

**MIAMI BAYWALK & BIKEWAY
BRIDGE PROJECT**
INPUT PHASE / FEBRUARY 2022

INFORM



ARQUITECTONICA
RESILIENT LANDSCAPES **GEO**

CUMMINS | CEDERBERG
Coastal & Marine Engineering

CONTEXT

SITE ANALYSIS

ADJACENT DEVELOPMENTS

CONNECTIVITY

PLANNING

BRIDGE ALIGNMENT

PRECEDENT

PROGRAM

ECOLOGY

MOBILITY

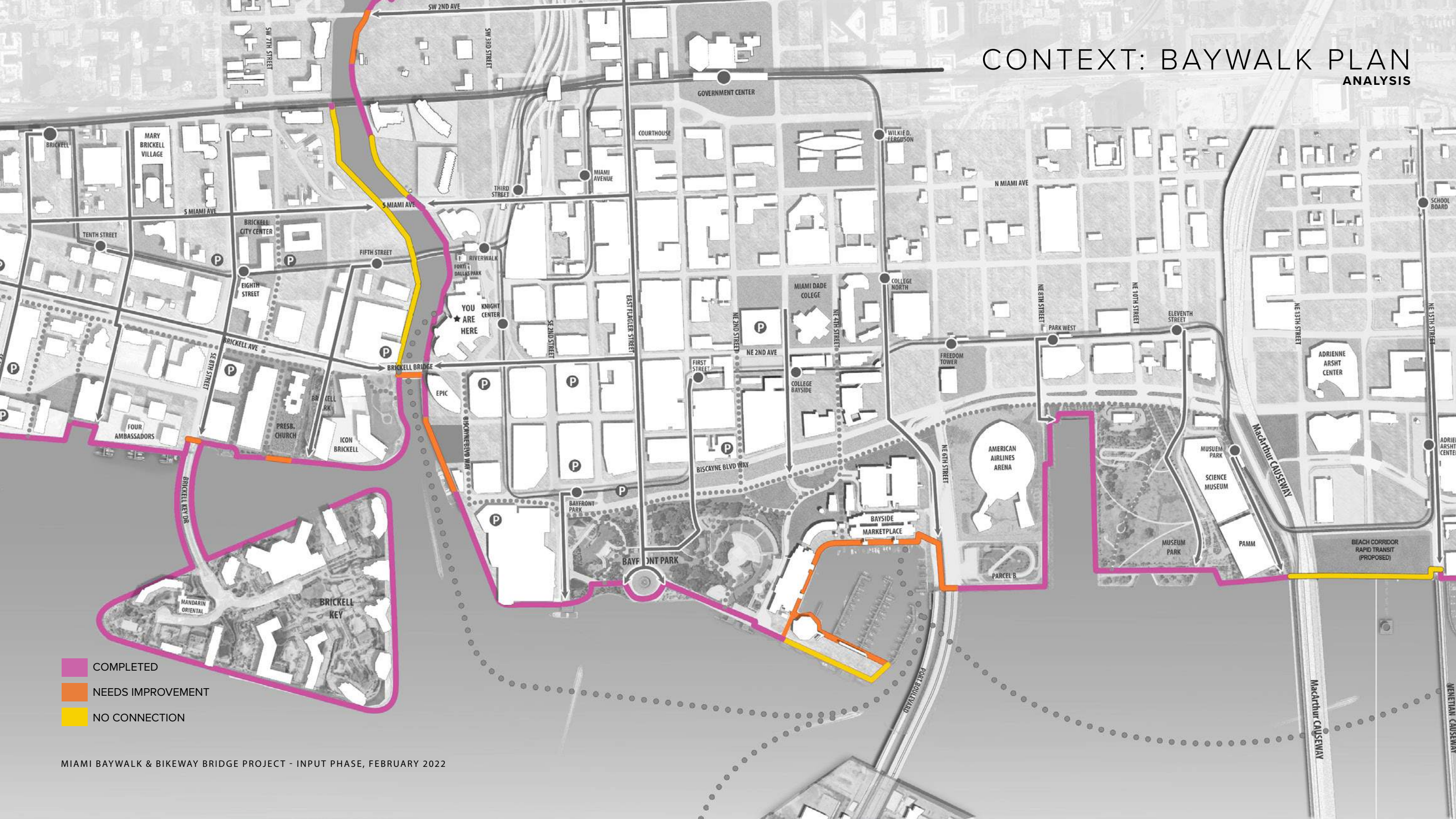
INFRASTRUCTURE INTEGRATION

ART

INTERPRETATIVE EDUCATION

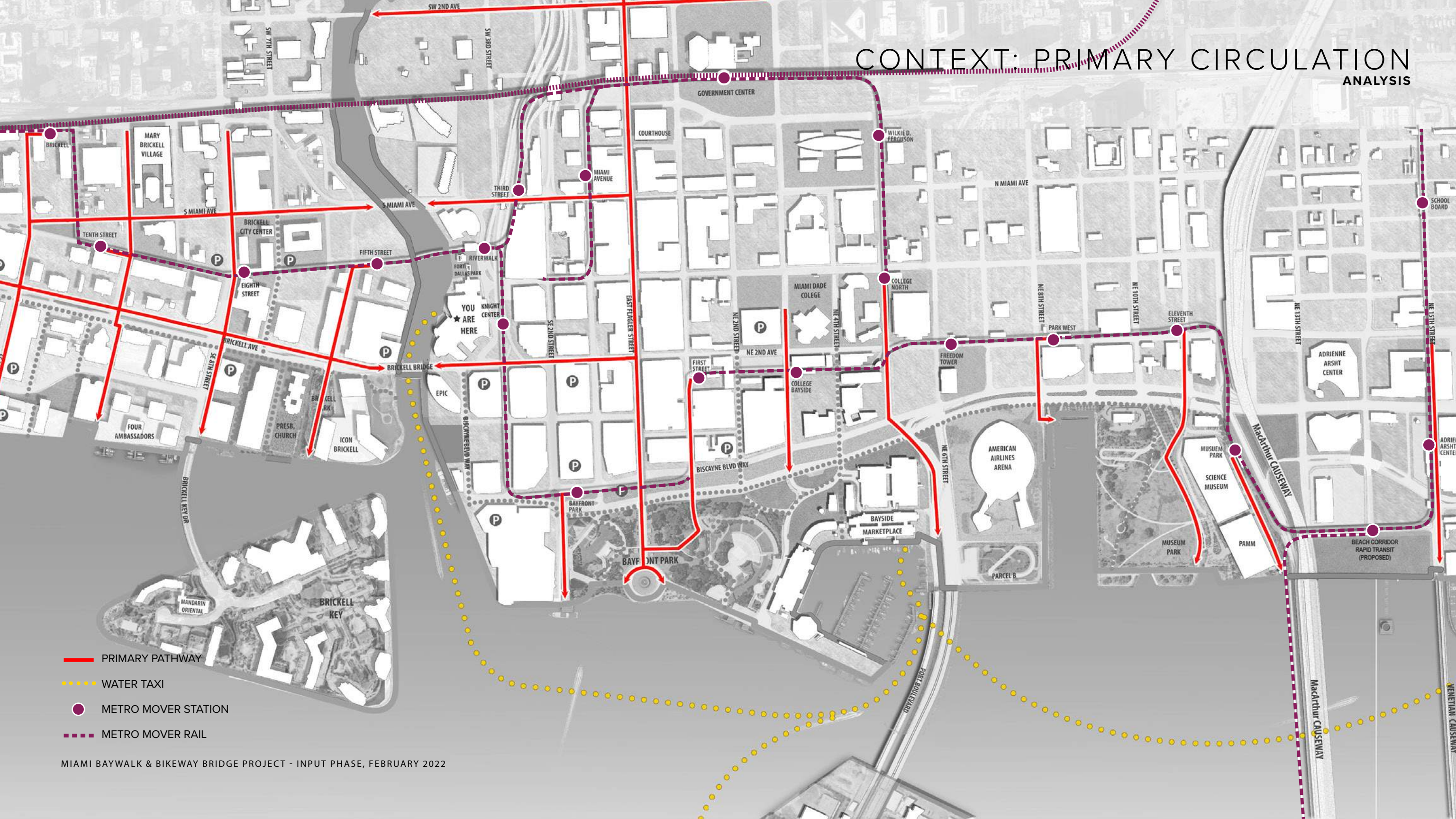
FABRICATION

CONTEXT: BAYWALK PLAN ANALYSIS



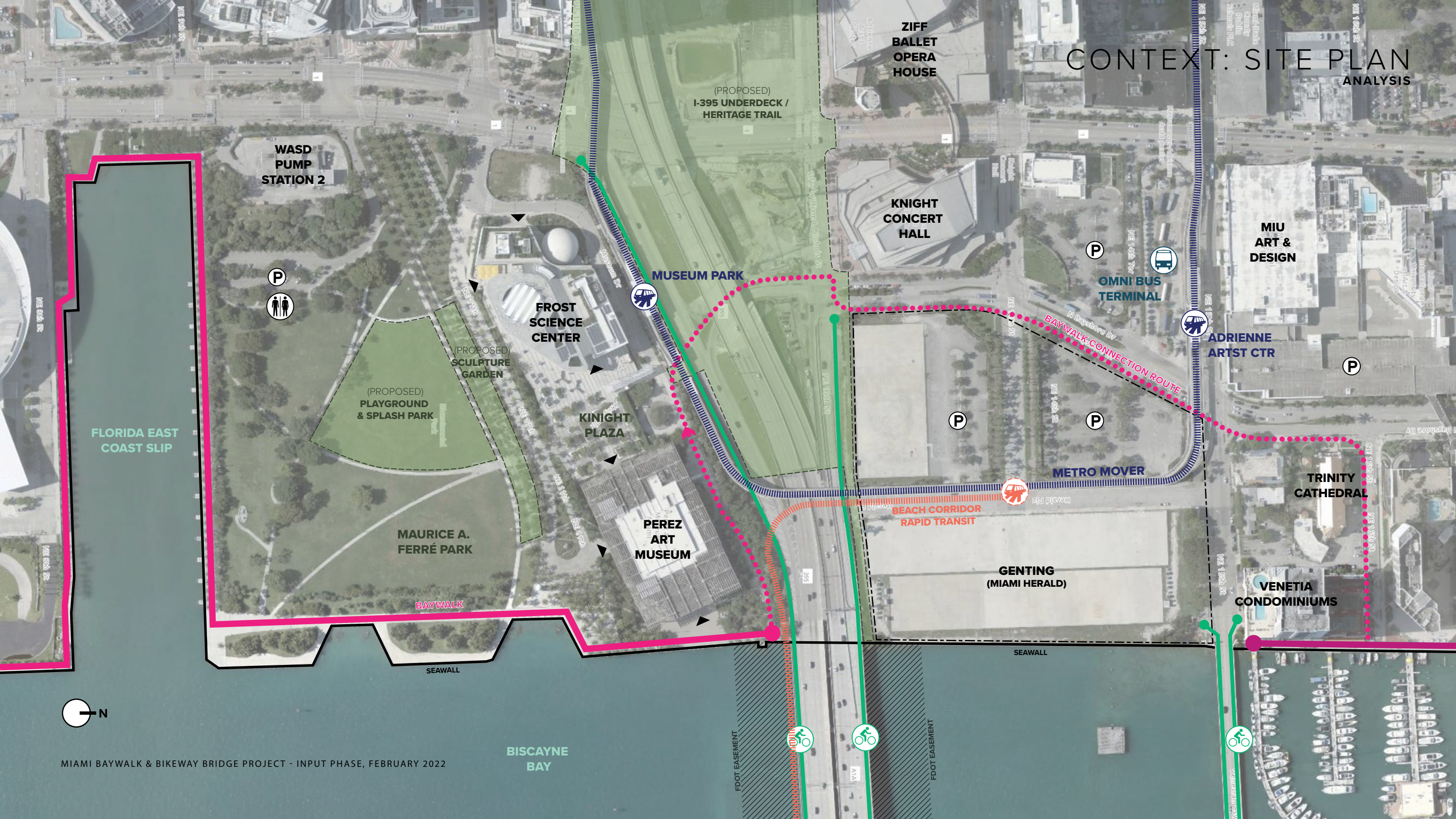
- COMPLETED
- NEEDS IMPROVEMENT
- NO CONNECTION

CONTEXT: PRIMARY CIRCULATION ANALYSIS



- PRIMARY PATHWAY
- ⋯ WATER TAXI
- METRO MOVER STATION
- - - METRO MOVER RAIL

CONTEXT: SITE PLAN ANALYSIS



WASD
PUMP
STATION 2

ZIFF
BALLET
OPERA
HOUSE

(PROPOSED)
I-395 UNDERDECK /
HERITAGE TRAIL

KNIGHT
CONCERT
HALL

MIU
ART &
DESIGN



MUSEUM PARK

P
OMNI BUS
TERMINAL

FROST
SCIENCE
CENTER

ADRIENNE
ARTST CTR

(PROPOSED)
SCULPTURE
GARDEN

BAYWALK CONNECTION ROUTE

(PROPOSED)
PLAYGROUND
& SPLASH PARK

KINIGHT
PLAZA

METRO MOVER

FLORIDA EAST
COAST SLIP

BEACH CORRIDOR
RAPID TRANSIT

MAURICE A.
FERRÉ PARK

PEREZ
ART
MUSEUM

GENTING
(MIAMI HERALD)

TRINITY
CATHEDRAL

BAYWALK

VENETIA
CONDOMINIUMS

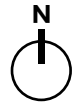
SEAWALL

SEAWALL

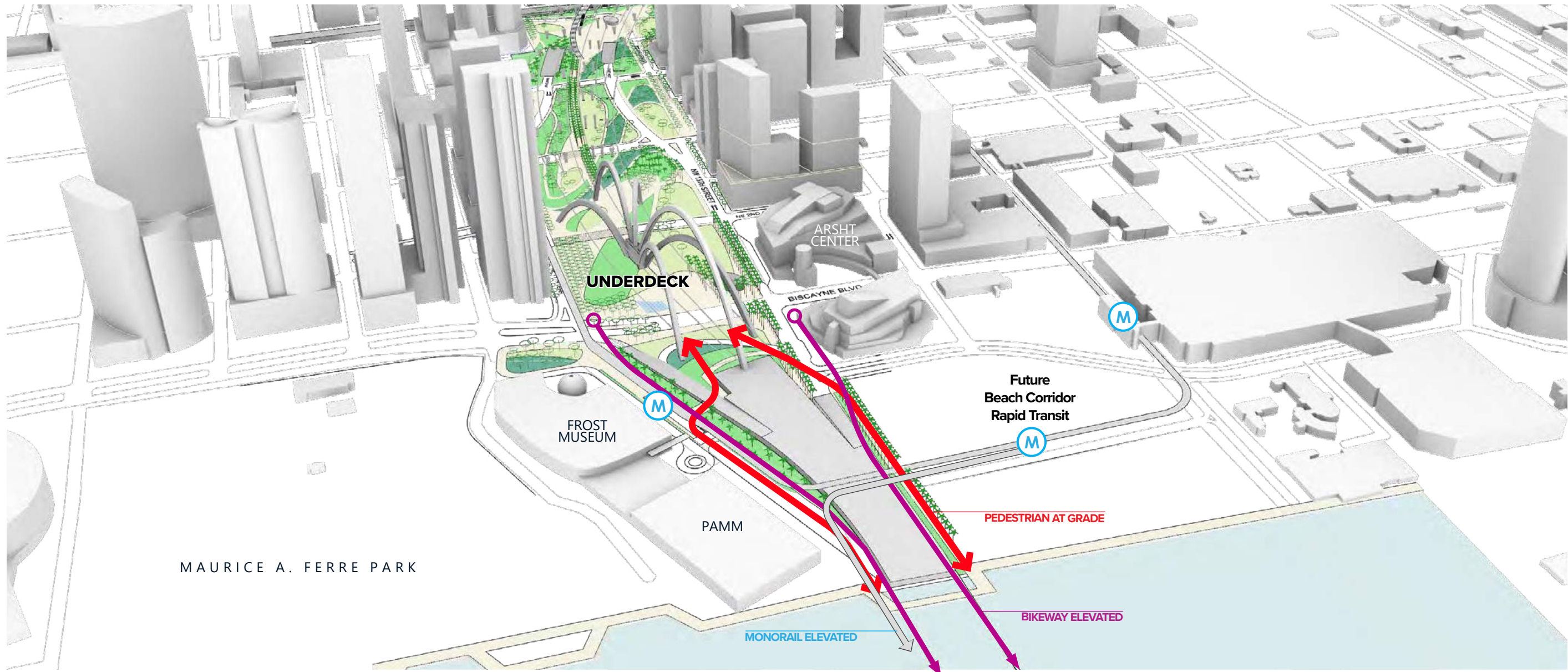
BISCAYNE
BAY



CONTEXT: CONNECTIVITY ANALYSIS

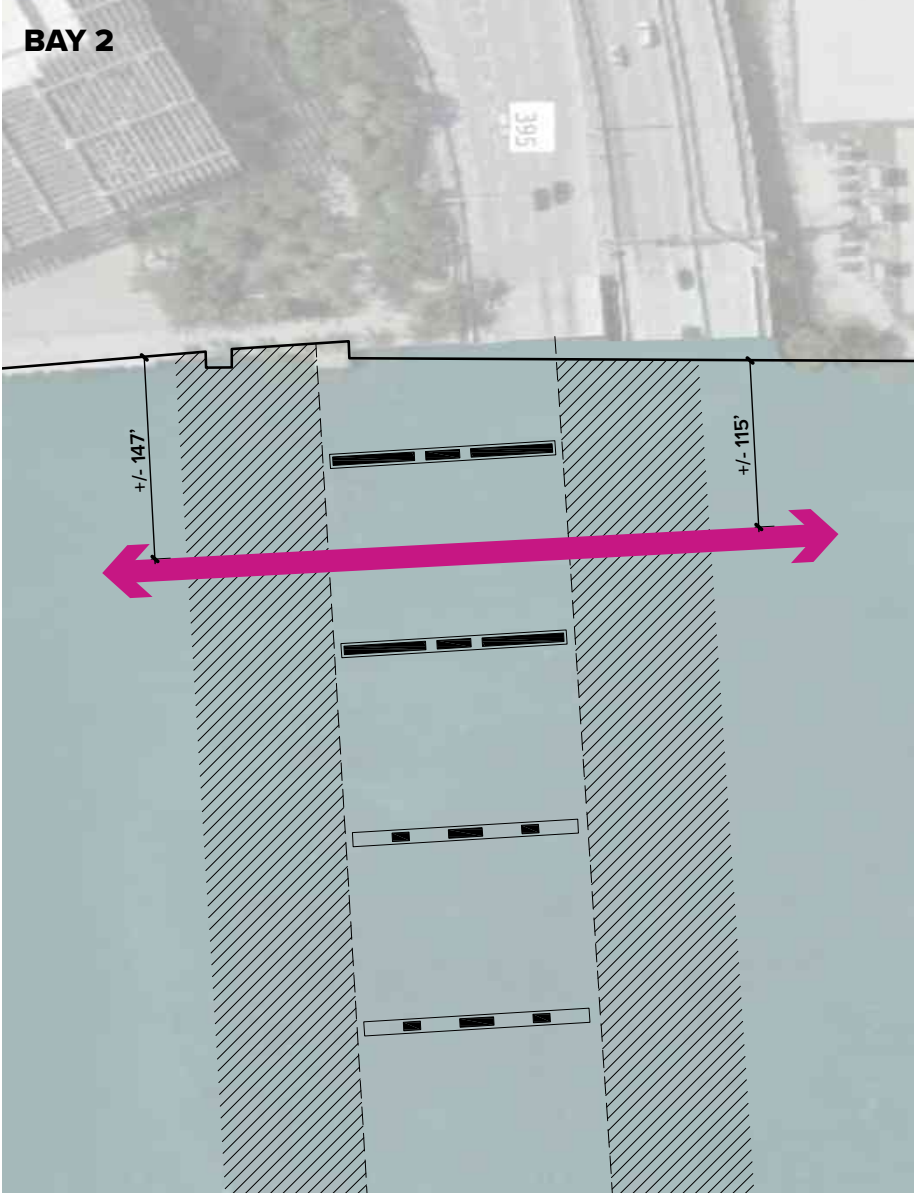


CONTEXT: CONNECTIVITY ANALYSIS

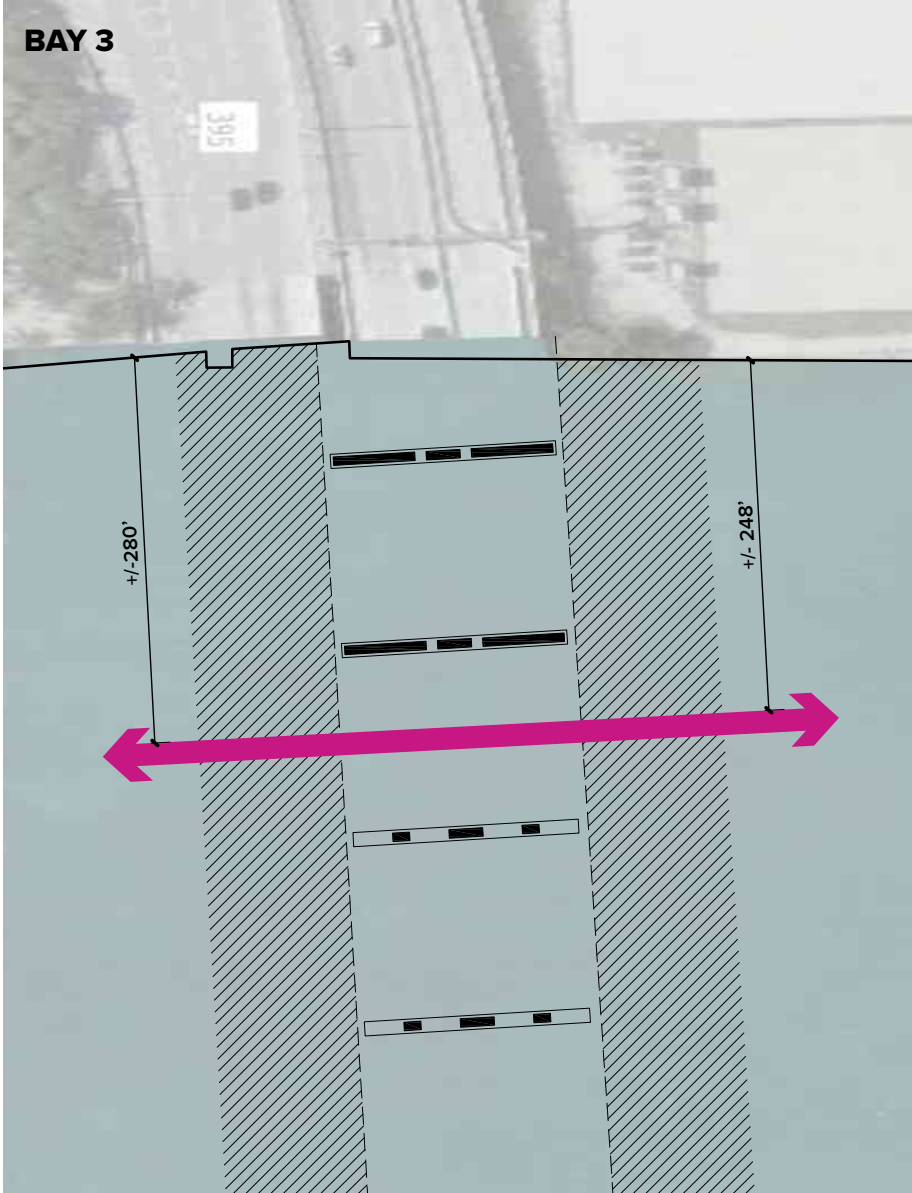


BRIDGE ALIGNMENT PLANNING

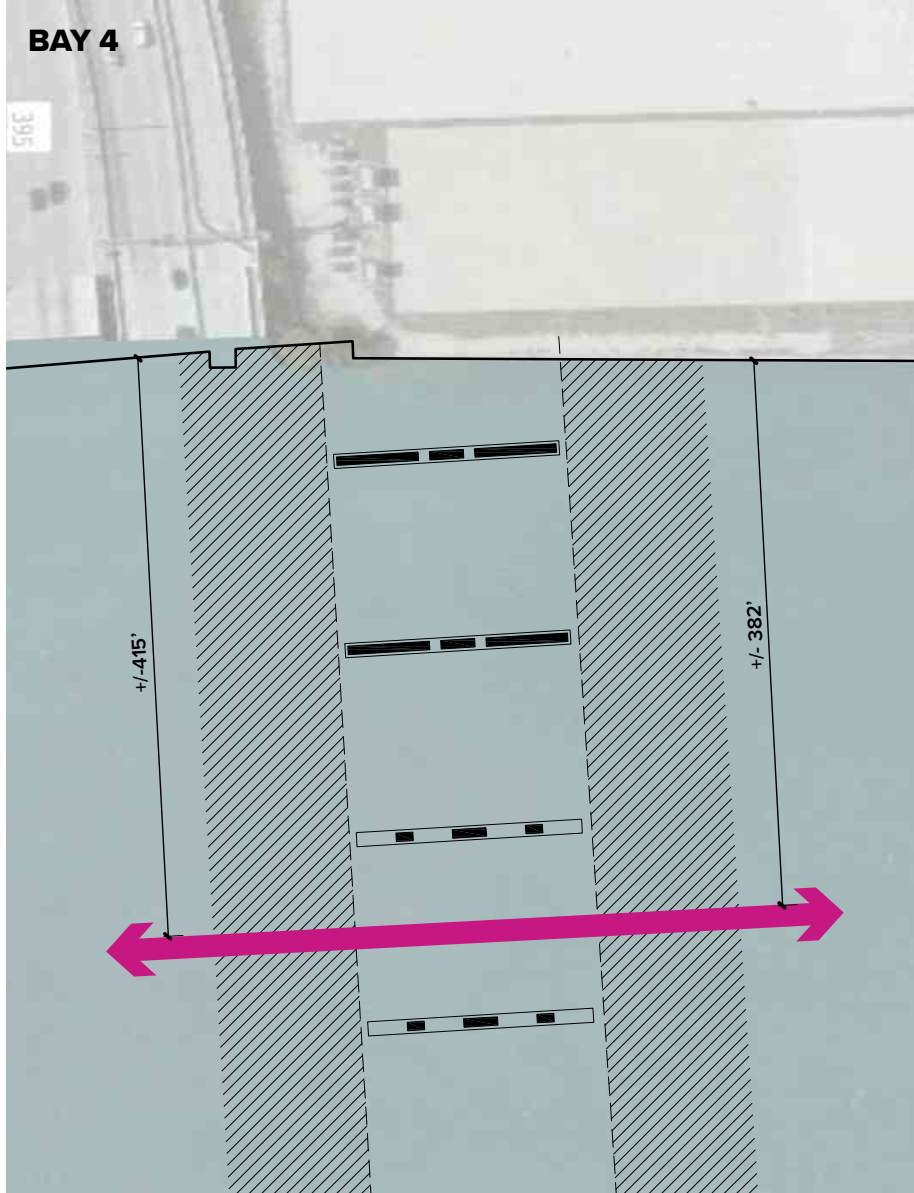
BAY 2



BAY 3



BAY 4



PROJECTED SEA LEVEL RISE PLANNING

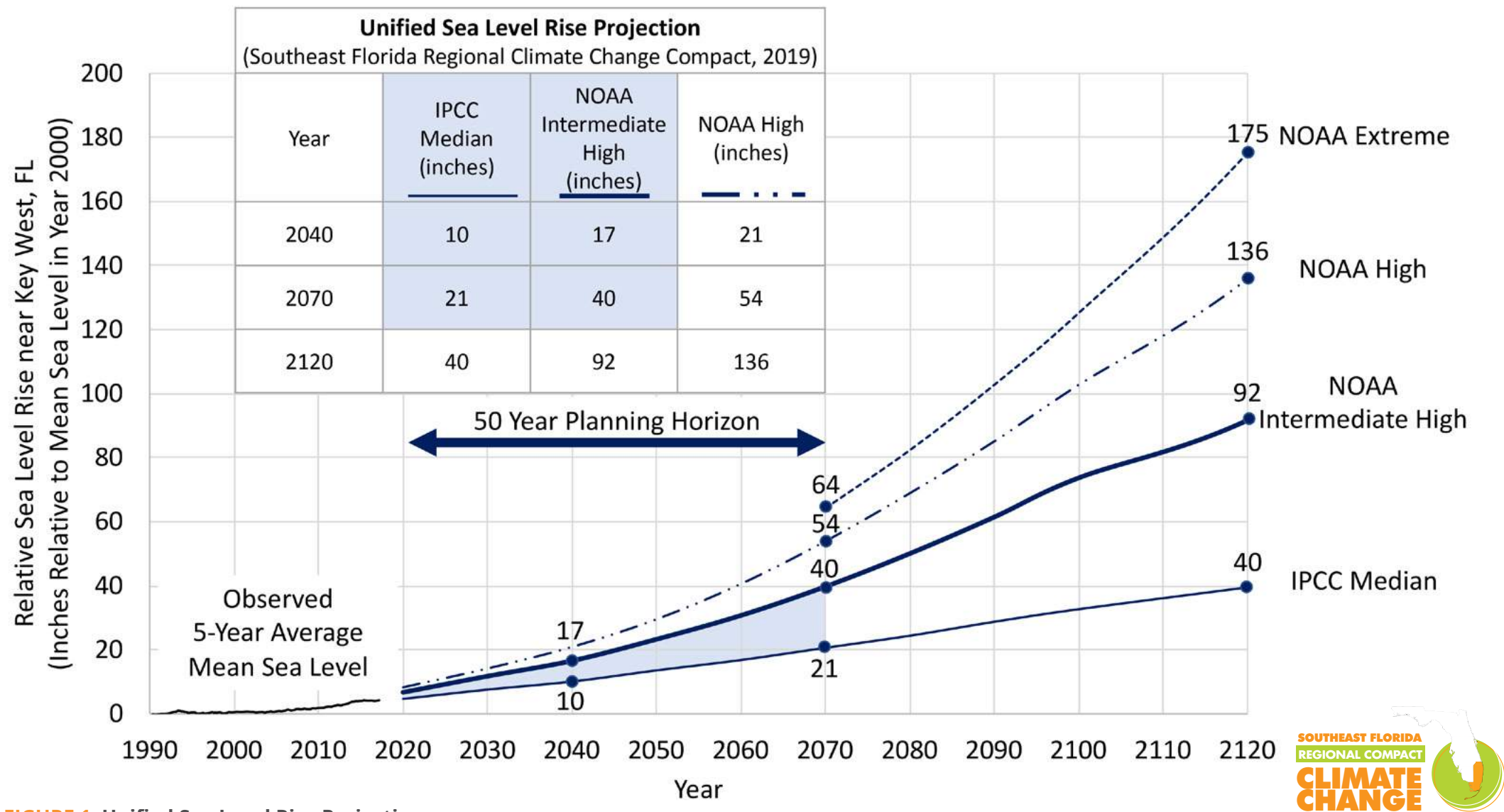
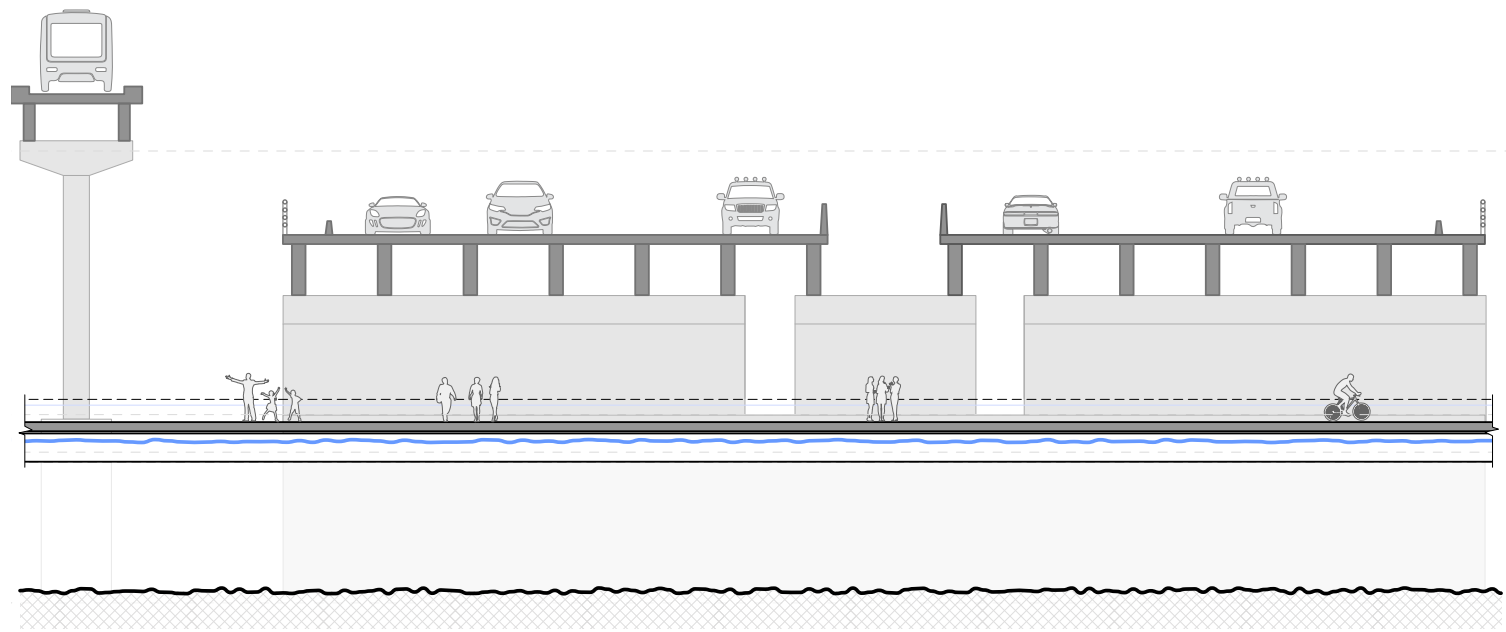
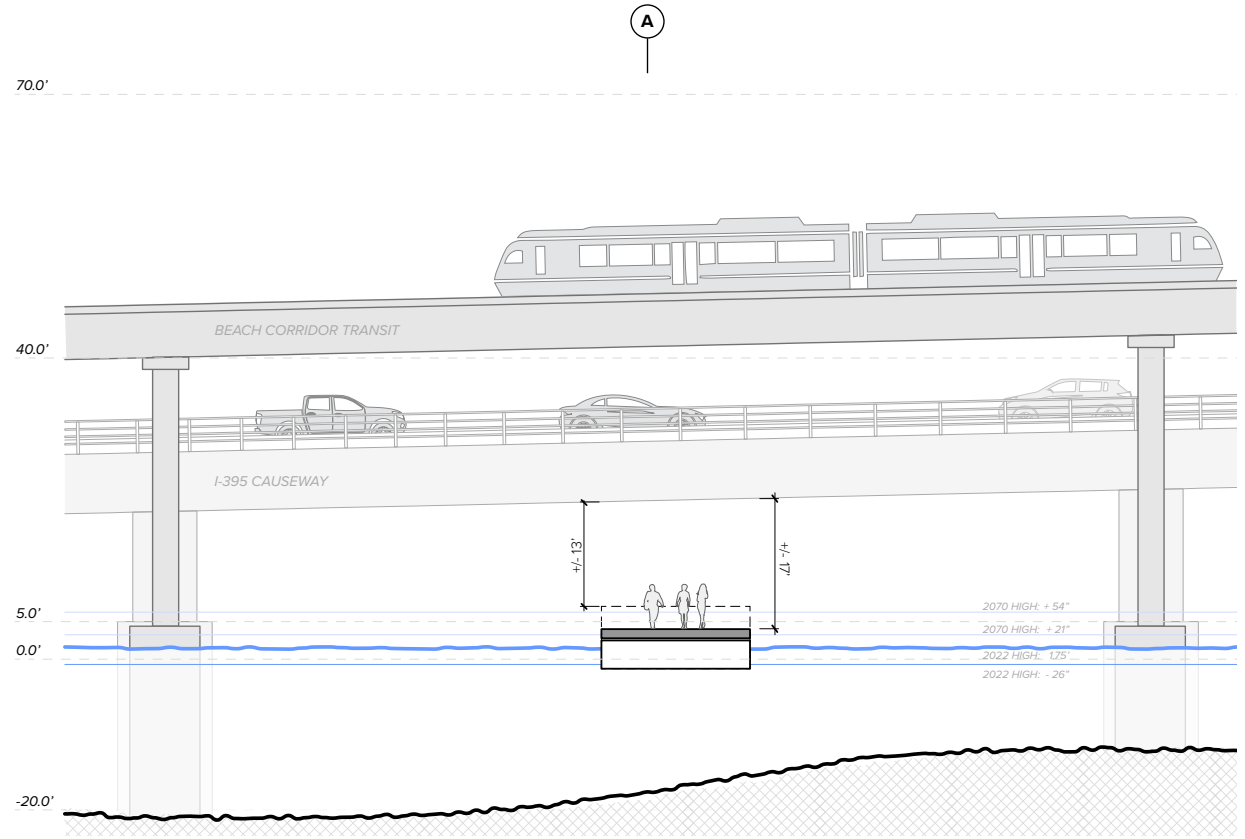
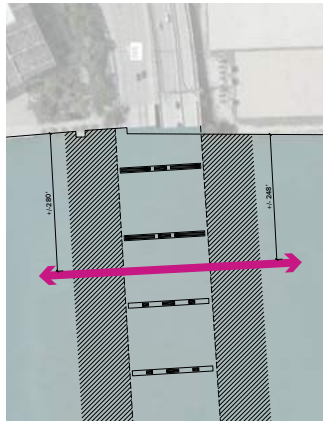


FIGURE 1: Unified Sea Level Rise Projection

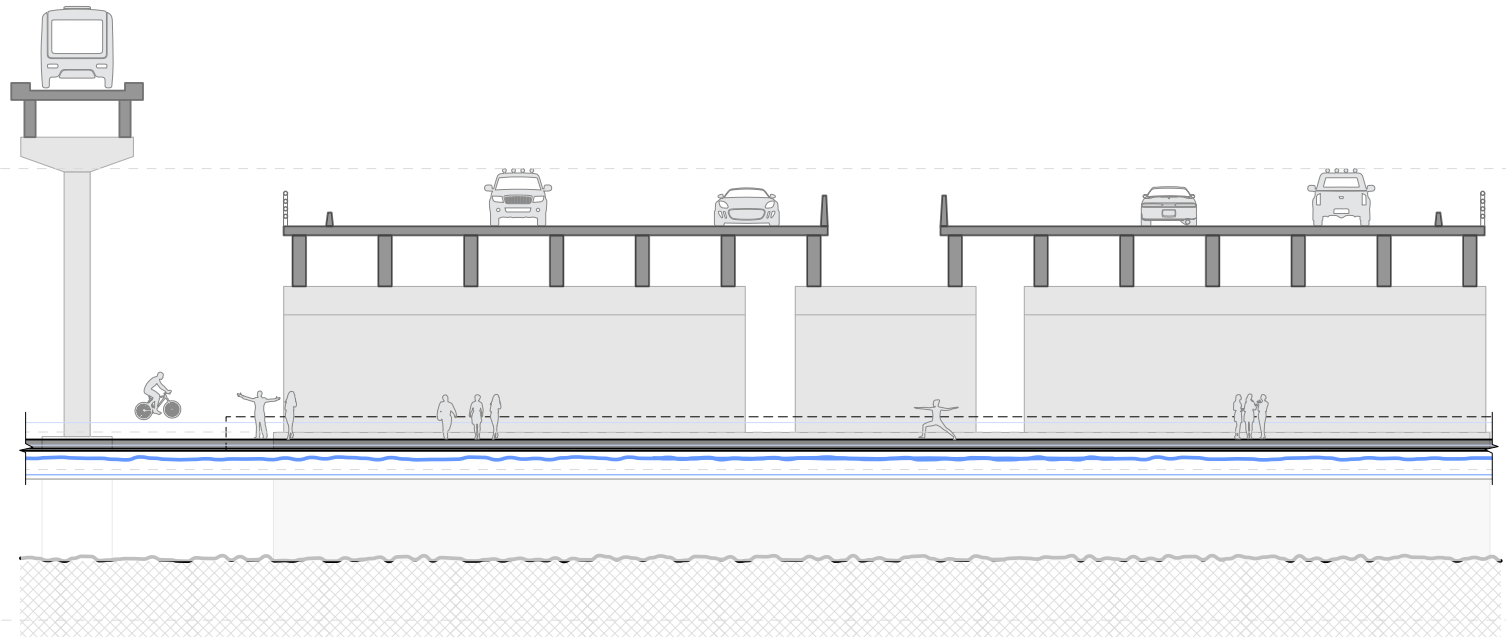
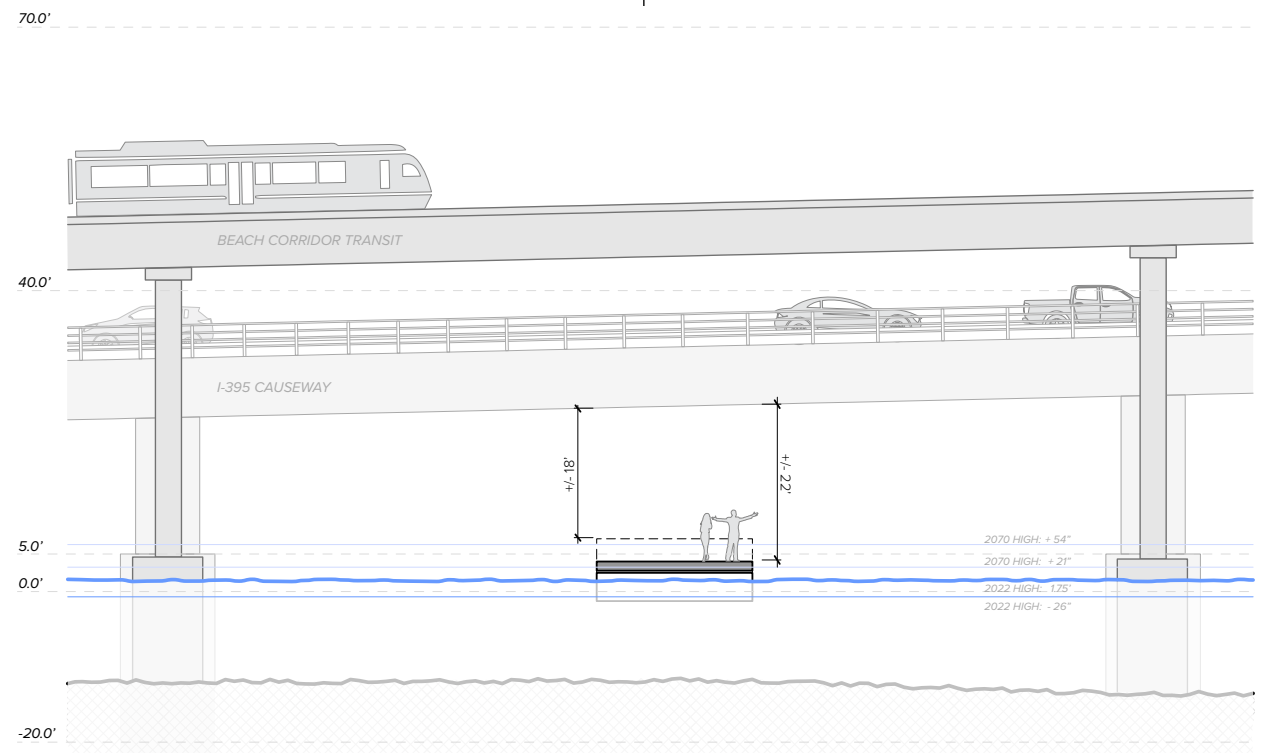
BRIDGE ALIGNMENT: BAY 2 PLANNING



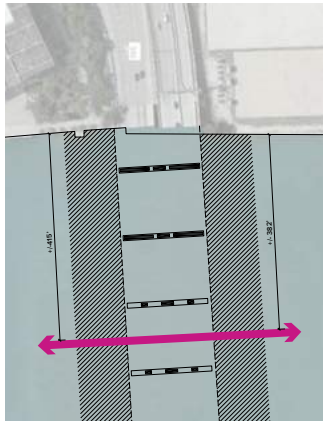
BRIDGE ALIGNMENT: BAY 3 PLANNING



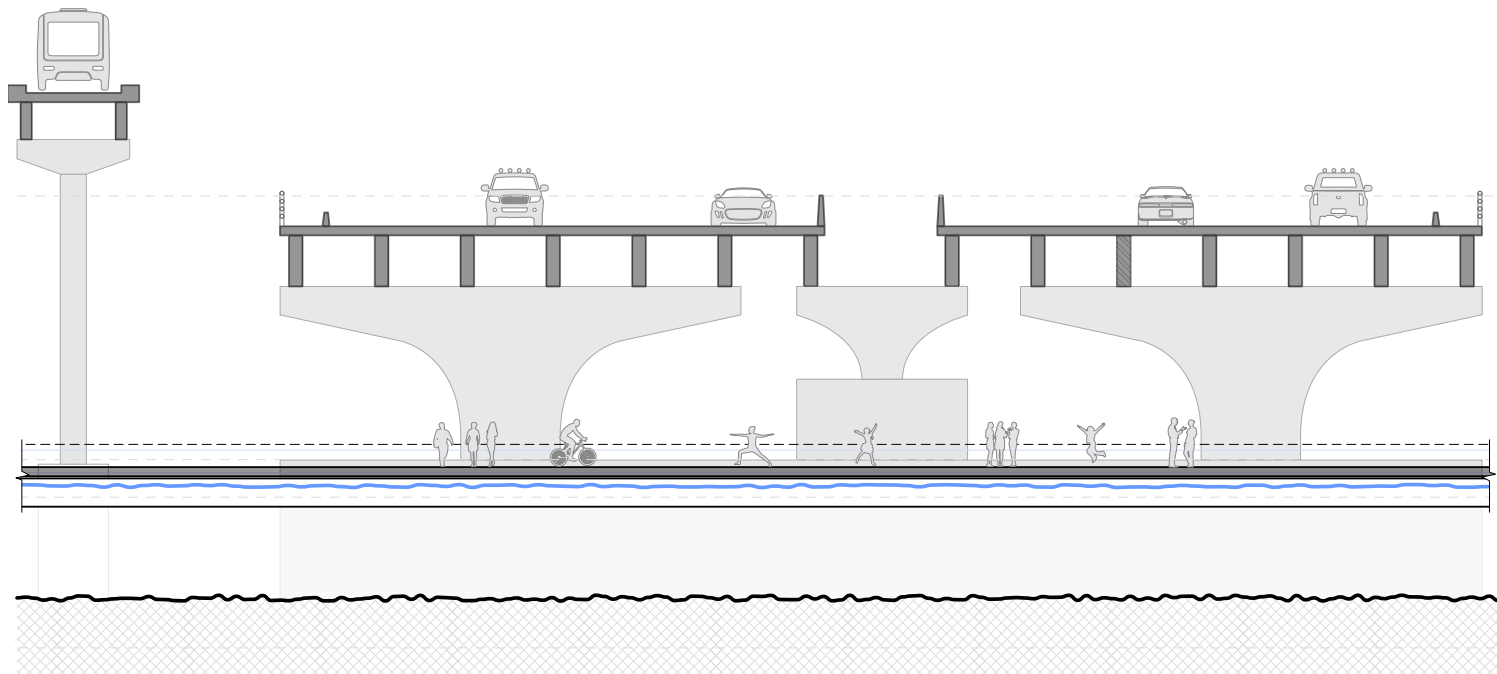
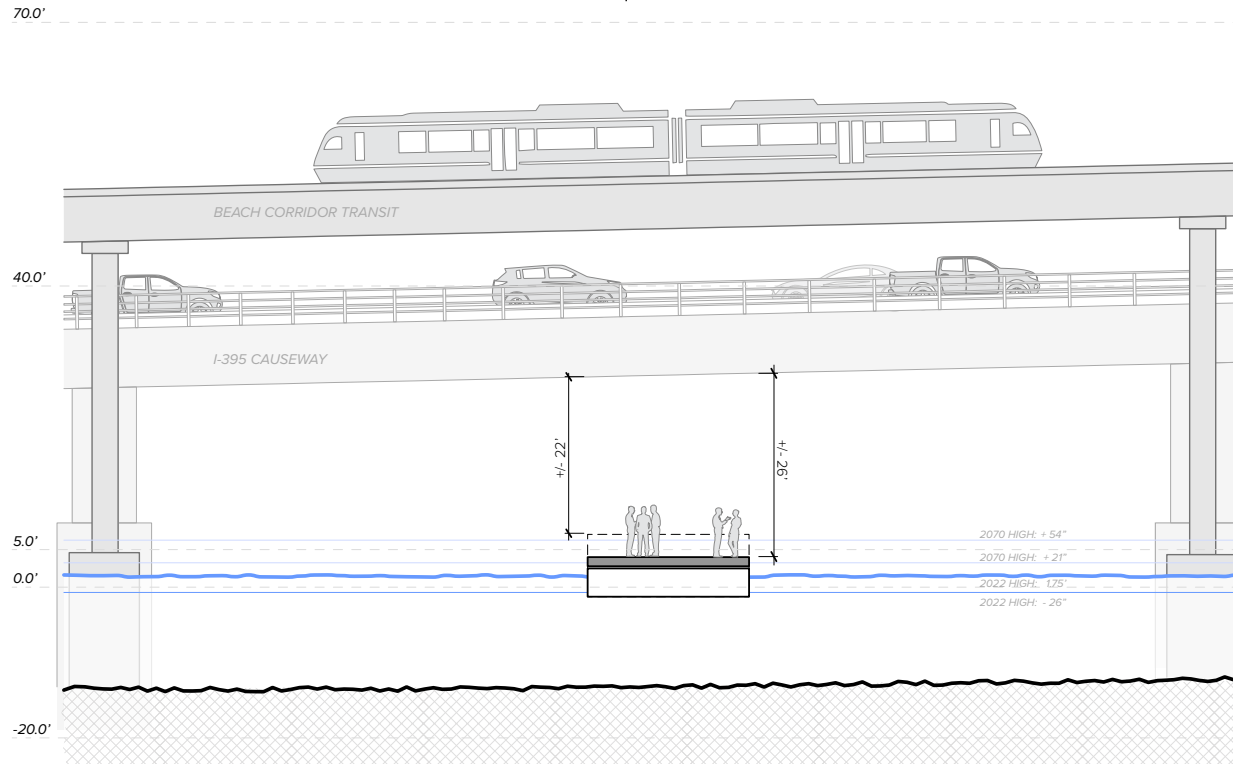
B



BRIDGE ALIGNMENT: BAY 4 PLANNING

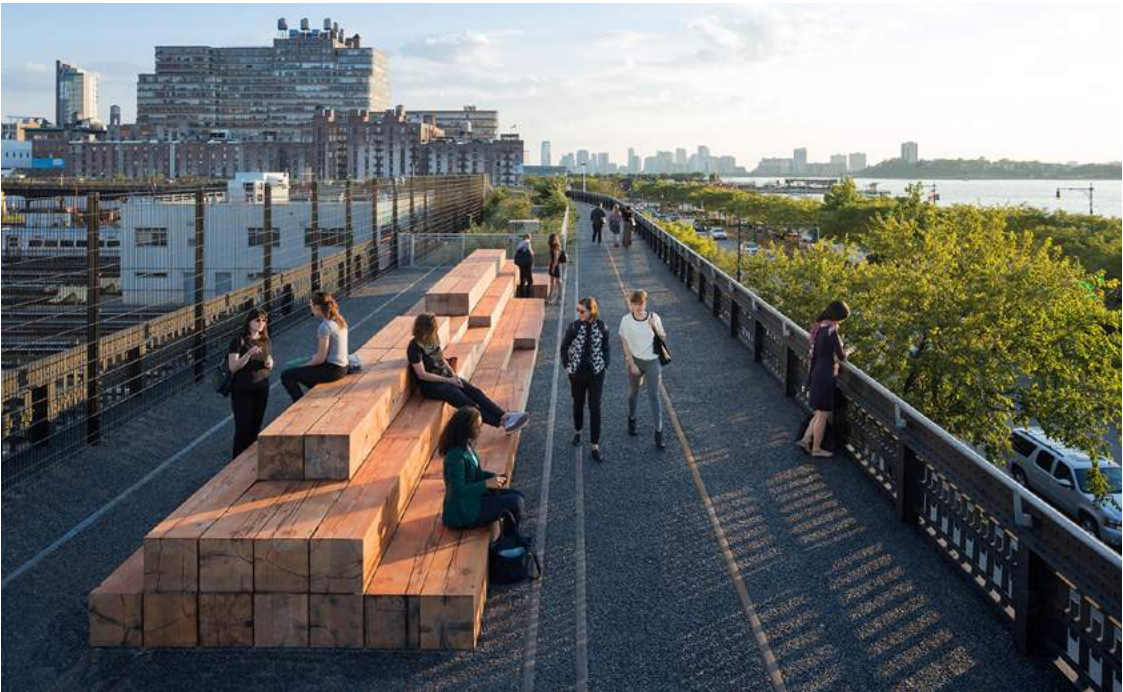


©



PRECEDENT: PROGRAM

PROGRAM: SEATING
PRECEDENT

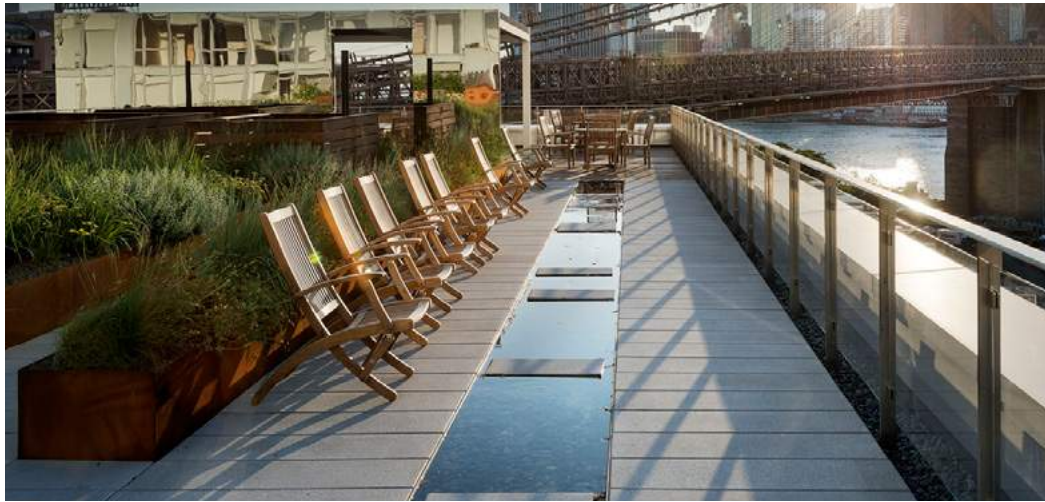


PROGRAM: FISHING

ANALYSIS



PROGRAM: WATER ACCESS PRECEDENT



PROGRAM: WATERCRAFT ACCESS ANALYSIS



PROGRAM: INTERACTIVE ART

PRECEDENT

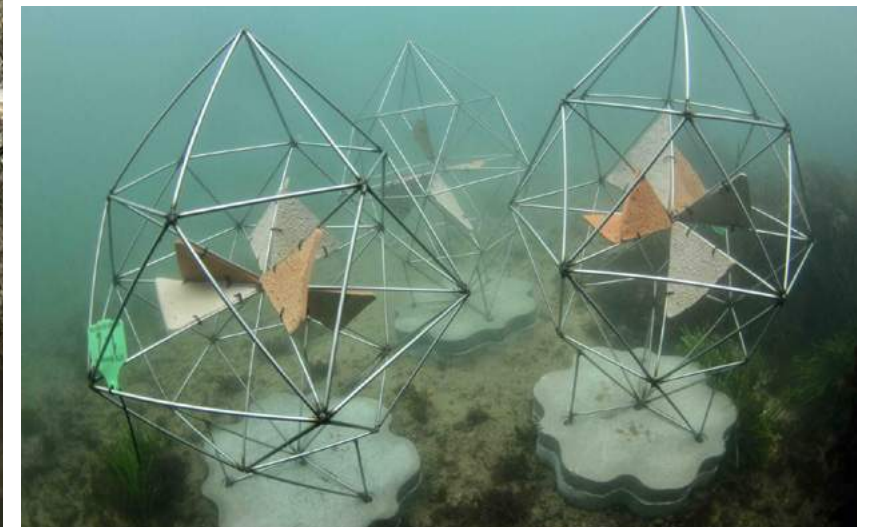


PROGRAM: UNDERWATER ART
PRECEDENT



PROGRAM: ECOLOGICAL RESTORATION

PRECEDENT



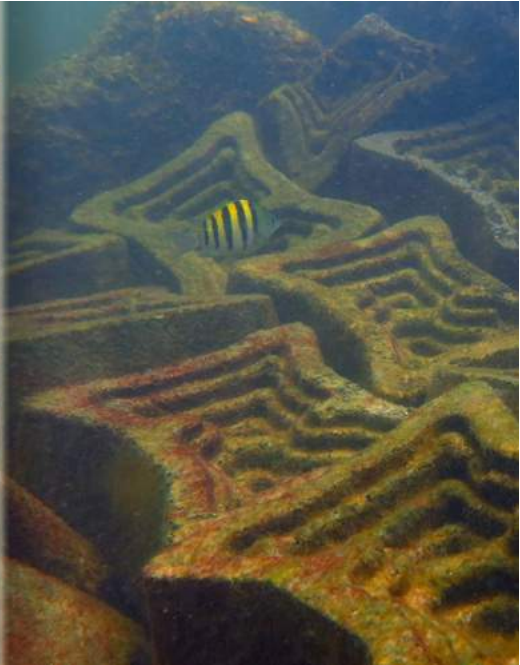
PROGRAM: UNDERWATER THEATER

PRECEDENT



PRECEDENT: ECOLOGY

ECOLOGY: SHORELINE
PRECEDENT



ECOLOGY: INTEGRATED PATHWAYS

PRECEDENT



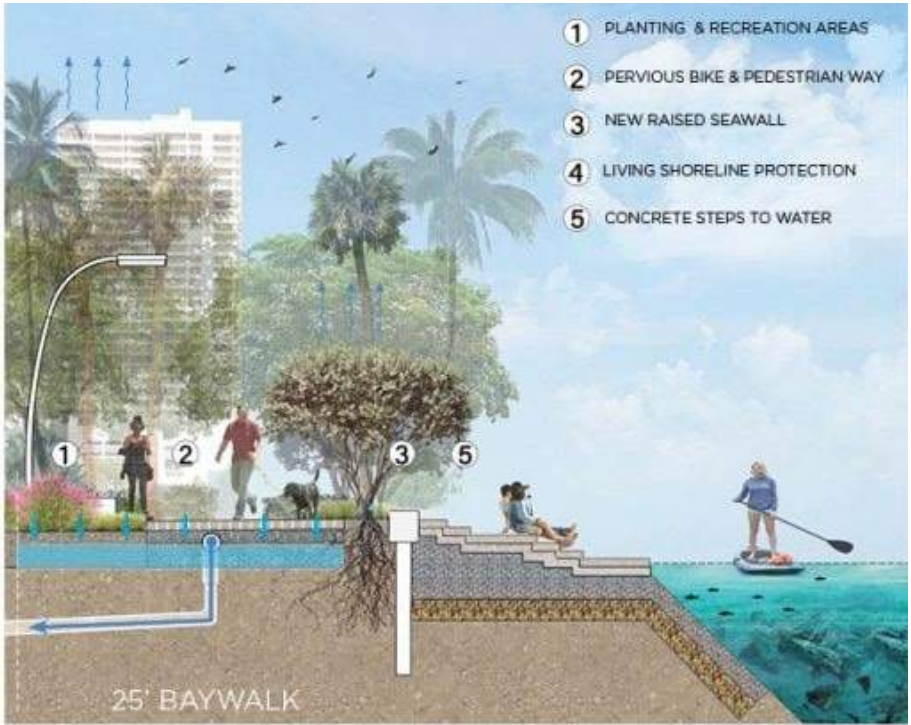
ECOLOGY: SHORELINE PRECEDENT



Strategy 1: Living Seawall

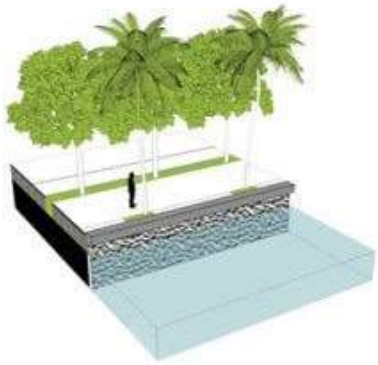


Strategy 2: Living Shoreline

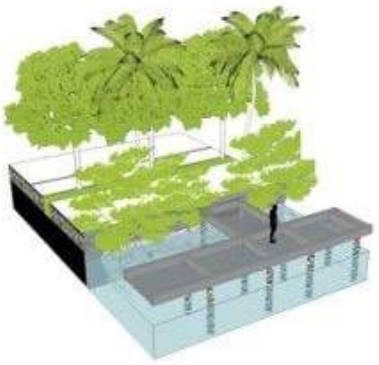


Strategy 3: Access to the water

- 1 PLANTING & RECREATION AREAS
- 2 PERVIOUS BIKE & PEDESTRIAN WAY
- 3 NEW RAISED SEAWALL
- 4 LIVING SHORELINE PROTECTION
- 5 CONCRETE STEPS TO WATER



Increased wall height textured wall



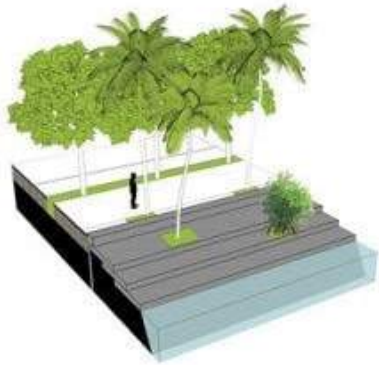
Perforated deck with textured piles



Living shoreline - with rip-rap



Living shoreline - pockets



Steps to water - parallel



Steps to water - perpendicular

PRECEDENT: MOBILITY

MOBILITY: PEDESTRIAN PRECEDENT



MOBILITY: MIXED
PRECEDENT



MOBILITY: DEFINED

PRECEDENT

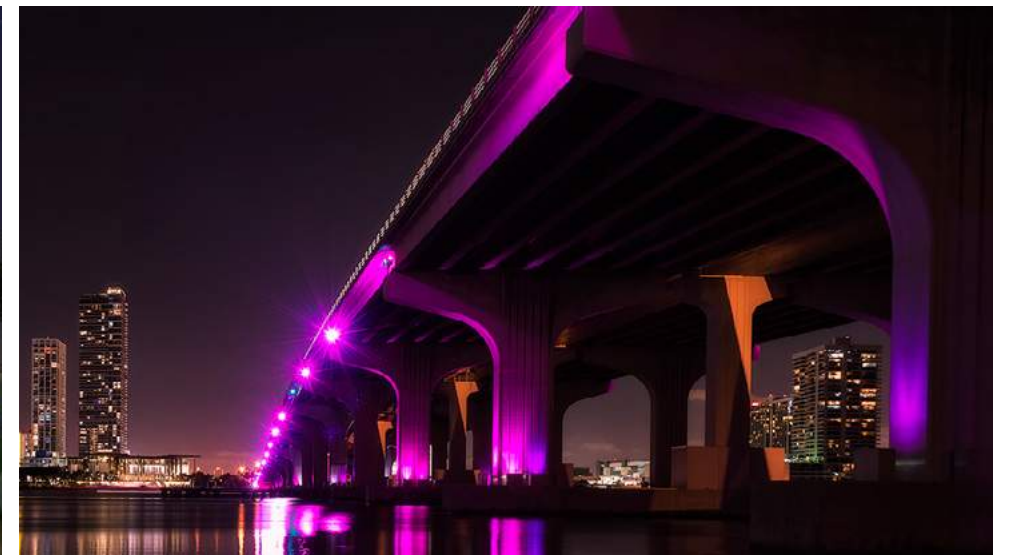


PRECEDENT: INFRASTRUCTURE INTEGRATION

INFRASTRUCTURE INTEGRATION PRECEDENT

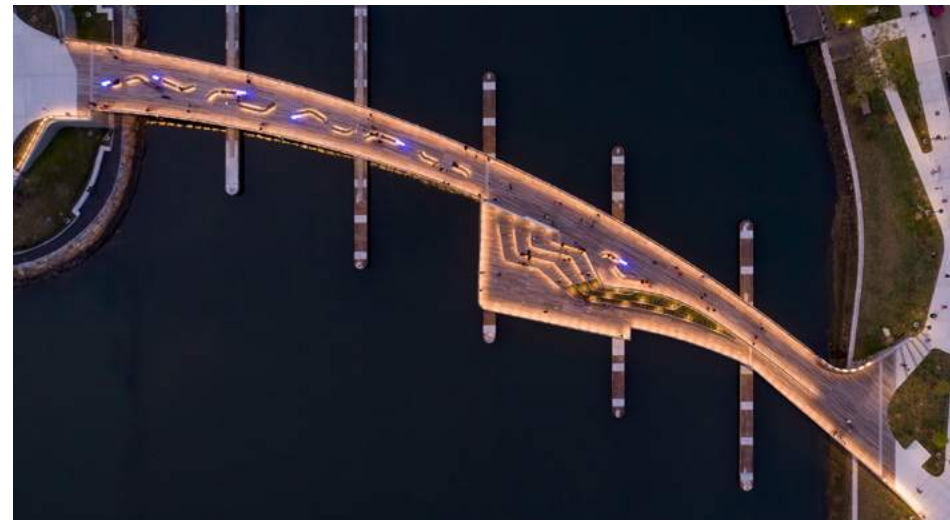


DISTRICT LIGHTING PRECEDENT



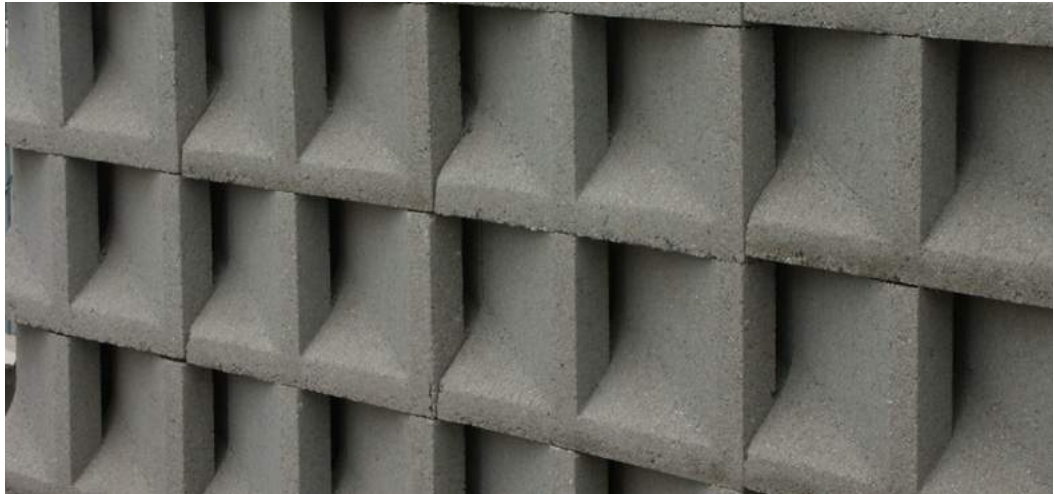
BEST PRACTICES LIGHTING

PRECEDENT



ACOUSTIC BUFFERING

PRECEDENT



PRECEDENT: ART

ART: PLACEMAKING IDENTIFIERS

PRECEDENT



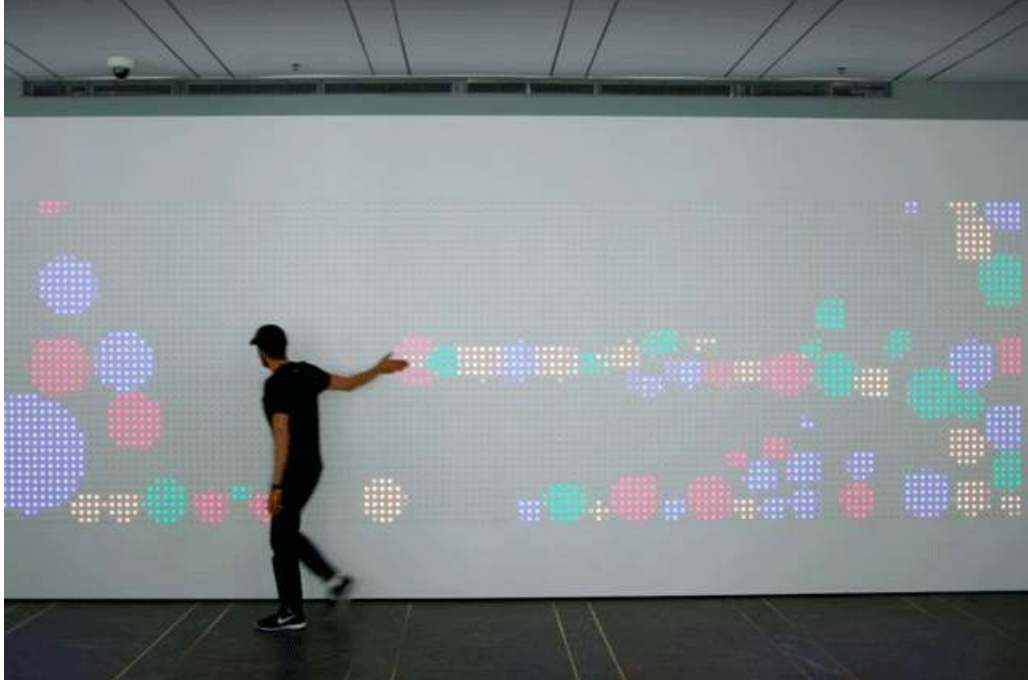
ART: EXPERIENTIAL LIGHTING

PRECEDENT

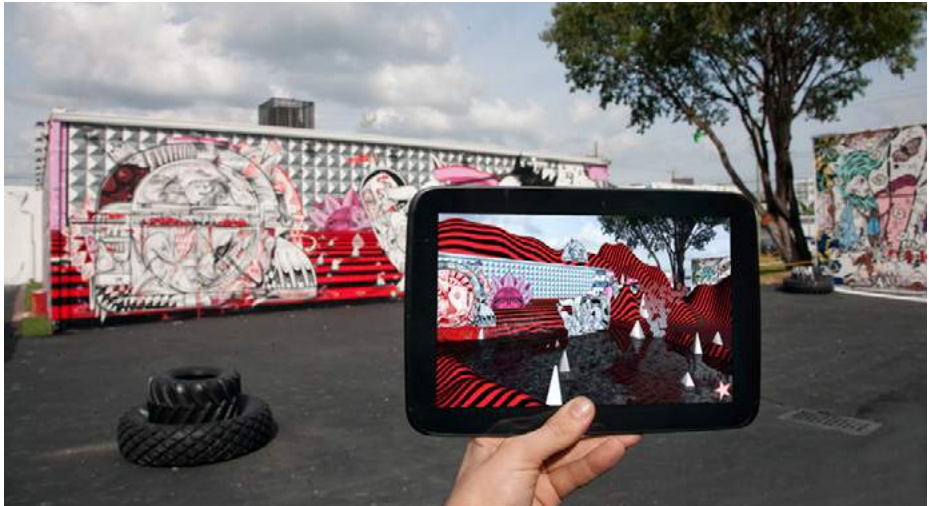


ART: PROJECTOR MAPPING

PRECEDENT



ART: AUGMENTED REALITY
PRECEDENT



PRECEDENT: INTERPRETATIVE EDUCATION

INTERPRETATIVE EDUCATION PRECEDENT



INTERPRETATIVE EDUCATION PRECEDENT



PRECEDENT: FABRICATION

FABRICATION: ADVANCED PREFABRICATION

PRECEDENT



FABRICATION: FLOATING STRUCTURES

PRECEDENT

