOD MARKETS



# EXISTING LOCAL FOOD BUSINESSES



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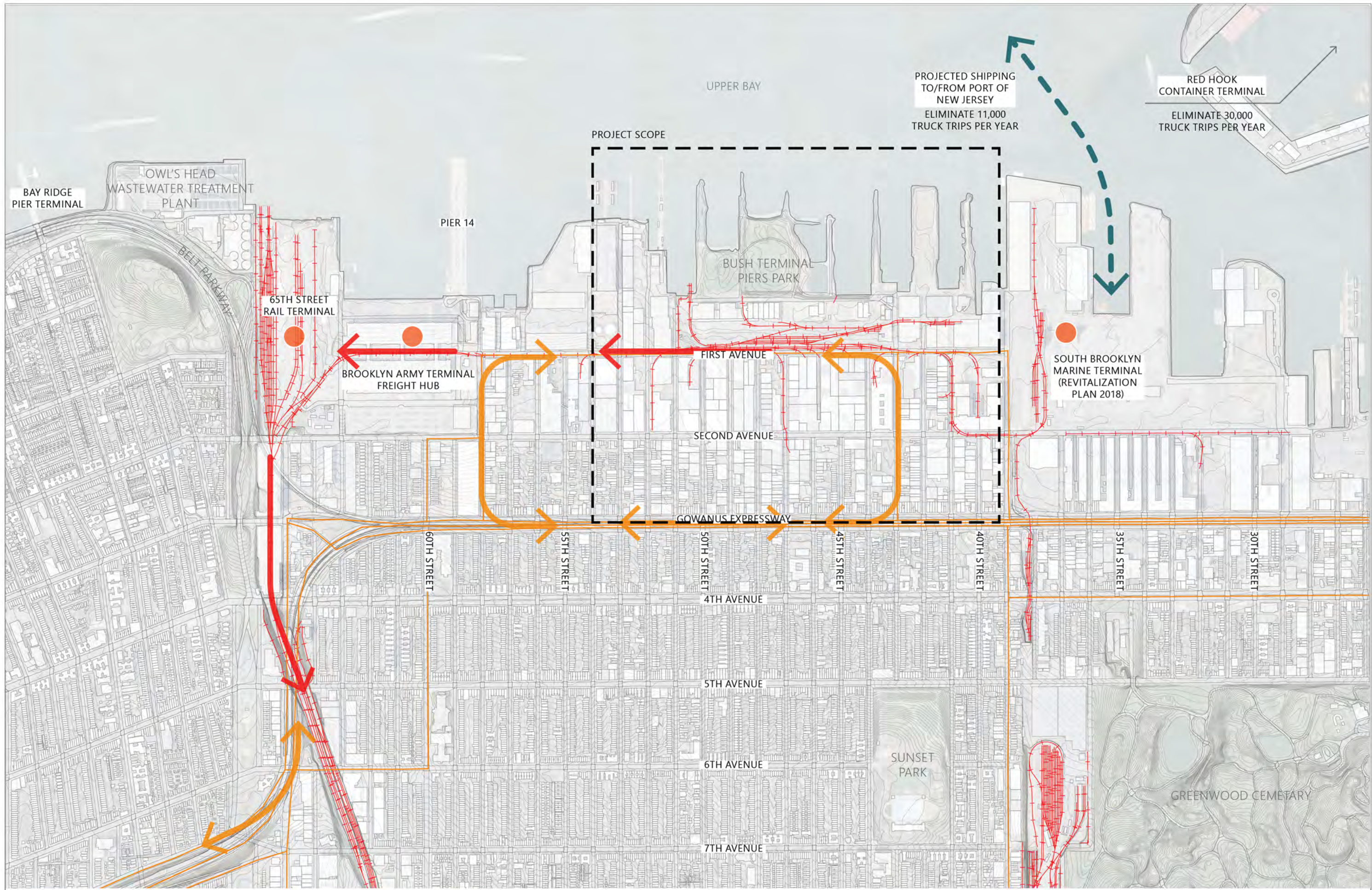
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● WHOLESALERS  
 ● SUPERMARKETS  
 ● GROCERY STORES  
 ● DELIS/CAFE/BAKERY/BAR  
 ● SIT DOWN RESTAURANT  
 ● FAST CASUAL RESTAURANT

0 100 200 400 800 1600 FT

# EXISTING FREIGHT NETWORK



— FREIGHT TRAIN   
 — TRUCK ROUTES   
 — SHIPPING   
 ● FREIGHT HUBS

0 100 200 400 800 1600 FT

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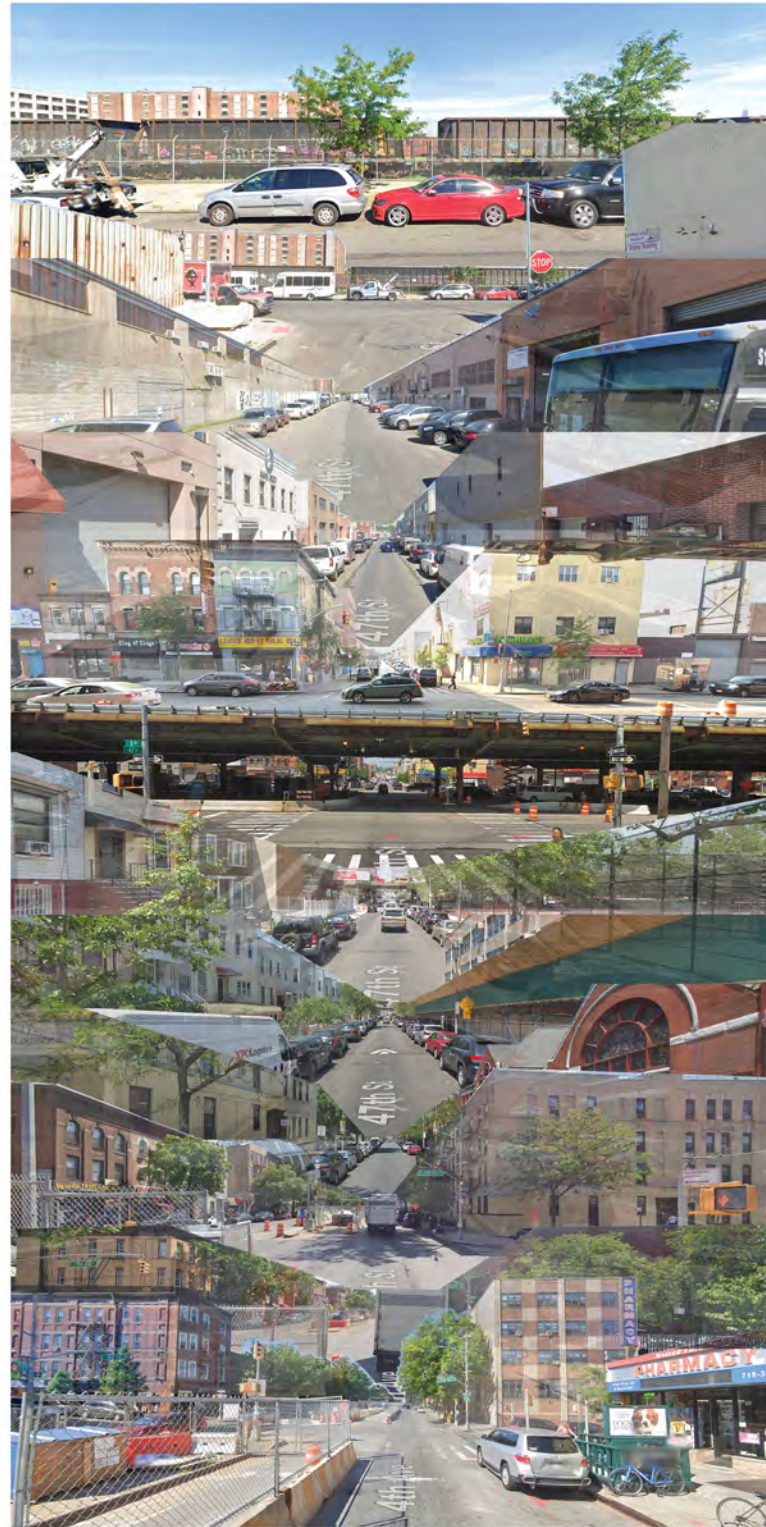
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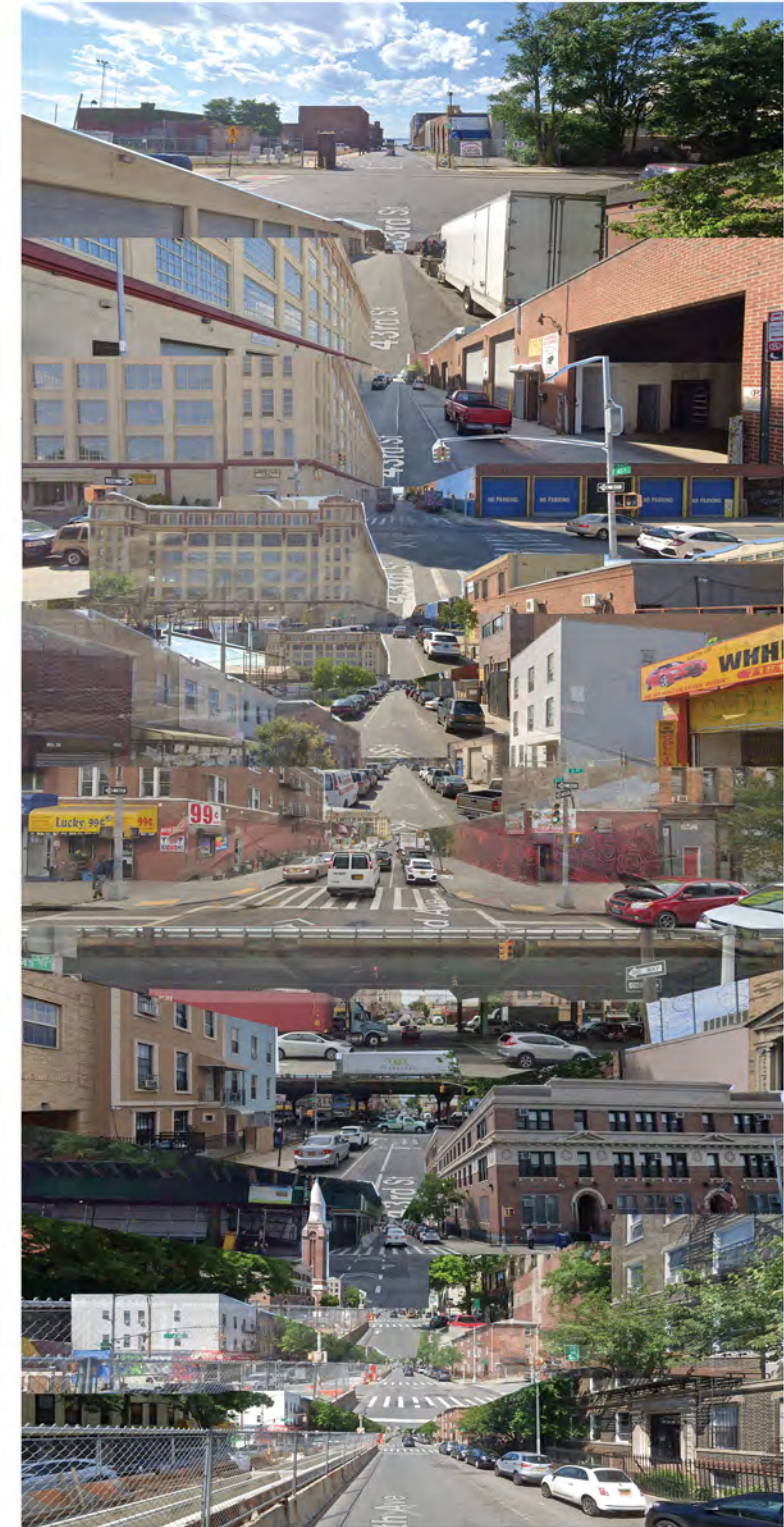




4TH AVE TO 50TH



4TH AVE TO 47TH



4TH AVE TO 44TH

# WALKING EXPERIENCE

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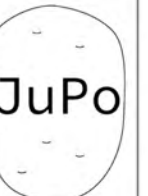
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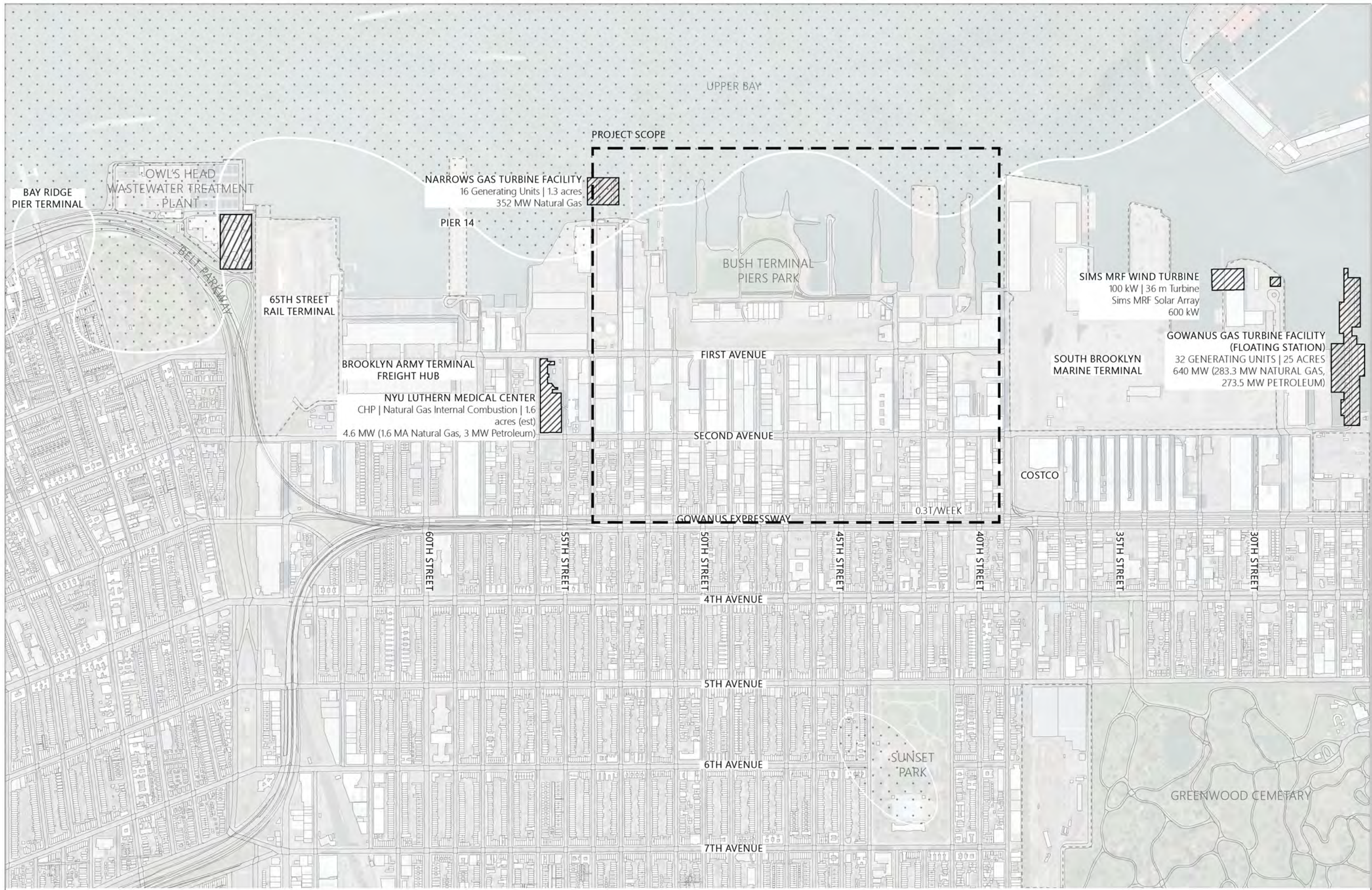
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# EXISTING ENERGY RESOURCES



**NARROWS GAS TURBINE FACILITY**  
 16 Generating Units | 1.3 acres  
 352 MW Natural Gas

**SIMS MRF WIND TURBINE**  
 100 kW | 36 m Turbine  
 Sims MRF Solar Array  
 600 kW

**GOWANUS GAS TURBINE FACILITY (FLOATING STATION)**  
 32 GENERATING UNITS | 25 ACRES  
 640 MW (283.3 MW NATURAL GAS,  
 273.5 MW PETROLEUM)

**NYU LUTHERN MEDICAL CENTER**  
 CHP | Natural Gas Internal Combustion | 1.6 acres (est)  
 4.6 MW (1.6 MA Natural Gas, 3 MW Petroleum)

**BAY RIDGE PIER TERMINAL**

**OWL'S HEAD WASTEWATER TREATMENT PLANT**

**65TH STREET RAIL TERMINAL**

**BROOKLYN ARMY TERMINAL FREIGHT HUB**

**BUSH TERMINAL PIERS PARK**

**SOUTH BROOKLYN MARINE TERMINAL**

**COSTCO**

**GOWANUS EXPRESSWAY**

**0.3T/WEEK**

**SUNSET PARK**

**GREENWOOD CEMETARY**

EXISTING POWER PLANT ONSHORE WIND

0 100 200 400 800 1600 FT

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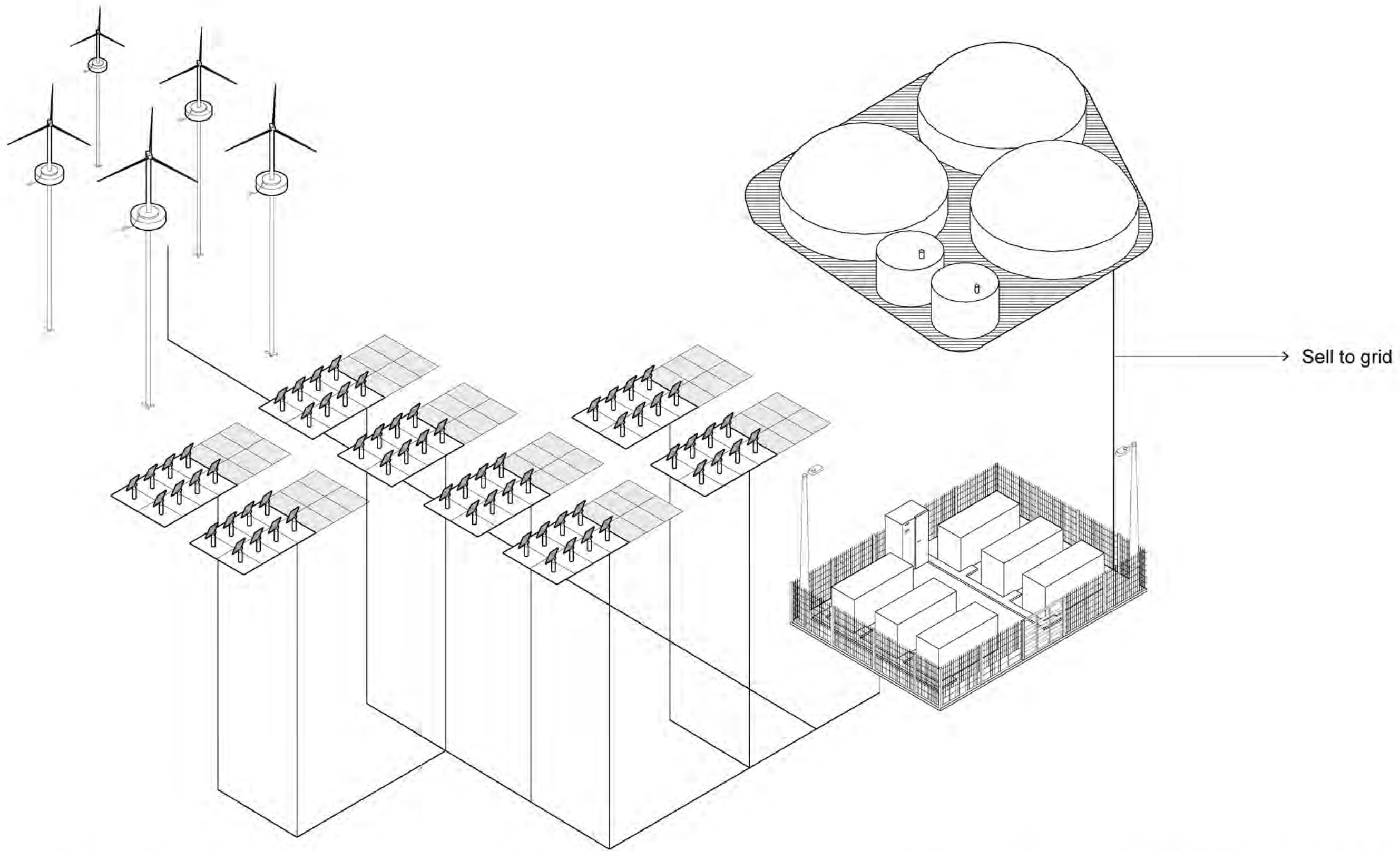
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Offshore Wind Turbine: 52%

Solar Array: 48%

Biomass: 4%

NET ZERO MICROGRID

# NET ZERO MICROGRID

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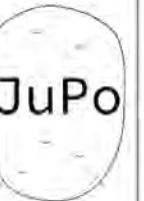
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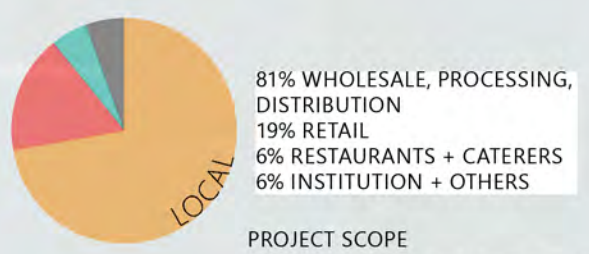
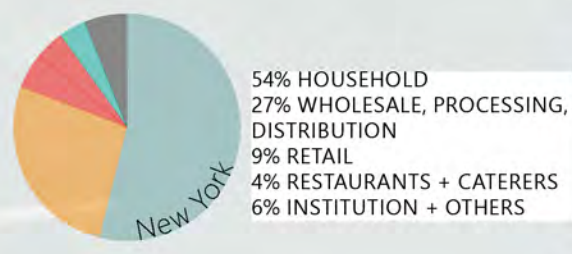
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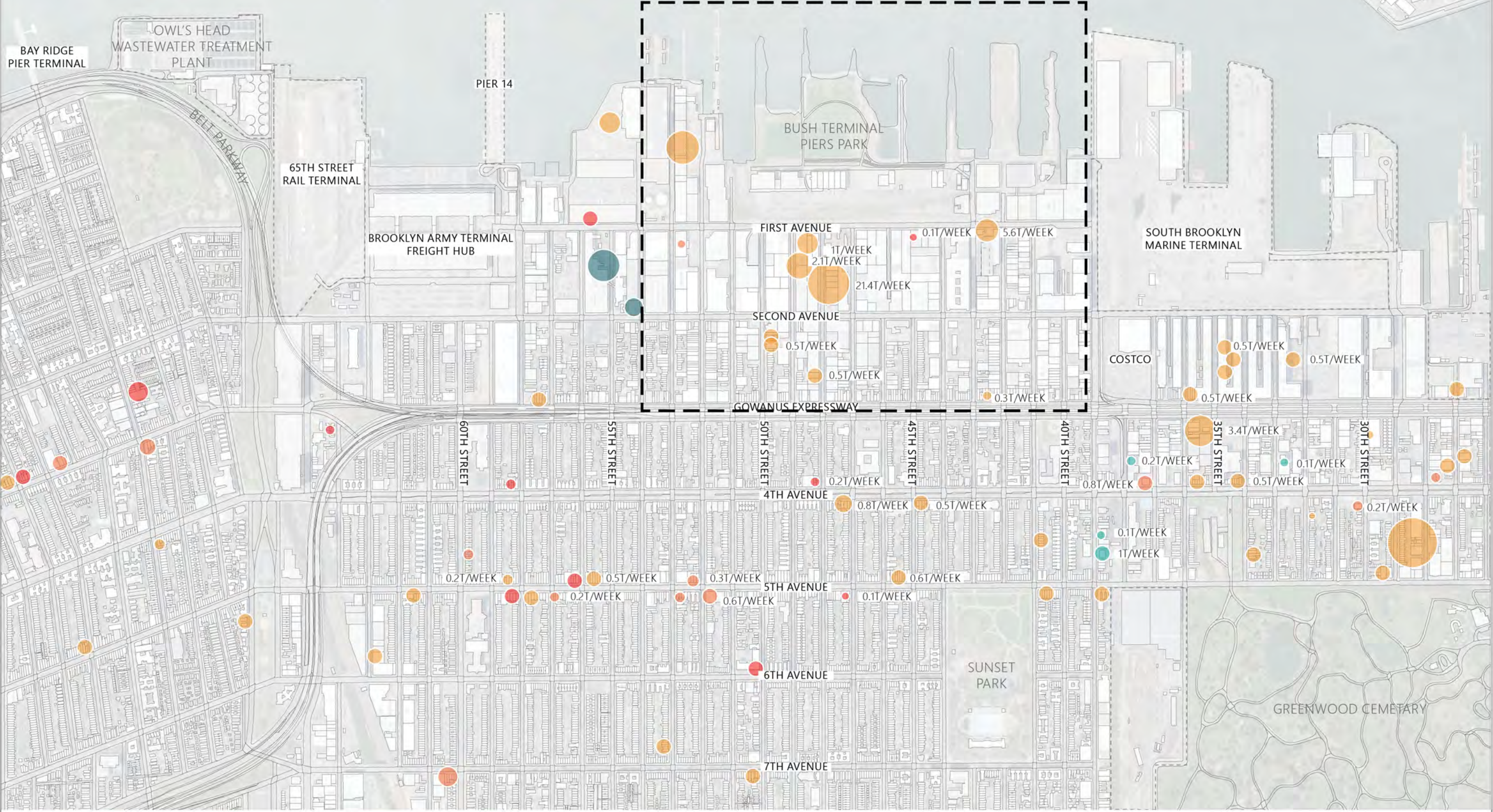
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# POTENTIAL WASTE TO ENERGY RESOURCES



PROJECT SCOPE



● RETAIL   
 ● RESTAURANTS   
 ● FOOD PROCESSING   
 ● HOSPITALITY   
 ● INSTITUTES



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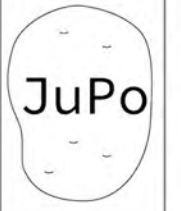
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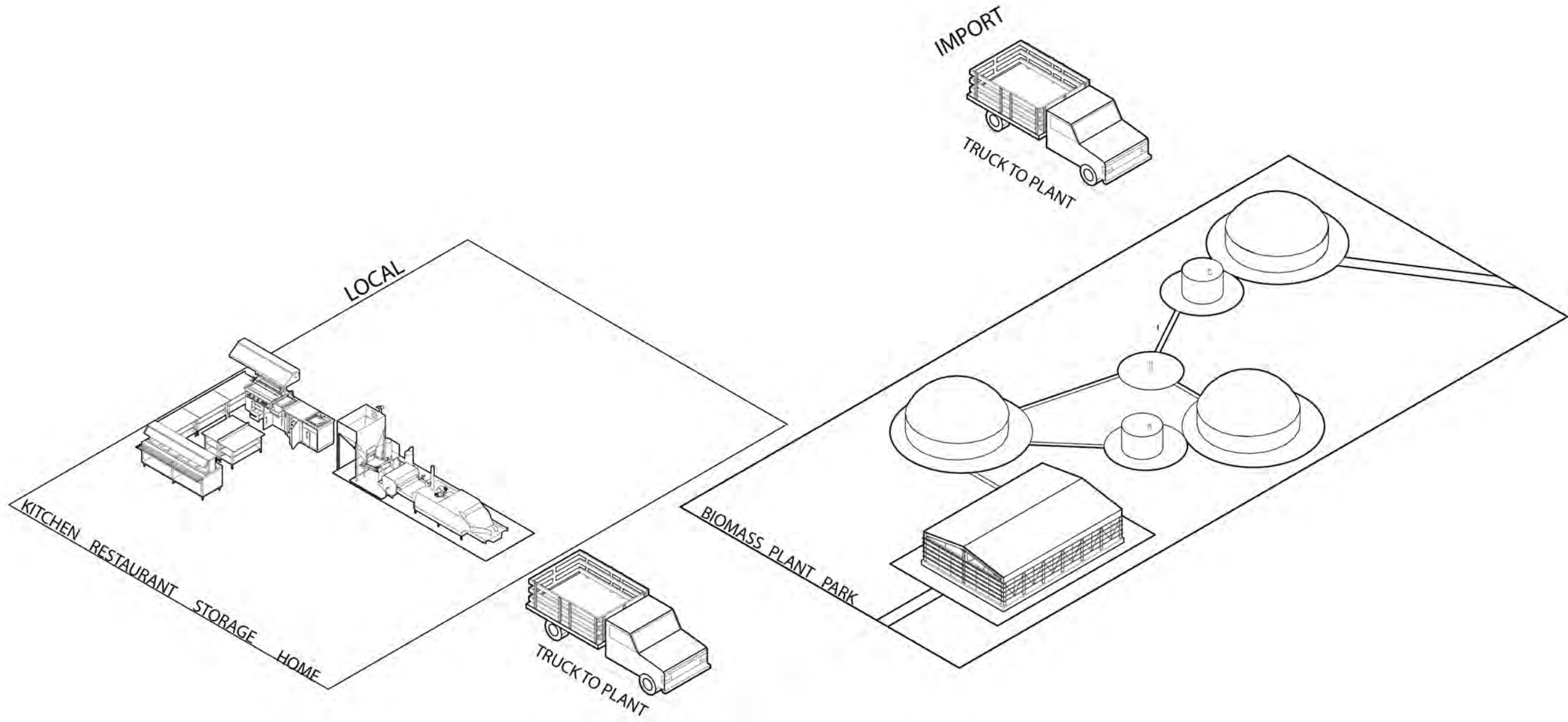
SAVORY

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CHARLOTTE YU



# FOOD WASTE TO CLEAN ENERGY



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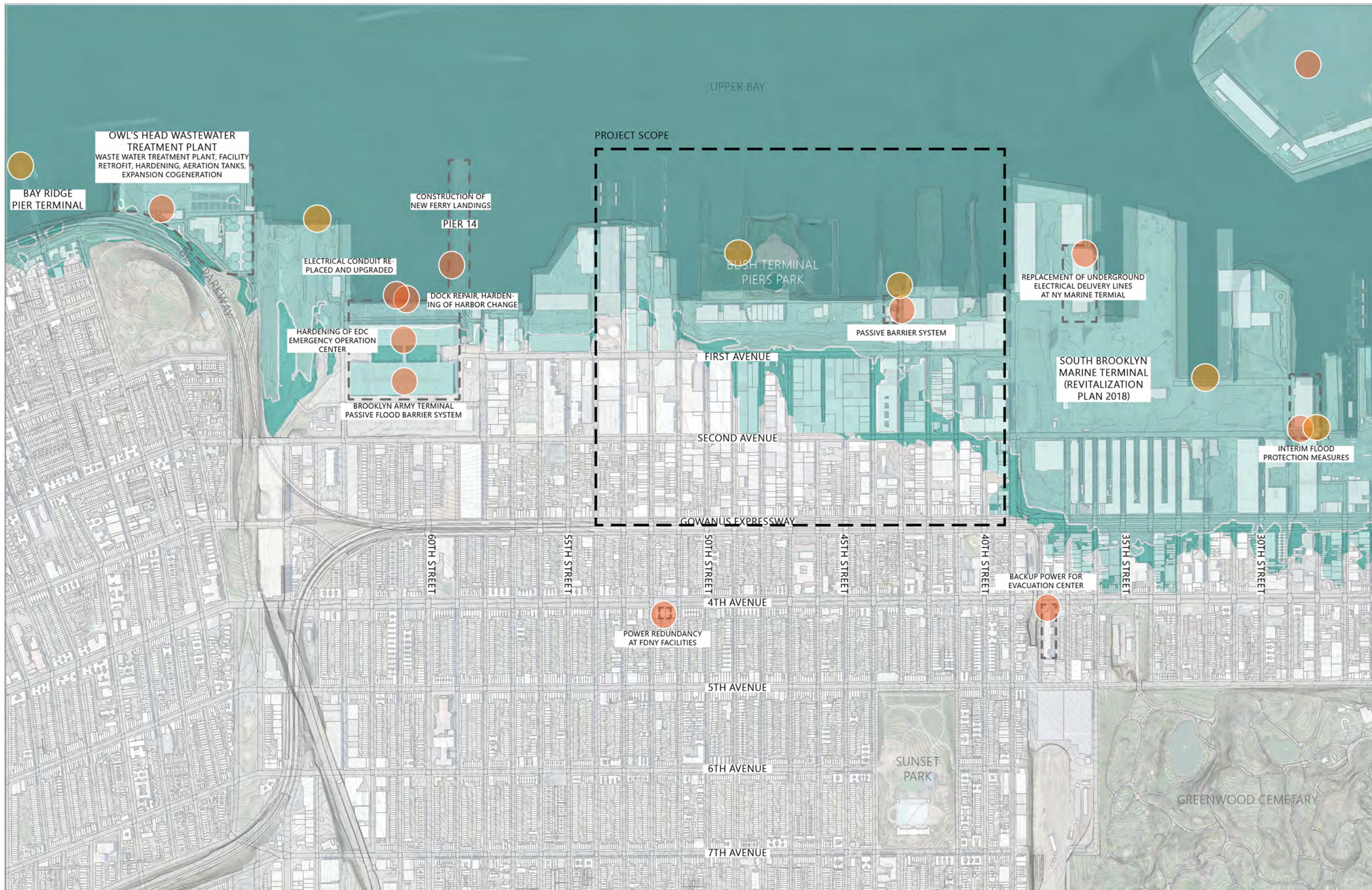
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# RESILIENCY



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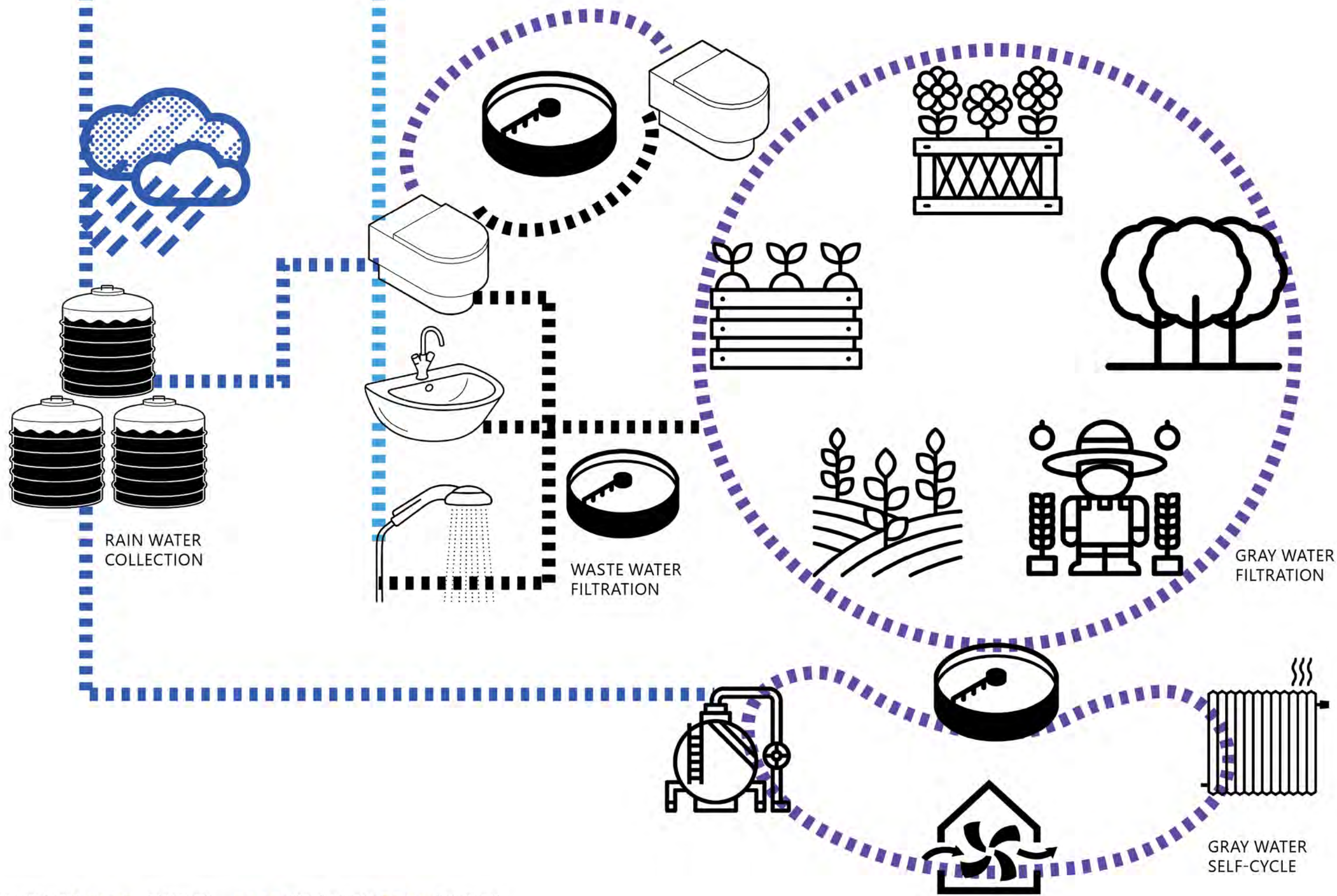
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# WATER REUSE DIAGRAM



WASTE WATER
  GREY WATER
  POTABLE WATER
  RAIN WATER

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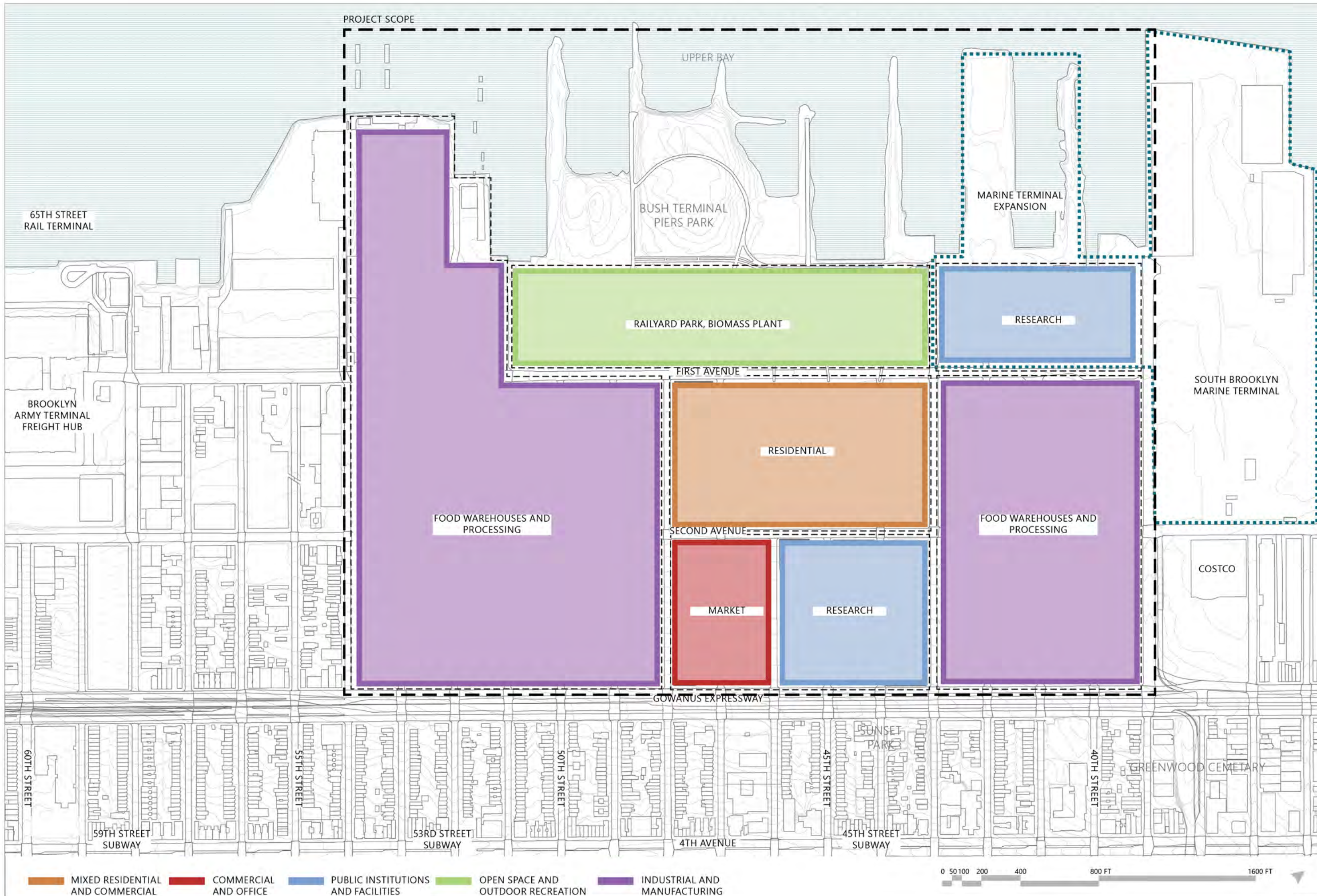
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# LANDUSE SUPERBLOCK



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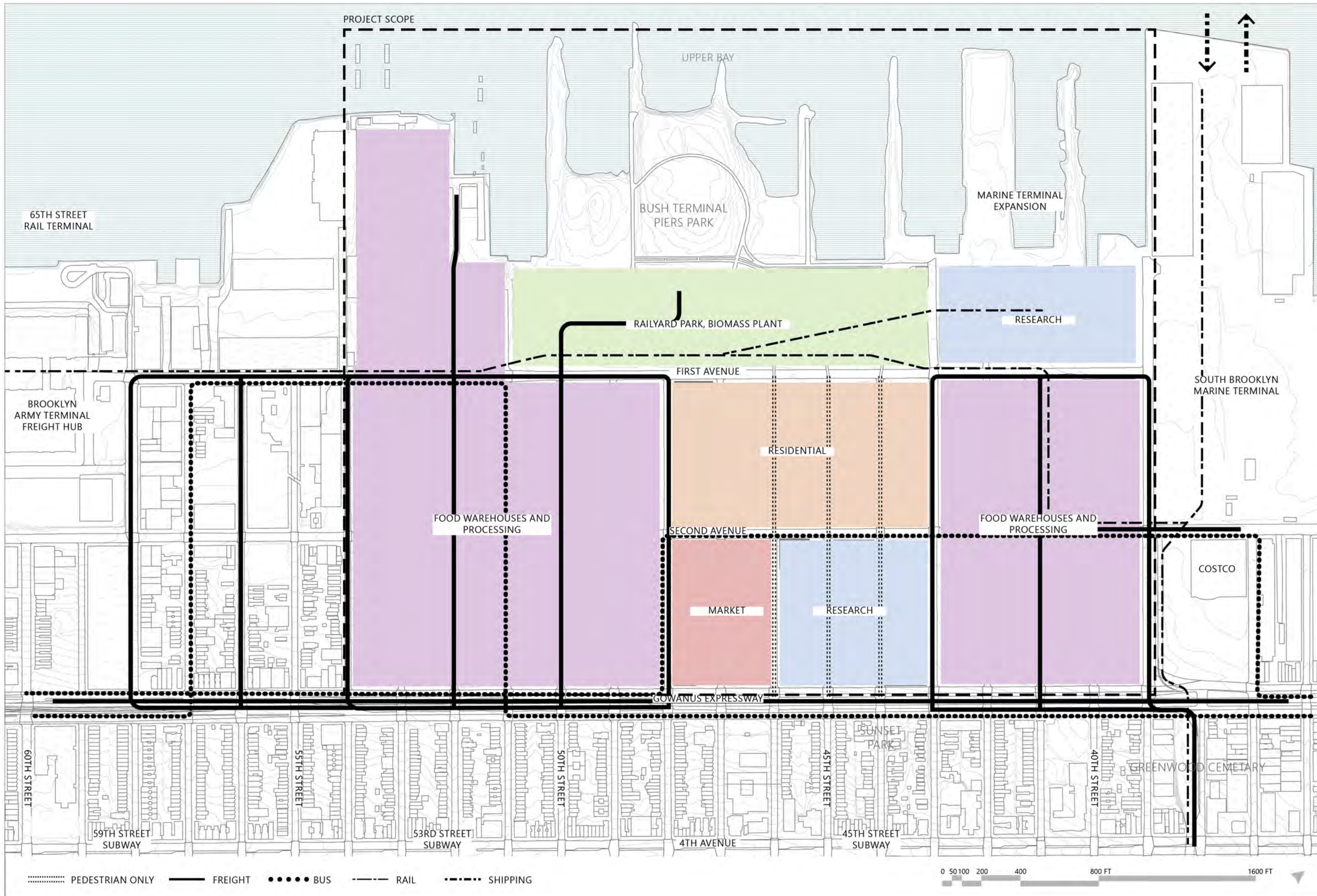
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# TRANSPORTATION



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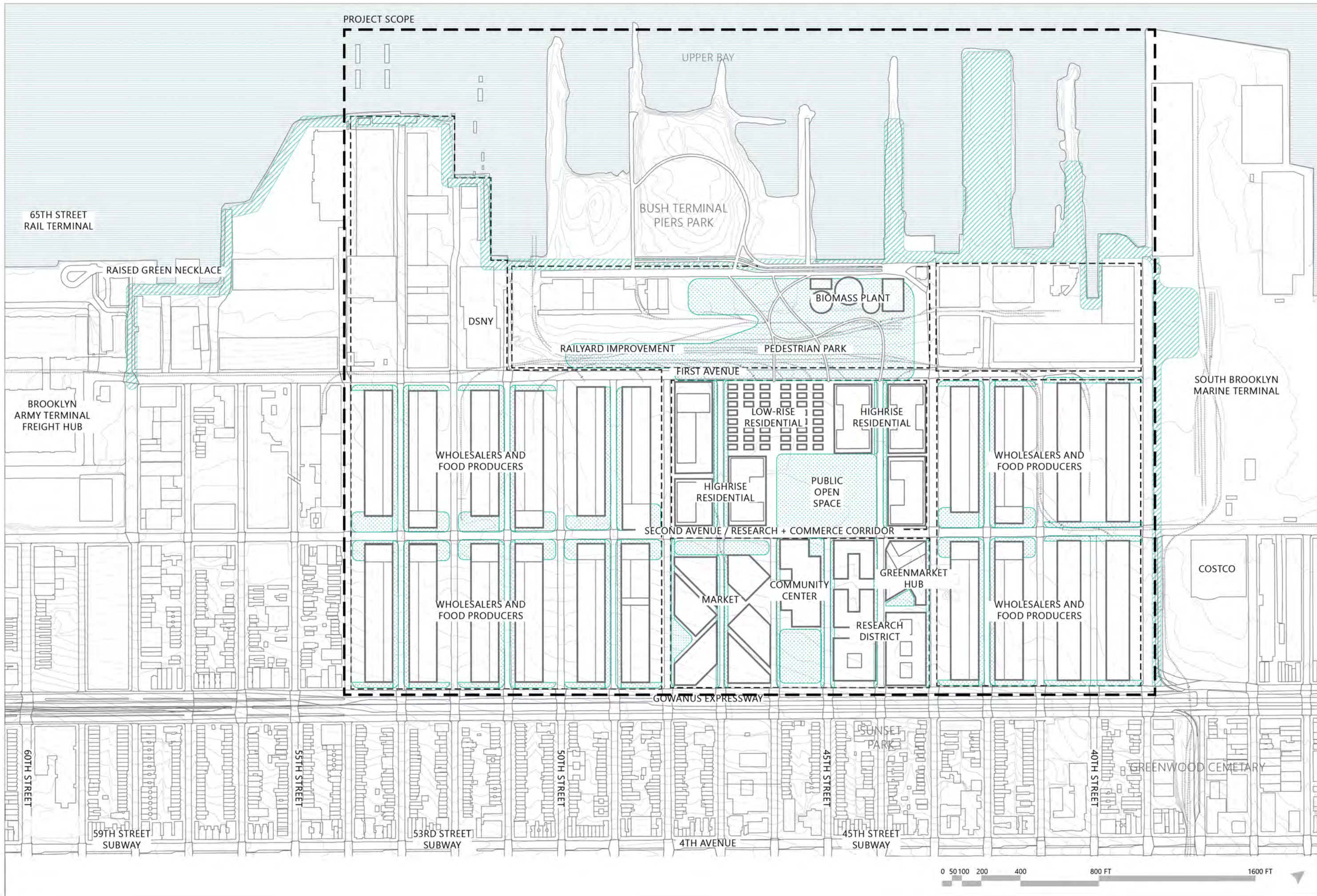
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# PROPOSED SITEPLAN



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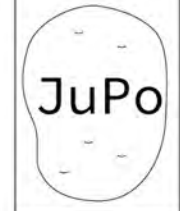
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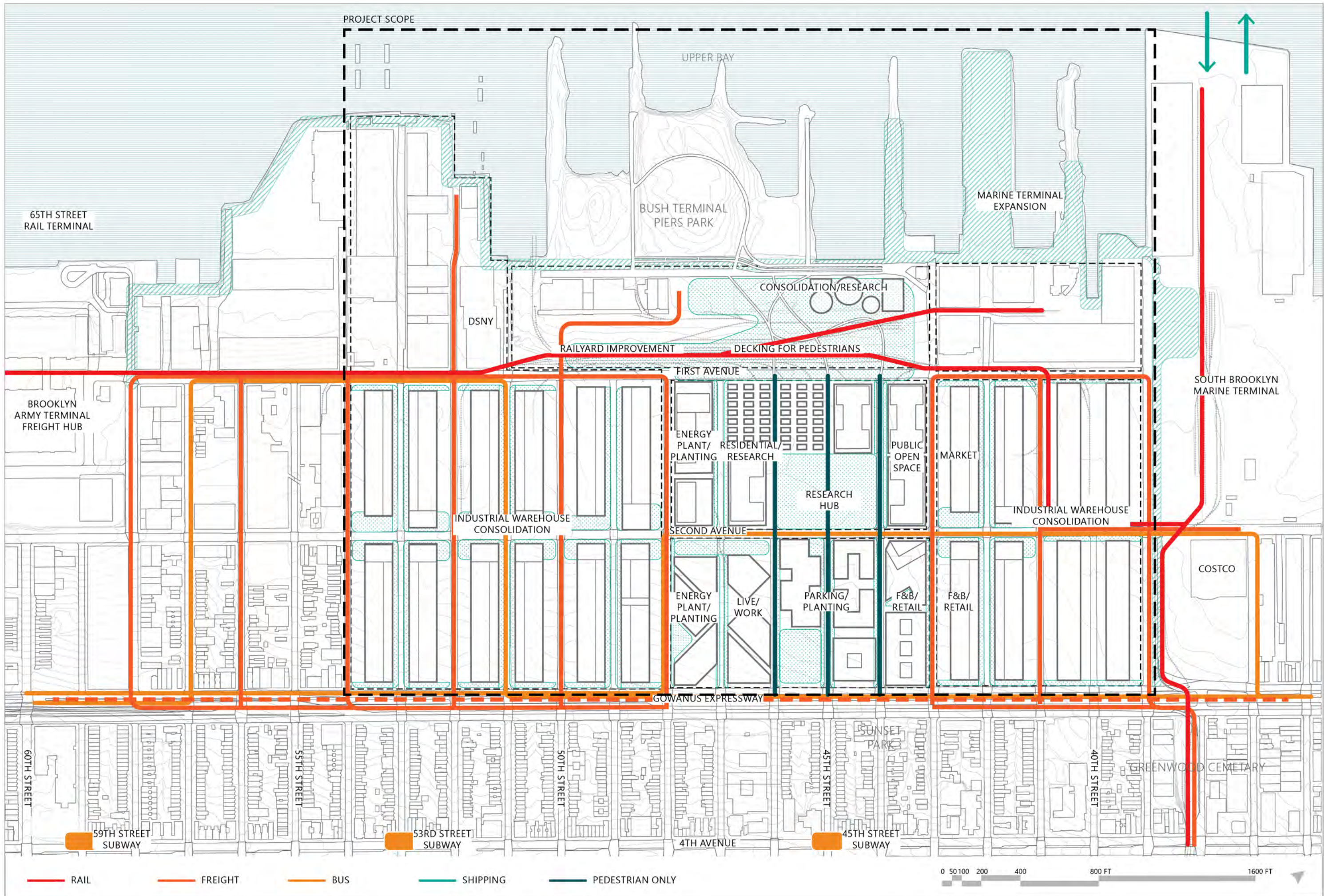
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# PROPOSED TRANSIT NETWORK



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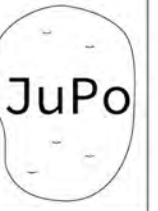
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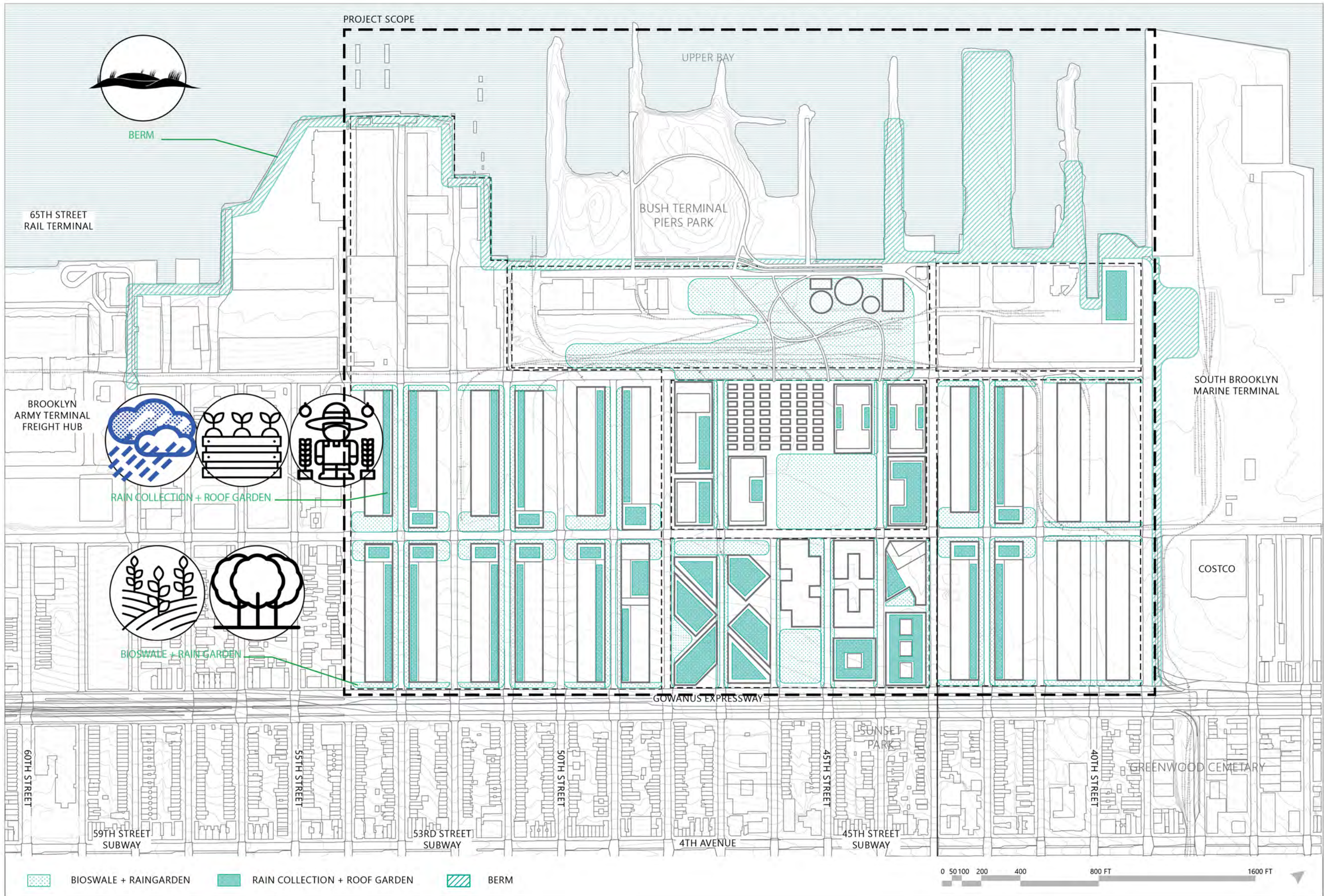
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# PROPOSED RESILIENCY MEASURES



GATHERER'S POINT

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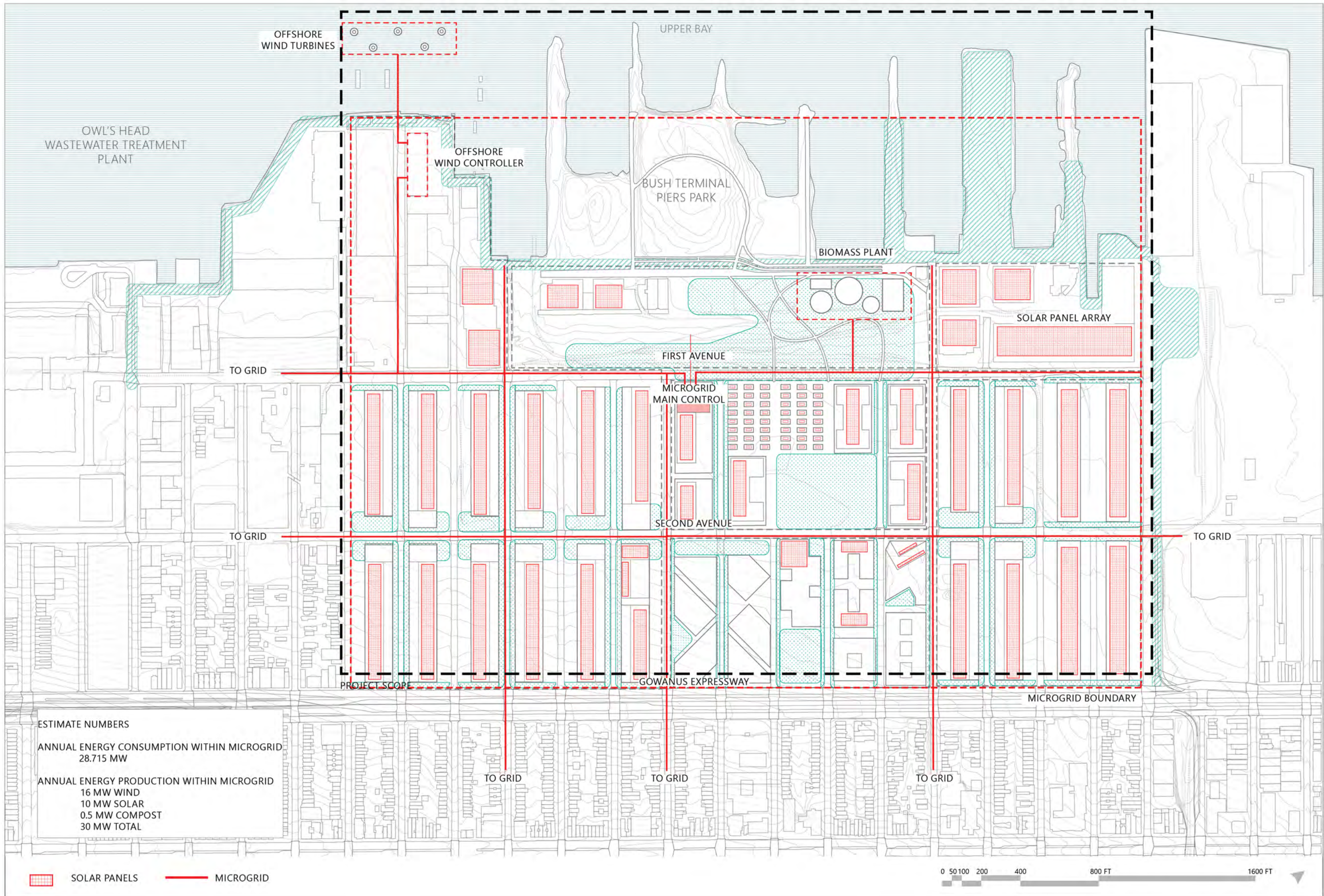
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# PROPOSED ENERGY GENERATION





**ESTIMATE NUMBERS**

ANNUAL ENERGY CONSUMPTION WITHIN MICROGRID  
28.715 MW

ANNUAL ENERGY PRODUCTION WITHIN MICROGRID

- 16 MW WIND
- 10 MW SOLAR
- 0.5 MW COMPOST
- 30 MW TOTAL

 SOLAR PANELS     MICROGRID

0 50 100 200 400 800 FT 1600 FT

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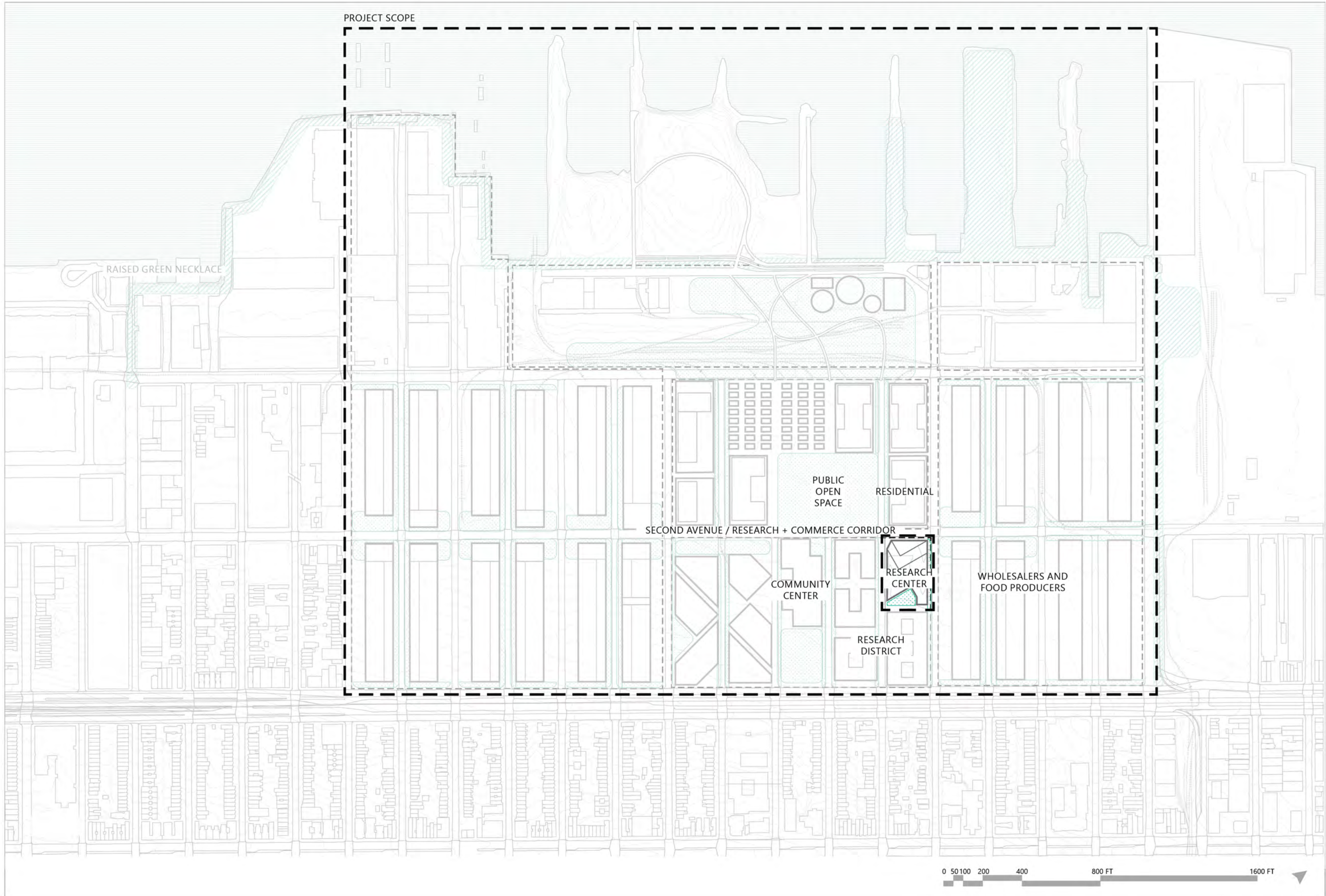
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# INTEGRATED FOOD HUB LOCATION



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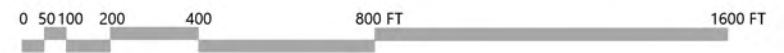
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# GREENMARKET FOOD HUB - CONCEPT

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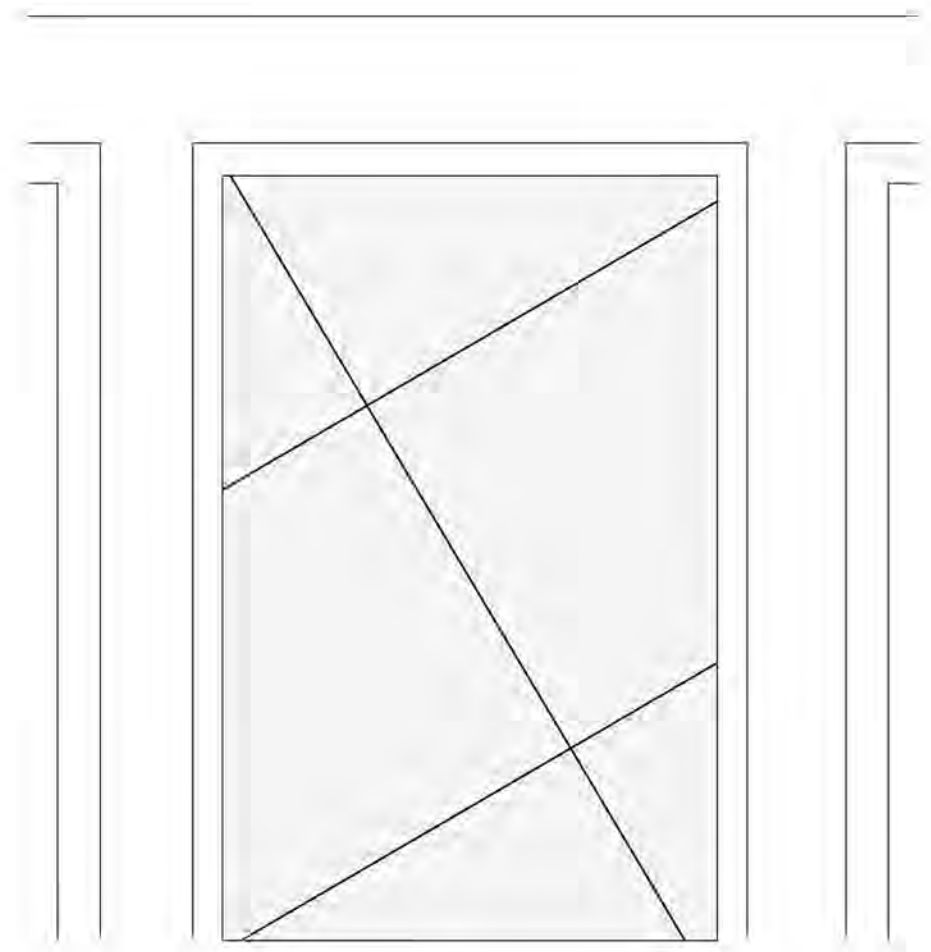
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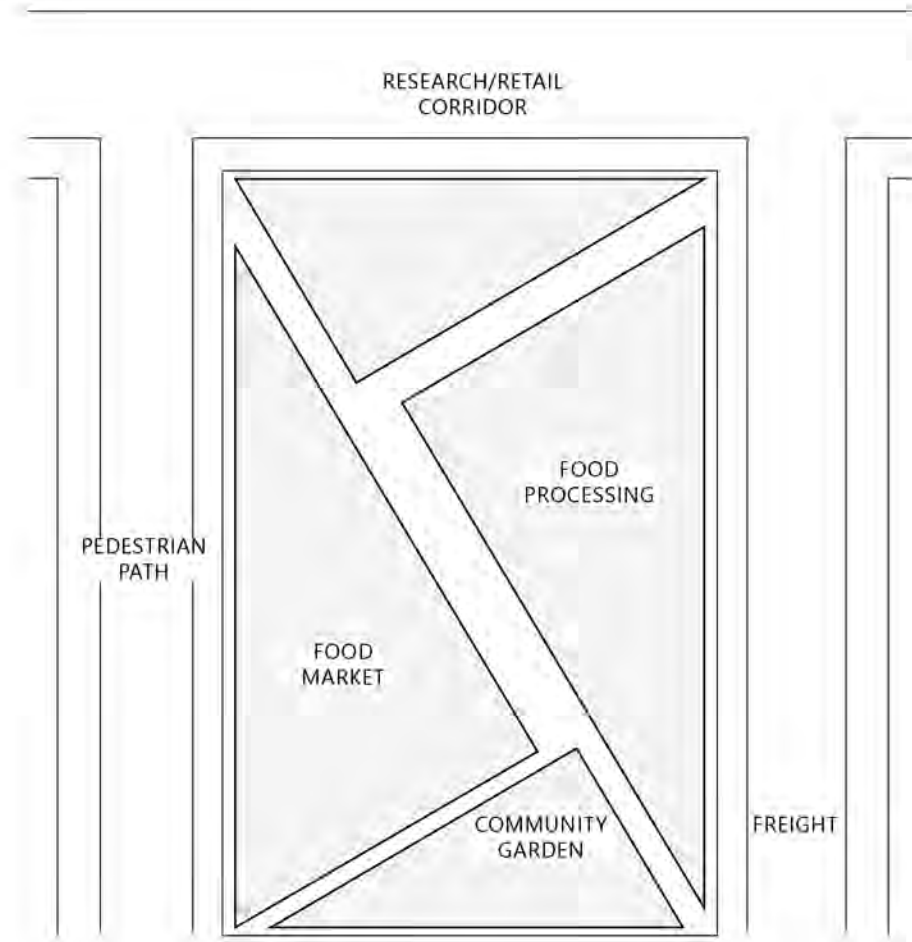
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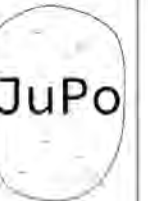
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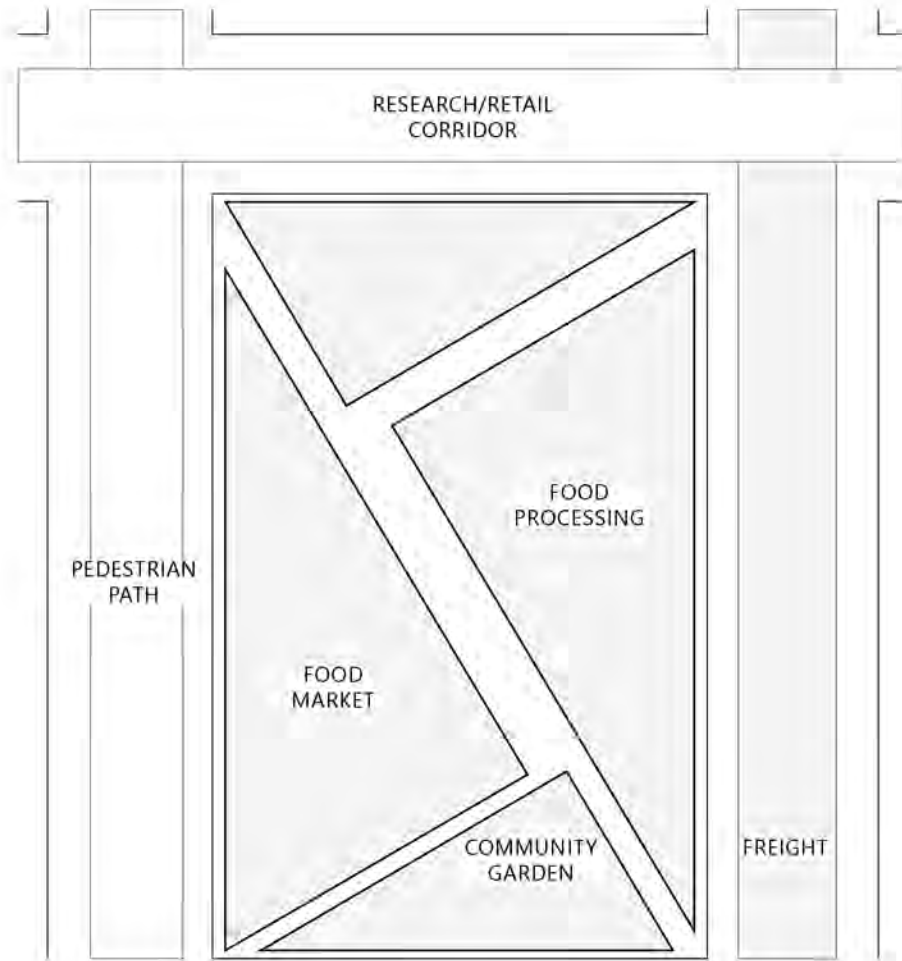
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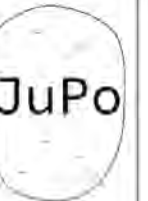
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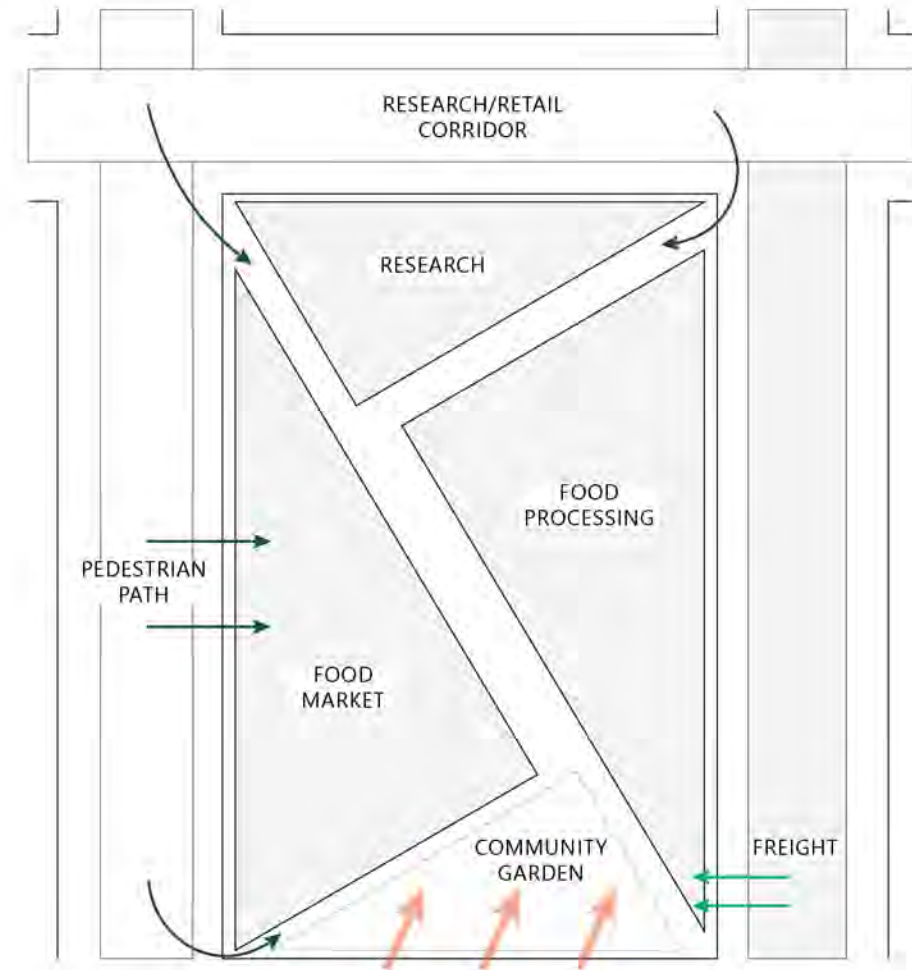
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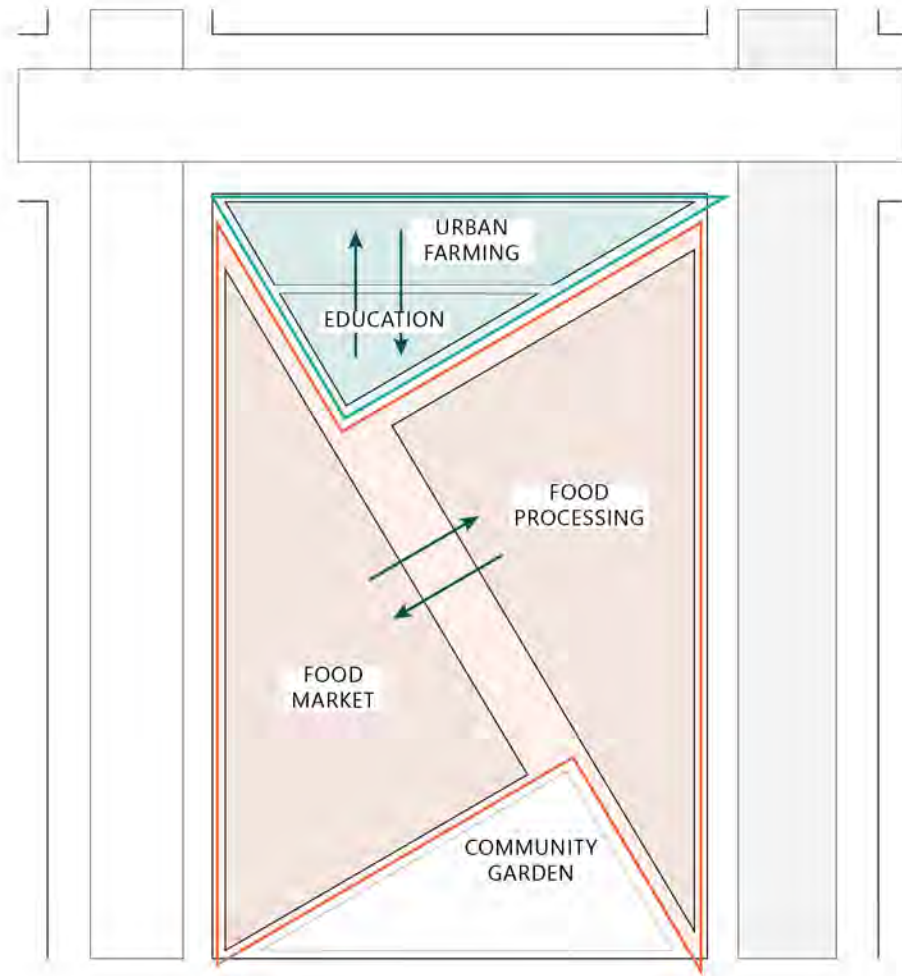
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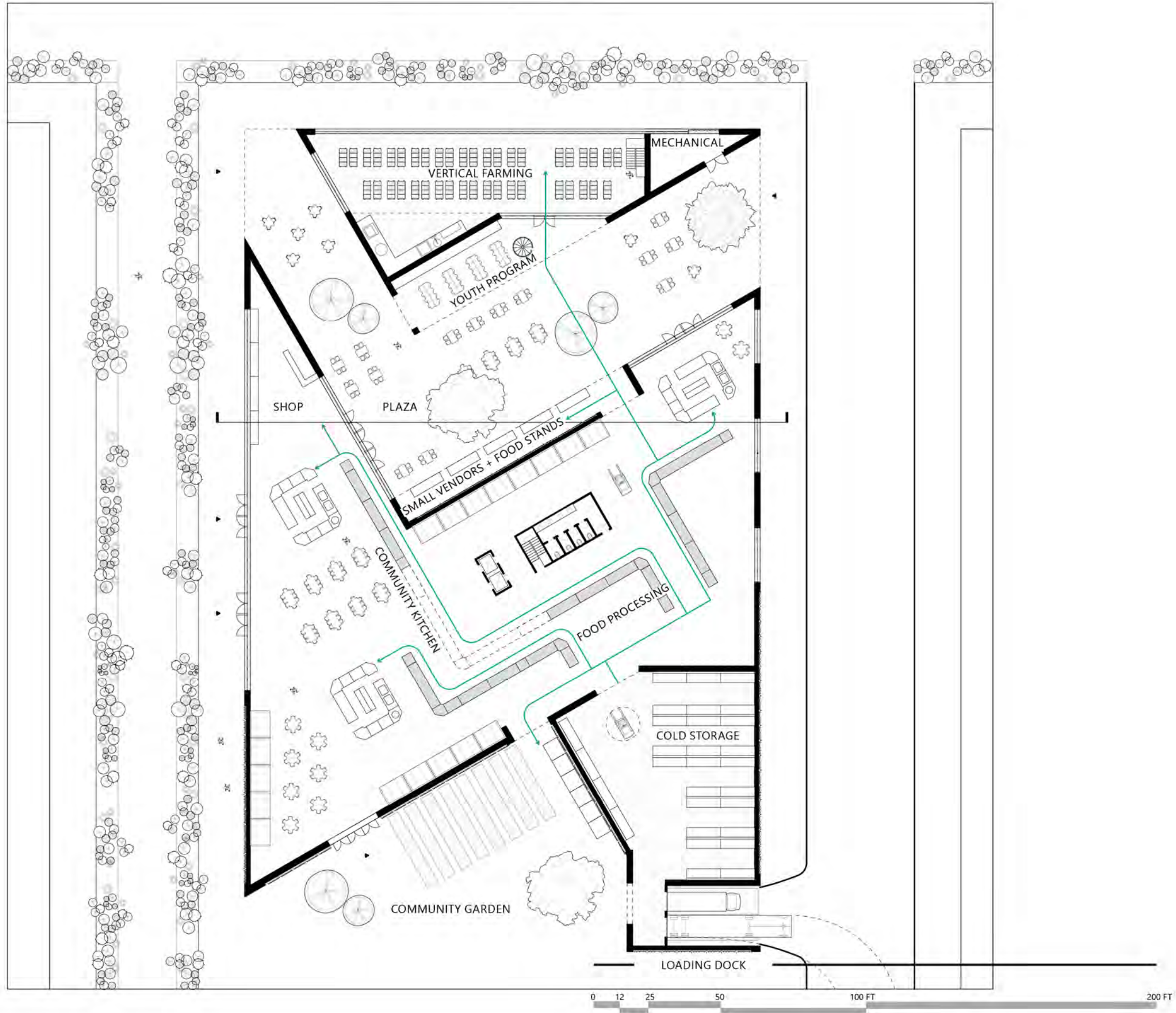
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TEAM:

SIXUAN LIU  
VERA MONTARE  
SAVORY  
TIANYU YANG  
CHARLOTTE YU





# LEVEL 1 PLAN

GATHERER'S POINT

ATV:  
URBAN  
SYSTEMS  
INTEGRATION

CONSULTANTS:

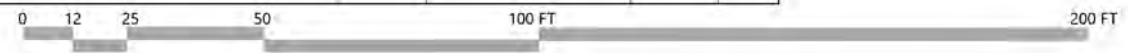
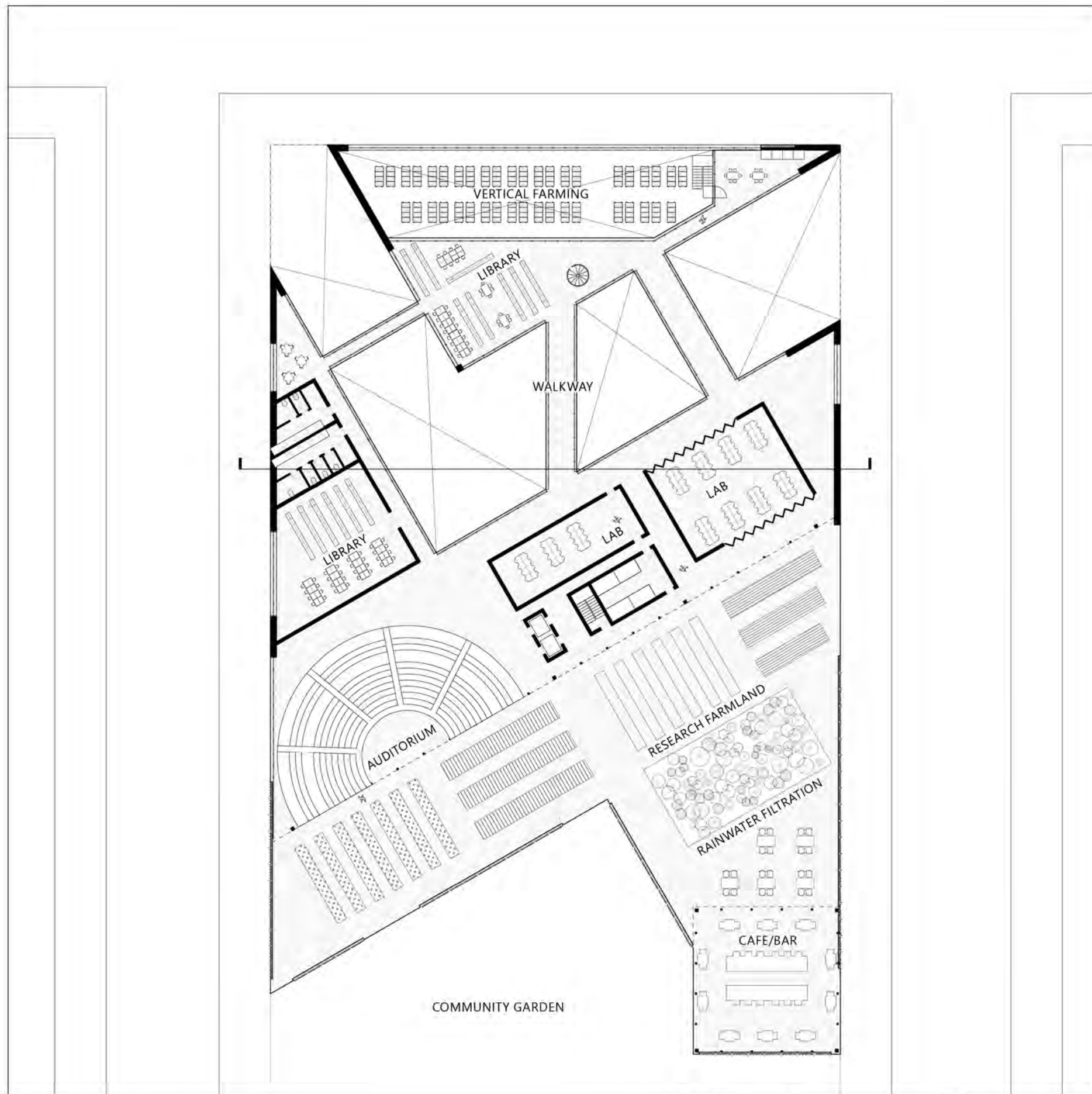
- EMILY BAUER (BAULAND)
- VINCENT LEE (ARUP)
- JOSH MARGUL (BUROHAPPOLD)
- THOMAS SLATER (TRANSSOLAR)

TEAM:

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- SAVORY
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- CHARLOTTE YU



# LEVEL 2 PLAN



—————  
GATHERER'S  
POINT

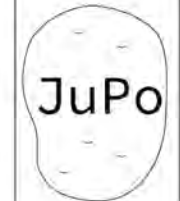
—————  
ATV:  
URBAN  
SYSTEMS  
INTEGRATION

—————  
CONSULTANTS:

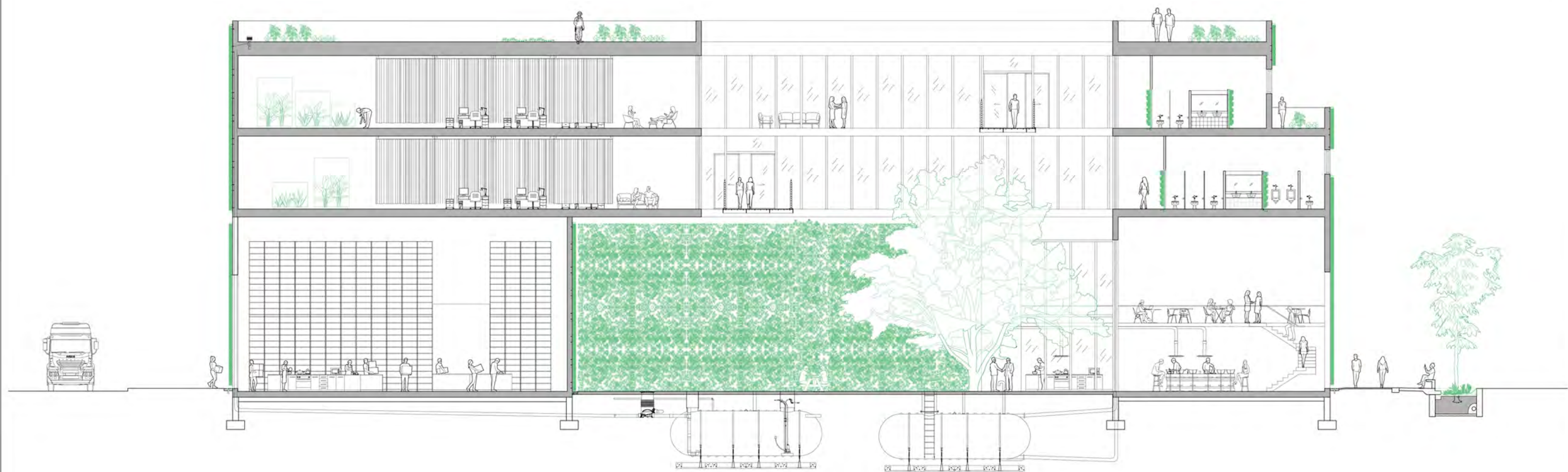
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CHARLOTTE YU



# SECTION



GATHERER'S  
POINT

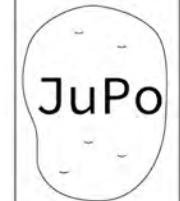
ATV:  
URBAN  
SYSTEMS  
INTEGRATION

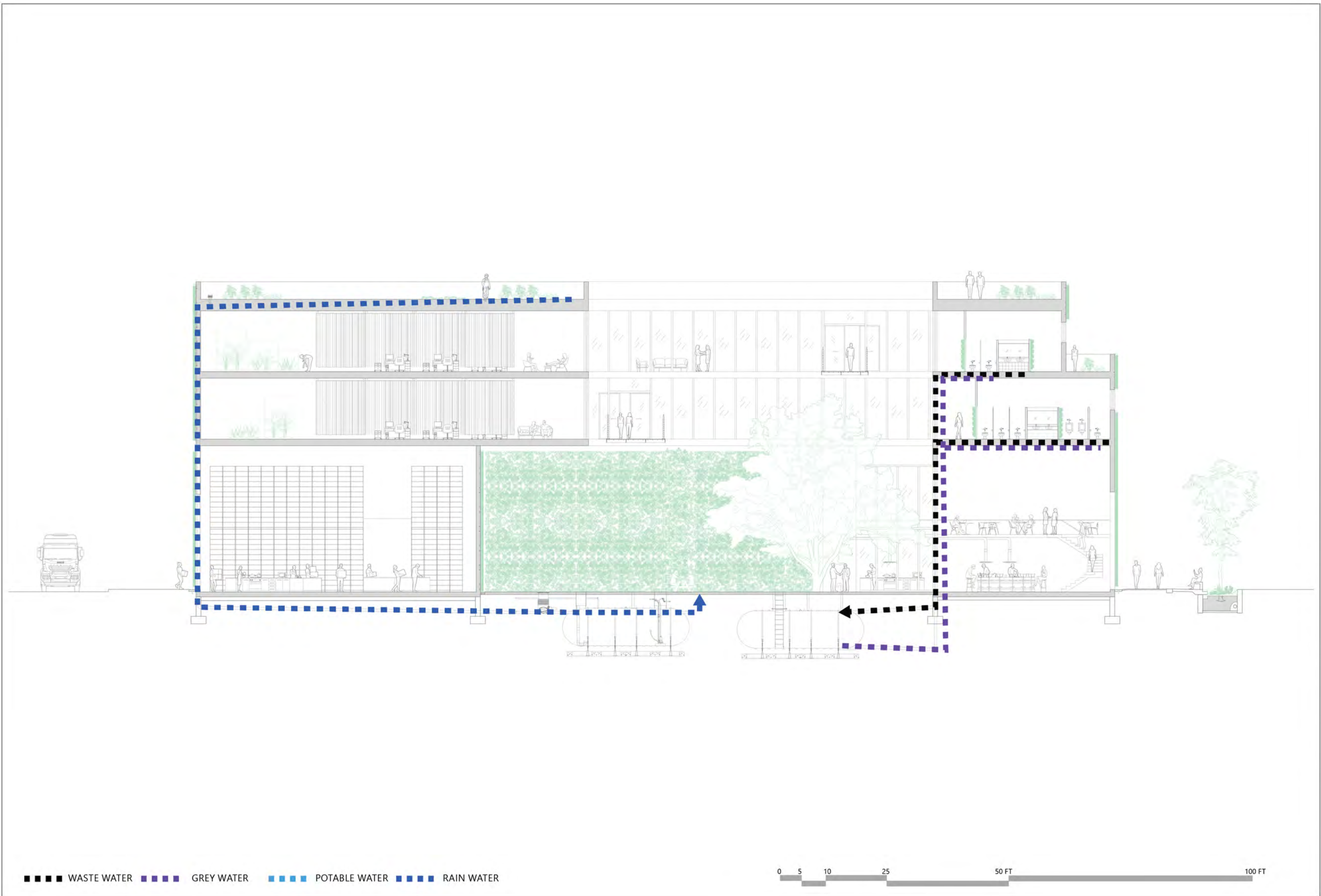
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■ ■ ■ ■ WASTE WATER  
 ■ ■ ■ ■ GREY WATER  
 ■ ■ ■ ■ POTABLE WATER  
 ■ ■ ■ ■ RAIN WATER

0 5 10 25 50 FT 100 FT

GATHERER'S POINT

ATV: URBAN SYSTEMS INTEGRATION

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# STREETVIEW

GATHERER'S  
POINT

ATV:  
URBAN  
SYSTEMS  
INTEGRATION

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# APPENDIX: PROGRAM CALCULATIONS

|  | FOOTPRINT (SQFT)   | # STORIES | OCCUPANTS: EMPLOYEES | OCCUPANTS: VISITORS/DAY | ENERGY (KWH/SQFT/YR) | TOTAL ENERGY (KWH/YR) |
|--|--|-----------|----------------------|-------------------------|----------------------|-----------------------|
| <b>BUILDINGS</b>                                   | 5,505,000  |           | 1680                 | 2555                    | 126                  | 329,876,000           |
| HIGHRISE HOUSING                                   | 320,000  | 6         | 60                   | 700                     | 10                   | 19,200,000            |
| LOWRISE HOUSING                                    | 300,000  | 3         | 5                    | 300                     | 10                   | 9,000,000             |
| RESEARCH HUB                                       | 53,000   | 3         | 300                  | 50                      | 31                   | 14,136,000            |
| F&B AND RETAIL                                     | 320,000  | 2         | 300                  | 1000                    | 14                   | 8,960,000             |
| RESEARCH AND COMMUNITY                             | 320,000  | 3         | 5                    | 200                     | 30                   | 28,800,000            |
| MARKET   | 180,000  | 2         | 200                  | 1000                    | 38                   | 13,680,000            |
| BIOMASS PLANT                                      | 100,000  | 2         | 10                   | 100                     | 3                    | 600,000               |
| INDUSTRIAL WAREHOUSE CONSOLIDATION WITH GREENROOFS | 3,737,000<br><i>(1,763 sqft decrease in footprint, 50,000,000 sqft decrease in UHI effect)</i> | 3         | 800                  | 100                     | 20                   | 224,220,000           |
| <b>OUTDOOR SPACE</b>                               | 3,350,000  |           | 57                   | 2500                    | 7                    | 2,010,000             |
| PUBLIC OPEN SPACE                                  | 260,000  | 1         | 20                   | 1000                    | 2                    | 520,000               |
| PEDESTRIAN ZONE                                    | 250,000  | 1         | 1                    | 500                     | 1                    | 250,000               |
| ESPLANADE/WATERFRONT                               | 700,000  | 1         | 20                   | 1000                    | 1                    | 700,000               |
| RAILYARD   | 540,000  | 1         | 10                   |                         | 1                    | 540,000               |
| HEAVY VEHICLE ROUTES                               | 800,000<br><i>(800,000 sqft decrease)</i>  | 1         | 5                    |                         | 1                    | 800,000               |
| GREEN STREETS                                      | 800,000  | 1         | 1                    |                         | 1                    | 800,000               |
| <b>TOTAL</b>                                       | 8,855,000  |           | 1737                 | 5055                    | 133                  | 331,626,000           |

28.715 MW

GATHERER'S POINT

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# APPENDIX: SELECTED BIBLIOGRAPHY

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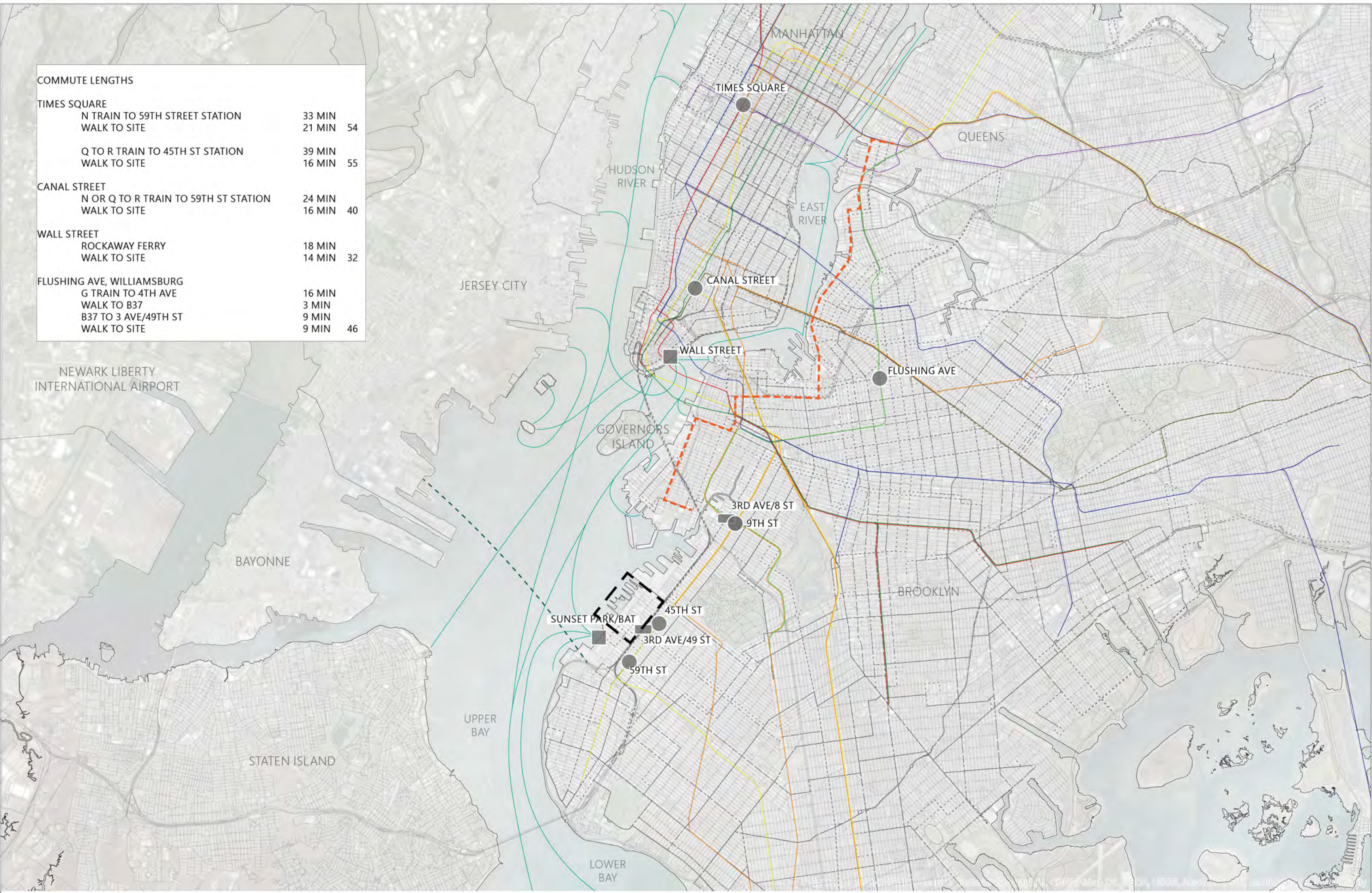




# APPENDIX: SUNSET PARK - NYC PUBLIC TRANSIT

**COMMUTE LENGTHS**

|                                   |        |    |  |
|-----------------------------------|--------|----|--|
| <b>TIMES SQUARE</b>               |        |    |  |
| N TRAIN TO 59TH STREET STATION    | 33 MIN |    |  |
| WALK TO SITE                      | 21 MIN | 54 |  |
| <b>CANAL STREET</b>               |        |    |  |
| Q TO R TRAIN TO 45TH ST STATION   | 39 MIN |    |  |
| WALK TO SITE                      | 16 MIN | 55 |  |
| <b>WALL STREET</b>                |        |    |  |
| ROCKAWAY FERRY                    | 18 MIN |    |  |
| WALK TO SITE                      | 14 MIN | 32 |  |
| <b>FLUSHING AVE, WILLIAMSBURG</b> |        |    |  |
| G TRAIN TO 4TH AVE                | 16 MIN |    |  |
| WALK TO B37                       | 3 MIN  |    |  |
| B37 TO 3 AVE/49TH ST              | 9 MIN  |    |  |
| WALK TO SITE                      | 9 MIN  | 46 |  |



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