

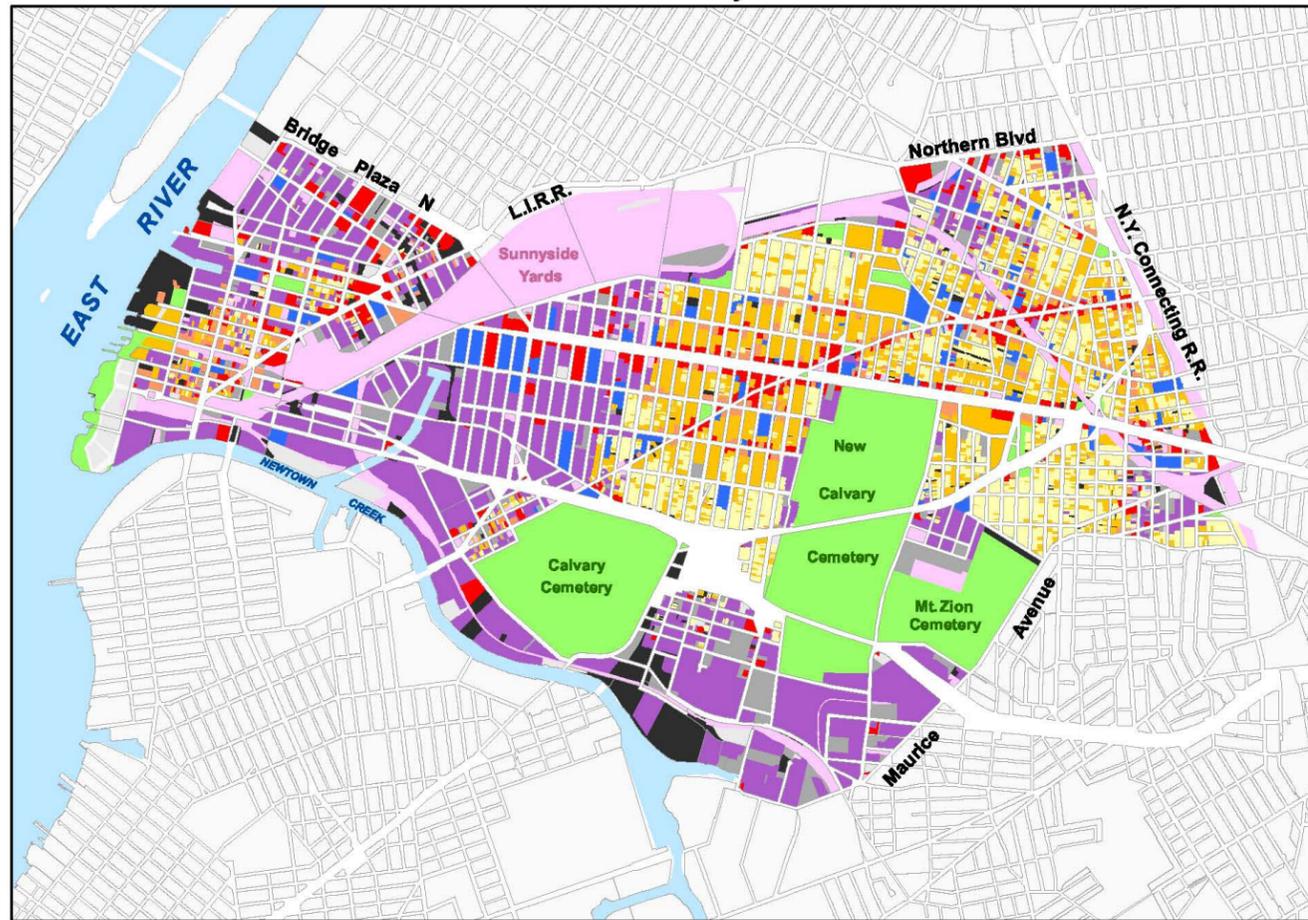
MARINE BIOLOGY RESEARCH CENTER
NEW YORK CITY-HUNTER'S SOUTH POINT

N.ALPER PEHLIVAN

SITE ANALYSIS

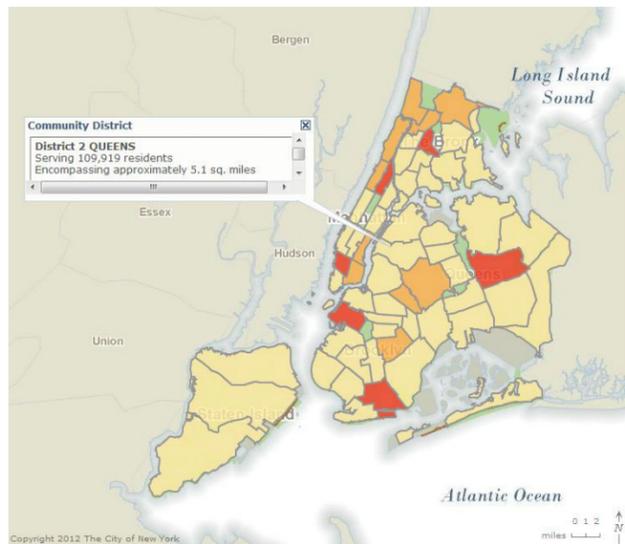


Queens Community District 2



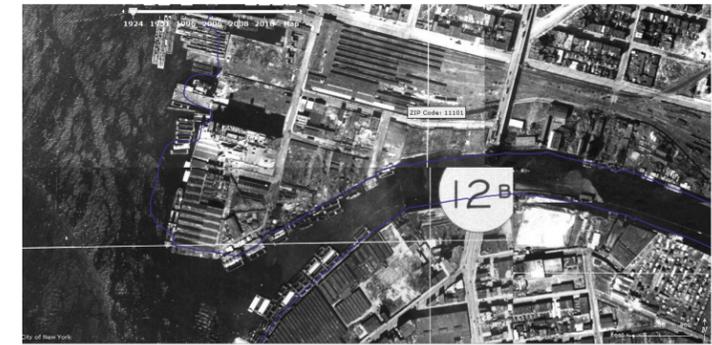
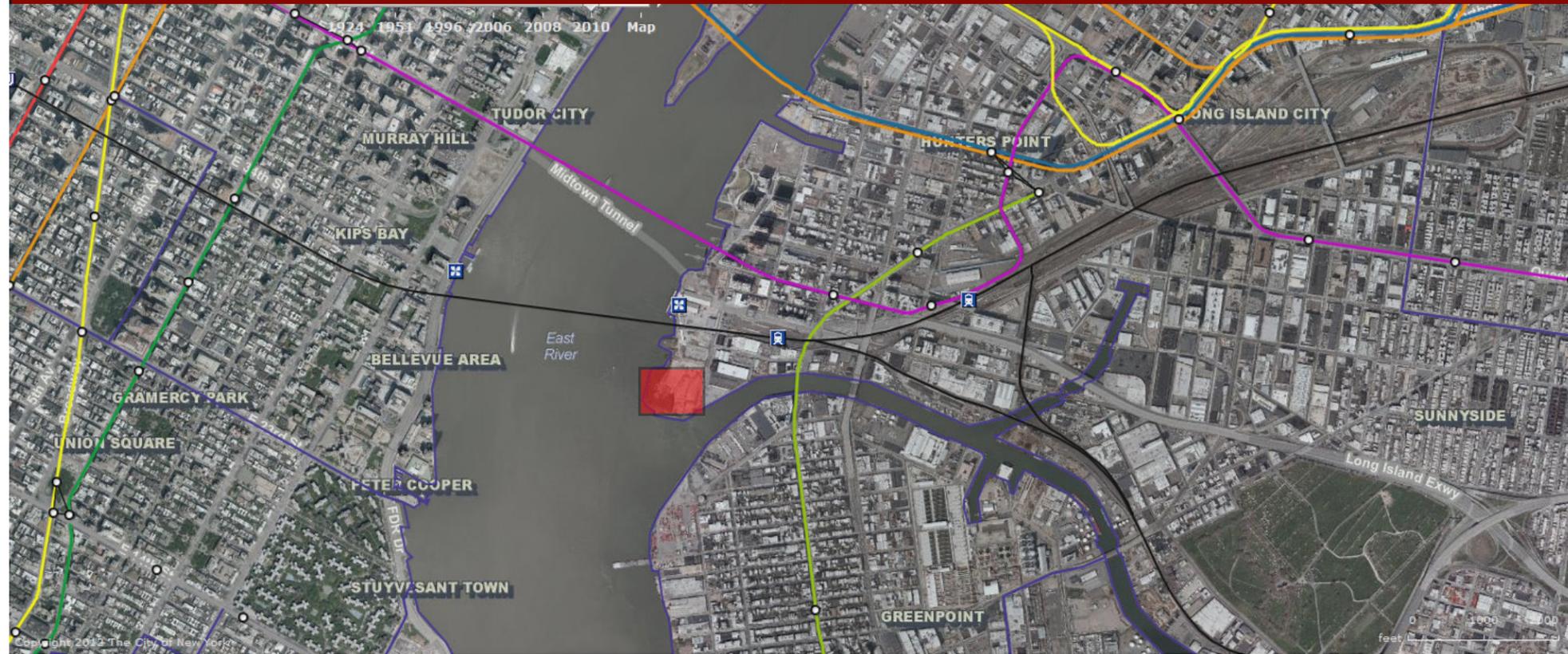
© Copyright 2011 NYC Department of City Planning
Source: MapPLUTO™ Release 11v1

Residential Land Uses		Non-Residential Land Uses	
One & Two Family Buildings	Commercial / Office Buildings	Industrial / Manufacturing	Transportation and Utility
Multi-Family Buildings	Mixed Residential and Commercial Buildings	Open Space and Outdoor Recreation	Parking Facilities
		Public Facilities and Institutions	Vacant Land
			All Others or No Data



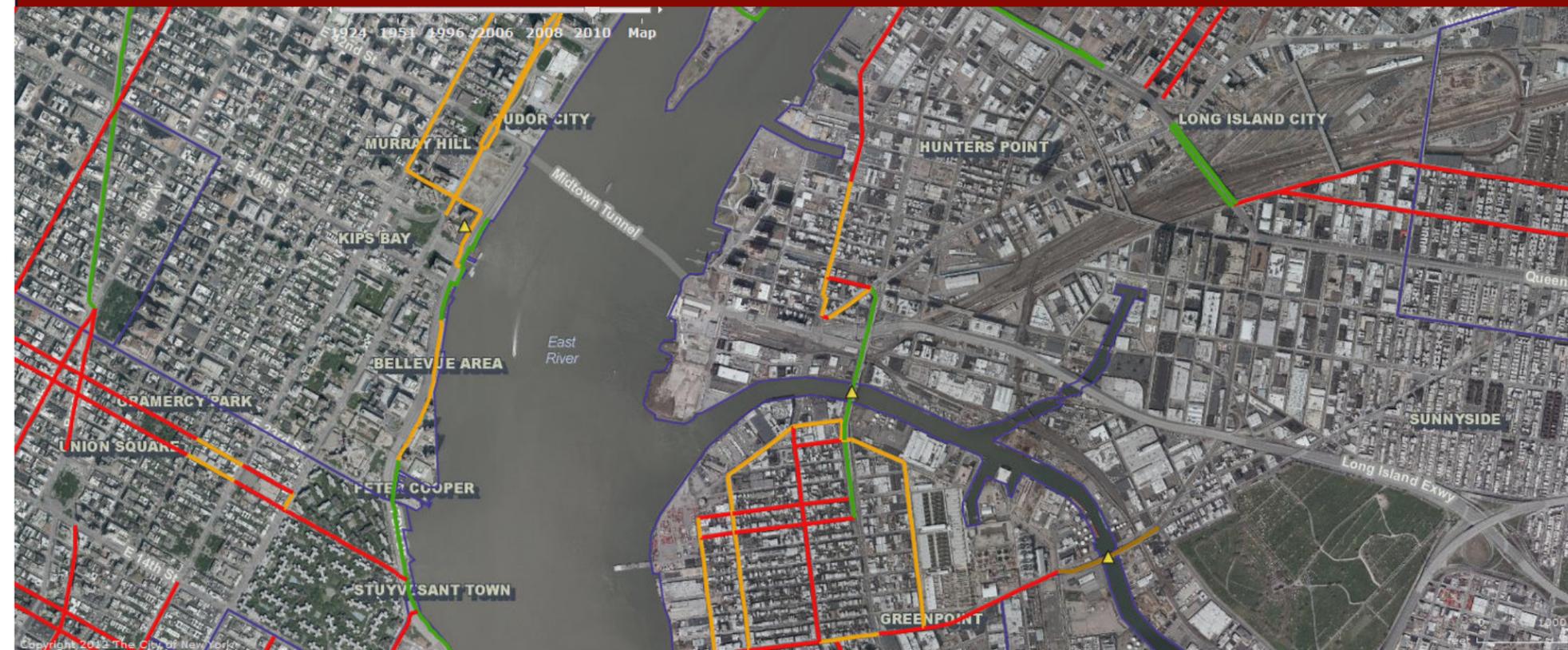
— Reach Boundary □ Recommendation Areas ■ Major Parklands

SUBWAY - FERRY TERMINAL

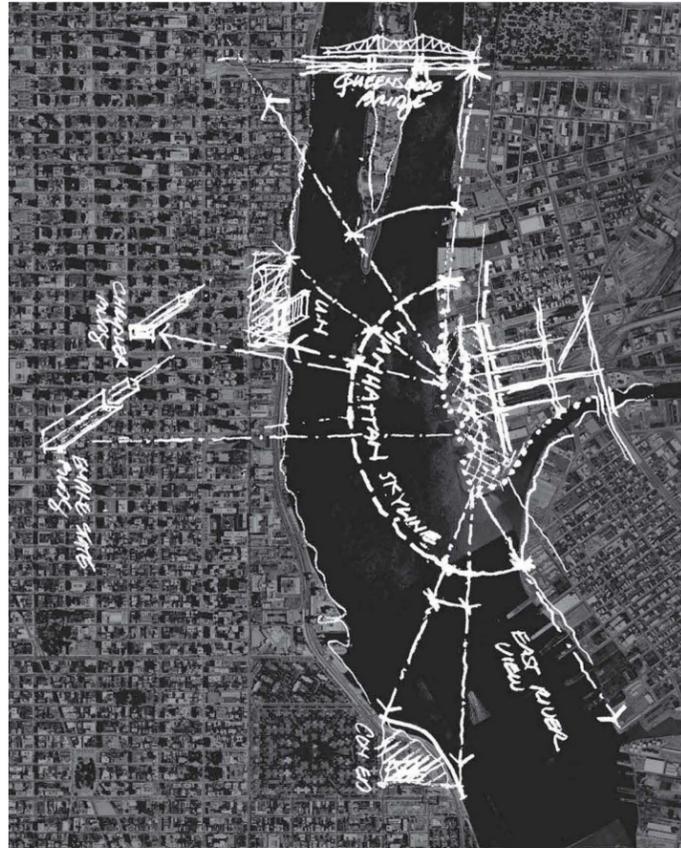


BIKE ROADS

— Bicycle Path, Class I — Bicycle Path, Class II — Bicycle Path, Class III



VIEWS FROM SITE



NORTH VIEW



NORTHWEST VIEW

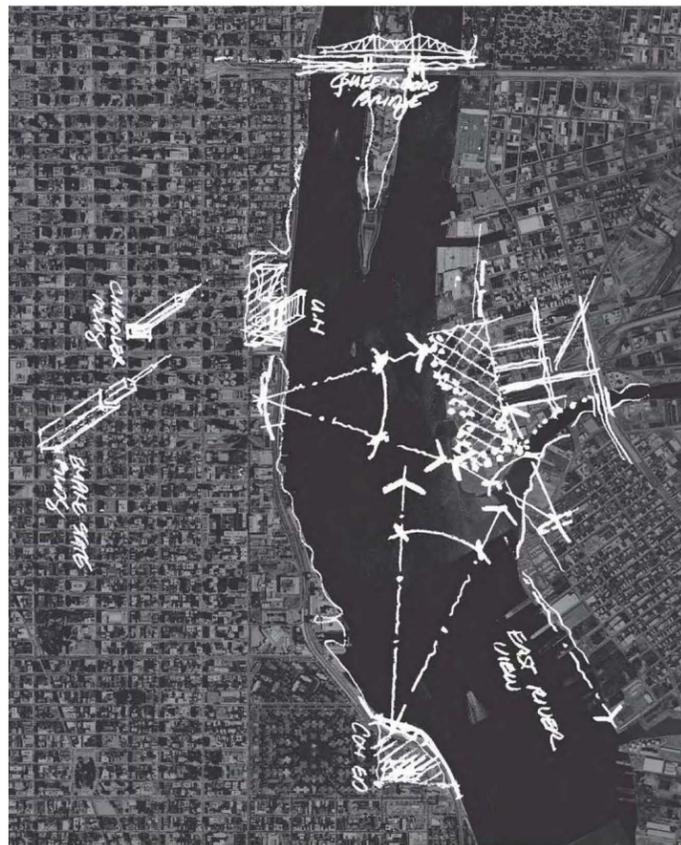


SOUTHWEST VIEW



SOUTH VIEW

SITE VIEWS FROM NEARBY CONTEXT



VIEW FROM EAST



VIEW FROM SOUTHWEST



VIEW FROM SOUTH

EXISTING CONDITION

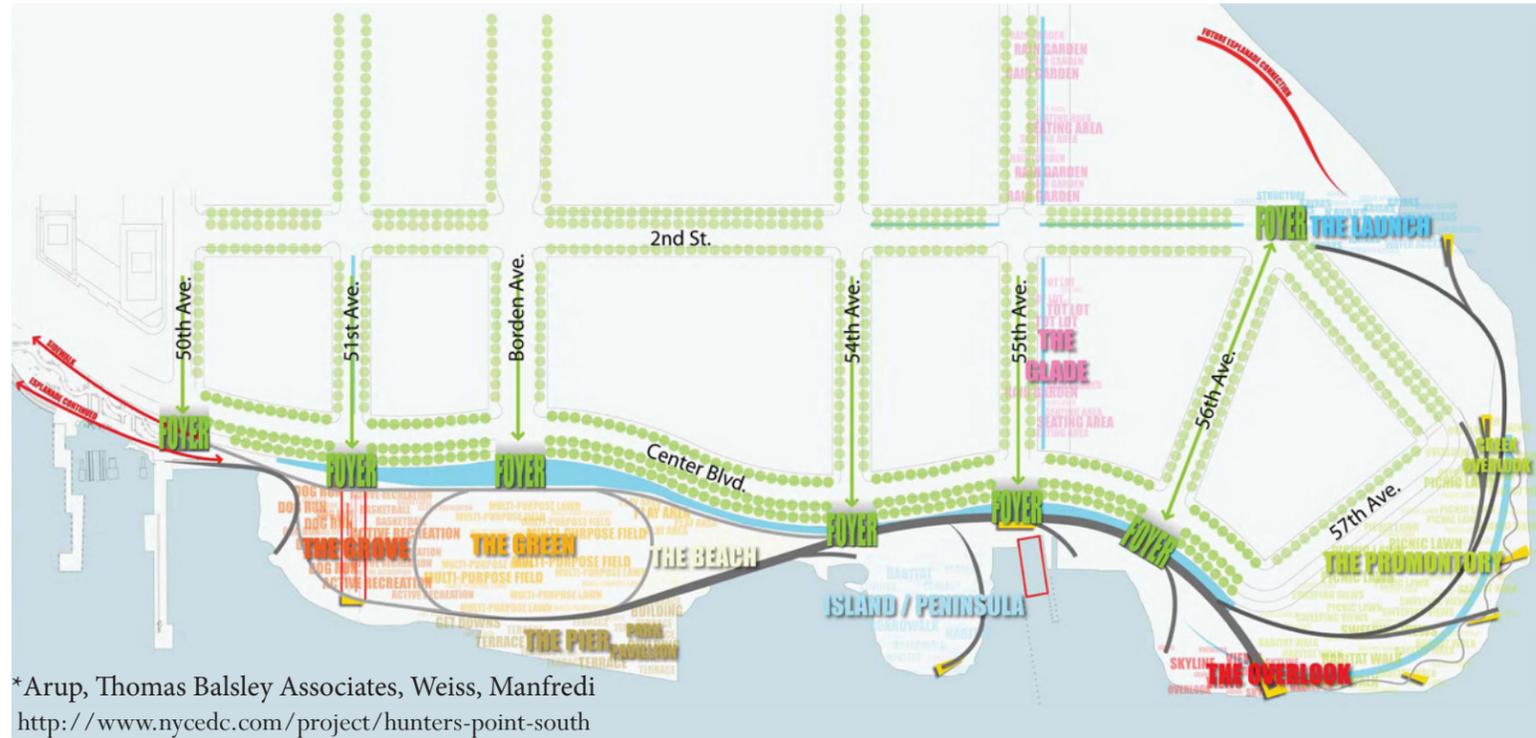
- + LARGELY VACANT WATERFRONT SITE
- + WITHIN WALKING DISTANCE 7 SUBWAY LINE WITH ONE STOP TO MANHATTAN AND ACCESS TO FERRY
- + ADJACENT TO DYNAMIC QUEENS WEST & LIC COMMERCIAL CORRIDOR



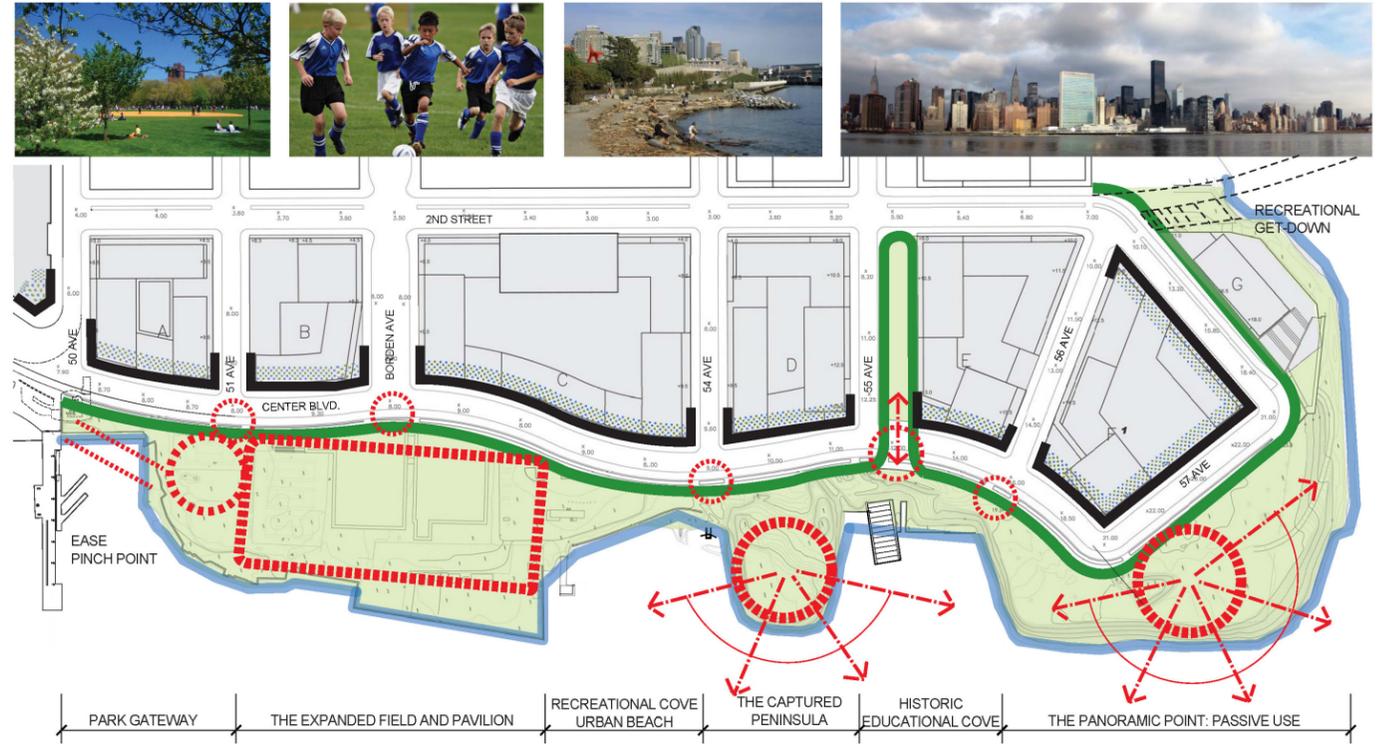
PROPOSED PROJECT TO NYCEDC



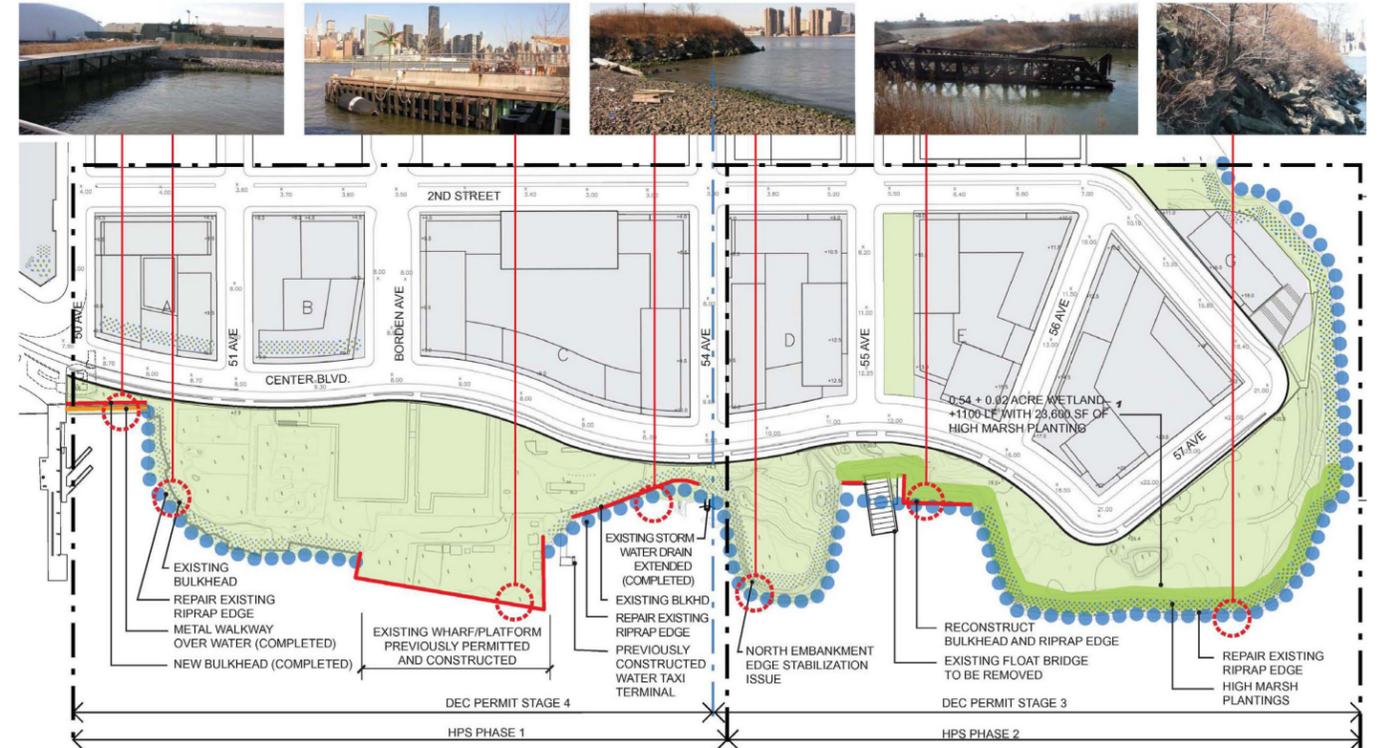
CONNECTIONS



*Arup, Thomas Balsley Associates, Weiss, Manfredi
<http://www.nycedc.com/project/hunters-point-south>



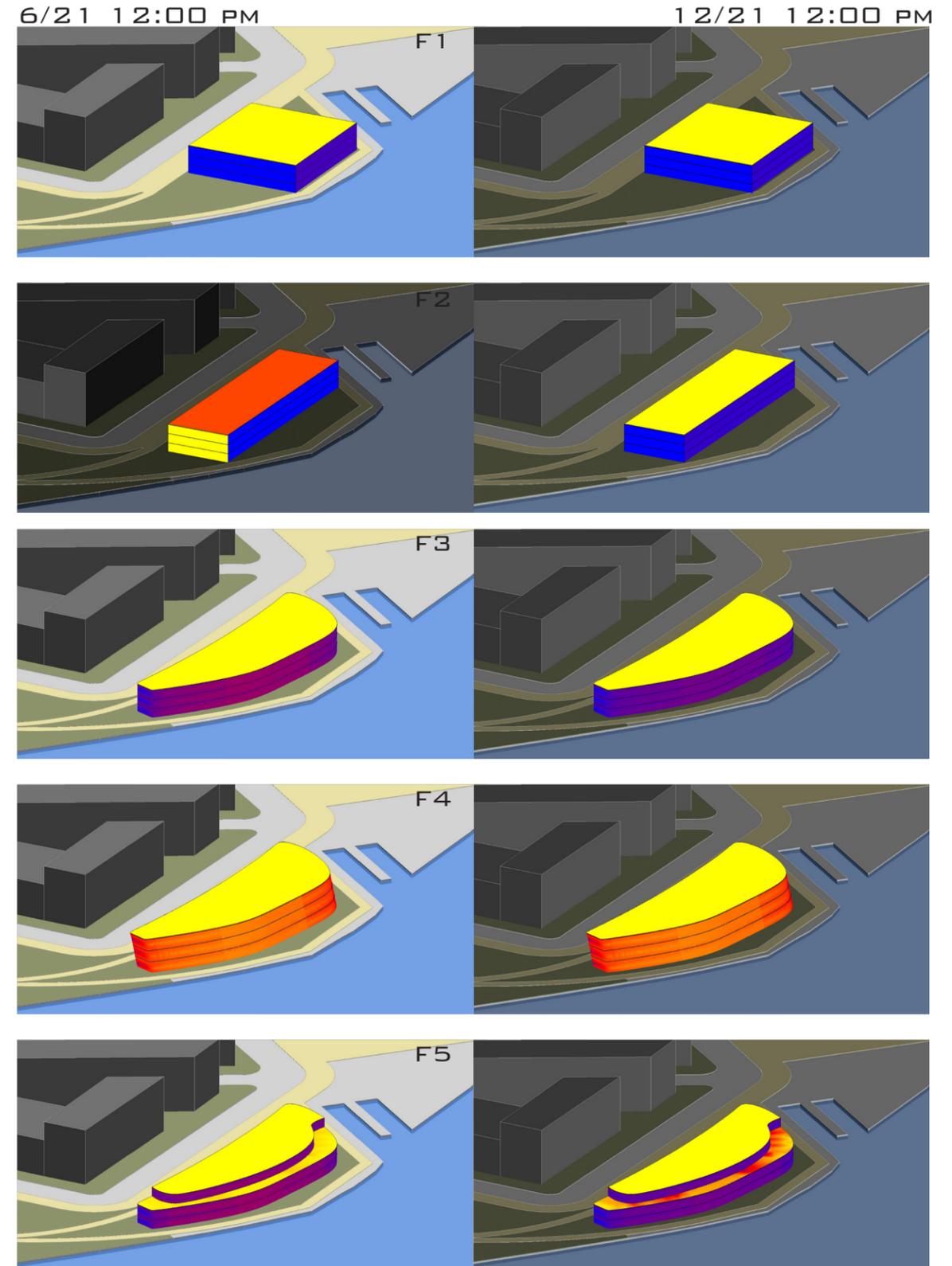
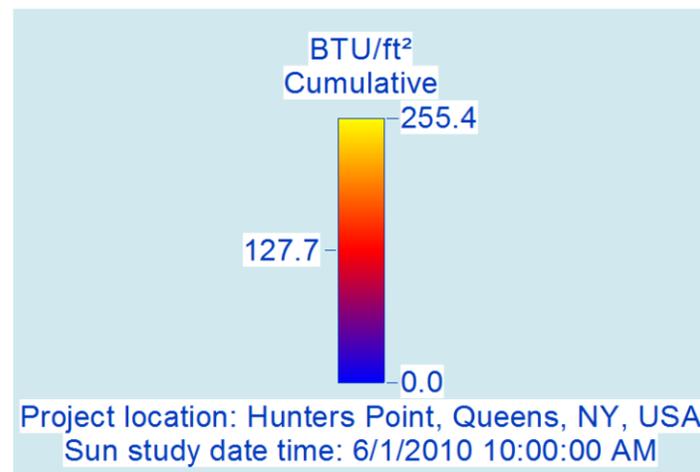
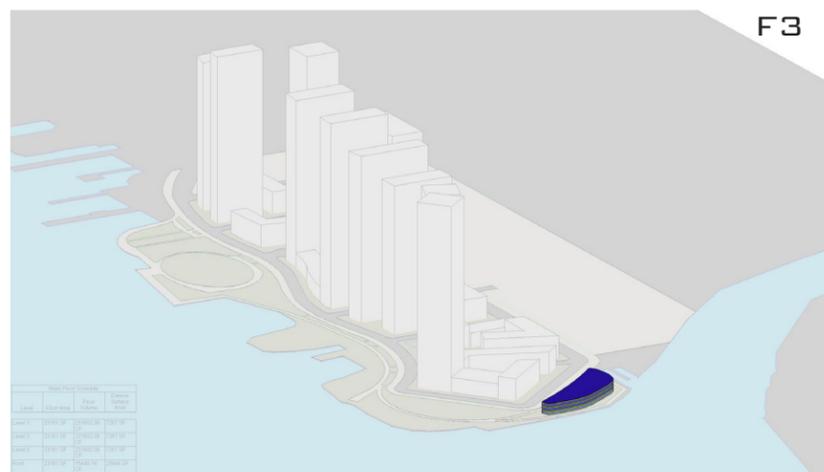
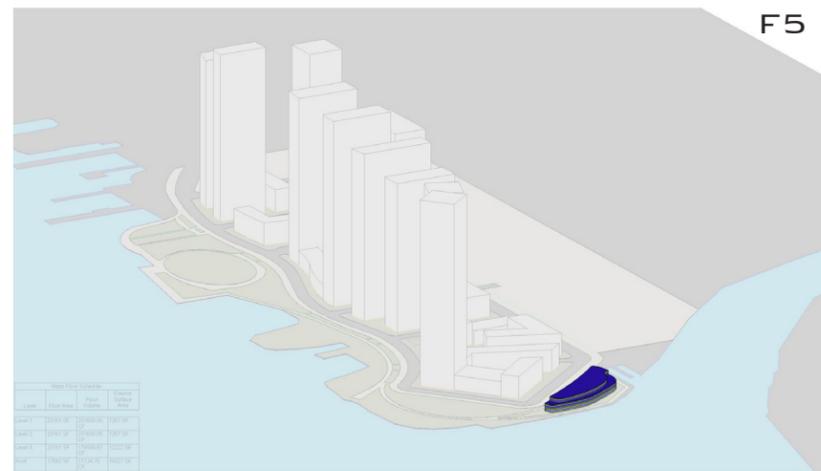
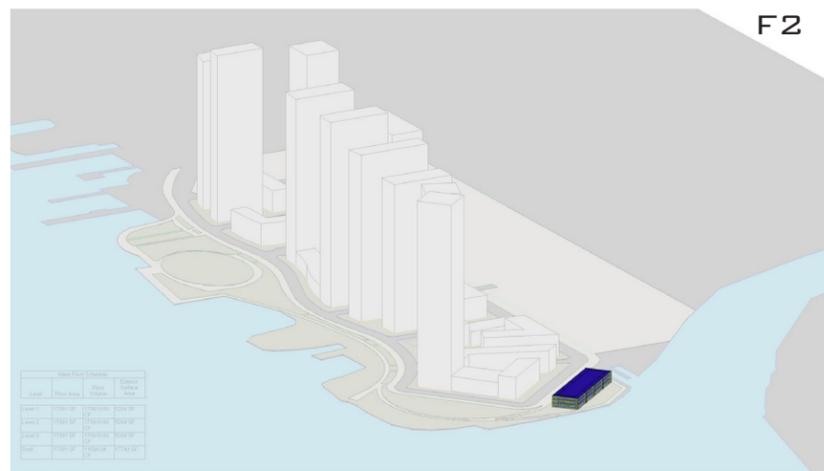
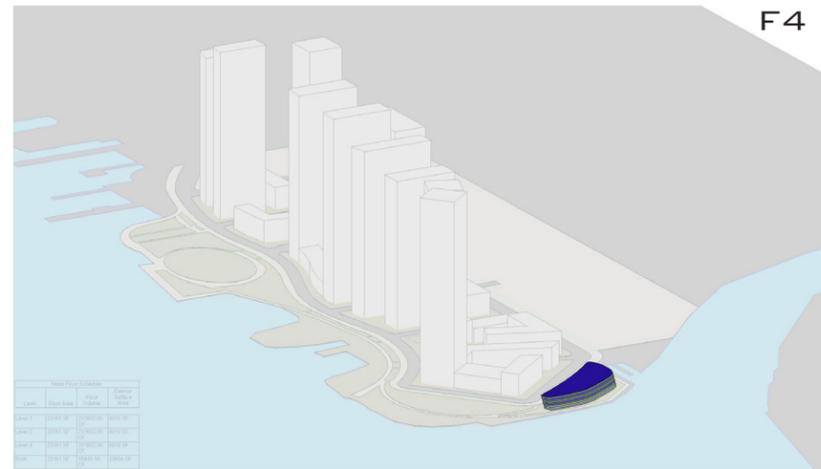
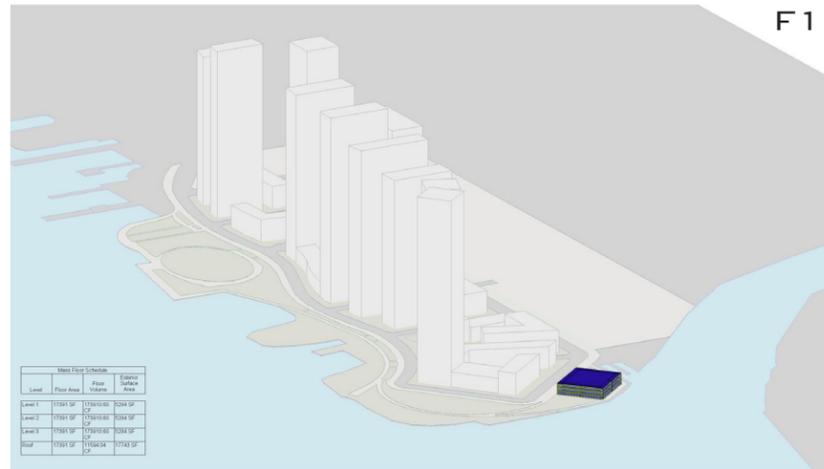
WATERFRONT PARK CONCEPT



THIS IS PROPOSED PROJECT FOR HUNTER'S POINT SOUTH. IT IS MIXED-USED, MIDDLE-INCOME HOUSING DEVELOPMENT SITUATED ON APPROXIMATELY 30 ACRES OF PRIME WATERFRONT PROPERTY IN LONG ISLAND CITY, QUEENS 2007. MY RESEARCH BIOLOGY CENTER IS GOING TO BE PART OF THIS MASTER PLAN. THE BEST LOCATION IS ON THE SOUTH POINT OF THE SITE HIGHLIGHTED.

ENERGY CONSIDERATIONS - SOLAR ORIENTATION

INITIALLY 5 DIFFERENT FORMS DECIDED TO ANALYSE INTERMS OF SOLAR RADIATION AND ENERGY EFFICIENCY OF FORM. FORM 4 WAS DECIDED SINCE THE MOST IT IS EFFICIENT ONE.



ENERGY ANALYSIS COMPARISON

FORM-01

Electricity EUI:	12 kWh / sf / yr	ENERGY USE INTENSITY
Fuel EUI:	24 kBtu / sf / yr	
Total EUI:	64 kBtu / sf / yr	

Roof Mounted PV System (Low efficiency):	147,932 kWh / yr	RENEWABLE ENERGY POTENTIAL
Roof Mounted PV System (Medium efficiency):	295,863 kWh / yr	
Roof Mounted PV System (High efficiency):	443,795 kWh / yr	
Single 15' Wind Turbine Potential:	4,145 kWh / yr	

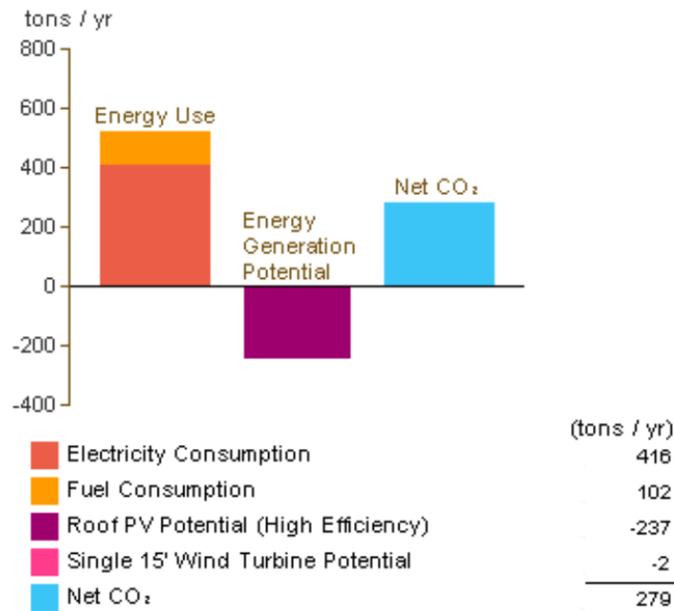
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems

FORM-02

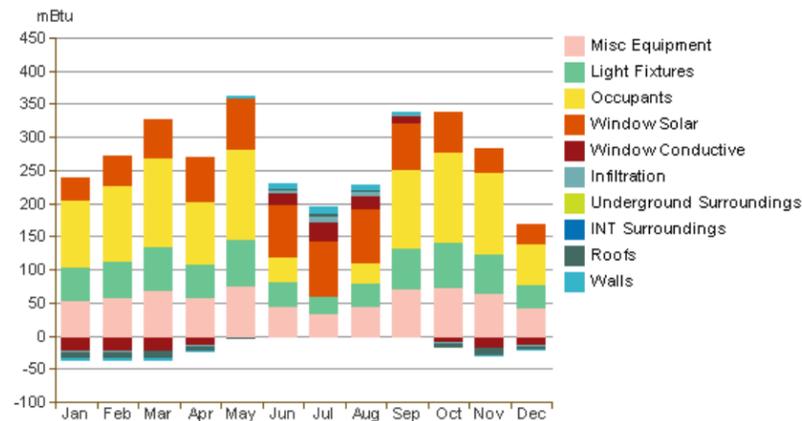
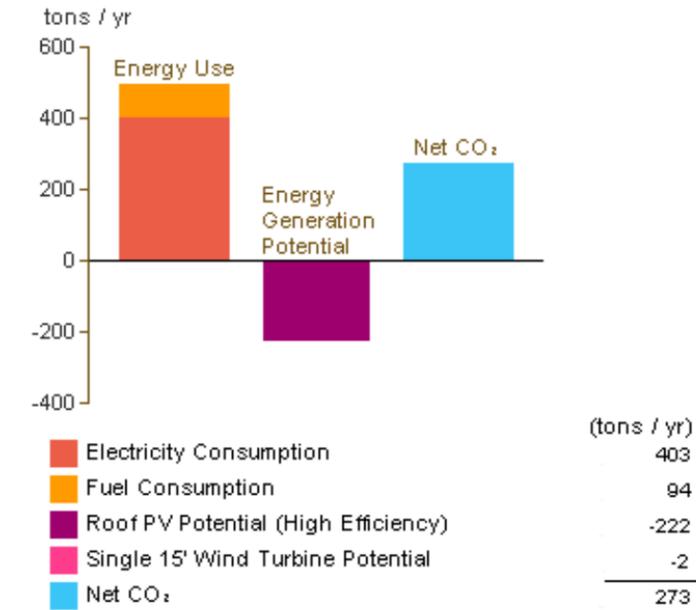
Electricity EUI:	12 kWh / sf / yr	ENERGY USE INTENSITY
Fuel EUI:	26 kBtu / sf / yr	
Total EUI:	67 kBtu / sf / yr	

Roof Mounted PV System (Low efficiency):	157,696 kWh / yr	RENEWABLE ENERGY POTENTIAL
Roof Mounted PV System (Medium efficiency):	315,392 kWh / yr	
Roof Mounted PV System (High efficiency):	473,088 kWh / yr	
Single 15' Wind Turbine Potential:	4,145 kWh / yr	

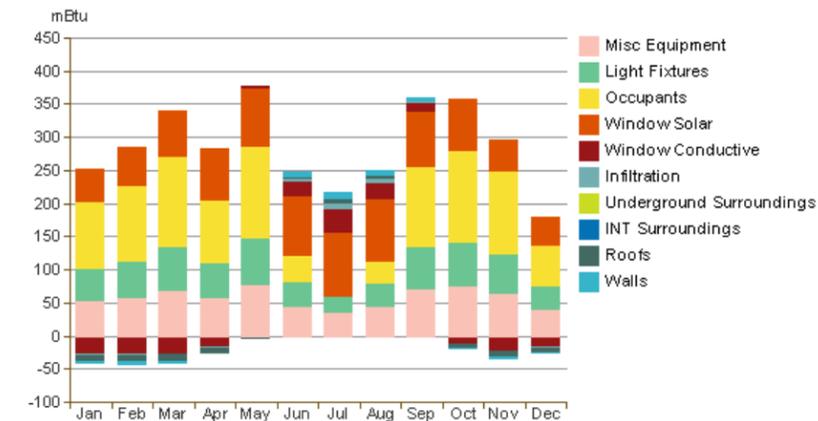
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems



ANNUAL CARBON EMISSIONS



MONTHLY COOLING LOAD



ACTIVITIES

PUBLIC

CONFERENCES

- SEA WORLD
- SEA FOOD
- FISH CATCHING
- SCUBA DIVING

DISPLAY

- OBSERVATION

ACADEMIC

COLLECTION/LIBRARY OF LOCAL FLORA AND FAUNA

RESEARCHES

- FISH BIOLOGY
- MARINE ENVIRONMENT
- ECOLOGY OF ENDANGERED SPECIES
- MOLECULAR BIOLOGY AND GENETIC
- UNDERWATER COMMUNICATION
- AQUACULTURE

ENVIRONMENTAL MONITORING

REMOTE OPERATION CONTROL

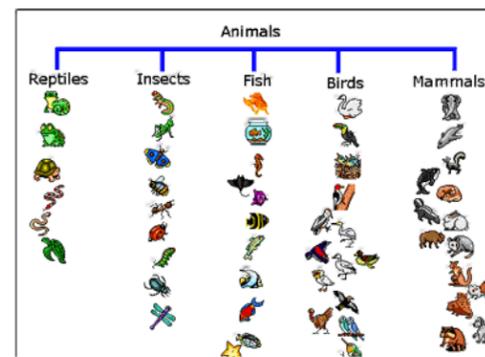
MEDIA PRODUCTION CENTER



COLLECT



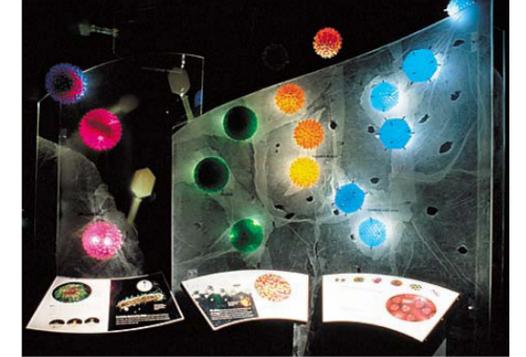
RESEARCH



CLASSIFY



ARCHIVE



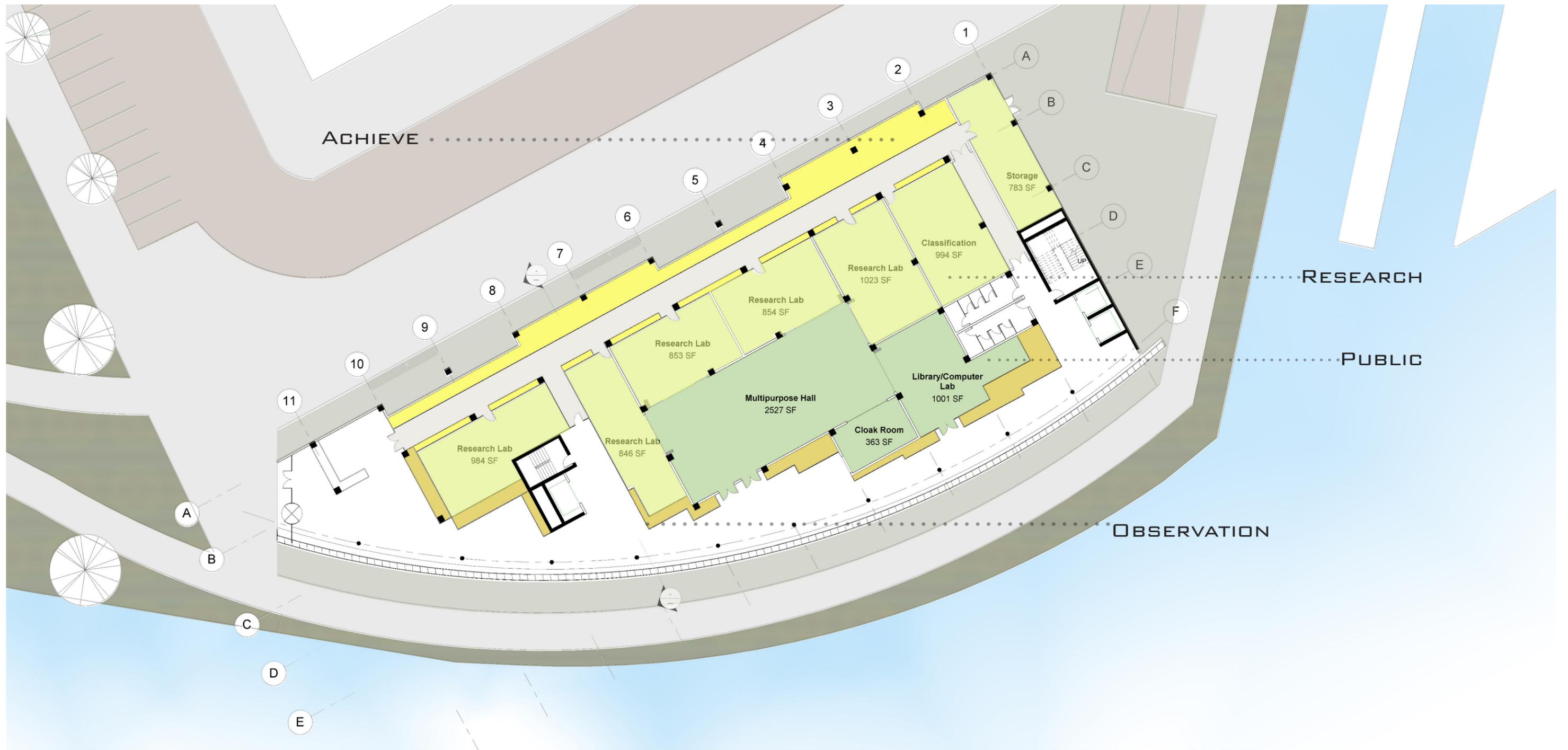
EXHIBIT

LIBRARY OF LOCAL FAUNA AND FLORA

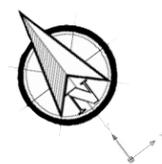


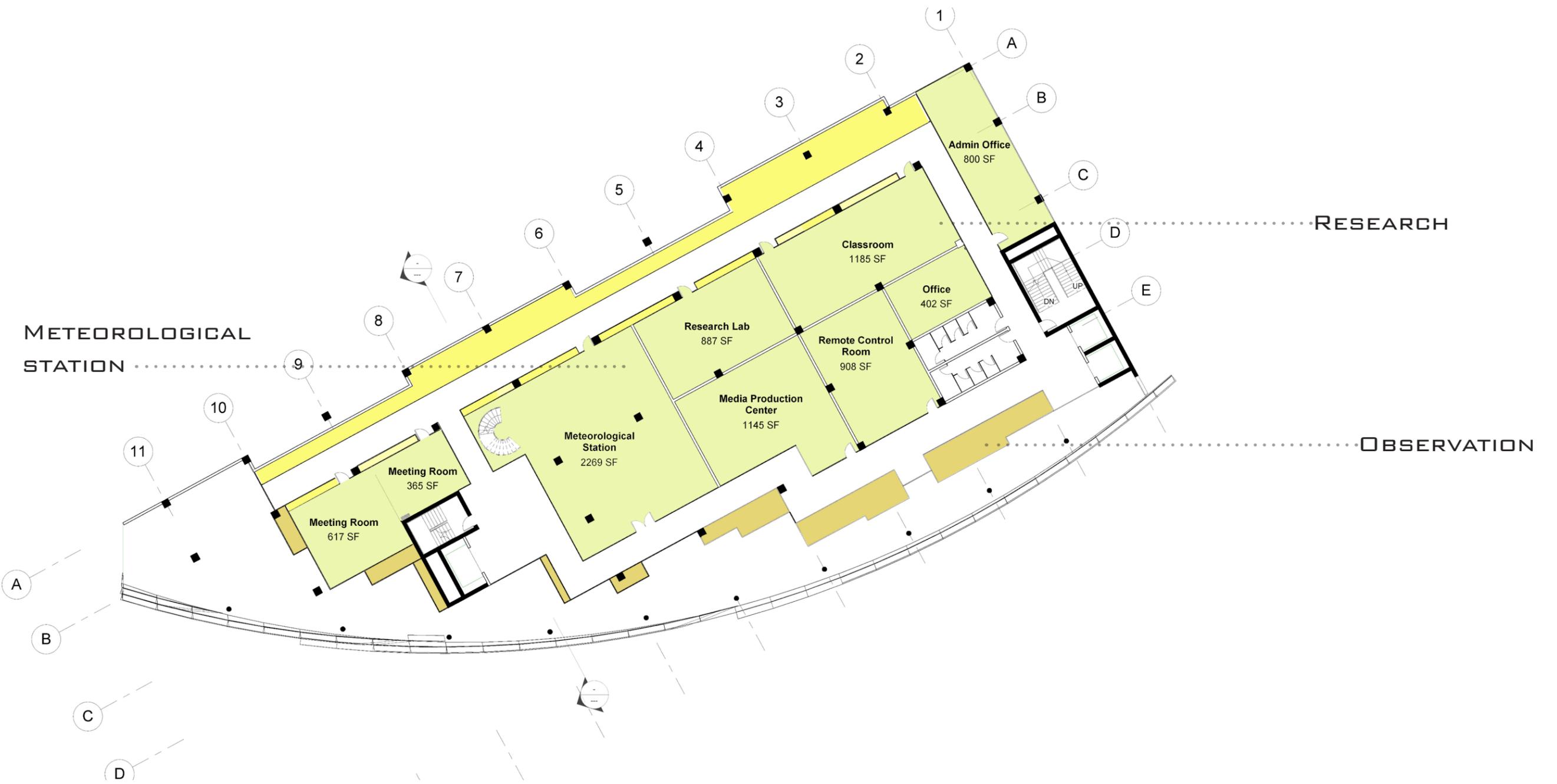
SITE PLAN



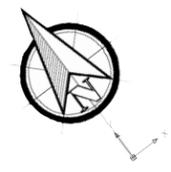


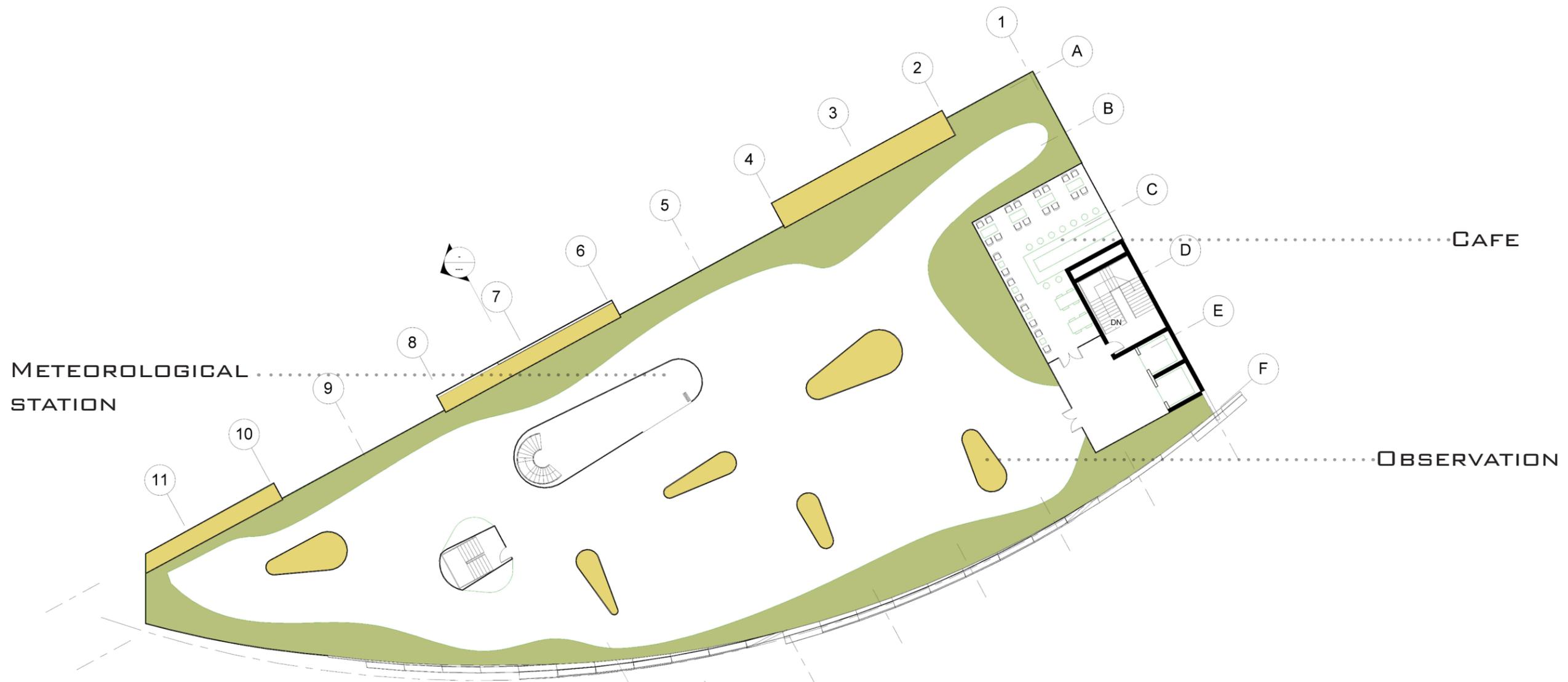
LEVEL 1





LEVEL 2



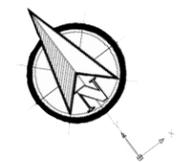


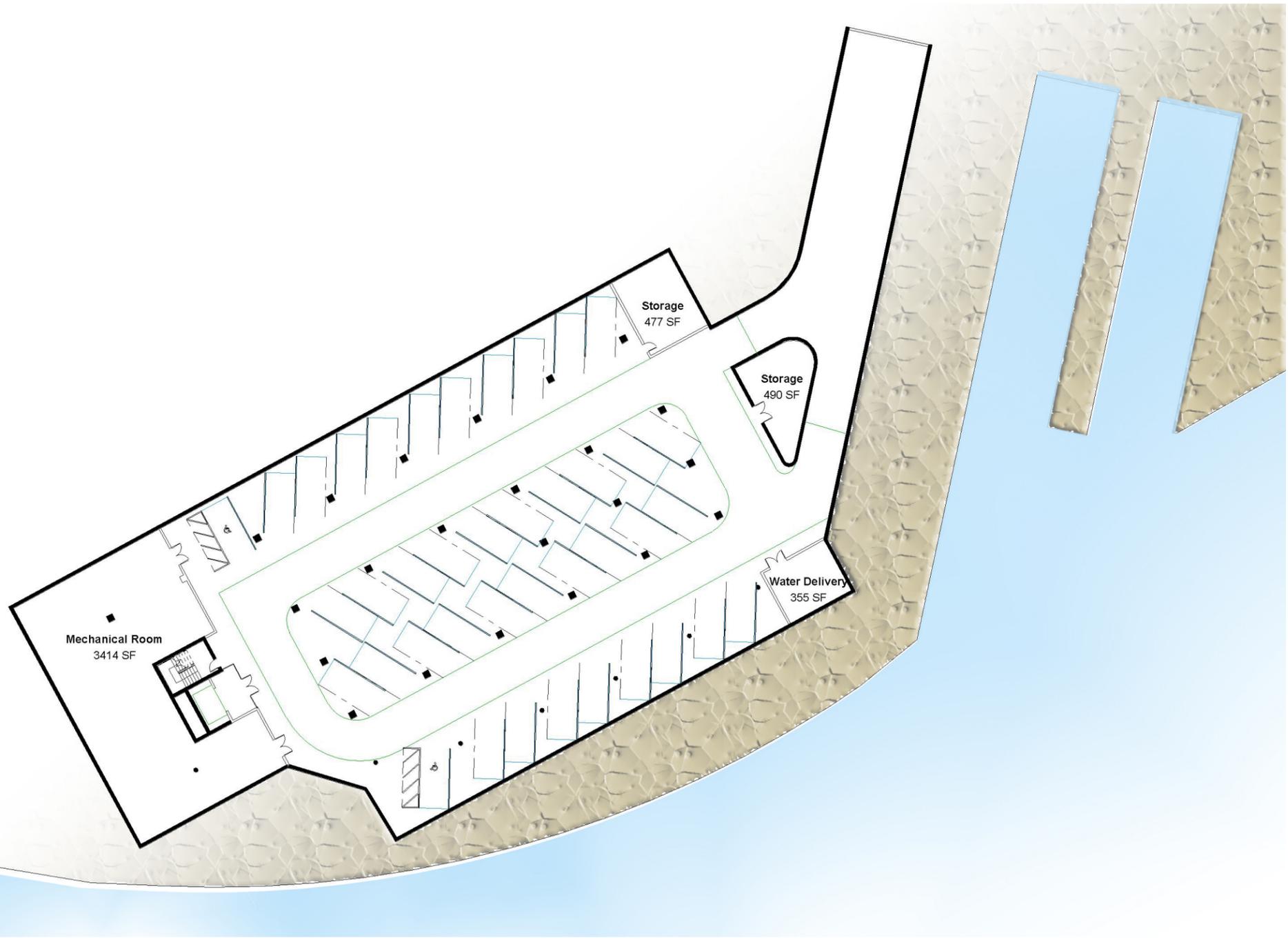
METEOROLOGICAL
STATION

CAFE

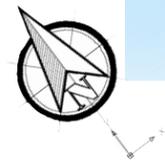
OBSERVATION

ROOF
20' 10' 20'
+25.00

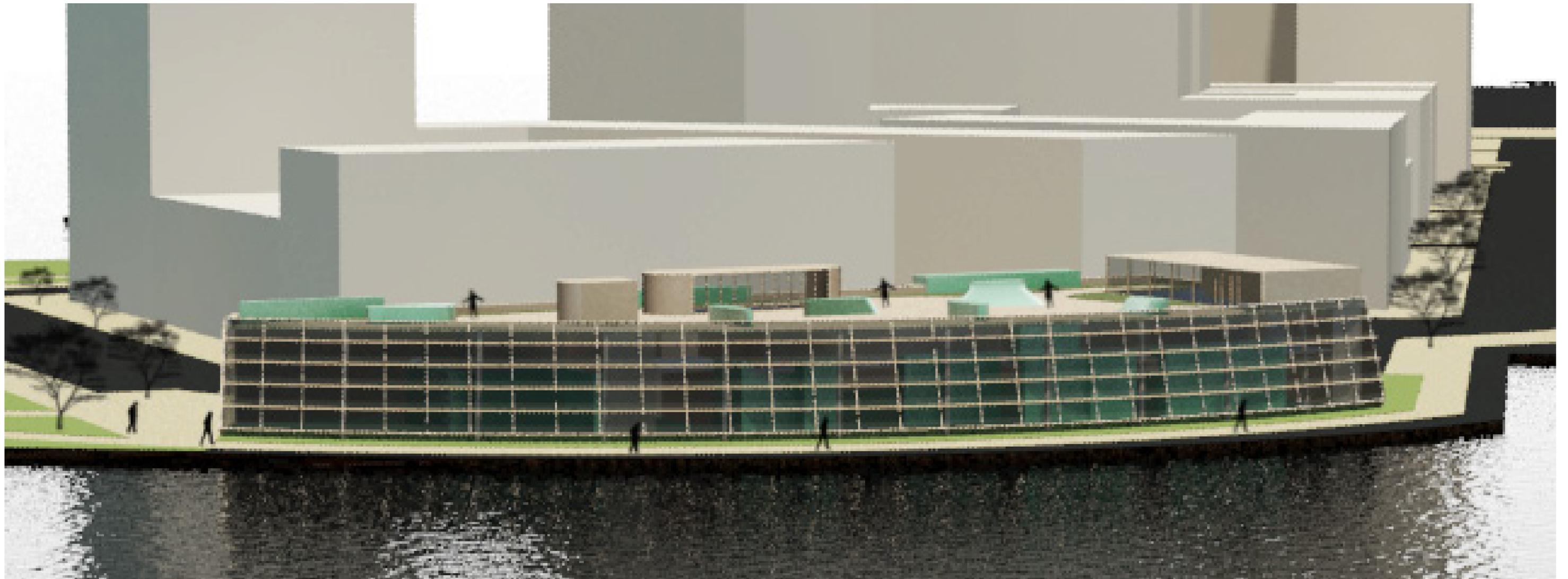




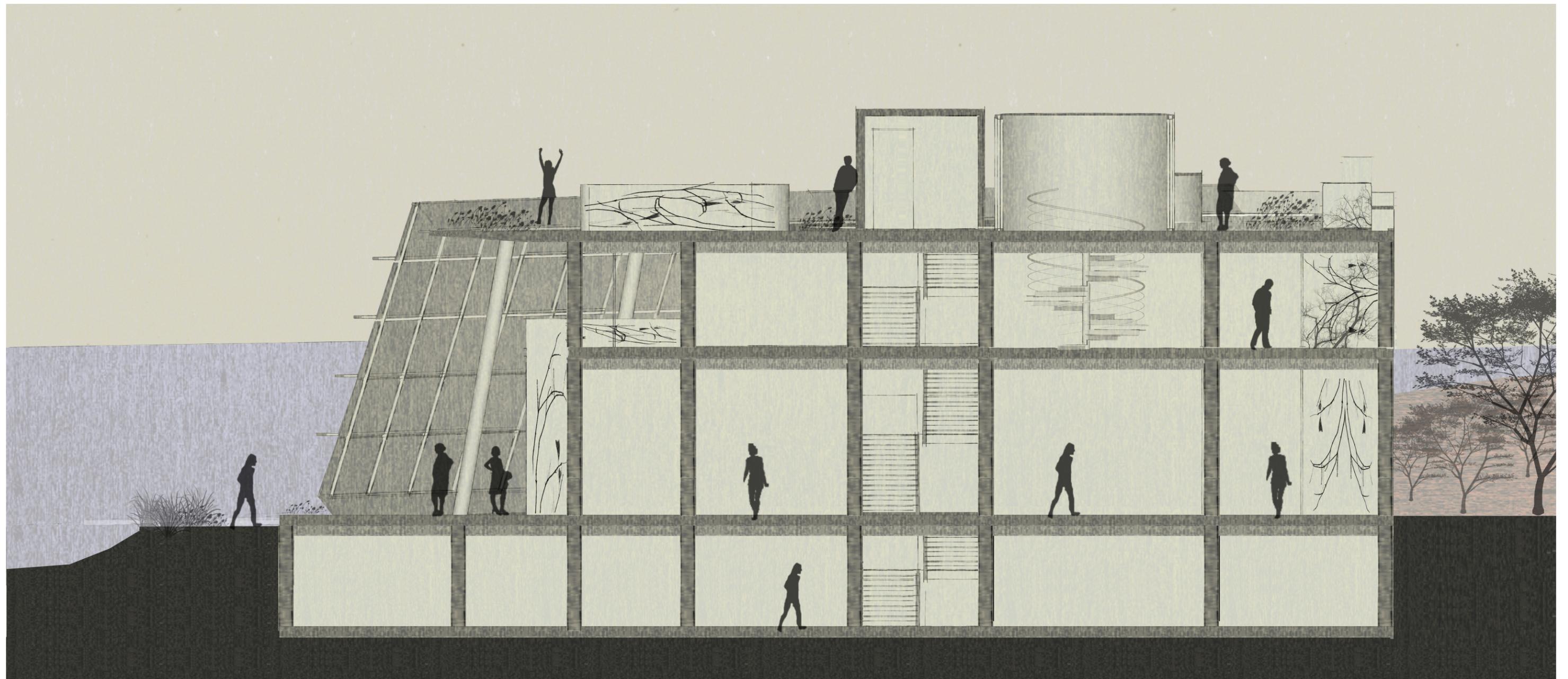
BASEMENT



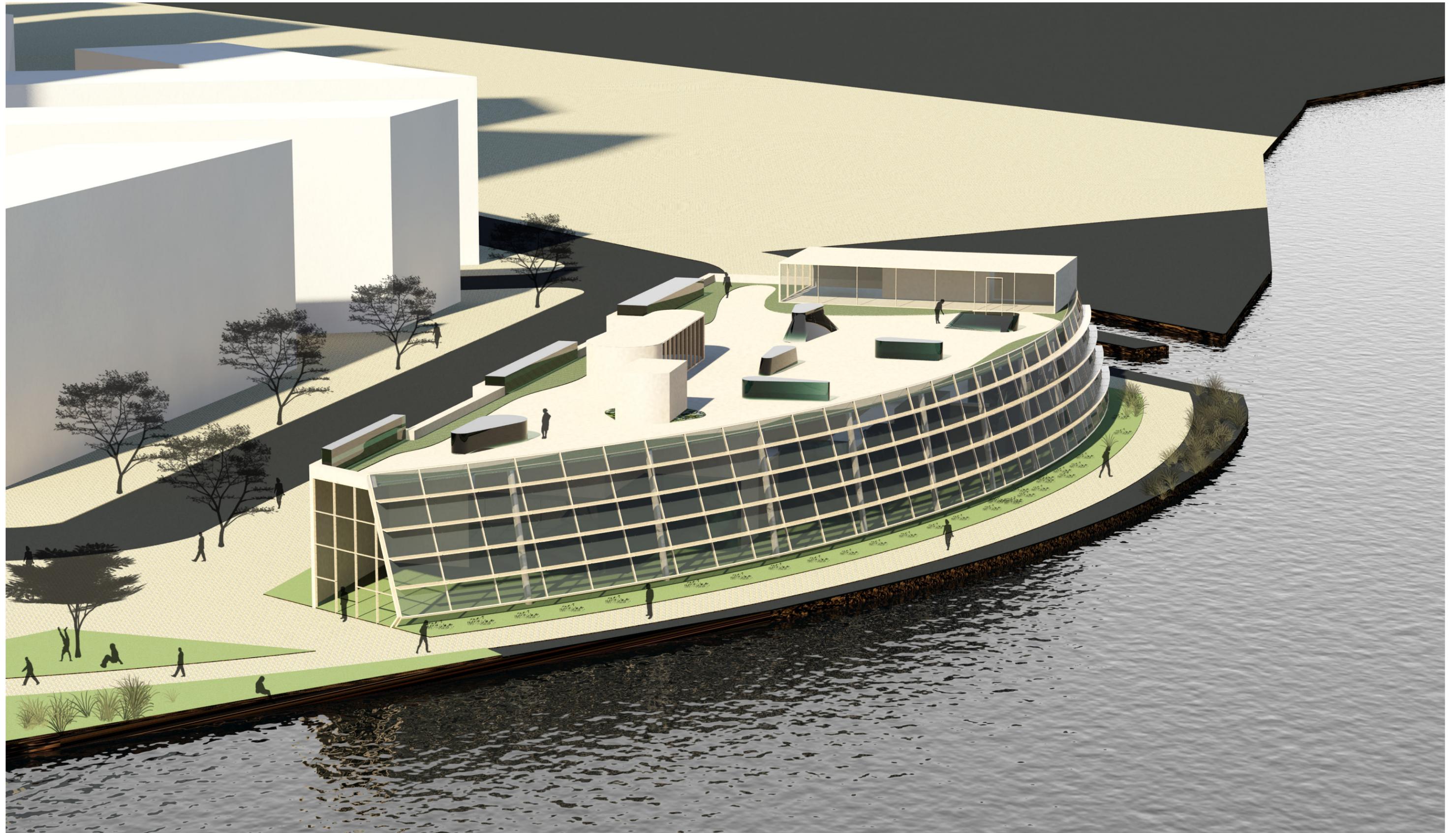
SOUTH FACADE



SECTION LEFT TO RIGHT ORGANIZATION IS PUBLIC TO PRIVATE OBSERVATION/RESEARCH/ARCHIVE



GENERAL VIEW



SITE INTEGRATION CONTINUATION OF PARKING SYSTEM OBSERVATION/DESTINATION/ACTIVITIES

