

The logo for EDSA, consisting of the letters "EDSA" in white on a red rectangular background.

EDSA®

An aerial photograph of Miami Beach, Florida, showing the city skyline, the ocean, and various waterfront developments. The image is overlaid with a semi-transparent teal banner.

# City of Miami Beach **Blueways Master Plan**

## Community Input Meeting

Tuesday, August 5, 2014

# AGENDA

INTRODUCTIONS

PURPOSE OF THE STUDY

THE PROCESS

SITE INVENTORY

PUBLIC INPUT

SITE ANALYSIS

INITIAL IDEAS

BLUEWAY

“

A SYSTEM OF CANALS, RIVERS, WATERWAYS AND LAKES CONNECTED WITH A SIMILAR ENVIRONMENTAL THEME. CONNECTING PEOPLE TO THE WATER AT CONVENIENT LOCATIONS ALLOWING AQUATIC RECREATIONAL OPPORTUNITY AND TRANSPORTATION BY WATER WITHIN A COMMUNITY

”

BLUEWAY



# The TEAM

UPLAND

  
EDSA  
MASTER  
PLANNERS

PLAN



COASTAL, MARINA, &  
ENVIRONMENTAL



REAL ESTATE ADVISORY  
SERVICES

WATER



# The STUDY



TO CREATE A FIVE-YEAR PLANNING DOCUMENT  
TO BE USED TO INCREASE THE PARTICIPATION  
OF RESIDENTS AND TOURISTS IN THE ATLANTIC  
INTRACOASTAL WATERWAY.

BLUEWAY

# SCOPE OF SERVICES

## TASK #1 PUBLIC INVOLVEMENT



## TASK #2 INVENTORY & ANALYSIS



## TASK #3 MASTER PLAN



★ TENTATIVELY SCHEDULED WORKSHOP,  
MEETINGS AND PRESENTATION

 CITY REVIEW

 FINAL PRESENTATION

An architectural site plan or map is shown with a red dashed line tracing a path through the buildings. Several markers and pens are scattered on the drawing. The text 'The PROCESS' is overlaid on the image.

# The PROCESS

# THE PROCESS

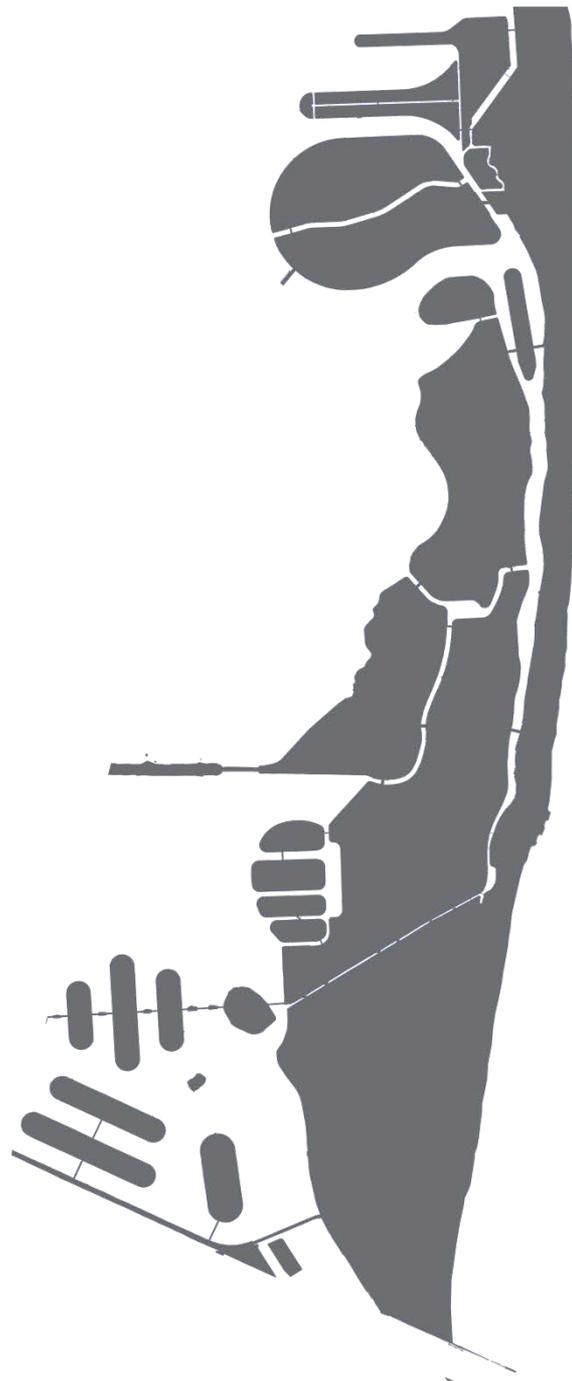
- 
- ONE → PROJECT KICK-OFF
  - TWO → SITE TOUR
  - THREE → INVENTORY
  - FOUR → ANALYSIS
  - FIVE → CONCEPTUAL MASTER PLANS
  - SIX → PRELIMINARY MASTER PLAN
  - SEVEN → FINAL MASTER PLAN

IMPLEMENTATION

**OUTCOME**

**BLUEWAYS**

**existing**  
**conditions**



CITY OF MIAMI BEACH

# CITY OF MIAMI BEACH



AREAS OF INTEREST WITHIN THE NORTH BEACH DISTRICT INCLUDE:

1. CRESPI STREET END POCKET PARKS

2. PARKVIEW ISLAND POCKET PARK

3. PARKVIEW ISLAND WATERFRONT PARK

4. NORMANDY SHORES STREET END POCKET PARKS

5. NORMANDY SHORES PARK

6. NORTH BEACH POLICE SUB-STATION PARK

7. NORMANDY ISLE STREET END POCKET PARKS

8. SHANE BOATING CENTER

9. BRITTANY BAY PARK



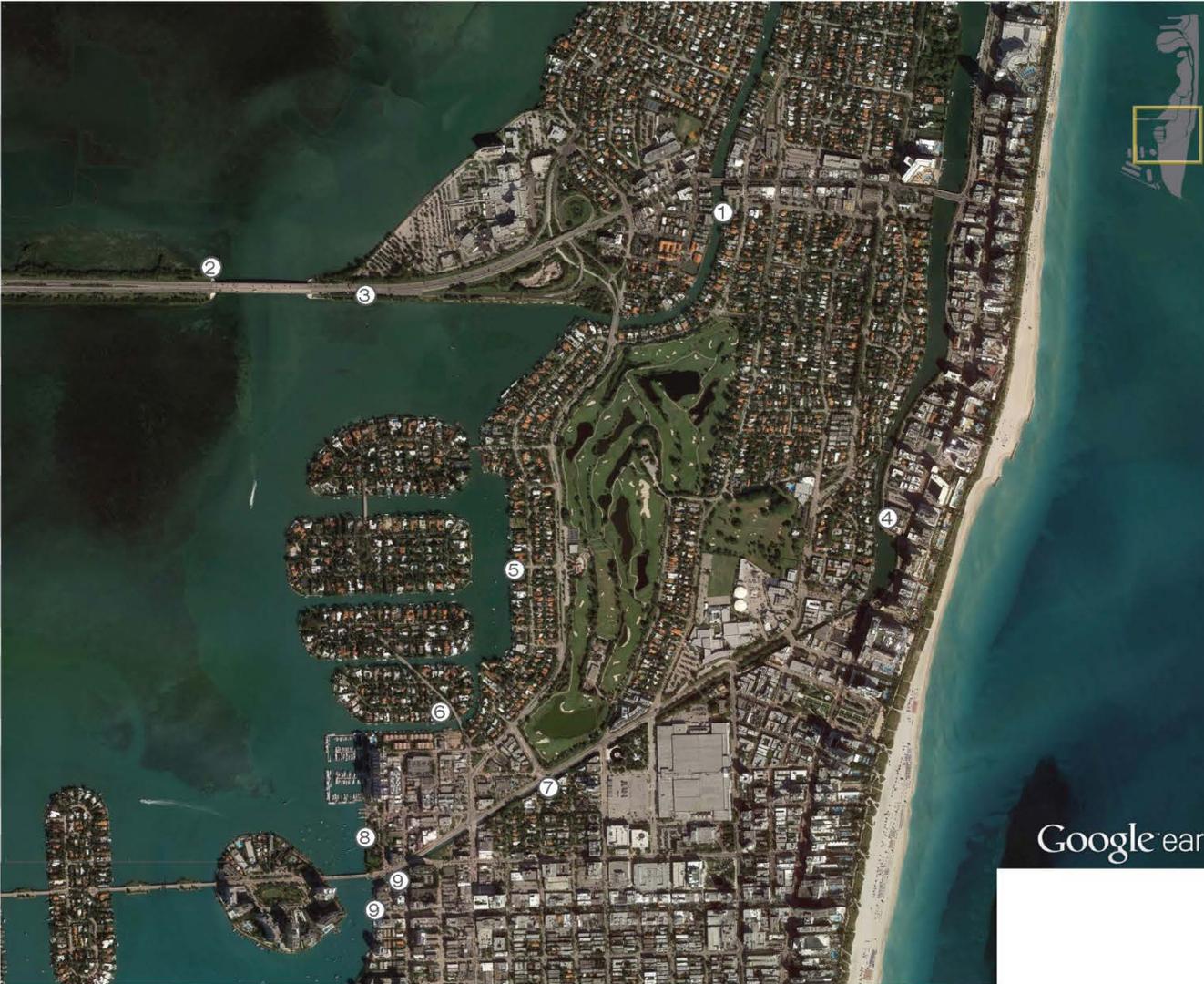
AREAS OF INTEREST WITHIN THE NORTH AND MIDDLE BEACH DISTRICTS INCLUDE:

- 1. LA GORCE POCKET PARK
- 2. LA GORCE STREET END POCKET PARK
- 3. BEACH VIEW PARK
- 4. NORTH BAY STREET END POCKET PARK
- 5. INDIAN BEACH PARK
- 6. PINE TREE PARK
- 7. MUSS PARK
- 8. WOFFORD PARK



AREAS OF INTEREST WITHIN THE MIDDLE AND SOUTH BEACH DISTRICTS INCLUDE:

- 1. CHASE AVENUE PARKING LOT
- 2. JULIA TUTTLE CAUSEWAY OPEN SPACE
- 3. MOUNT SINAI SOUTH OPEN SPACE
- 4. 27TH STREET PARKING LOT
- 5. NORTH BAY STREET END POCKET PARK
- 6. SUNSET LAKE POCKET PARK
- 7. COLLINS CANAL
- 8. MAURICE GIBB PARK
- 9. SOUTH BEACH STREET END



AREAS OF INTEREST WITHIN THE SOUTH BEACH DISTRICT INCLUDE:

1. LINCOLN ROAD STREET END POCKET PARK

2. MONUMENT ISLAND

3. 14TH STREET END POCKET PARK

4. 10TH STREET END POCKET PARK

5. MIAMI BEACH MARINA

6. SOUTH POINT PARK



**community**  
**input**

## COMMUNITY INPUT TIMELINE



**one**



Project Kick-off

**two**



Community Input Meetings

**three**



Final Presentation

# COMMUNITY INPUT MEETING #1



CITY OF MIAMI BEACH USIA  
BUEYWAYS

- MORE ACCESS POINTS
- CONSIDER ACCESS TO BEACH AND OCEAN-SIDE
- PARKING AND LOADING ZONES
- DON'T OVER-ENGINEER
- ADA ACCESS
- SUSTAINABLE URBAN DRAINAGE

- MANATEE IN MANGROVES IN INDIAN CREEK
- CREATE NATURAL ENVIRONMENT
- INCREASE IN WILDLIFE
- WATER-TAXI
- BIKEWAYS, WALKING, JOGGING
- FISHING → PLACES TO GO
- PLAN FOR MAINTENANCE
- TRASH CANS

- LOOK AT RICKENBACKER ACCESS POINTS
- BEACH ANALYSIS
- SOME USE WORD STREET OR LAKEVIEW TO ACCESS WATER
- LAND RESTRICTIONS/CONVIANTS
- LIMIT COORDINATED GROUP ACTIVITIES
- SWIMMING POOL - NORMANCY
- N. SHORE YOUTH CENTER
- FOR ENTIRE COMMUNITY
- JOHNSONS SEA GRASS

BIKING WALK: 5TH TO LINCOLN

- ADAPTIVE ACCESS - ACCESSIBILITY (MILITARY (GRANT MONEY))
- SALT TOLERANT NATIVE PLANTS
- ACTIVATE WATERWAYS
- TRANSPORTATION MASTER PLAN
- SEND PICTURES OF END STREETS TO MAYOR
- PLAN SHOWING WHERE DRAINAGE GOES
- CAST GAULD MONI

- SHADED GREENWAYS
- GROUP PARKS, PICK KEY LOCATIONS
- BIKE BOATS - SAN FRANCISCO (NON PRESS NEIGHBORHOODS)
- GONDOLAS
- PARK VIEW ISLAND - WATER ACCESS AND NATURE PRESERVATION
- CONCESSIONS AT ACCESS POINTS
- MKPS / MARKETING HIGHLIGHT ACCESS POINTS
- SOME PARKS SHOULD REMAIN NATURAL

- COMMUNITY POCKET PARKS
- → MARKETING → MAINTENANCE
- INNOVATIVE SEAWALLS - DRAINAGE
- EXTENDING BEACH
- FEAR OF OVERDEVELOPMENT
- MANGROVE / LIVING SHORELINE
- → POSITIVE ENVIRONMENTAL & VISUAL INTEREST
- PERCENTAGE OF NATURAL SHORELINE

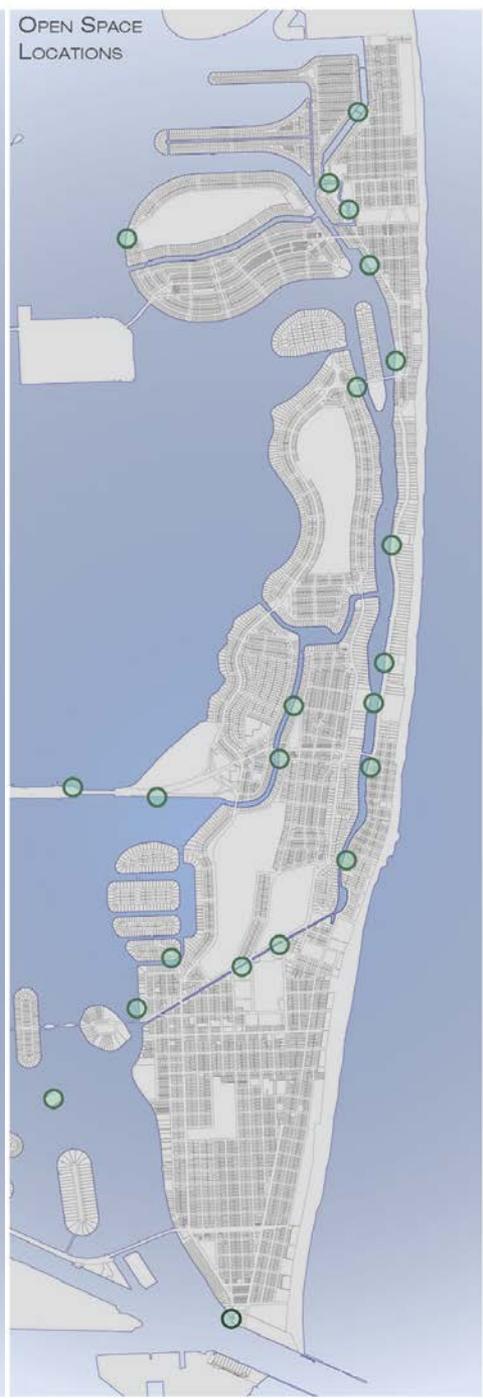
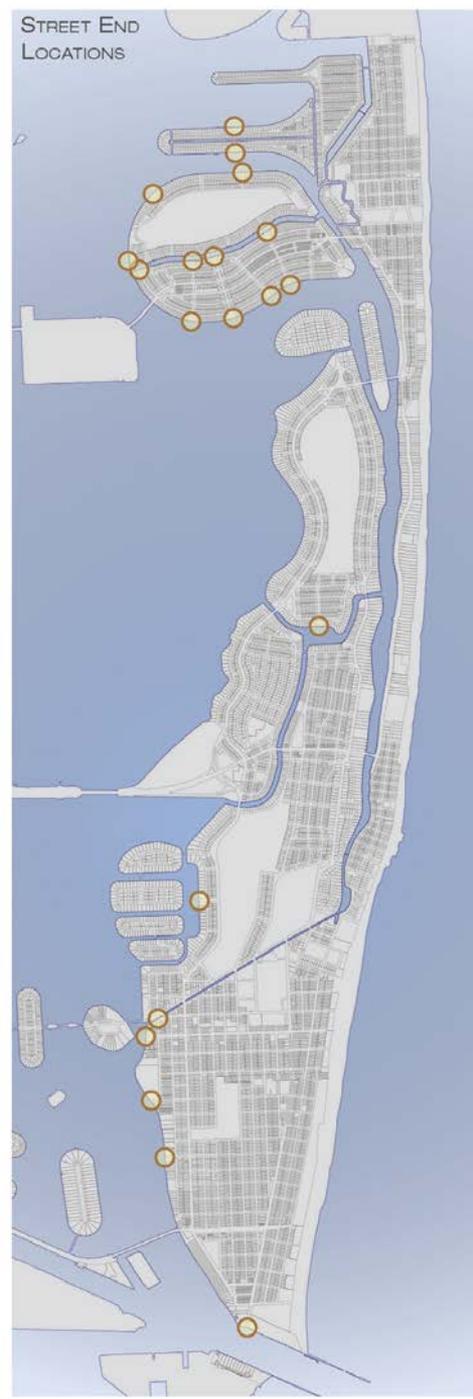
- FIX COLLINS CANAL
- URBAN RESILIENCY TOOL NATURE CONSERVATION
- FUND - GRANT PACKAGE
- DESTINATION VS. LOCAL NEIGHBORS LAUNCH SITES
- BISCAYNE BAY PARK
- ECO - TOURISM - STAR ISLAND
- JET SKIS AFFECTING MANATEES
- EXPANDED TROLEY NETWORK
- BIKE NETWORK





- CROCODILE HOLE LOCATION
- NoBe ACCESSIBLE PORTAL, CMDc LIBRARY, 75TH STREET BOARDWALK
- ROWING CLUB (MARKETING - OPEN TO THE PUBLIC)
- NOT ENOUGH PARKING
- CITY-OWNED EMPTY LOT TO BE INCLUDED IN STUDY
- POTENTIAL YOUTH KAYAK ACCESS POINT
- BEACH WALK (POSSIBILITY OF INCLUSION IN STUDY)
- UNOFFICIAL KAYAK LAUNCH
- ACCESSIBLE BEACH (WIDEST ACCESS ON BOARDWALK)
- WATERFRONT STREET END 100' WIDE (PARKING AT CLUB)
- POTENTIAL ACCESS POINT (PARKING NEARBY)

# site analysis



LAND USE



ZONING



LAND USE/ZONING ANALYSIS DIAGRAM



BIKEWAY NETWORK





SITE ANALYSIS DIAGRAM

NEIGHBORHOODS CAN BENEFIT FROM ADDITIONAL SIDEWALKS WHICH CAN IMPROVE THE BAY TO OCEAN PEDESTRIAN CONNECTION.

OPEN ACCESS TO RESIDENCES FROM THE WATER SIDE MAY CREATE POTENTIAL RISKS TO RESIDENTS. INTRODUCING AN AMENITY OR ZONE SEPARATION IN THE BAY MAY HELP TO REDUCE THIS RISK.

POTENTIAL CONNECTION ACROSS ISLANDS FROM THE INTRACOASTAL TO THE OCEAN.

NO WATER TRANSIT EXISTS. OPPORTUNITY TO PROVIDE WATER TAXI SERVICE AS STUDIED IN PAST PROPOSALS.

BOATS CURRENTLY STAY IN THIS AREA FOR EXTENDED PERIODS OF TIME. OPPORTUNITY FOR MOORING FIELD.

MONUMENT ISLAND IS AN EXISTING LANDMARK. OPPORTUNITIES TO PROVIDE BOAT DOCKING AND BREAKWATER ELEMENTS TO REDUCE COASTAL EROSION.

EXISTING BAY WALK PROVIDES AN OPPORTUNITY TO EXTEND NORTH.

NOBE RESIDENTIAL AREAS HAVE GOOD PEDESTRIAN CONNECTIONS TO WATERFRONT OPEN SPACES

CONTINUOUS CONNECTIONS EXIST ALONG OCEAN-SIDE. A CONNECTION CAN BE PROPOSED ALONG THE ISLANDS ON THE BAY SIDE.

BOAT SHOW EVENT LOCATION. OPPORTUNITY TO PROVIDE PEDESTRIAN PROMENADE ALONG INDIAN CREEK.

POTENTIAL PEDESTRIAN CONNECTIONS FROM THE INTRACOASTAL TO THE OCEAN

SOBE RESIDENTIAL AREAS HAVE LIMITED PEDESTRIAN ACCESS TO WATER, NON-RESIDENTIAL USES HAVE EVEN LESS. PROPOSED BIKEWAYS CAN CREATE A STRONGER LINK.

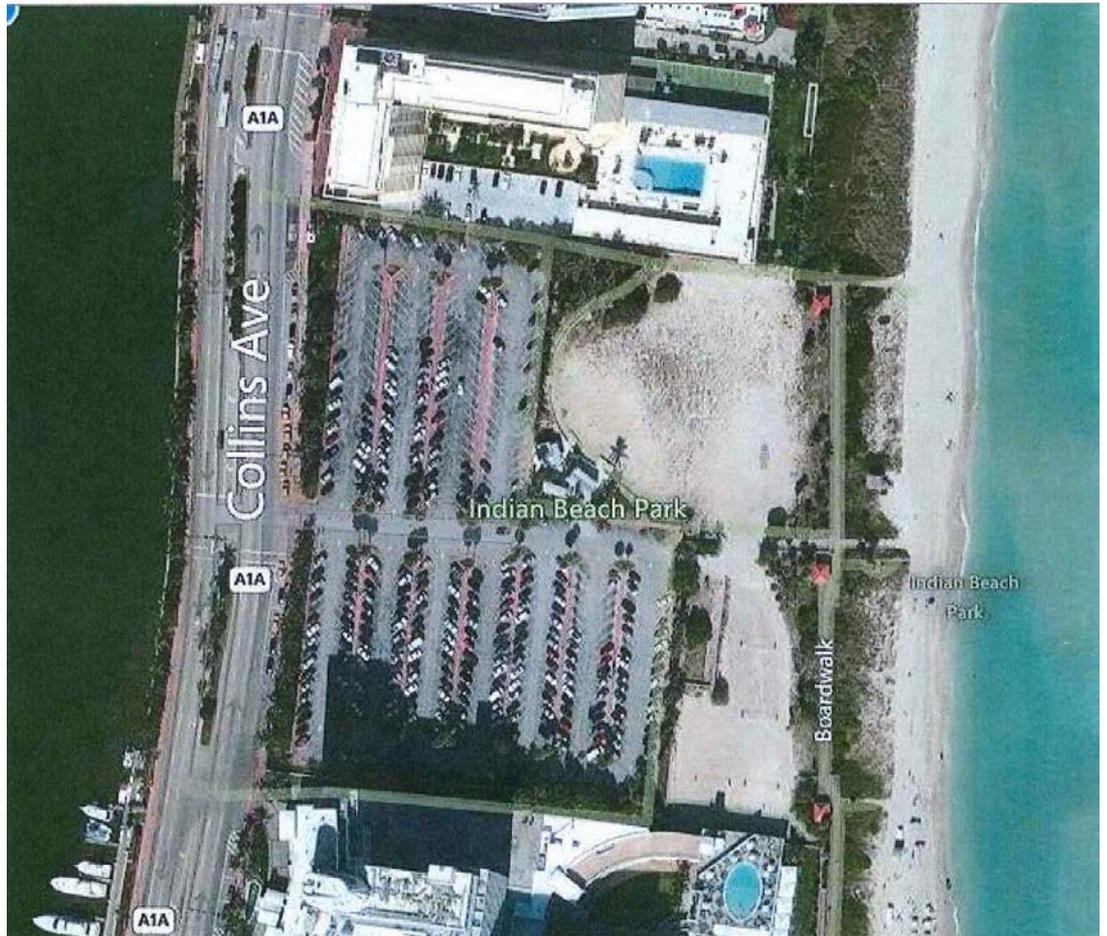
## LEGEND

-  AREAS WITHIN 10 MINUTE WALK
-  MONUMENT ISLAND LANDMARK
-  EXISTING BIKEWAY CONNECTIONS TO 10 MIN. RADIUS
-  PROPOSED BIKEWAY CONNECTIONS TO 10 MIN. RADIUS
-  POTENTIAL BAY TO OCEAN PEDESTRIAN CONNECTION

- Large Parking lot for beach access
- City owned frontage of Indian Creek
- Convenient proximity to Hotels and Resorts

Potential for:

- Day-use dockage
- Kayak/SUP rentals
- Connectivity to Beach
- Water Taxi Stop
- Access point for Boat Show



INDIAN CREEK/INDIAN BEACH

- Well maintained linear park area
- Great views/visibility
- No parking
- No physical access to water

Potential for:

- Kayak/SUP launch/rental
- Stormwater treatment opportunity



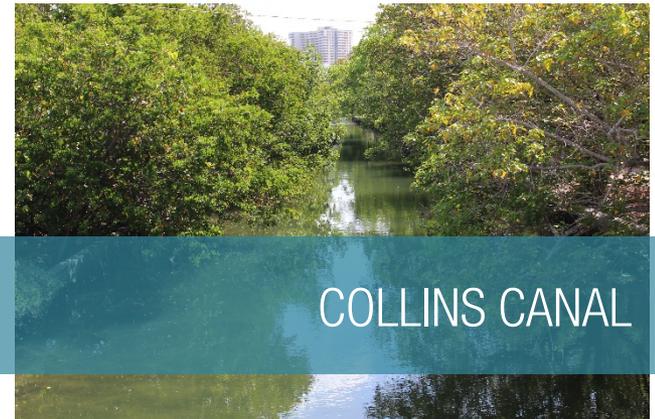
INDIAN CREEK/INDIAN BEACH



- Many stormwater discharge locations located along Collins Canal.
- Segments of seawalls need attention
- Dade Blvd. Frontage along north side.
- Not highly utilized by motor boats.

Potential for:

- Stormwater treatment opportunity.
- Living shoreline/managed habitat restoration
- Kayak tours from Maurice Gibb
- Pedestrian walk along canal



COLLINS CANAL



- Good size park with parking
- Poor seawall conditions
- No access to water
- Adjacent to residential neighborhoods
- Community garden
- Bike rental

Potential for:

- Living shoreline/managed habitat restoration
- Kayak/SUP launch
- Upland improvements



PARKVIEW & 73<sup>RD</sup> STREET



- Seawall issues at both locations
- No access to water - Fenced
- Parking

Potential for:

- Living shoreline/seawall repairs
- managed habitat restoration



- Planned for re-development
- Beautiful Waterfront –behind fence
- Parking
- Tennis courts

Potential for:

- Living shoreline/managed habitat restoration
- Walkway along water
- Kayak/SUP launch

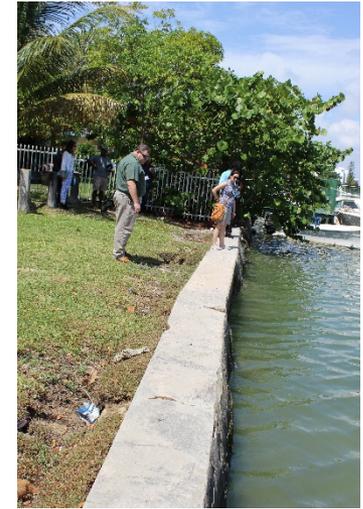


NORMANDY SHORES PARK

- Many street ends contain storm water discharges
- Seawalls in varying states of disrepair
- Mainly residential
- Great views/no access

Potential for:

- Residential park
- Living shoreline/managed habitat restoration
- Stormwater treatment opportunity
- Day-use dock at specified ends for dinghy use



STREET END OPPORTUNITIES

- Island for day-use/recreation
- Motor boat/Kayak/SUP destination
- Historical Significance

Potential for:

- Managed habitat restoration
- Living Shorelines
- Day-use dockage
- Upland improvements



MONUMENT ISLAND



- Active Boat Ramp used by:

- Motor Vessels
- Kayaks/SUP
- Commercial tours

- Police Presence

- Mangrove Walk

Potential for:

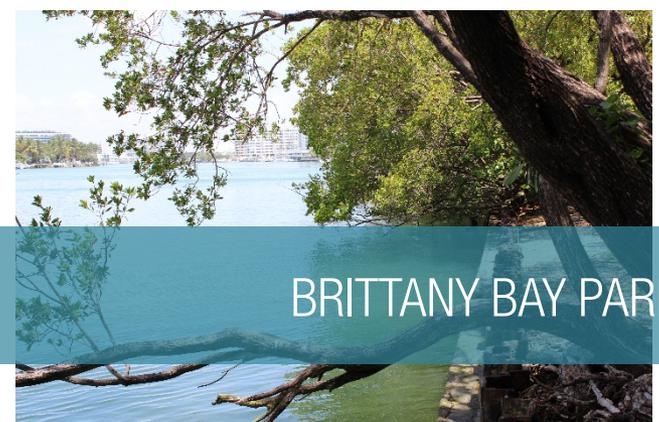
- Separate Kayak/SUP launch
- Living shoreline/managed habitat restoration
- Access to Monument Island
- Water taxi stop
- Dinghy dock for moored vessels
- Stormwater treatment opportunity



- Nice park with exercise trail
- Seawall issues
- No access to water
- Parking
- Storm water treatment

Potential for:

- Kayak/SUP launch
- Living shoreline/seawall repairs
- managed habitat restoration



BRITTANY BAY PARK



- Long stretch along Indian Creek
- City Owned Property adjacent to 27<sup>th</sup> St. Parking Lot
- Existing seawalls are very low and require assessment
- Heavily vegetated

Potential for:

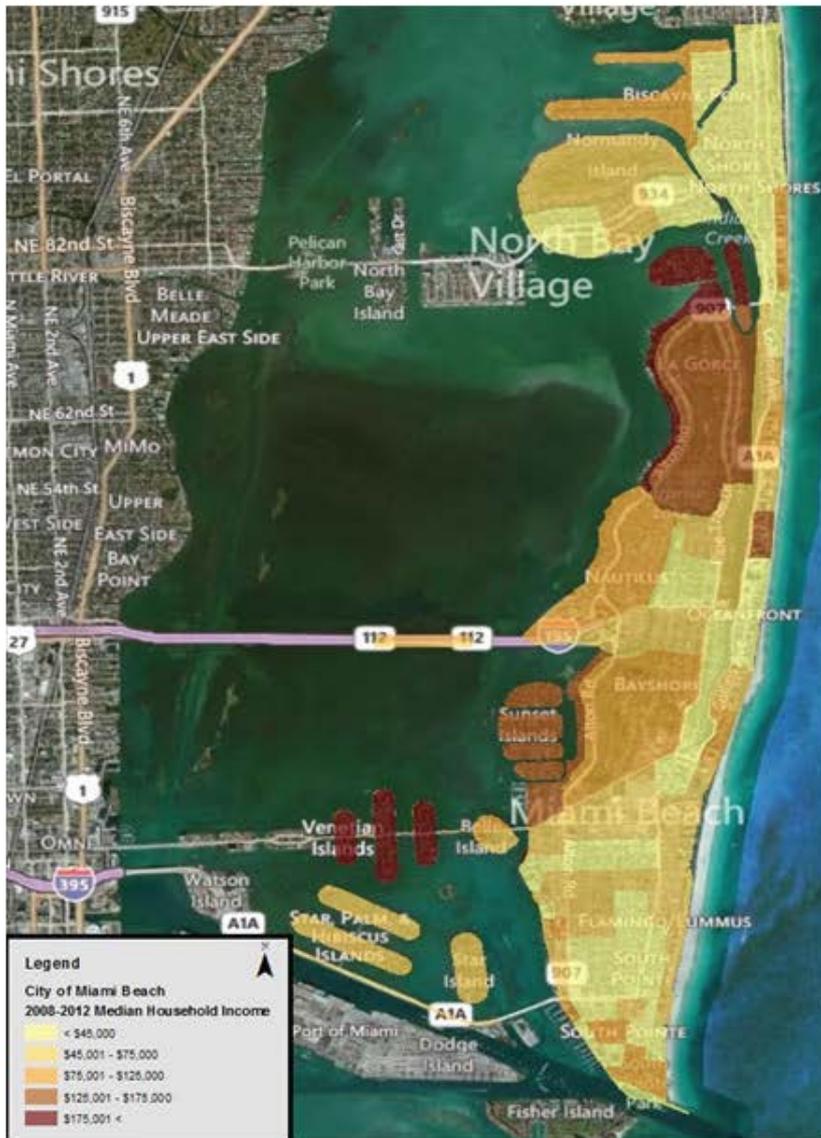
- Living shoreline with habitat restoration
- Storm water treatment opportunity



## City of Miami Beach Statistics

- Population of 91,026 (according to the 2013 U.S. Census)
- 38.6% Homeownership rate
- Average household size of 1.84 people
- Median household income of \$43,321 (according to the 2008-2012 American Community Survey)
- Per capita income of \$43,690 (according to the latest American Community Survey)
- Population median age of 40.3 in 2010

	Miami Dade County	Miami Beach
<b>2010 Population</b>	2,496,435	87,779
<b>2010 Total Households</b>	867,352	47,168
<b>2010 Avg. HH Size</b>	2.83	1.84
<b>2008-12 ACS Median Household Income</b>	\$43,464	\$43,321
<b>2008-12 ACS Per Capita Income</b>	\$23,304	\$43,690
<b>2010 Owner Occupied Households %</b>	55.80%	38.60%
<b>2010 Renter Occupied Households %</b>	44.20%	61.40%
<b>2010 Median Age</b>	38.2 years old	40.3 years old
<b>0-19</b>	24.7%	14.1%
<b>20-39</b>	28.1%	35.3%
<b>40-64</b>	33.0%	38.4%
<b>65+</b>	14.2%	12.2%



Median Household Incomes by Census Block Group (2008-2012 American Community Survey)

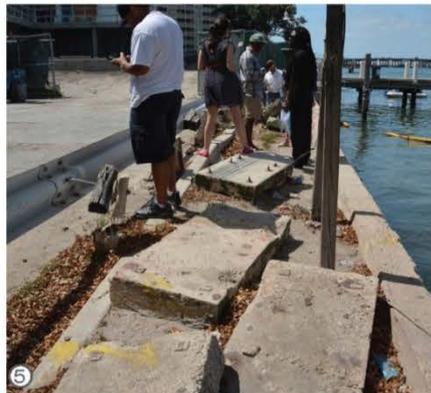


Compound Annual (Population) Growth Rate 2000-2010

**initial** ideas

## MAIN AREAS OF INTERVENTION

1. CITY-WIDE LIVING SHORELINES
2. CITY-WIDE MANGROVE HABITATS
3. SOUTH POINT PARK
4. MAURICE GIBB PARK
5. TYPICAL SOUTH BEACH STREET ENDS  
POCKET PARKS
6. INDIAN BEACH PARK
7. TYPICAL RESIDENTIAL NEIGHBORHOOD  
POCKET PARKS
8. MONUMENT ISLAND
9. MOUNT SINAI/JULIA TUTTLE CAUSEWAY





POTENTIAL LIVING  
SHORELINE  
LOCATIONS



## LIVING SHORELINE



POTENTIAL  
MANGROVE HABITAT  
LOCATIONS



MANGROVE HABITAT



MANGROVE HABITAT EXAMPLE

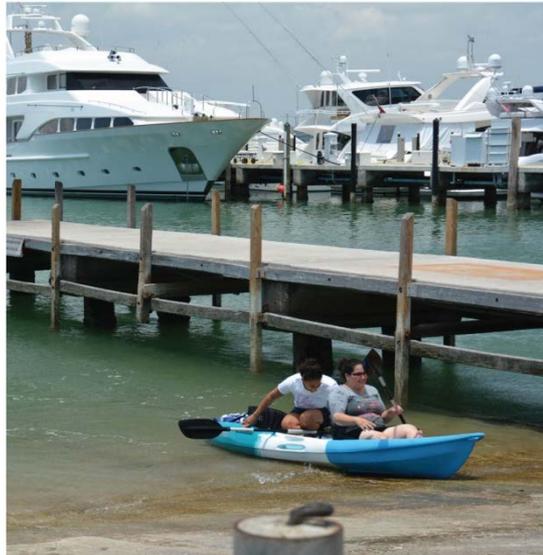


MANGROVE HABITAT EXAMPLE

POTENTIAL  
LAUNCH  
LOCATIONS



## KAYAK/PADDLE BOARD LAUNCH



MAURICE GIBB KAYAKERS



KAYAK/SUP LAUNCH EXAMPLE

# MAURICE GIBB PARK



MAURICE GIBB CONCEPT ALTERNATIVE ONE



MAURICE GIBB CONCEPT ALTERNATIVE TWO

## LEGEND

1. WATER TAXI STOP/DINGHY DOCK
2. KAYAK/SUP LAUNCH
3. IMPROVED PEDESTRIAN ACCESS TO LAUNCH
4. BOAT LAUNCH FOR MOTORIZED VESSELS ONLY
5. POLICE DOCK
6. DAY-USE DOCK
7. ADVANCED KAYAK SLIDE
8. KAYAK/SUP VENDOR PAVILION AND TRAINING AREA
9. KAYAK/SUP DROP-OFF
10. PARKING



# SOUTH POINT PARK

## LEGEND

1. WATER TAXI STOP
2. DAY-USE DOCK
3. LIVING SHORELINE ENHANCEMENT
4. MANGROVE HABITAT
5. SUNKEN VIEWING CLASSROOM
6. BOARDWALK VIEWING PAVILION
7. PROMENADE EXTENSION
8. HAMMOCK GROVE



SOUTH POINT PARK CONCEPT ALTERNATIVE ONE



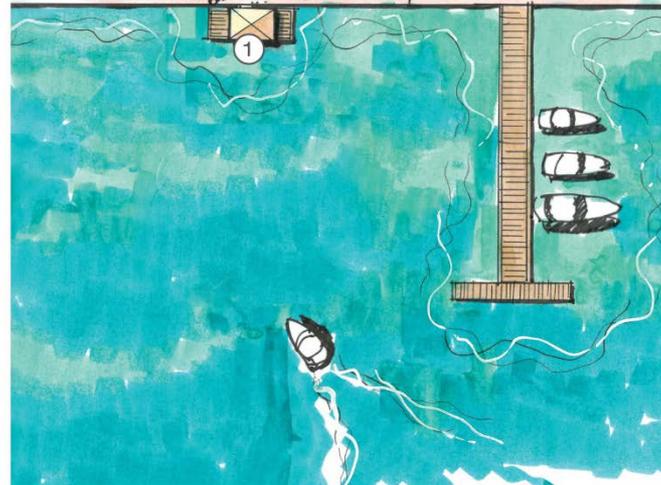
SOUTH POINT PARK CONCEPT ALTERNATIVE TWO



# MAURICE GIBB PARK

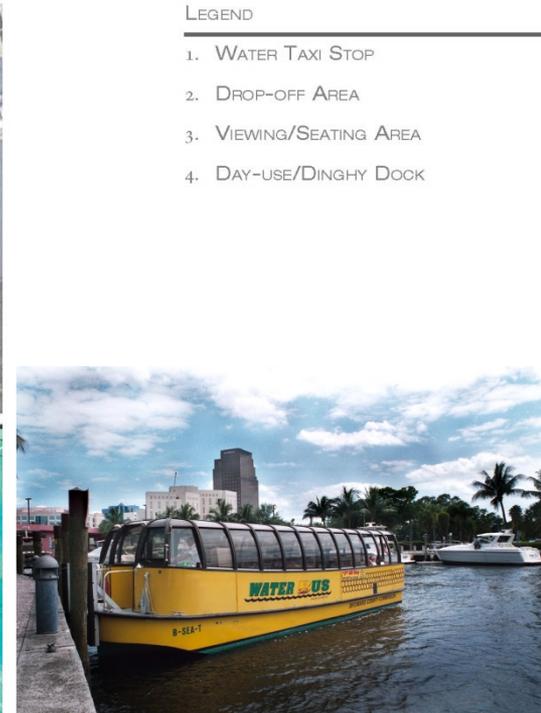
## LEGEND

1. WATER TAXI STOP
2. DROP-OFF AREA
3. VIEWING/SEATING AREA
4. DAY-USE/DINGHY DOCK



SoBe STREET END POCKET PARK CONCEPT ALTERNATIVE ONE

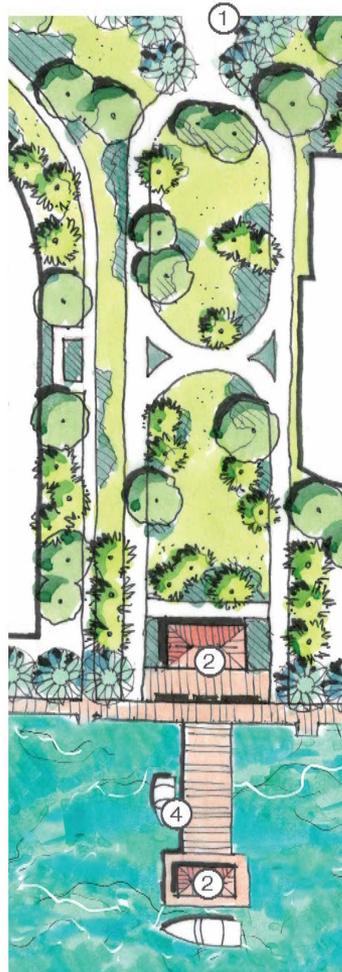
SoBe STREET END POCKET PARK CONCEPT ALTERNATIVE TWO



# RESIDENTIAL POCKET PARK



RESIDENTIAL NEIGHBORHOOD POCKET PARK CONCEPT ALTERNATIVE ONE



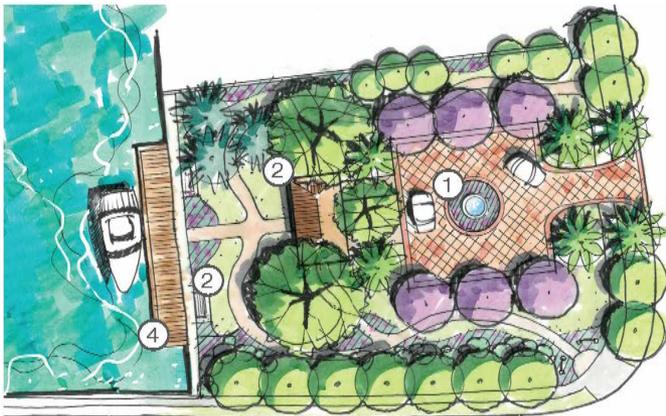
RESIDENTIAL NEIGHBORHOOD POCKET PARK CONCEPT ALTERNATIVE THREE



# RESIDENTIAL POCKET PARK



RESIDENTIAL NEIGHBORHOOD POCKET PARK CONCEPT ALTERNATIVE TWO



RESIDENTIAL NEIGHBORHOOD POCKET PARK CONCEPT ALTERNATIVE THREE



# INDIAN BEACH PARK



INDIAN BEACH PARK CONCEPT ALTERNATIVE ONE

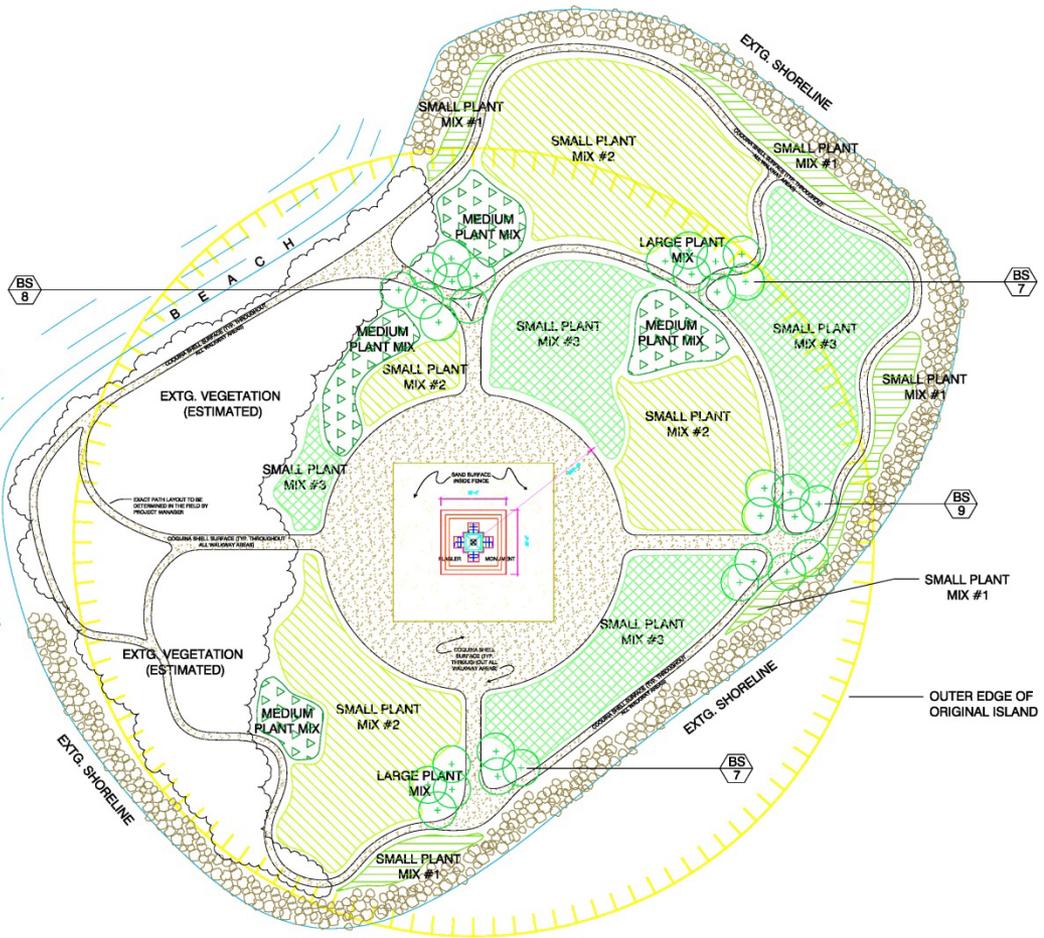


INDIAN BEACH PARK CONCEPT ALTERNATIVE THREE

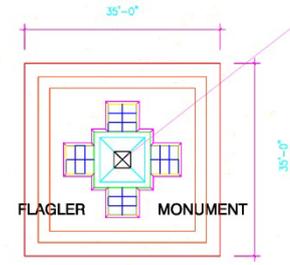
## LEGEND

1. IMPROVE PEDESTRIAN CONNECTION TO BEACH
2. KAYAK/SUP VENDOR PAVILION
3. SIDE-TIE DAY USE DOCK  
LIVING SHORELINE
4. EXPANDED DAY USE DOCK (PERFORMANCE BASED)
5. DOCK TO ALLOW FOR LARGER VESSELS
6. EXISTING INDIAN BEACH PARK
7. PARKING

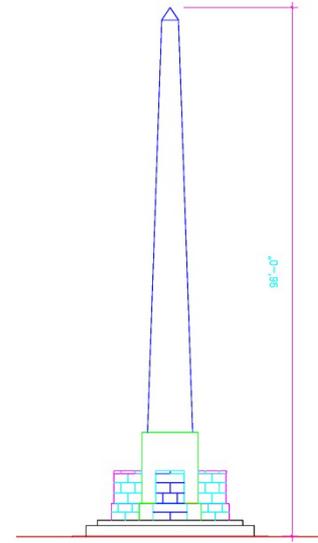




**Monument Island Plan**  
Scale: 1" = 30'-0"



**Monument Plan**  
Scale: 1" = 10'



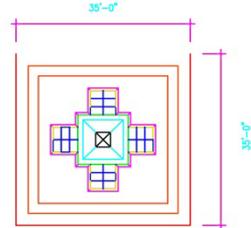
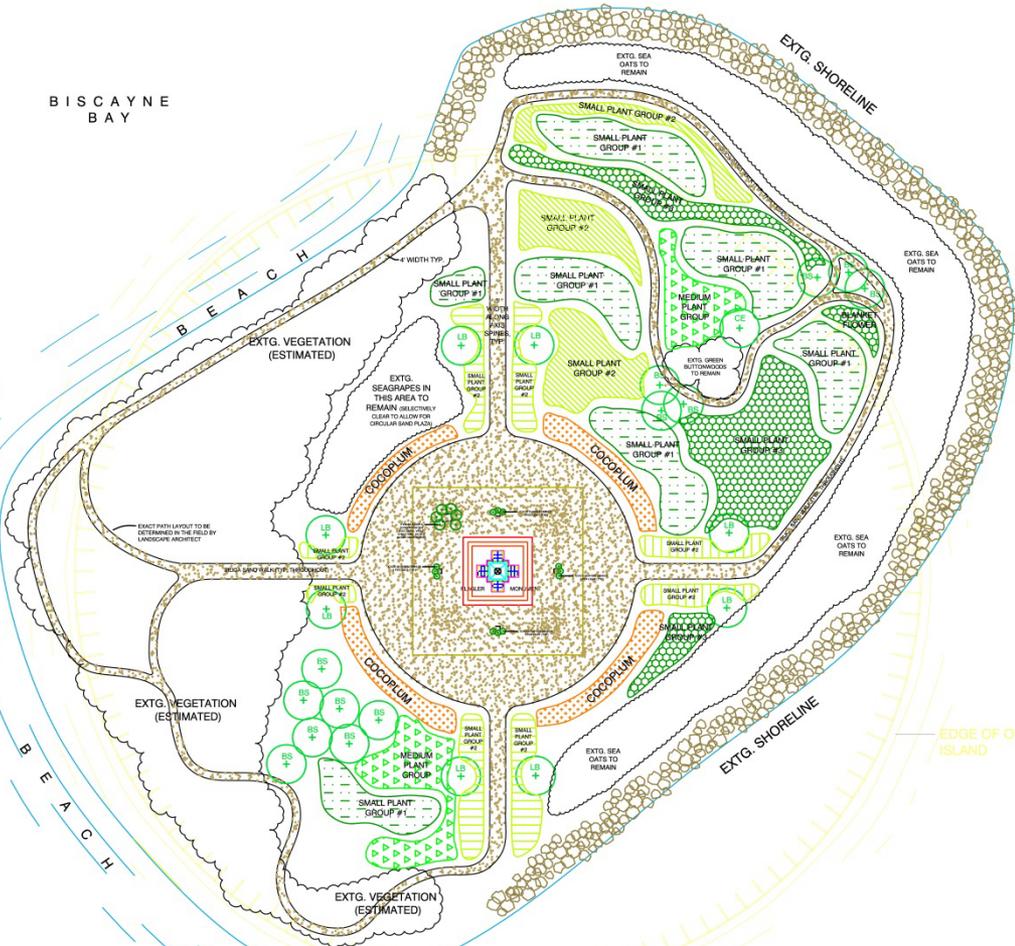
**Monument Elevation**  
Scale: 1" = 10'

- GENERAL PLANTING NOTES**
- CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER/PROJECT MANAGER PRIOR TO INITIATING OPERATIONS.
  - THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC., ASSOCIATED WITH THE WORK UNLESS OTHERWISE PROVIDED FOR WITH OWNER/PROJECT MANAGER.
  - ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, AS DEFINED IN THE "GRADES AND STANDARDS FOR NURSERY PLANTS", 2<sup>ND</sup> EDITION, FEBRUARY 1998, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
  - WHERE GROUND COVER AND/OR SHRUBS ARE USED IN MASS PLANTING BEDS, PLANTS SHALL BE SPACED USING A TRIANGULAR SPACING PATTERN (STAGGERED SPACING).
  - CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL TREES, OUTLINES OF PLANTING BEDS, AND COQUINA SHELL PATHS PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER/PROJECT MANAGER.
  - ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE ACCEPTED BY THE OWNER AND PROVIDE NECESSARY REPAIRS OF DISTURBED AREAS/ITEMS AT NO COST TO OWNER.
  - CONTRACTOR SHALL REPLACE ANY AND ALL PLANT MATERIALS NOT ACCEPTED BY THE OWNER AND PROVIDE NECESSARY REPAIRS OF DISTURBED AREAS/ITEMS AT NO COST TO OWNER.
  - PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. ANY DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER AND PROJECT MANAGER.
  - GRADES OF PLANTING AREAS SHALL BE UNIFORM AND EVEN, UNLESS OTHERWISE SPECIFIED BY THE PROJECT MANAGER.
  - ROOTBALLS, SOILS, AND SURFACES OF ALL PLANT MATERIAL IS TO BE COMPLETELY FREE OF WEEDS AT TIME OF INSTALLATION.

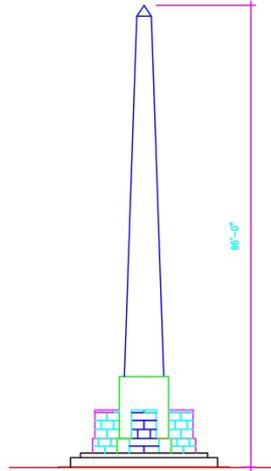
**PLANT LIST**

PLANT MIX #	Plant Name	Quantity
SMALL PLANT MIX #1	Beach Creeper	1 gallon cont.
	Calliandra	1 gallon cont.
	Conocarpus	1 gallon cont.
	Portulaca	1 gallon cont.
SMALL PLANT MIX #2	Calliandra	1 gallon cont.
	Conocarpus	1 gallon cont.
	Portulaca	1 gallon cont.
SMALL PLANT MIX #3	Calliandra	1 gallon cont.
	Conocarpus	1 gallon cont.
	Portulaca	1 gallon cont.
MEDIUM PLANT MIX	Calliandra	1 gallon cont.
	Conocarpus	1 gallon cont.
	Portulaca	1 gallon cont.
LARGE PLANT MIX	Calliandra	1 gallon cont.
	Conocarpus	1 gallon cont.
	Portulaca	1 gallon cont.

BISCAYNE BAY



**Monument Plan**  
N.T.S.



**Monument Elevation**  
N.T.S.

**GENERAL PLANTING NOTES**

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4. WHERE GROUND COVER AND/OR SHRUBS ARE USED IN MASS PLANTING BEDS, PLANTS SHALL BE SPACED USING A TRIANGULAR SPACING PATTERN (STAGGERED SPACING).
5. CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL TREES, OUTLINES OF PLANTING BEDS, AND COQUINA SHELL PATHS PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER/PROJECT MANAGER.
6. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE PROJECT MANAGER. THIS WILL NOT IMPLY FINAL ACCEPTANCE OF MATERIALS BY THE OWNER/PROJECT MANAGER.
7. CONTRACTOR SHALL REPLACE ANY AND ALL PLANT MATERIALS NOT ACCEPTED BY THE OWNER AND PROVIDE NECESSARY REPAIRS OF DISTURBED AREAS/ITEMS AT NO COST TO OWNER.
8. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. ANY DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER AND PROJECT MANAGER.

**PLANT LIST**

QUANTITY	SYMBOL	LATIN NAME	COMMON NAME	SUBSTRIFE
<b>SMALL PLANT GROUP #1</b>				
50	BS	<i>Chromolaena odorata</i>	Yellow Cigar	1 gallon cone
50	BS	<i>Scaevola taccada</i>	Coconut Screw	1 gallon cone
50	BS	<i>Leucaena leucocarpa</i>	Coconut Tree	1 gallon cone
1500	BS	<i>Panicum vaginatum</i>	Sea Paspalum	4" liner
2000	BS	<i>Uniola paniculata</i>	Sea Oats	4" liner
<b>SMALL PLANT GROUP #2</b>				
15	BS	<i>Chromolaena odorata</i>	Yellow Cigar	3 gallon cone
15	BS	<i>Conocarpus erectus</i>	Caribbean Power	3 gallon cone
20	BS	<i>Melaleuca leucadendron</i>	Sea Lavender	3 gallon cone
20	BS	<i>Myrsine cubensis</i>	Myrsine	3 gallon cone
20	BS	<i>Pithecolobium beryllense</i>	Wax Birdwing	3 gallon cone
20	BS	<i>Stemodia aculeata</i>	White Rockberry	3 gallon cone
30	BS	<i>Scorpaena plumieri</i>	Shiberry	3 quart cone
10	BS	<i>Sophora tomentosa</i>	Nechacee Pod	3 gallon cone
30	BS	<i>Senecio repens</i>	Saw Palmetto	1 gallon cone
<b>SMALL PLANT GROUP #3</b>				
10	BS	<i>Casuarina strictum</i>	Lignum Vitae	3 gallon cone
30	BS	<i>Ipomoea</i>	Beach Edger	1 gallon cone
10	BS	<i>Sesuvium portulacastrum</i>	Sesuvians	1 quart
30	BS	<i>Sida cordata</i>	Sea Cudde	3 gallon cone
<b>MEDIUM PLANT GROUP</b>				
1	BS	<i>Conocarpus verticillatus</i>	Caribbean	10 gallon cone
8	BS	<i>Quararuba diglossa</i>	Black	3 gallon cone
1	BS	<i>Myrsine cubensis</i>	Myrsine	3 gallon cone
9	BS	<i>Pinellia pectinata</i>	American Dogwood	10 gallon cone
25	BS	<i>Thunbergia alata</i>	Heath Palm	3 gallon cone
<b>LARGE TREES</b>				
15	BS	<i>Bursera simarouba</i>	Florida Lumber	10 gallon cone
1	BS	<i>Lycium hirsutum</i>	Wild Tamarind	10 gallon cone
1	BS	<i>Savanna mahagoni</i>	Mahogany	10 gallon cone
1	BS	<i>Lycium hirsutum</i>	Wild Tamarind	10 gallon cone

**Monument Island Plan**  
Scale: 1" = 60'

# MONUMENT ISLAND

## LEGEND

1. DAY USE DOCK
2. DAY USE CAMP SITES
3. BOARDWALK PATHWAY
4. BEACH REVITALIZATION
5. EXISTING PATHWAYS
6. EXISTING MONUMENT
7. VIEW PAVILION



MONUMENT ISLAND CONCEPT ALTERNATIVE ONE



MONUMENT ISLAND CONCEPT ALTERNATIVE TWO



*If there is one magic on this planet, it is contained in water.*  
*-Loren Eiseley*



