Las Olas Boulevard Mobility Project

Working Group Meeting Presentation

June 18, 2020

Agenda

- Introduction
- Status update (Where we are in the timeline)
- Walking Tour and Working Group survey results
- Landscape field review results
- Traffic study results
- Next Steps review

Project Timeline

Walking Tour

- Virtual Walking Tour on May 26th, 2020
- Feedback taken back to Design Team
- Videos posted online:

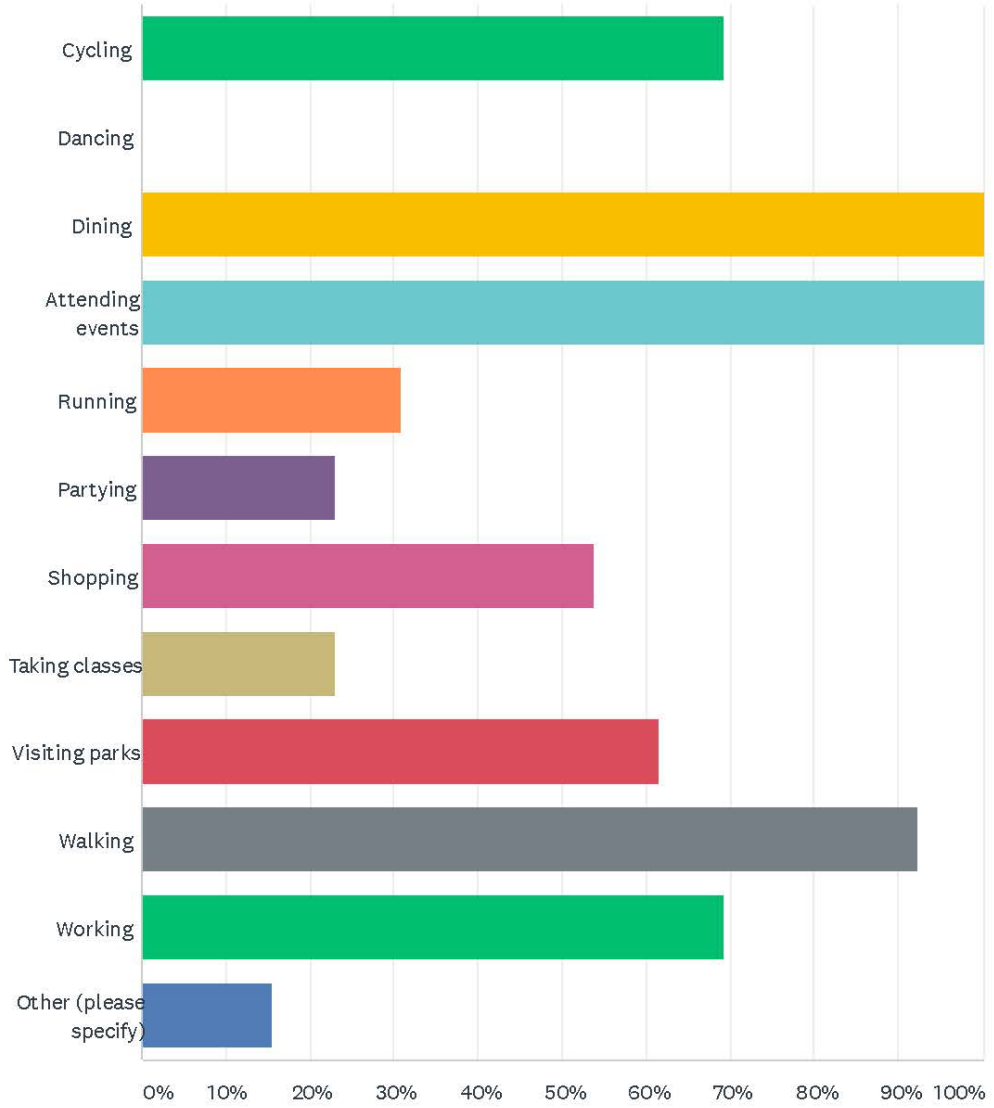
Working Group Survey Snapshot

- Members of the Las Olas Mobility Working Group who responded – 12

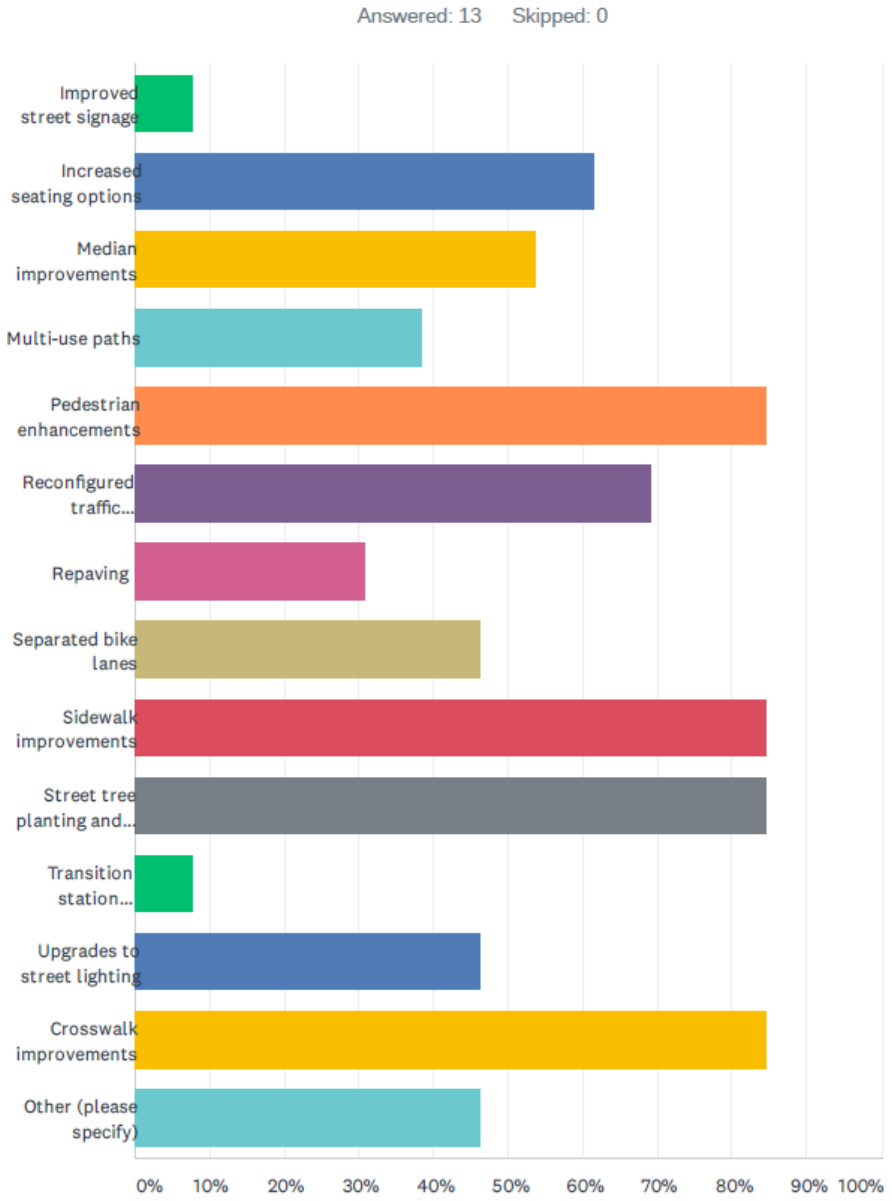
- 92% of respondents visit the corridor multiple times a week or more.
- Top activities engaged in on the corridor:
  - Dining – 100%
  - Attending Events – 100%
  - Walking – 92%
  - Working – 69%
- Describe the corridor – top themes
  - Charming/Old/Quaint/Special/Cornerstone
  - Inconsistent/Disconnected/Disjointed

Q4 What activities do you engage in on the Las Olas corridor? (Select all that apply.)

Answered: 13 Skipped: 0



Q11 What are some improvements to the Las Olas streetscape you would like to see that you consider indispensable? (Select all that apply.)



Improvements to the Las Olas corridor that are considered most indispensable:

84.62% of respondents selected (four-way tie):

- *Pedestrian enhancements*
- *Sidewalk improvements*
- *Street tree planting and landscape*
- *Crosswalk Improvements*

69.23% of respondents selected *reconfiguring traffic patterns*

61.54% of respondents selected *increased seating*

Three most important characteristics of Las Olas corridor:

92.31% of respondents selected *streetscape furnishings*

Benches, trash receptacles, parking meters, bike racks, transit shelters, flowerpots, etc.

69.23% of respondents selected *landscaping*

Urban forest, street trees, planters, etc.

69.23% of respondents selected *lighting*

Roadway and pedestrian

*Honorable Mention:*Sidewalks, safety and walkability** *were not included in options, but were specified multiple times in the "other" section*

Recurring suggestions for the future of Las Olas corridor:

- Space for pedestrians is prioritized over vehicular traffic
  - *"Let's build a world-class destination for tourists and locals to stroll along safely, to take in the heart of Fort Lauderdale without having to dodge speeding cars"*
- A beautified space that encourages people to walk around or sit and enjoy
  - *Las Olas is a perfect strip for wonderful shopping and sidewalk cafes. It would be so lovely to have seasonal planters hanging from newly designed light post; benches along the way for people to sit and people watch and sidewalk cafe. A European style shopping and dining district would be ideal for Las Olas.*

Tree and Landscape Review

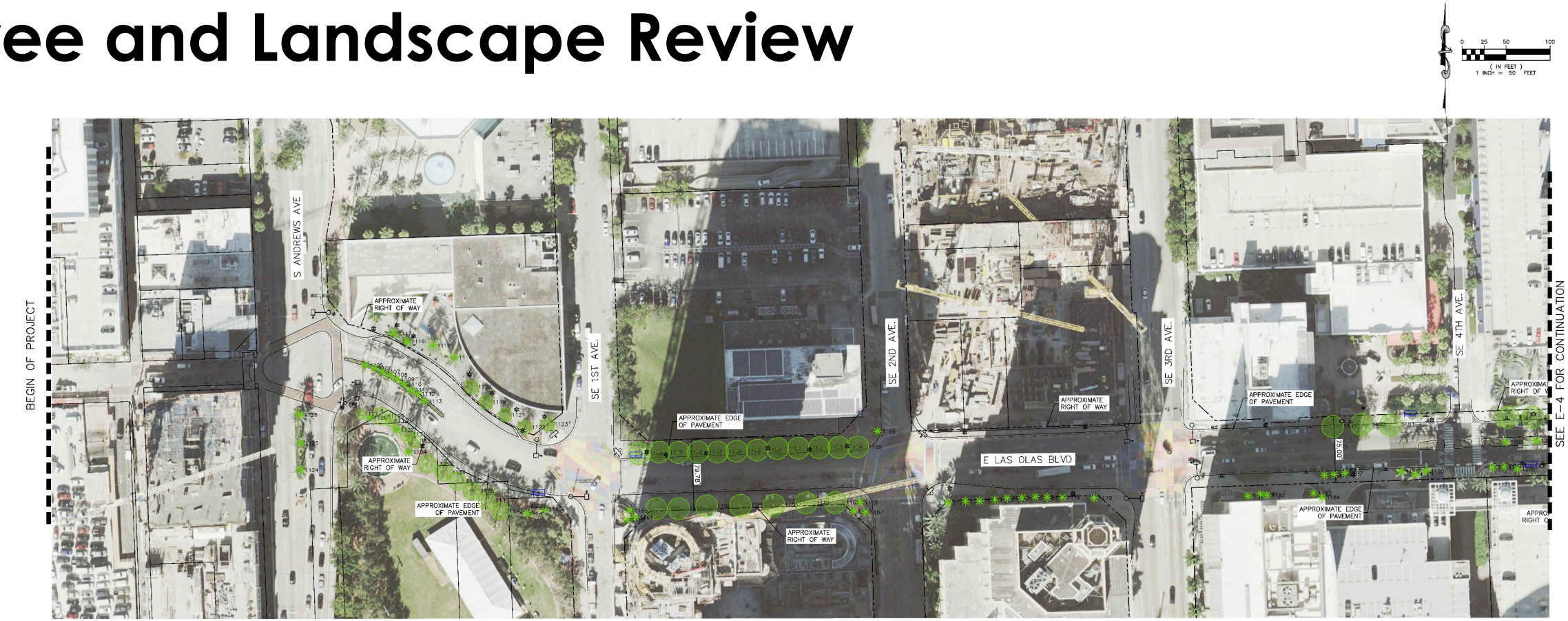
- Forty-seven (47) different species of palms and trees
- Total: 672 individual plants
  - Alexander Palm (52) / Solitaire Palm (57)
  - Black Olive (21)
  - Cabbage Palm (130)
  - Coconut Palm (171)
  - Date Palm (40) / Sylvester (4) / Senegal (5)
  - European Fan Palm (17)
  - Gumbo Limbo (19)
  - Live Oak (56)
  - Mexican Fan Palm (11)
  - Montgomery Palm (19)
  - Royal Palm (119)
  - Silver Buttonwood (28)

Tree and Landscape Review

- Sea Level Rise Considerations:
  - Resilient to occasional flooding
  - Able to filter pollutants
  - Be salt tolerant

- Resiliency issues:
  - Black Olives
  - Various species of Date and Fan Palms
  - Montgomery Palms
- Not resilient to any of the natural factors affecting the corridor. Recommend removal and replacement.

Tree and Landscape Review



LEGEND:

- APPROXIMATE RIGHT OF WAY LINE
- EXISTING TREES
- EXISTING MAST ARM
- EXISTING PEDESTRIAN SIGNAL
- EXISTING TRAFFIC SIGNAL
- EXISTING BENCH/BUS STOP
- EXISTING BIKE RACK
- EXISTING MULTICOLUMN SIGN
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Tree and Landscape Review

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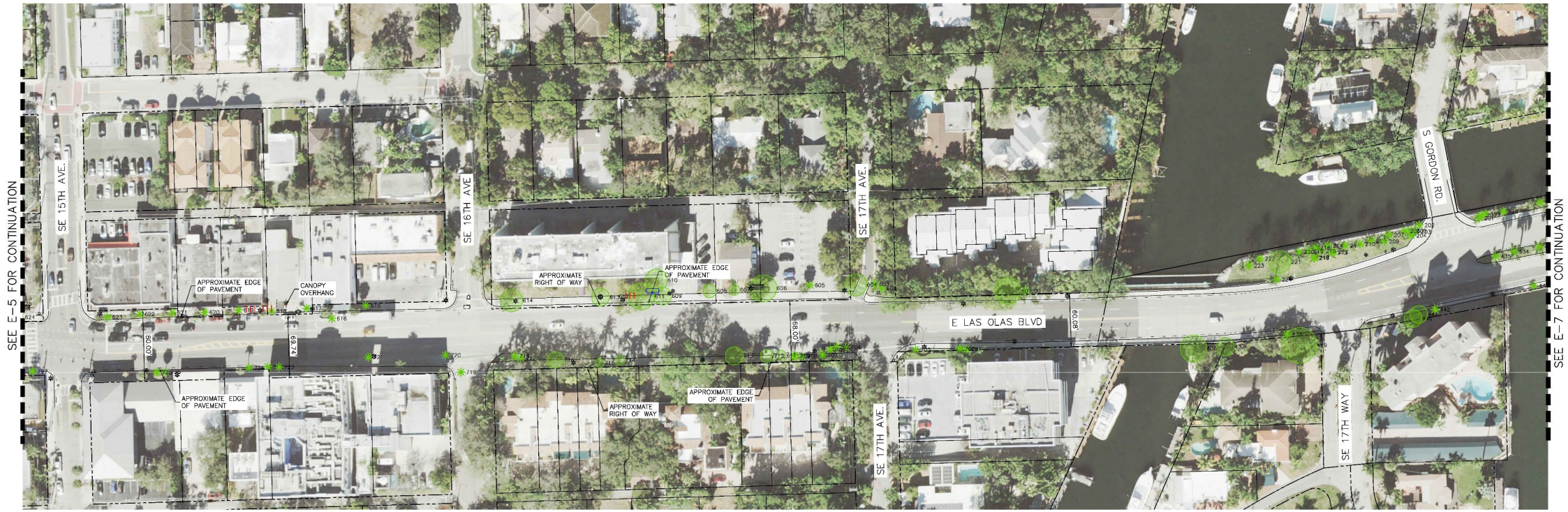

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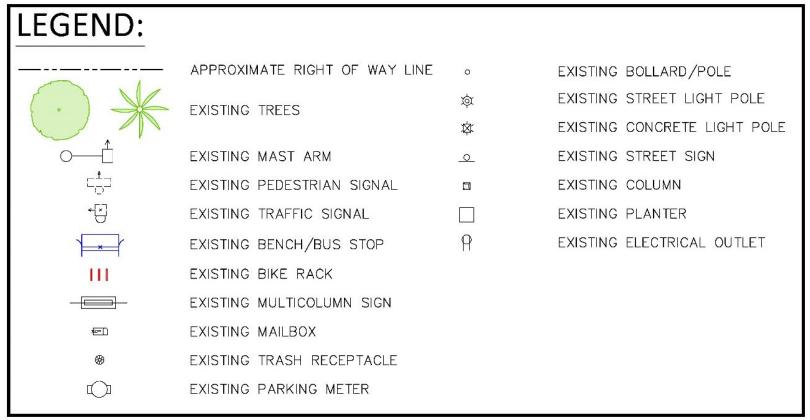

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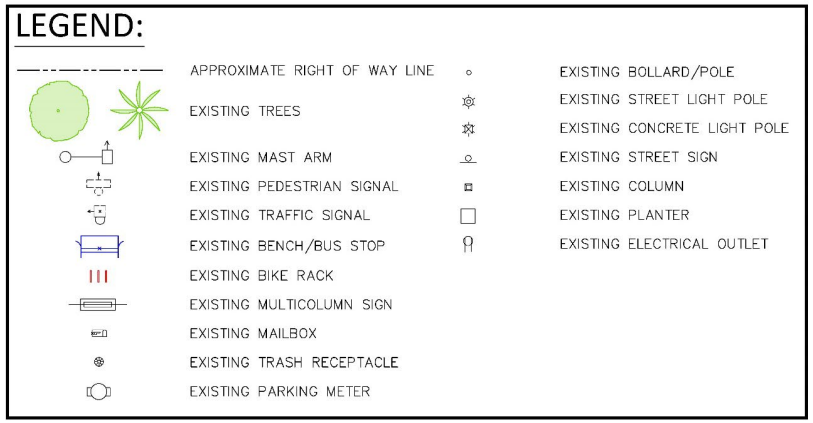


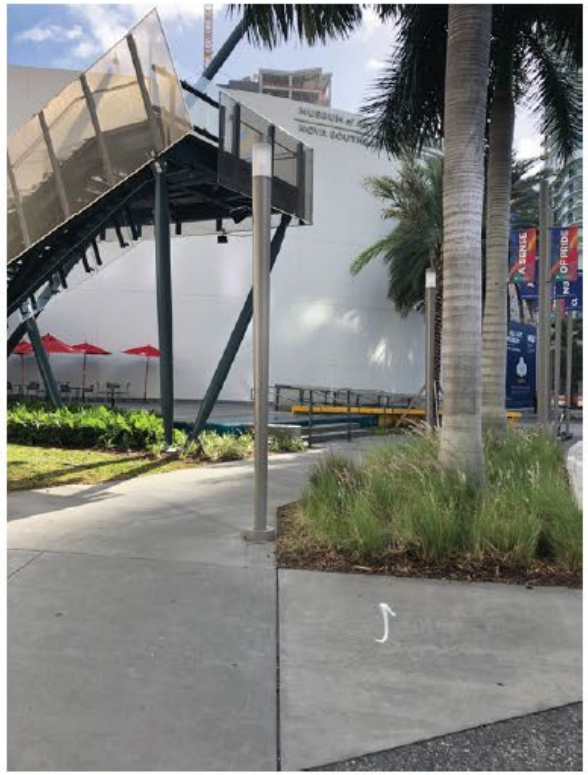
Tree and Landscape Review

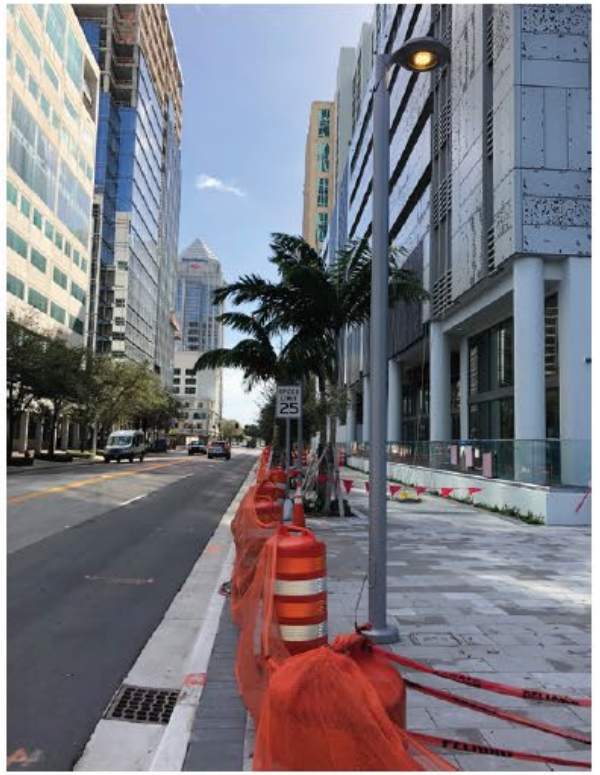
- Other Issues:
  - Plants affected by:
    - Speakers (holes)
    - Flagpoles (holes)
    - String Lights
    - Flood Lights
  - Some specimens are so damaged as to be non-viable in the long term
- Natural shade lacking in most of corridor
- Palm trees do not provide shade – consider "heat island" effect
- Need diversity

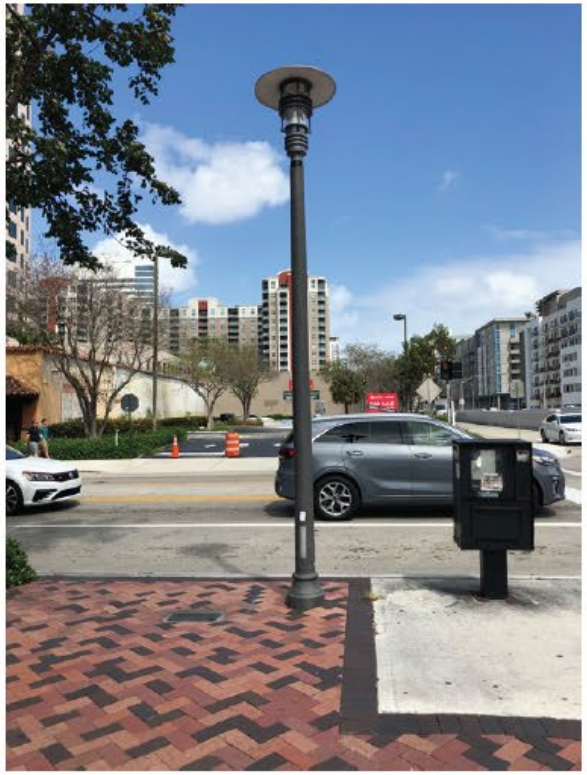
Tree and Landscape Review

- Inconsistent design affects corridor identity

Light Fixtures





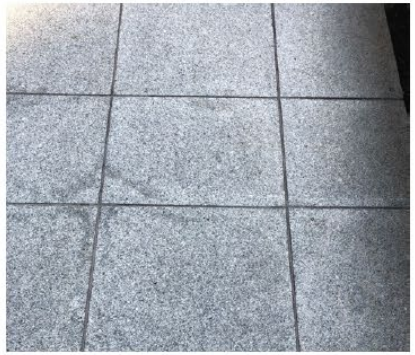


Tree and Landscape Review

Hardscape





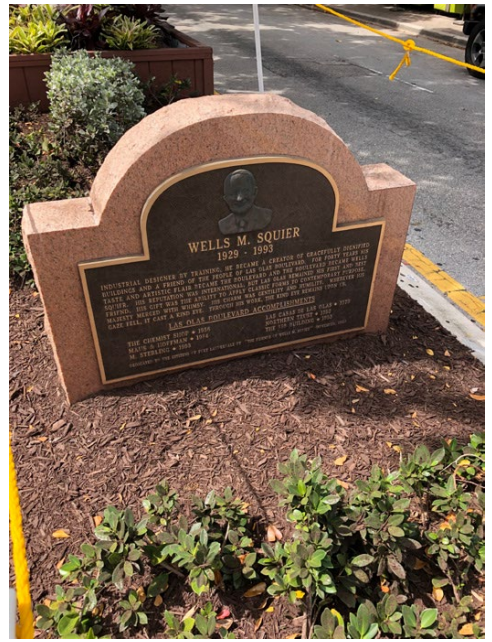





The hardscape differs from block to block, and sometimes building to building, within the Downtown District. There are more than ten different types of pavment patterns, not including normal sidewalk, with a varying in color, shape, and size.

Tree and Landscape Review

- Historical pieces and public art



Looking Around the World

Mexico City, Mexico

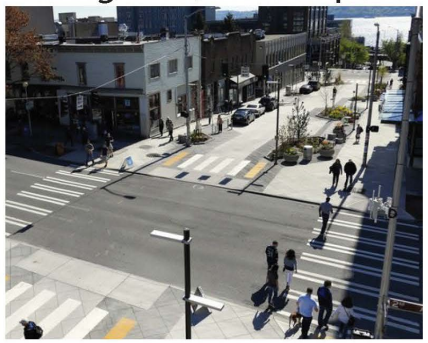
Bonn, Germany

Georgia St., Indianapolis

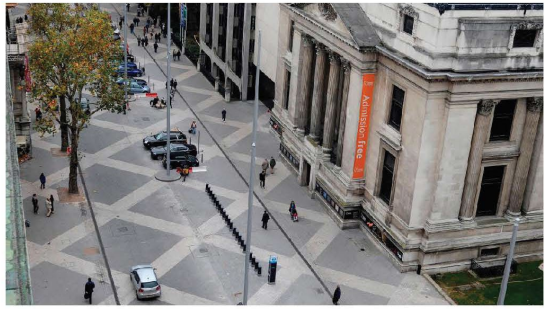
Ljubljana, Slovenia

Nicolette Mall: Minneapolis

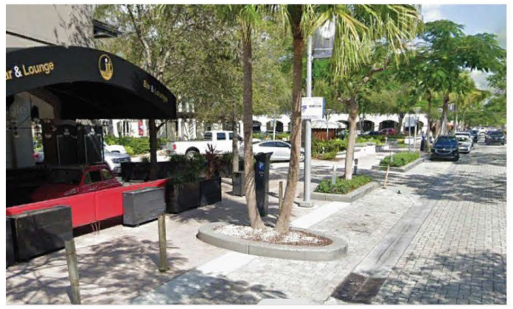
Milan, Italy



Seattle, Washington



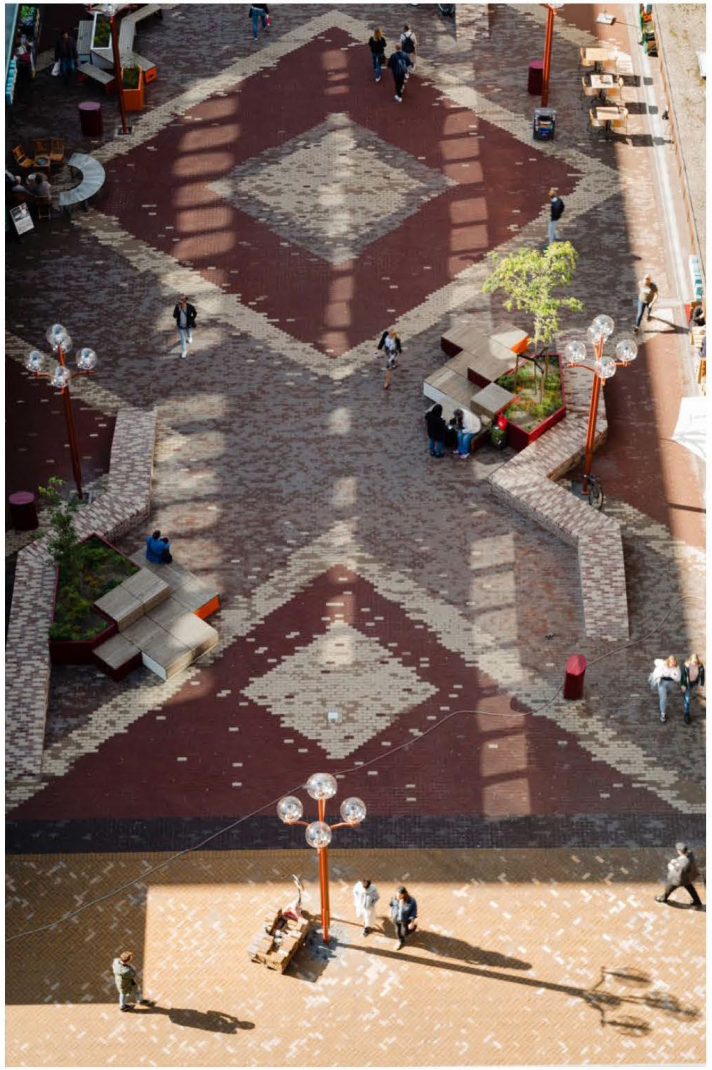
London, UK

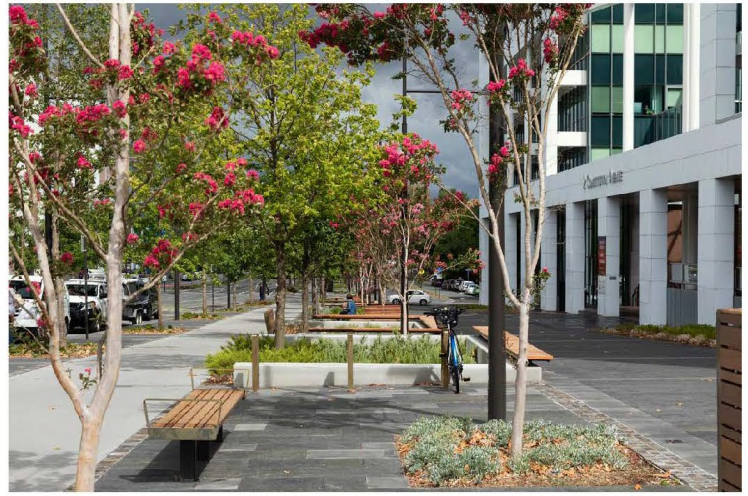


Midtown Miami

Seattle, Washington

Looking Around the World

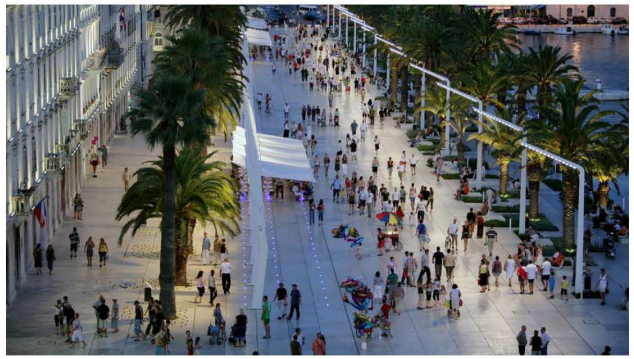




Looking Around the World

Alaskan Way, Seattle

Rio, Madrid Spain



Split, Croatia

Riverwalk, Chicago

Pottery Road, Toronto

Looking Around the World

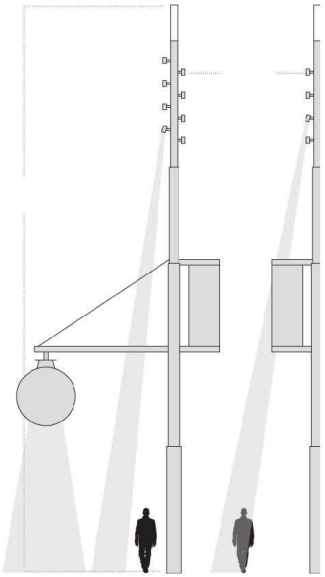
Lighting

Las Olas at Night

Lee County Art Museum

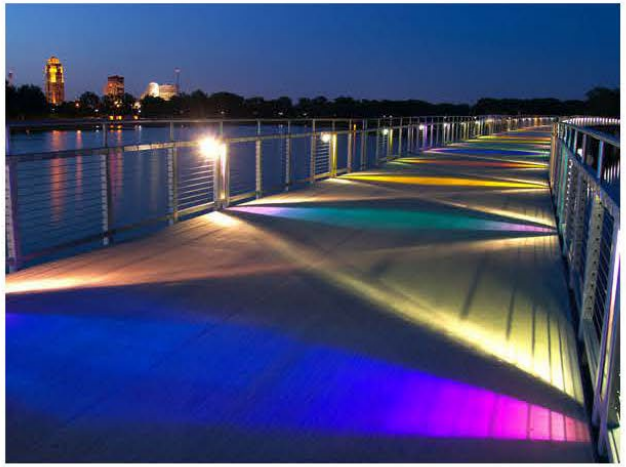
Canopy Tree Uplights

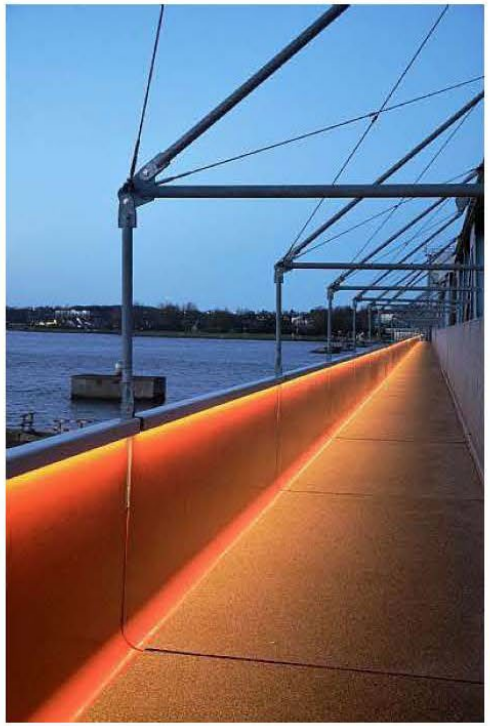
Color Uplights



Nicollet Mall Light

Looking Around the World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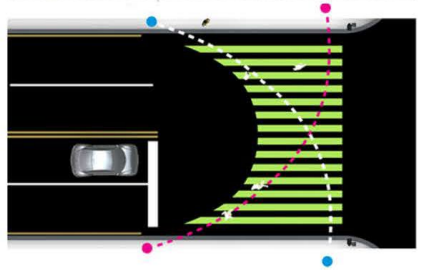
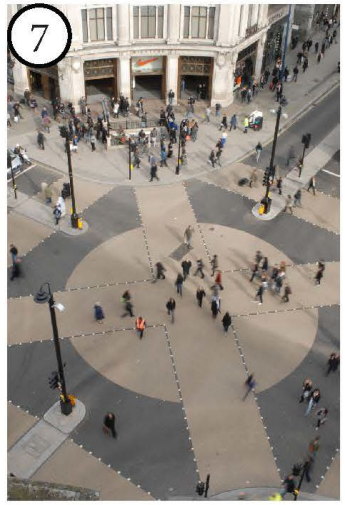
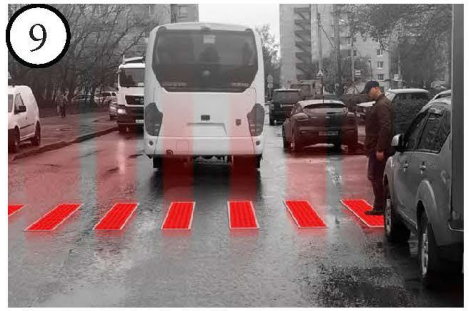






Design Inspirations

15th Ave Shops West

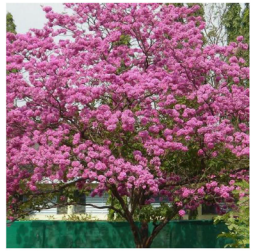
Large Trees:

Quercus Virginiana
Live Oak*

Bursera simaruba
Gumbo Limbo*

Piscidia Piscipula
Jamaican Dogwood

Flowering Trees / Accents:



Handroanthus impetiginous
Purple Trumpet

Handroanthus heptaphyllus
Pink Trumpet

DRAFT/EXAMPLE

Medium Trees:

Eugenia foetida
Spanish Stopper*

Myrcanthes fragrans
Simpson Stopper*

Tabebuia cariaba
Silver Trumpet

Handroanthus chrysotricha
Yellow Trumpet

Lagerstroemia speciosa.
Queen Crepe Myrtle

Small Trees:

Conocarpus erectus var. sericeus
Silver Buttonwood*

Ligustrum Japonicum
Ligustrum*

Lagerstroemia spp.
Crepe Myrtle

Ardisia ecallanoides
Marlberry

RATING TREE OPTIONS

• **Urban Tolerance**: The ability for a tree to survive and thrive in the urban environment. Highly rated trees have high carbon sequestration rates, filter polluted runoff, and provide cooling shade to combat the urban heat island effect.

• **Structure:** Tree structure plays a large role in resilience. Tree structure determines wind tolerance, drought tolerance, salt tolerance, and the all around strength of the tree.

• **Wind:** Trees with high wind tolerance are rated higher on the scale than those with low tolerance. Wind tolerance is based on tree structure and the ability to withstand high winds without breaking or being up-rooted.

• **Compartmentalization:** Compartmentalization refers to a tree's ability to stave off disease.

• **Life Span:** Trees with a longer life-span are rated higher on the scale than those with shorter life-spans. Trees with longer life spans do not need to be replaced barring extreme circumstances, further promoting the ecological and economical benefits of the trees.

• **Native:** Native trees are rated higher on the resilience scale than non-native plants.

We Hear You on Resiliency!

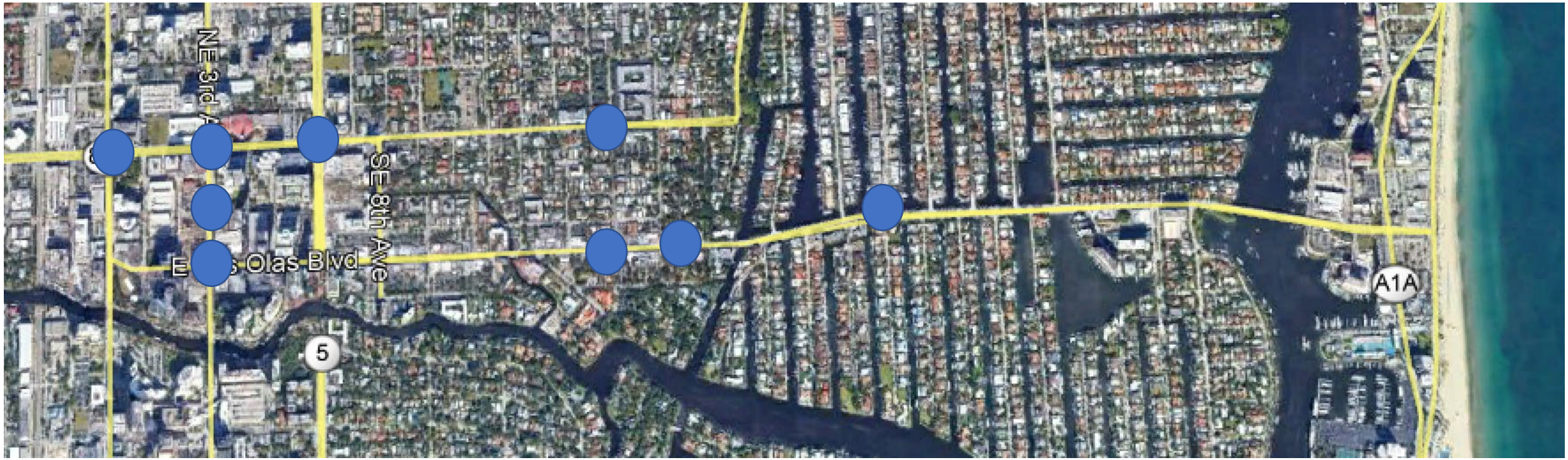
SPECIES	NATIVE	RESILIENCE RATING	SALT TOLERANCE	XERI SCAPING	DROUGHT TOLERANCE
Quercus virginiana - Live Oak	YES	100	High	Ocasionally Wet/ Well-Drained	High
Bursera simaruba - Gumbo limbo	YES	100	High	Well-Drained	High
Eugenia foetida - Spanish stopper	YES	90	High	Moist but Well-Drained	High
Caesalpinna grandillo - bridalveil	NO	80	Low	Well-Drained	Moderate
Conocarpus erectus var. sericeus - Silver buttonwood	YES	80	High	Occasionally Wet/ Well-Drained	High
Delonix Regia - Royal poinciana	NO	80	Moderate	Well-Drained	High
Coccoloba diversifolia - Pigeon plum	YES	90	High	Moist TO Well-Drained	High
Clusia rosea - Pitchapple	YES	100	High	Well-Drained	High
Piscidia piscipula - Jamaican dogwood	YES	90	Moderate	Well-Drained	High
Handroanthus heptaphyllus - Pink trumpet	NO	80	Moderate	Well-Drained	High
Tabebuia cariaba - Silver trumpet	NO	80	Moderate	Well-Drained	High
Handroanthus chrysotrichus - Yellow trumpet	NO	50	Moderate	Well-Drained	Moderate
Ilex cassine - Dahoon holly	YES	75	Moderate	Wet to Well-Drained	Moderate
Chrysophyllum oliviforme - Satin leaf	YES	80	Moderate	Well-Drained to Occasionally Wet	High
Lagerstromeia spp . - Crepe myrtle	NO	90	Moderate	Well-Drained	High
Ardisia escallanoides - Marlberry	NO	70	Moderate	?	Moderate
Roystonea elata - Florida Royal palm	YES	100	Moderate	Occasionally Wet/ Well-Drained	Moderate
Sabal palmetto - Cabbage palm	YES	100	Moderate	Occasionally Wet/ Well-Drained	Moderate
Pseudophoenix sargentii - Bucaneer palm	YES	80	High	Moist but Well-Drained	High
Thrinax radiata - Thatch palm	YES	100	High	Well-Drained	High
Coccothrinax argentata - silver palm	NO	80	High	Well-Drained	High
Cocos nucifera - Coconut palm	NO	80	High	Occasionally Wet/ Well-Drained	High
Conocarpus erectus - Green buttonwood	YES	70	High	Occasionally Wet/ Well-Drained	High
Chrysobalanus icaco - Cocoplum "red tip"	NO	100	High	Seasonally Saturated to Seasonally Dry	Moderate
Ficus microcarpa - Green island ficus	NO	100	Moderate	Well-Drained	Moderate
Hamelia patens - Firebush	YES	80	Poor	Occasionally Wet/ Well-Drained	Moderate
Bougainvillea spp. - Bougainvillea	NO	100	Unkown	Ocasionally Wet/ Well-Drained	High
Crinum asiaticum - Crinum lilly	NO	80	Unkown	Extended Flooding	Moderate
Serenoa repens - saw palmetteo	YES	100	High	Tolerant of Both Wet and Dry Conditions	High
Ipomea pes-caprae - Railroad vine	YES	90	Good	Well-Drained	High
Cocoloba uvifera - Seagrape	YES	80	High	Well-Drained	High
Myrcianthes fragrans - Simpsons Stopper	YES	90	Moderate	Occasionally Wet/ Well-Drained	High
Elaeocarpus decipiens - Japanese Blueberry	NO	80	Unkown	Well-Drained	High
filicium decipiens - Japanese Fern Tree	NO	80	Unkown	Well-Drained	Moderate
Ligustrum japonicum - Japanese Privet	NO	75	High	Well-Drained	Moderate
Lagerstroemia speciosa - Queens Crape Myrtle	NO	85	Moderate	Well-Drained	High
Archontophoenix alexandrae - Alexander Palm	NO	90	Moderate	Well-Drained	Low
Handroanthus impetiginous - Pink Trumpet	NO	80	Moderate	Well-Drained	High
Caryota spp. - Fishtail Palm	NO	65	Moderate	Well-Drained	Moderate
Latania loddigessi - Blue Latan Palm	NO	85	Moderate	Well-Drained	High
Bismarckia nobilis - Bismarck Palm	NO	90	High	Well-Drained	High
Clusia nana - Dwarf clusia	NO	80	High	Well-Drained	High

DRAFT

Traffic

- How many lanes do we need?
  - What do we consider?
    - Regular traffic
    - Emergency vehicles
    - Evacuation
  - Intersections
- Safety: Where can we make it safer for people to cross?
- Which intersections need improvements to help things move better?
- Parking!

Intersection Analysis



Fails at some point at the day (Level of Service E or F on at least 1 leg)

How Many Lanes Do We Need?

Traffic Analysis indicates 2 lanes needed

Traffic Analysis indicates 4 lanes needed

Based on Traffic Modeling Analysis run with City's Traffic Counts

Speeding/Safety Issue

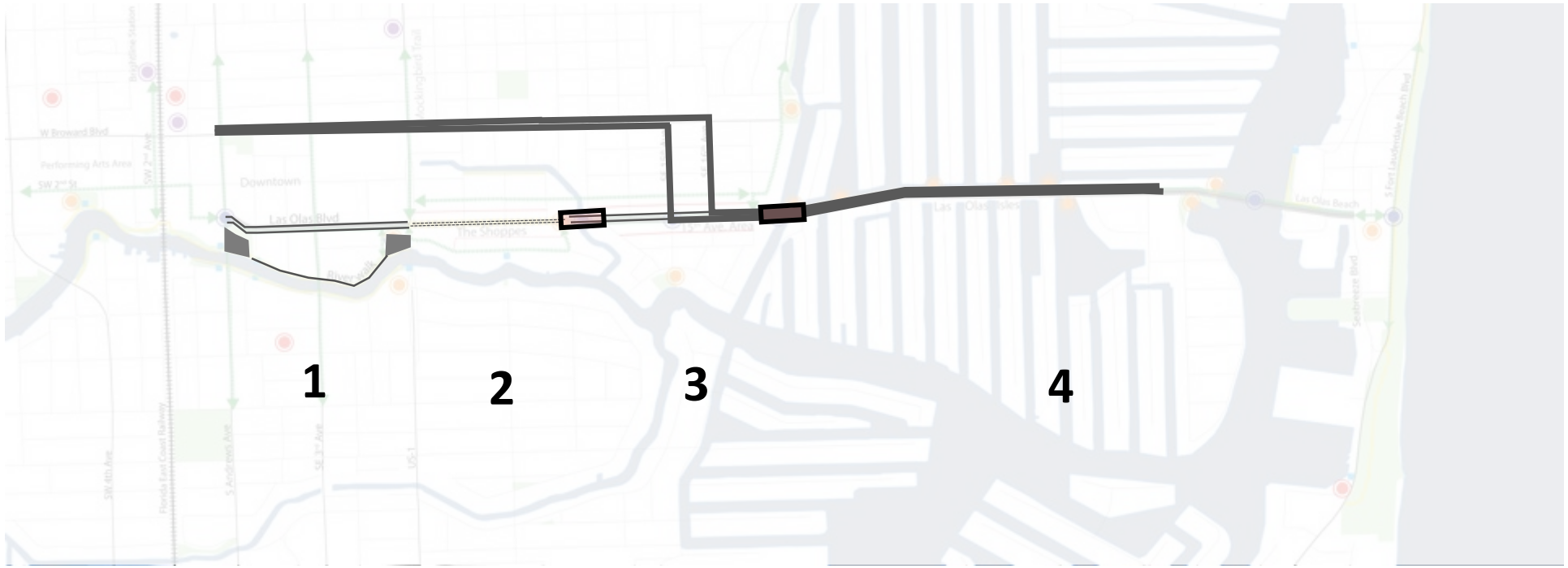
Las Olas Isles:

85th Percentile Speed on some sections is 41 MPH.

Only speeding issue is in Isles area.

Multimodal Framework

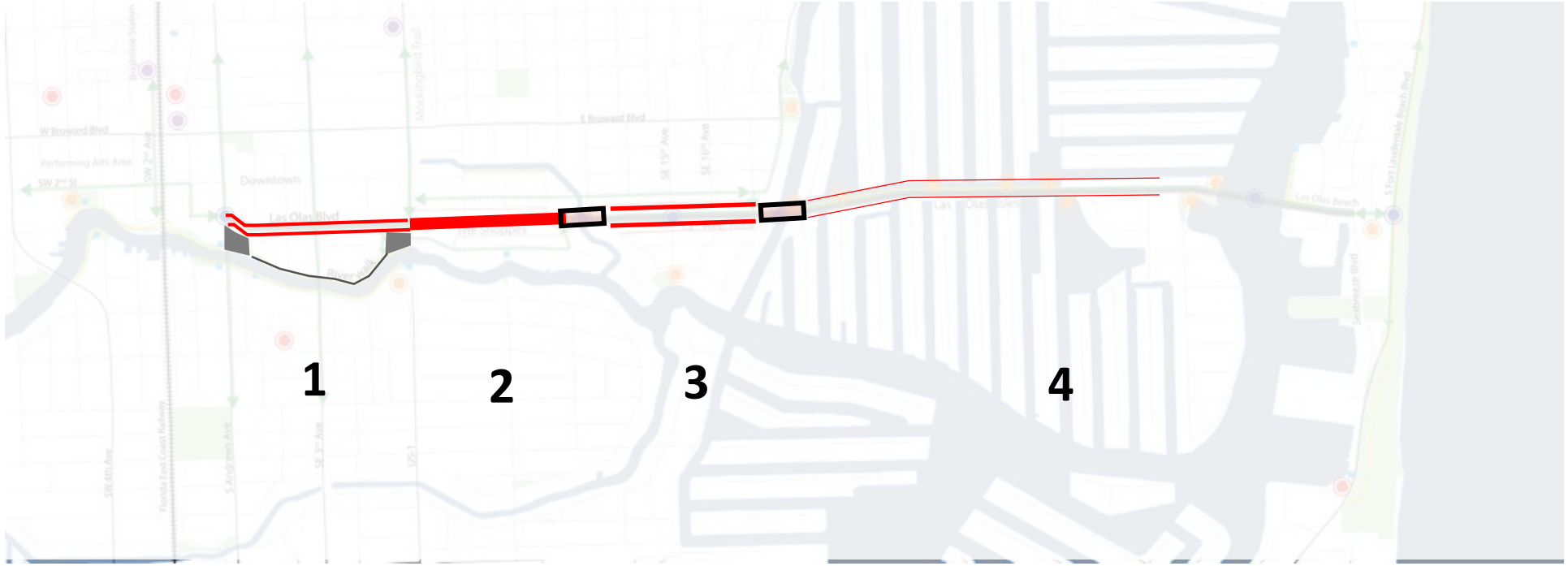
Multimodal Review and Framework



Vehicular Framework

Cars follow the rule that “I need to get to I-95 on Broward and I need to get to the Beach on Las Olas.” We must explore vehicular connections between Las Olas and Broward via SW 8th, SW 12th, and SW 15th Streets. This is to achieve traffic capacity goals and while giving priority to pedestrians.

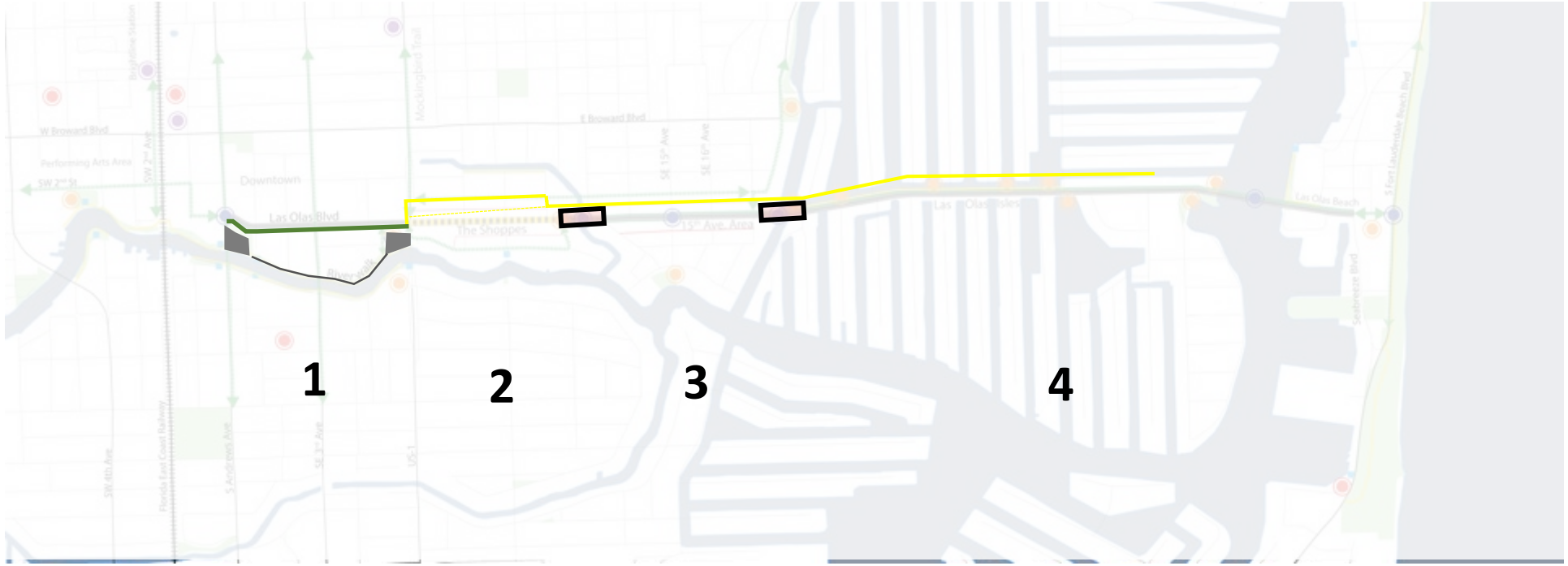
Multimodal Review and Framework



Pedestrian Framework

Pedestrian life will be the priority in particularly with consideration of foot traffic in front of retail and restaurants, and will be seamlessly connected to the Riverwalk; both areas will benefit.

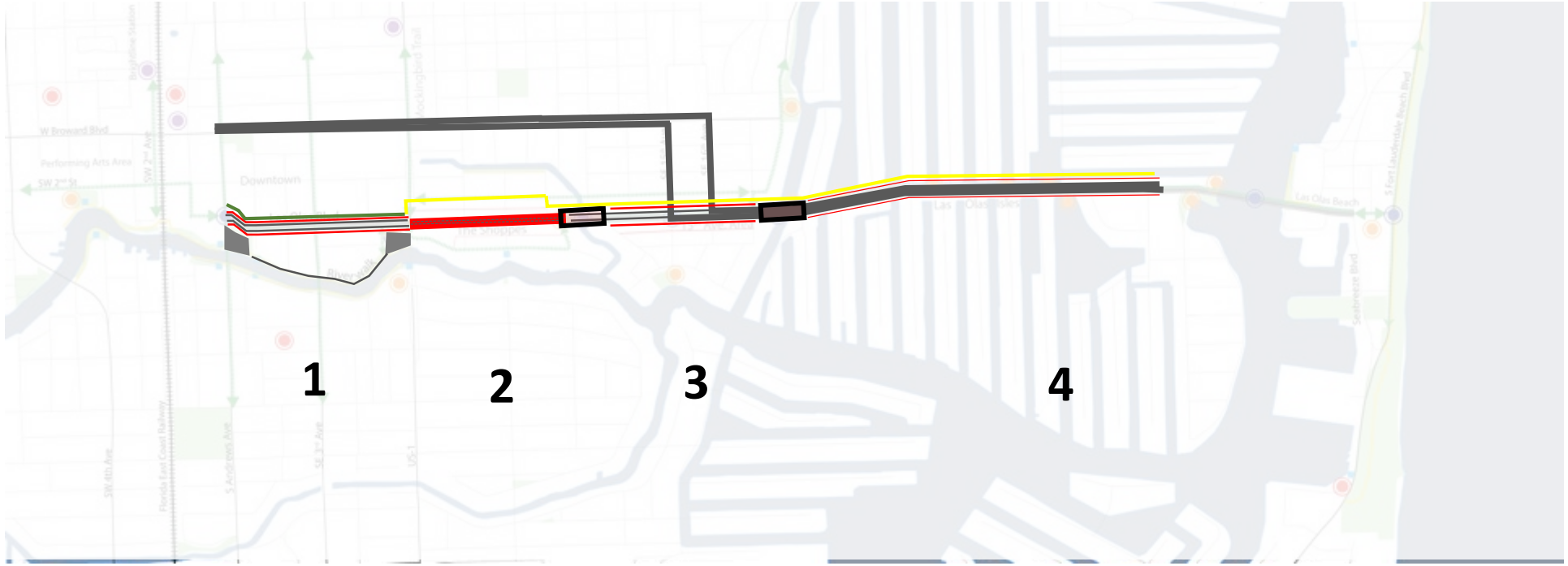
Multimodal Review and Framework



Bicycles and Scooters Framework

Bicycles and Scooters will be organized with safe, continuous lanes that respond to each segment. Generous lanes in the Isles, slow in the Historic Shoppes area, safe dedicated lanes in Downtown and Colee Hammock @ Las Olas/15th.

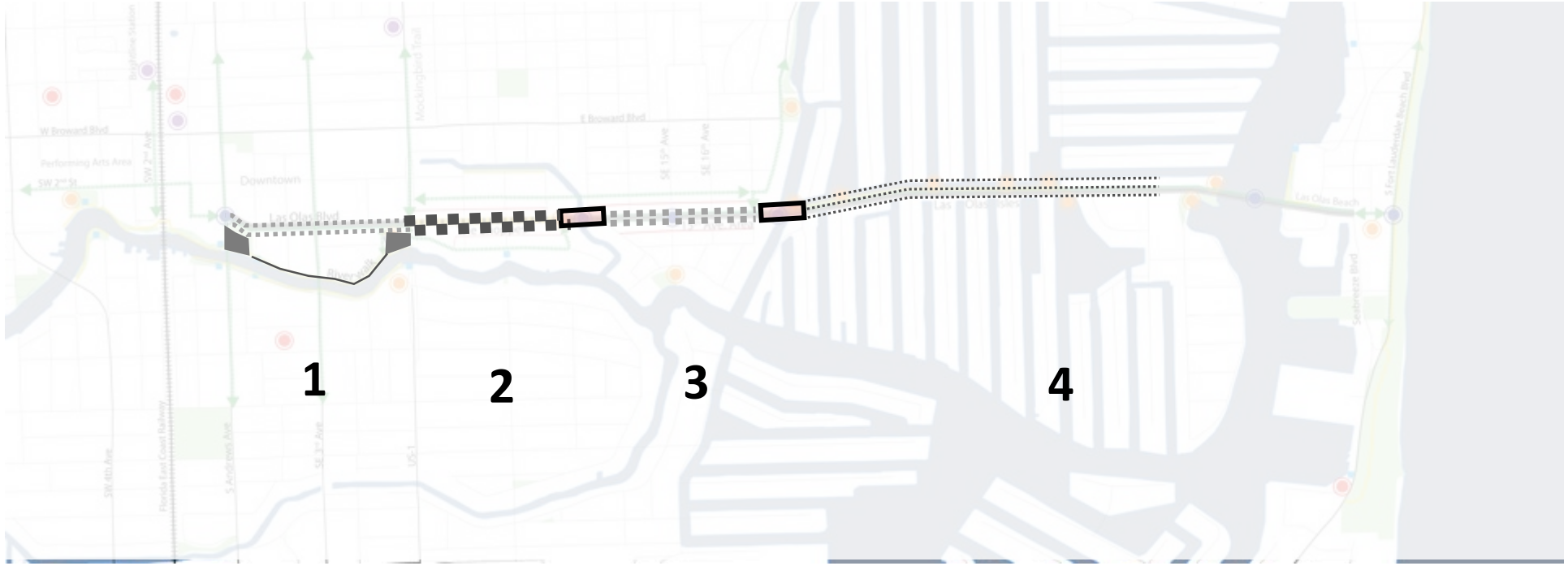
Multimodal Review and Framework



Circulation Framework

The street has many differences along its length and embodies different experiences for pedestrians, bikers and drivers. Las Olas Boulevard is considered to be the key identity street for Fort Lauderdale, and our challenge is to build on the strengths already in place to create a memorable image, a world-class street.

Landscape Framework



Landscape Framework

There are amenities throughout such as landscaping, street furniture, signage and lighting. These elements are static and have different purposes in different parts of the street. These elements are the basis of the visual identity for each segment of the street.

Multimodal Framework

Next Steps

- Complete draft with cross sections, specific detailed design options
- Presentation and discussion on draft plan and components
- Revise plan based on discussion for end of September

QUESTIONS AND COMMENTS