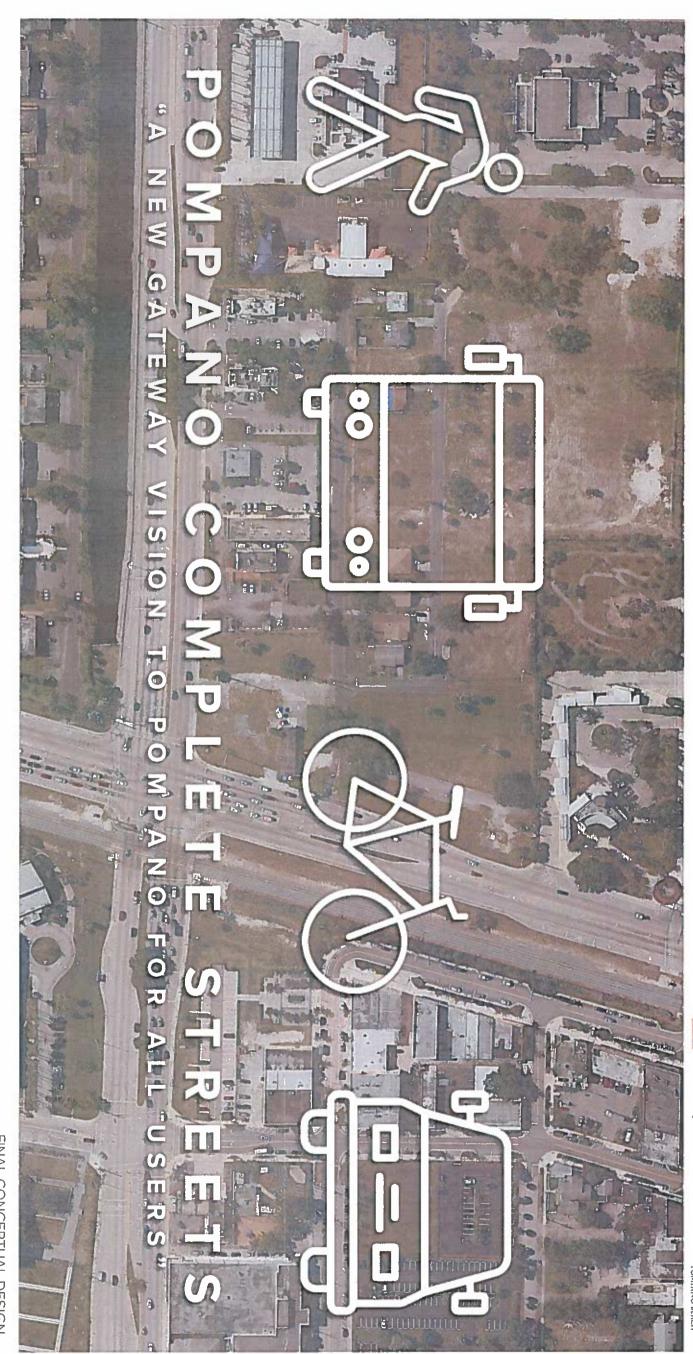
EXHIBIT "A"

edso Kimley » Horn Traffech CRA



FINAL CONCEPTUAL DESIGN POMPANO BEACH, FLORIDA JULY 11, 2018

INTRODUCTION

Key Points

What are the benefits? What are Complete Streets? Why do we need Complete Streets? What does a Complete Street look like?

SITE ANALYSIS

Traffic Statistics Introduction to Site

Analysis Regional Traffic Relocation Traffic Network Traffic Data

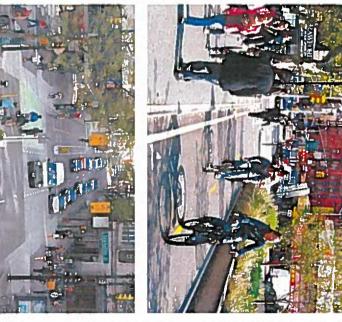
Design Opportunities Infrastructure Analysis Design Constraints

PROPOSED CONCEPTUAL DESIGN

Illustrative Site Plan

Enlargements Masterplan

Sections



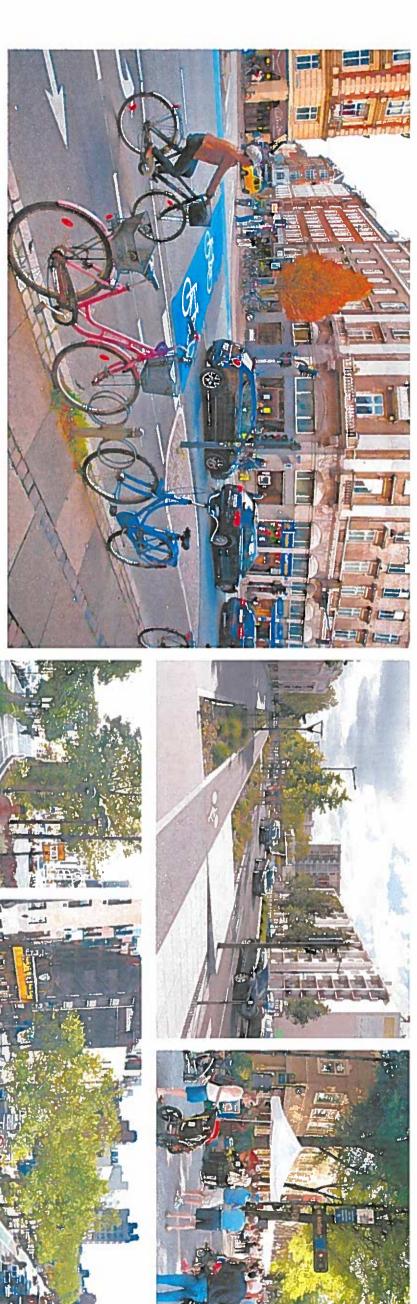




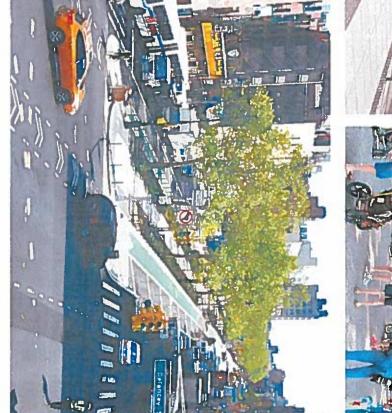


WHAT ARE COMPLETE STREETS?

pedestrians, bicyclists, motorists and transit riders of all ages and abilities. Complete streets make it easy to cross the street, walk Complete streets are for everyone. They are designed and operated to enable safe access for all users, including to shops, and bicycle to work. They allow buses to run on time and make it safe for people to walk to and from transit stations.







Various user groups for complete streets.

WHAT DOES A COMPLETE STREET LOOK LIKE?

There is no singular design for Complete Streets; each one is unique and responds to its

extensions, narrower travel lanes, roundabouts, and more. public transportation stops, frequent and safe crossing opportunities, median islands, accessible pedestrian signals, curb community context. A complete street may include: sidewalks, bike lanes, special bus lanes, comfortable and accessible

















Alternative form approaches to complete streets.

"SOURCE: https://smartgrowthamerica.org/program/national-complete-streets-coalition/what-are-complete-streets/

WHY DO WE NEED COMPLETE STREETS?

and taking public transportation inconvenient, unattractive, and, too often, dangerous. Changing policy to routinely include the needs of people on foot, public transportation, and bicycles would make walking, riding bikes, riding buses and trains safer and Incomplete streets are designed with cars in mind and limit transportation choices by making walking, bicycling,













Current Atlantic Boulevard & Dixie Highway conditions.

**SOURCE: http://old.smartgrowthamerica.org/complete-streets/complete-streets-fundamentals/complete-streets-faq

WHY DO WE NEED COMPLETE STREETS?

Complete Streets help create livable communities for various types of users, including children,

transportation costs and traffic woes. people with disabilities, and older adults. Complete Streets improve equity, safety, and public health, while reducing







WHY POMPANO?





Florida's Warmest Welcome

Progress as a city

Build a downtown

Redevelopment

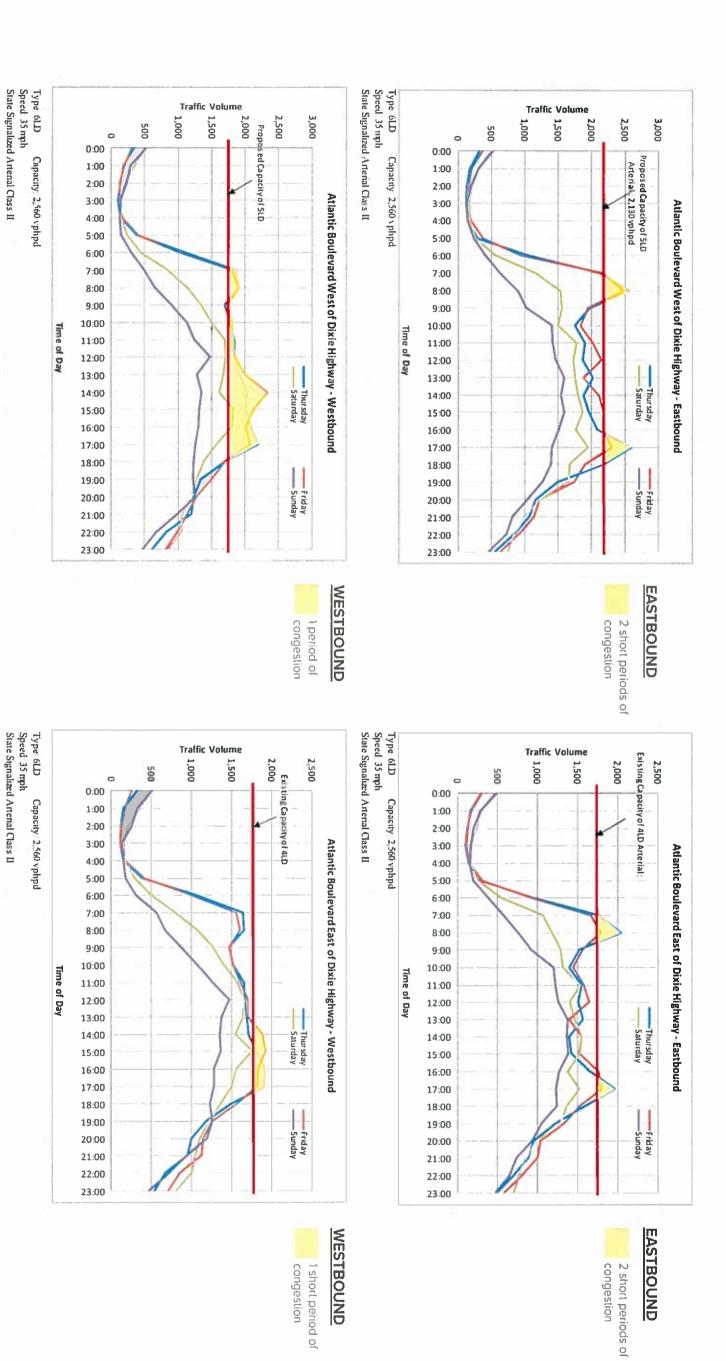
- Jobs
- Increased tax base
- Improved services

Connect downtown to the beach and the beach to downtown (ETOC)

Infrastructure improvement that catalyzes redevelopment

Adding walkability and sense of place

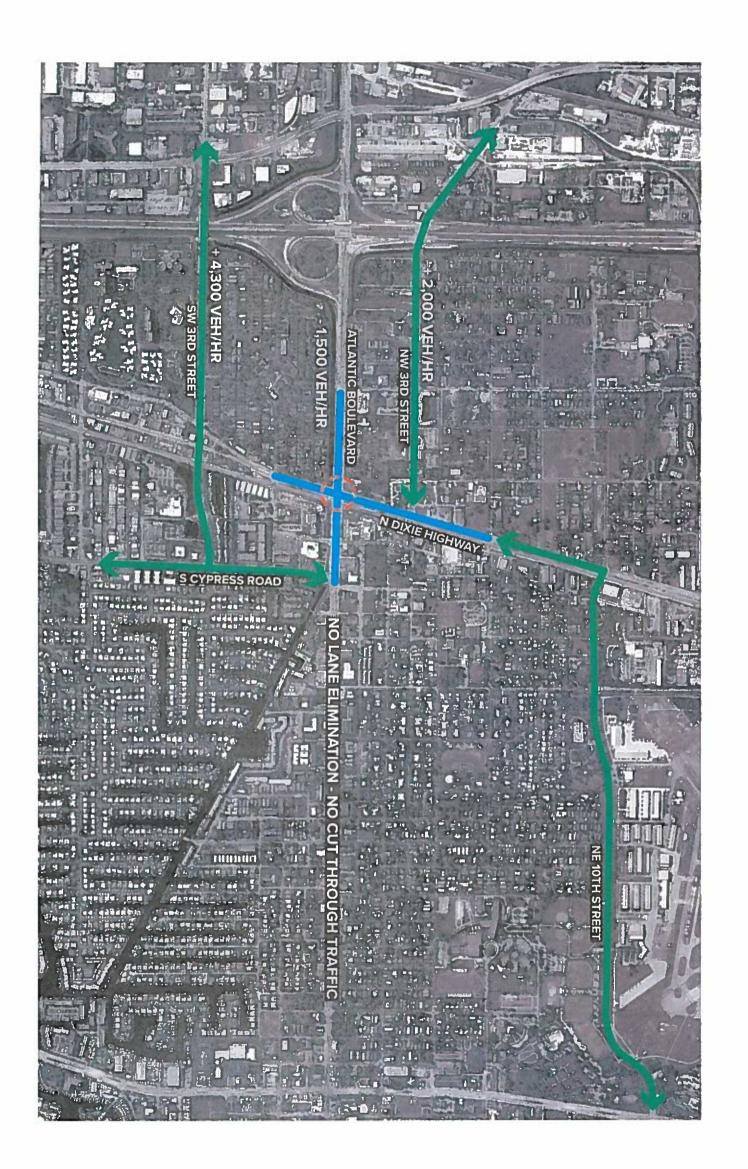
FRAFFIC DATA: ATLANTIC BOULEVARD



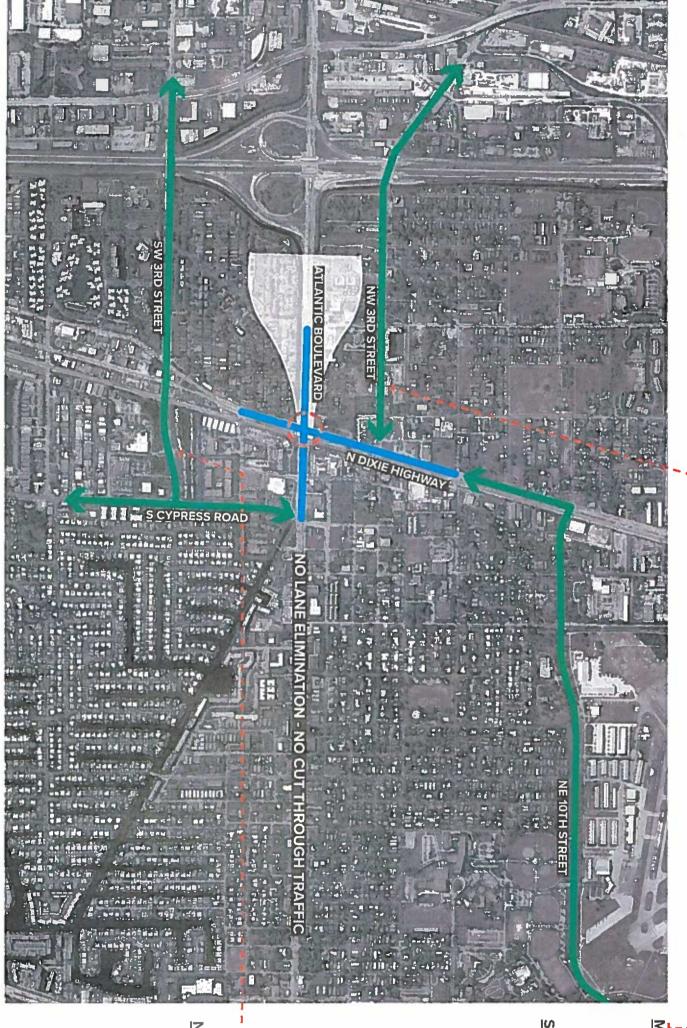
TRAFFIC NETWORK: CRITICAL AREA



TRAFFIC NETWORK: BYPASS ROUTES



TRAFFIC NETWORK: FUNNEL EFFECT



MLK / NW 3RD STREET:

Available surplus capacity to accommodate Atlantic Boulevard traffic diversion

SW 3RD STREET:

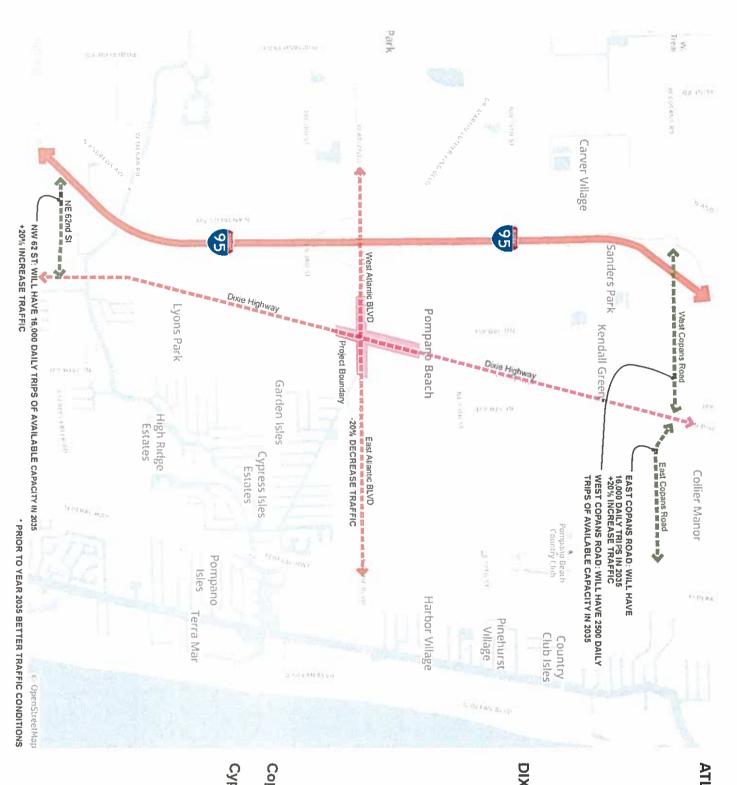
Available surplus capacity to accommodate Atlantic Boulevard traffic diversion

NEIGHBORHOOD TRAFFIC:

Intrusion not anticipated

- Critical area is west of Dixie Highway
- Excess surplus capacity available west of Dixie Highway
 Traffic calming plan for local
- streets
 No lane elimination east of Cypress Road

REGIONAL TRAFFIC RELOCATION



ATLANTIC BOULEVARD:

- Posted speed limit of 35 mph
- Two travel lanes in each direction
- Current traffic volumes per day:
- 64,300 24,700 vehicles west of Dixie Highway
- 53,500 vehicles east of Dixie Highway

 The acceptable carrying capacity of Atlantic Boulevard ranges from

59,900 - 32,400 vehicles per day

DIXIE HIGHWAY:

- Posted speed limit of 35 mph north of Atlantic Boulevard
- -Posted speed limit of 30 mph south of Atlantic Boulevard
- Two travel lanes in each direction
- Current traffic volumes per day:
- 26,300 vehicles south of Atlantic Boulevard
- 30,800 vehicles north of Atlantic Boulevard
- The acceptable carrying capacity of Dixie Highway is 32,400 vehicles per day

Copans Road has excess capacity for Atlantic Boulevard diverted trips.

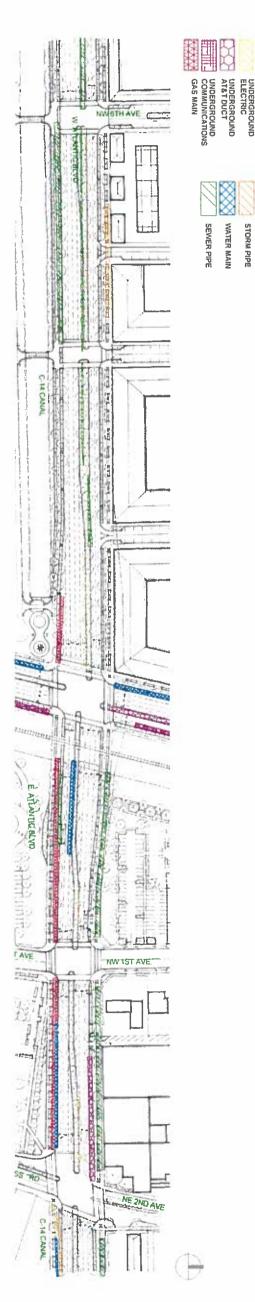
Cypress Road has excess capacity for Atlantic Boulevard diverted trips.

INFRASTRUCTURE ANALYSIS: ATLANTIC BOULEVARD

WET UTILITIES

DRY UTILITIES

STORM PIPE



CONSTRAINTS / CHALLENGES:

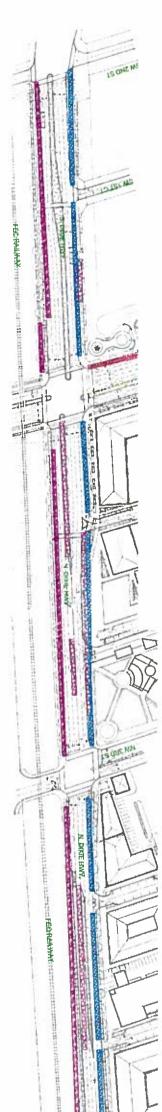
- be carefully considered Franchise utility duct banks (FPL and ATT) along the corridors must
- Existing water supply wells will have to be carefully protected with
- a wellfield zone Stormwater facilities along Atlantic Boulevard may be located within
- not be permitted in a wellfield zone New stormwater retention and detention treatment methods may
- development The absence of gravity sanitary sewer facilities may limit potential
- Existing sewer mains are approximately 30 years old
- Existing water mains date back to the 1980s and are most likely constructed out of cast iron
- Existing 6"-8" water mains must be carefully considered
- carefully considered Locations of existing sewer, stormwater and water mains must be
- and approval for utility crossings The Florida East Coast Railway right-of-way will require coordination

ASSETS / OPPORTUNITIES:

- Infrastructure improvements may be implemented
- The City's adopted Capital Improvement Plan allocates \$21,532,360 for water and wastewater and stormwater improvements
- Water main replacements correlate with the City's goals
- Upsizing of the water supply system will the future provide more capacity for
- Evaluate irrigation systems or wells and consider possible reuse
- Construction of a **new sewer system** will encourage development
- beneficial for future development Interconnection of the 16-inch sanitary sewer force main would be
- A sanitary sewer force main extension would be beneficial to the
- Stormwater system improvements can pipes, adding retention areas, and implementation of exfiltration redevelopment be made by upsizing of
- New sustainable design methods will all water quality so continue improving the
- Additional landscape/greenspace areas improve stormwater quality and reducing paving will

INFRASTRUCTURE ANALYSIS: DIXIE HIGHWAY





CONSTRAINTS / CHALLENGES:

- Franchise utility duct banks (FPL and ATT) along the corridors must be carefully considered
- Existing water supply wells will have to be carefully protected with setbacks
- Stormwater facilities along Atlantic Boulevard may be located within a wellfield zone
- New **stormwater retention and detention** treatment methods may not be permitted in a wellfield zone

 The absence of **crewity sprittery source facilities** may limit potential.
- The absence of **gravity sanitary sewer facilities** may limit potential development
- Existing sewer mains are approximately 30 years old
- Existing water mains date back to the 1980s and are most likely constructed out of cast iron
- Existing 6"-8" water mains must be carefully considered
- Locations of **existing sewer, stormwater and water mains** must be carefully considered
- The Florida East Coast Railway right-of-way will require coordination and approval for utility crossings

ASSETS / OPPORTUNITIES:

- Infrastructure improvements may be implemented
- The City's adopted **Capital Improvement Plan** allocates \$21,532,360 for water and wastewater and stormwater improvements
- Water main replacements correlate with the City's goals
- Upsizing of the water supply system will provide more capacity for the future
- Evaluate irrigation systems or wells and consider possible reuse
- Construction of a **new sewer system** will encourage development
- Interconnection of the 16-inch sanitary sewer force main would be beneficial for future development
- A sanitary sewer force main extension would be beneficial to the redevelopment
- redevelopment

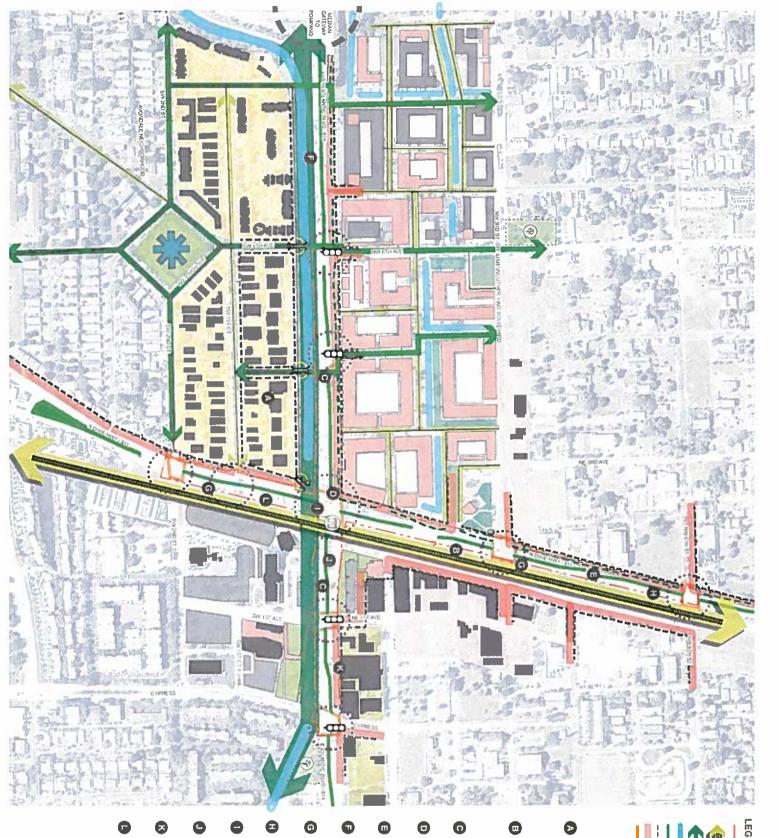
 Stormwater system improvements can be made by upsizing of pipes, adding retention areas, and implementation of exfiltration

New sustainable design methods will also continue improving the

water quality

 Additional landscape/greenspace areas and reducing paving will improve stormwater quality

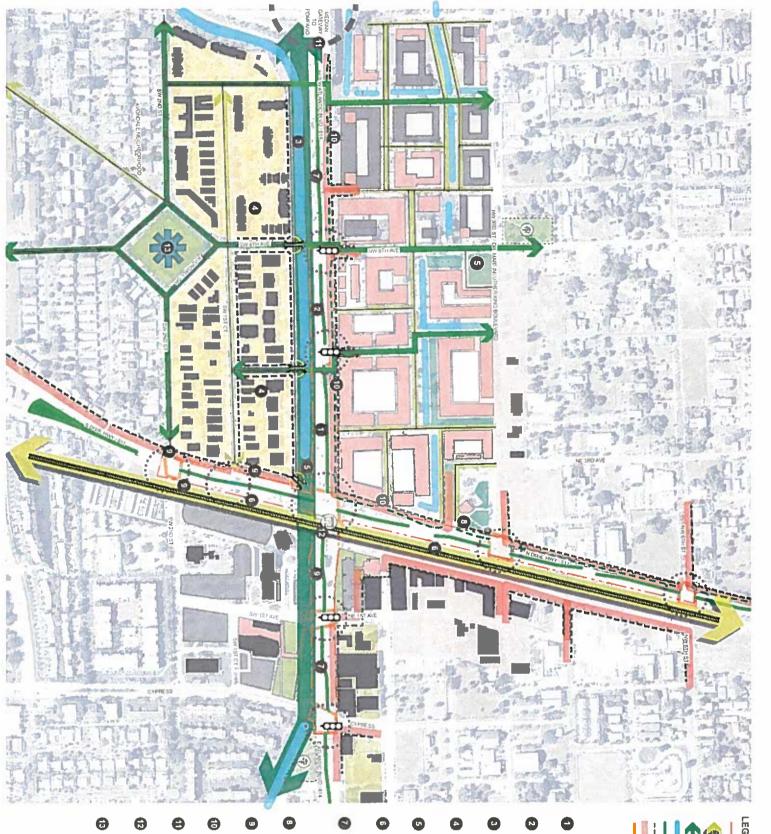
SITE ANALYSIS: CONSTRAINTS





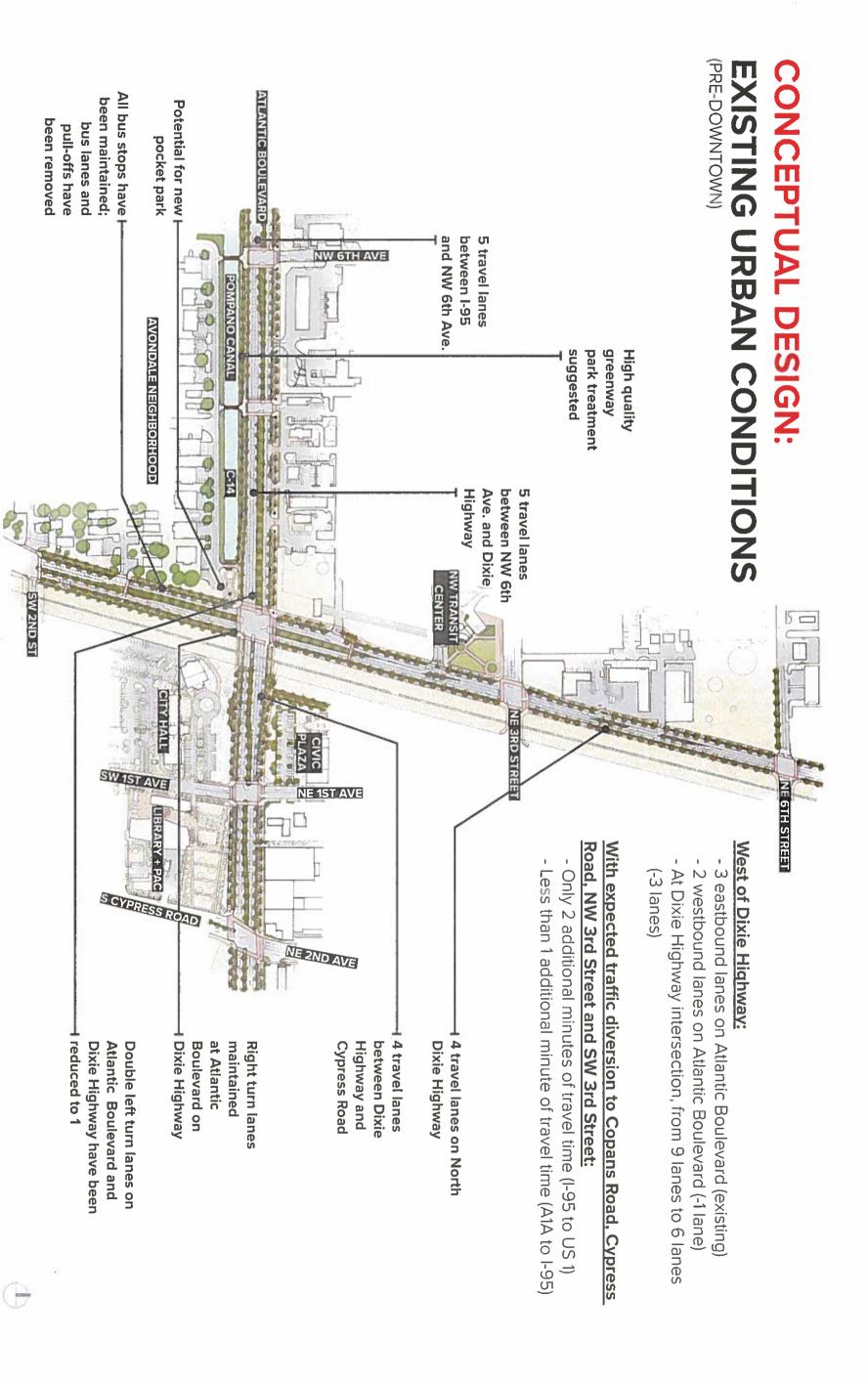
- Lack of pedestrian connections from the Avondale neighborhood to Atlantic Boulevard
- Lack of continuous walkway linkages along the east side of Dixie Highway
- Bus and bike route crossing conflicts
- Cantilevered traffic directional signage over walkways
- Dedicated left turn lanes for transit center and private uses
- Canal wall and revetment on south side of Atlantic Boulevard
- Railing barriers along Dixie Highway
- Right-of-way width limitations
- Lack of pedestrian crossing refuges
- Excessive travel lane and turn lane requirements
- One sided street lighting
- Narrow sidewalk widths

SITE ANALYSIS: OPPORTUNITIES

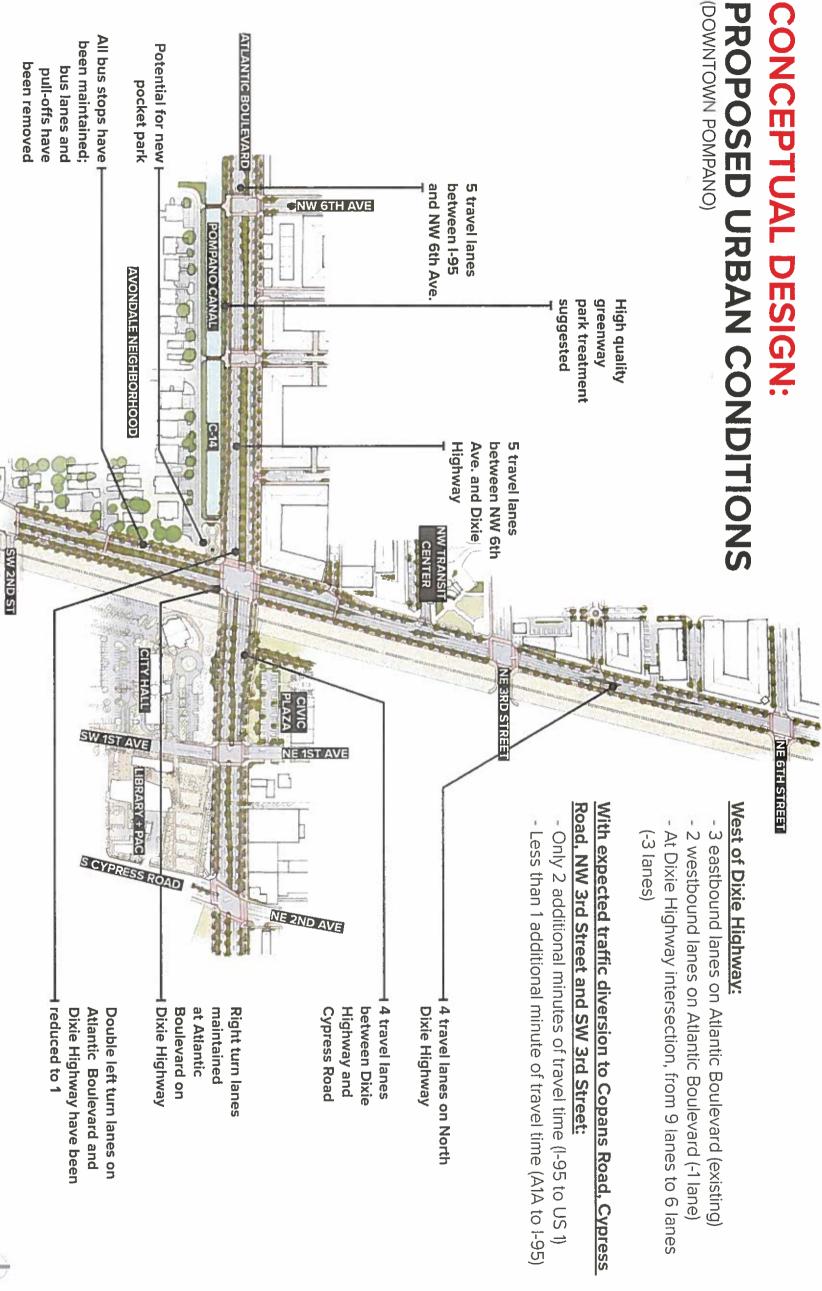




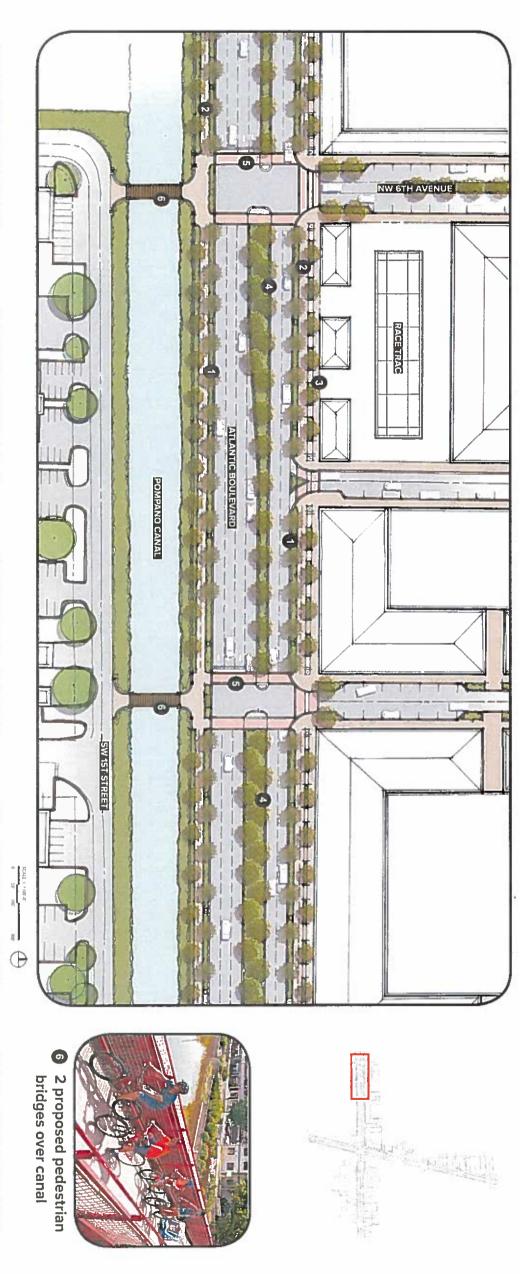
- Reduction in number of travel lanes on Atlantic Boulevard
- Reduction in lane widths to minimums
- Pompano Canal (C-14) greenway opportunity
- Expand pedestrian connectivity to Avondale neighborhood
- Pocket park opportunity
- FEC edge greenway opportunity
- Continuous & widened landscape medians / pedestrian refuges
- Consider left turn lane access
- Gateway transit stops
- Office mixed-use district promenade opportunity
- "Welcome to Pompano Beach" gateway
- Railway signal gateway portal
- Avondale neighborhood focal point







CONCEPTUAL DESIGN: ATLANTIC BOULEVARD







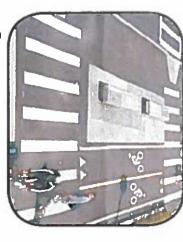
10-12 foot multi-use pedestrian and bike cultural trail



) 6-8 foot urban walkway

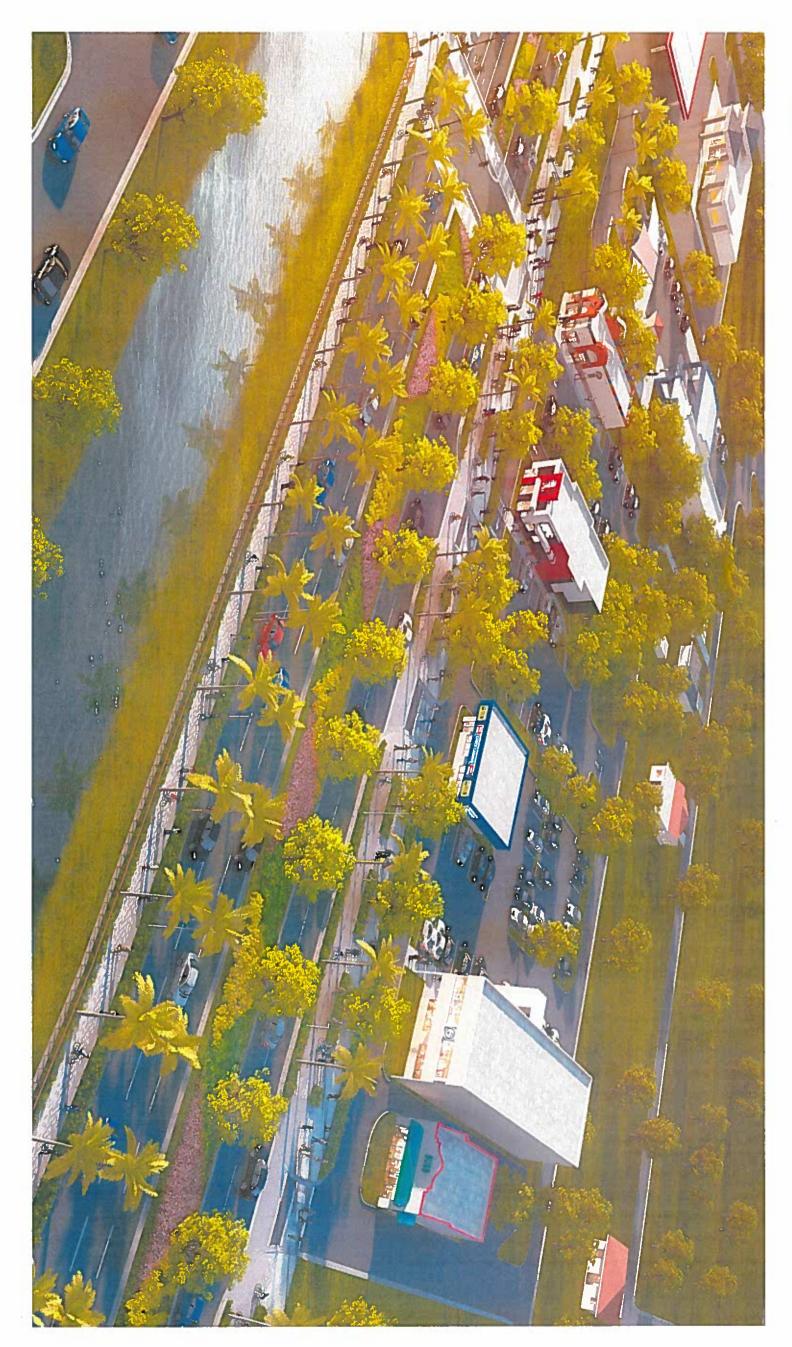


10-14 foot widened landscape medians

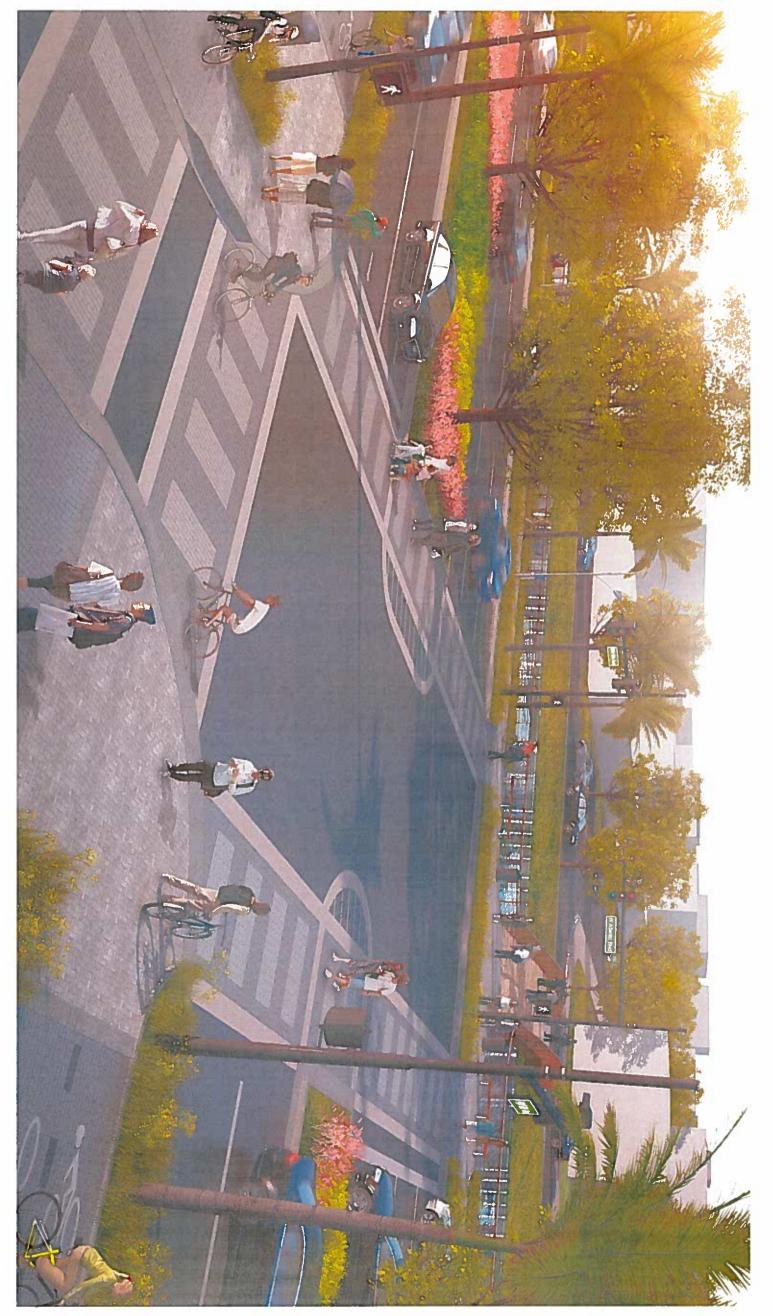


S Newly defined crosswalks for cyclists and pedestrians

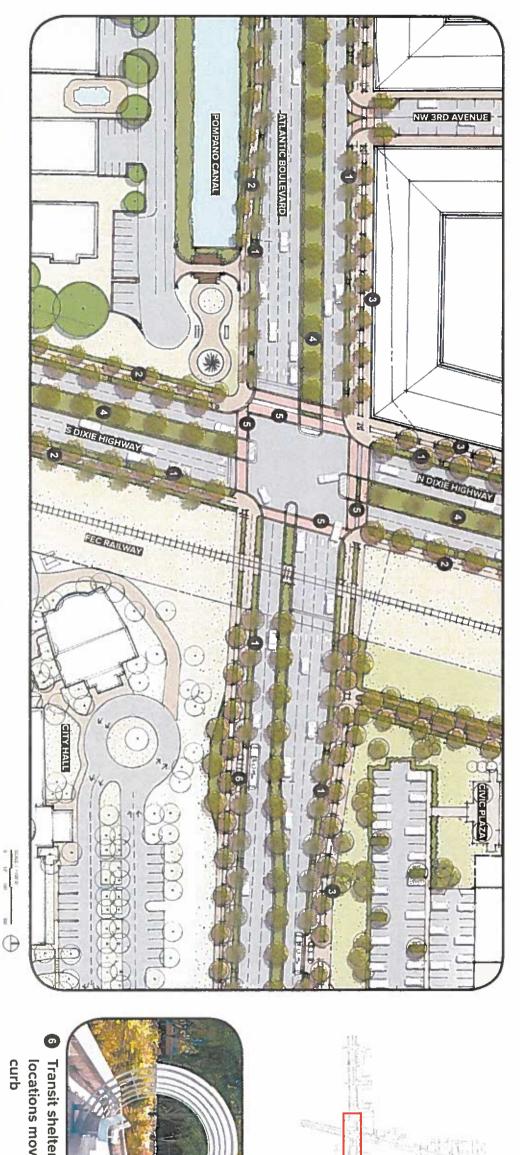
CONCEPTUAL DESIGN: WEST ATLANTIC BOULEVARD



CONCEPTUAL DESIGN: WEST ATLANTIC BOULEVARD



CONCEPTUAL DESIGN: NORTH DIXIE HIGHWAY







10-12 foot multi-use pedestrian and bike cultural trail



6-8 foot urban walkway



landscape medians 10-14 foot widened

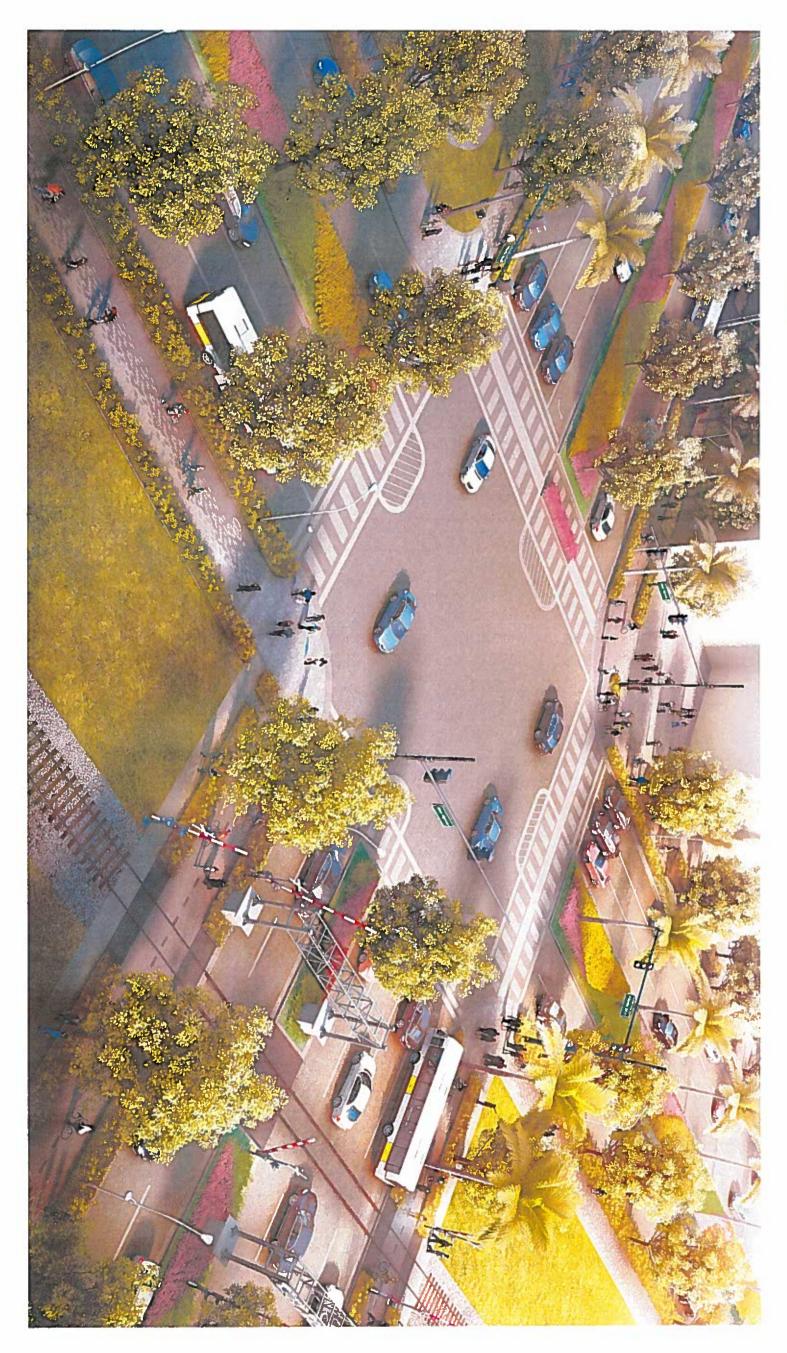


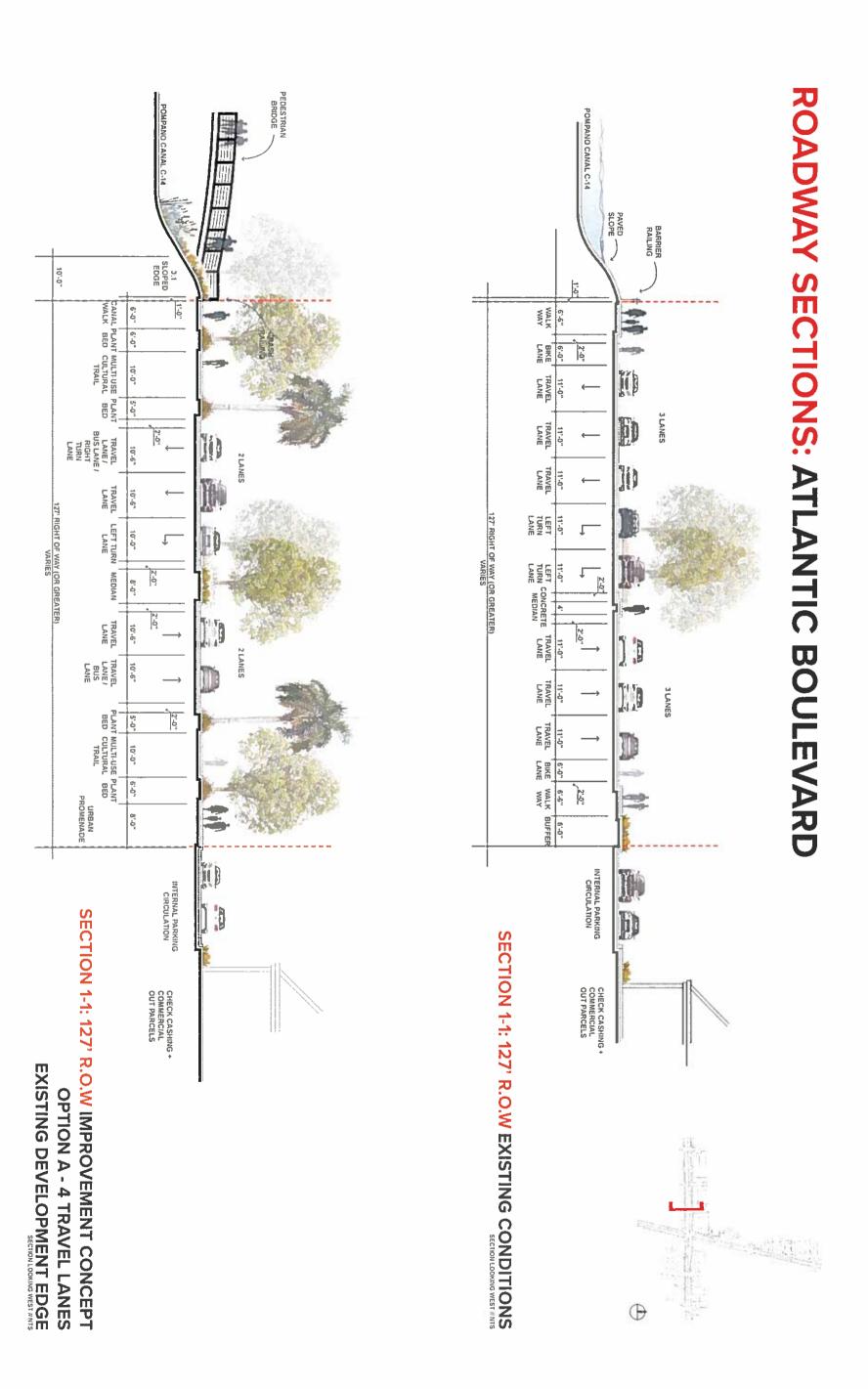
locations moved to Transit shelter curb

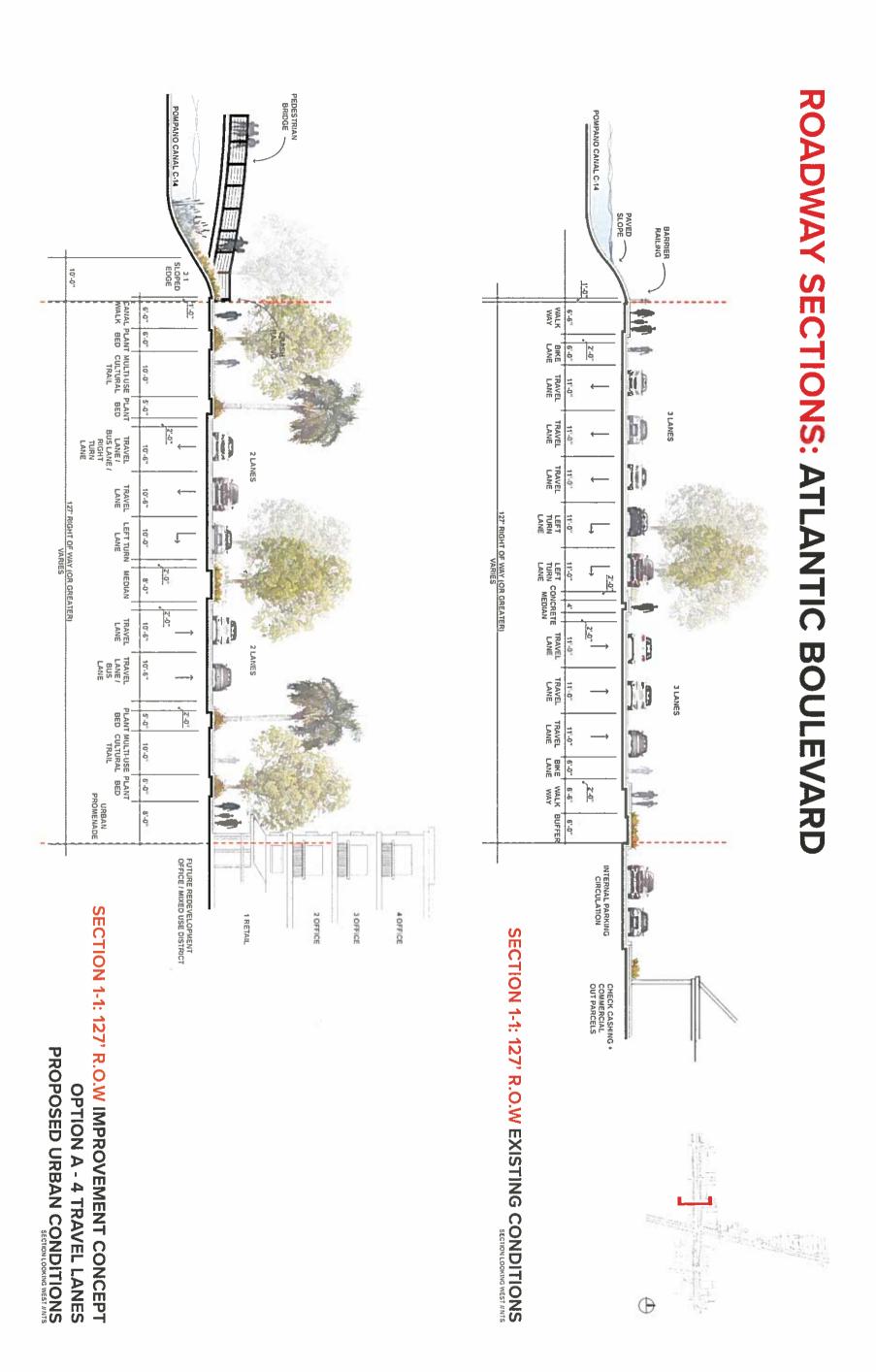


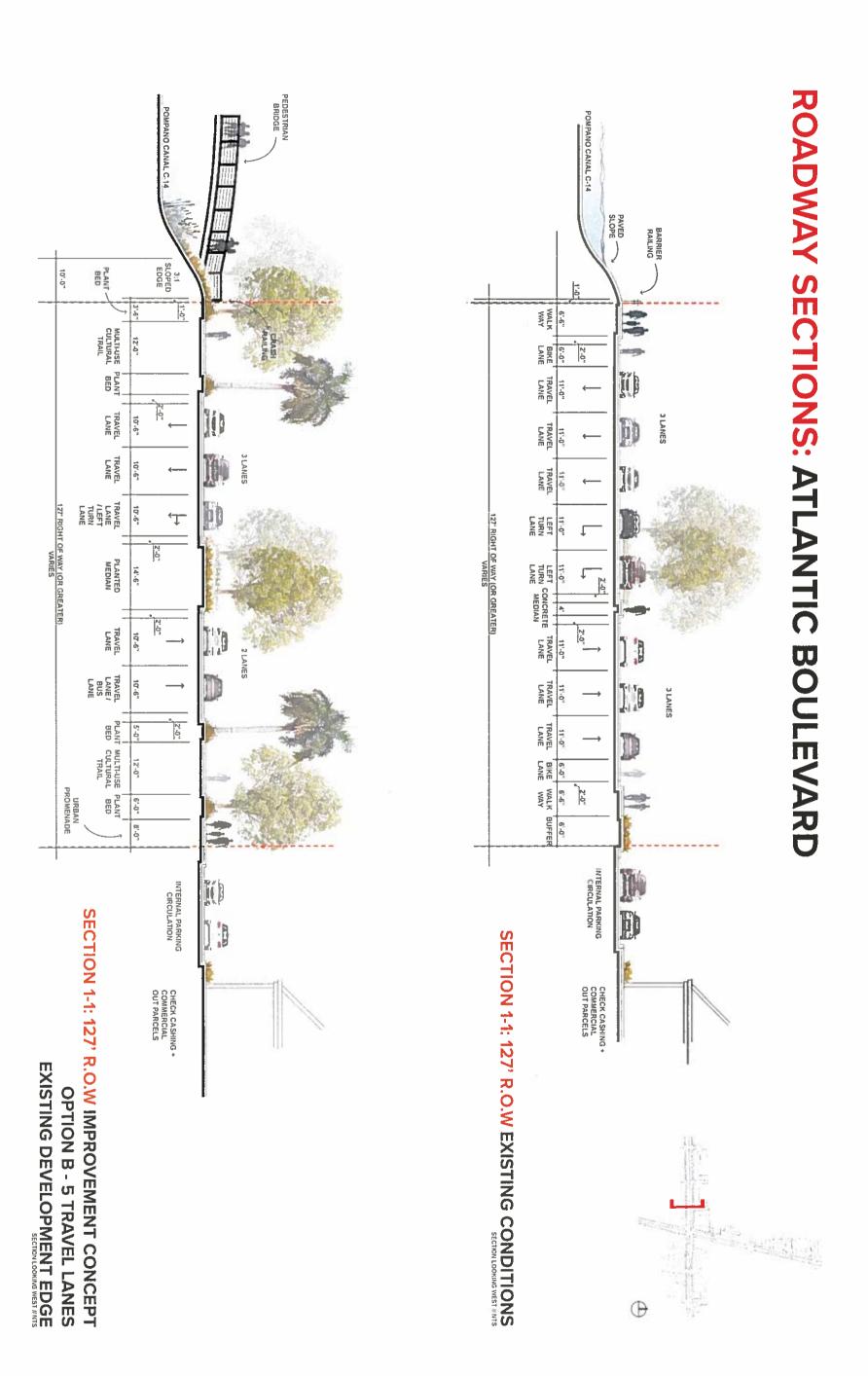
S Newly defined and pedestrians crosswalks for cyclists

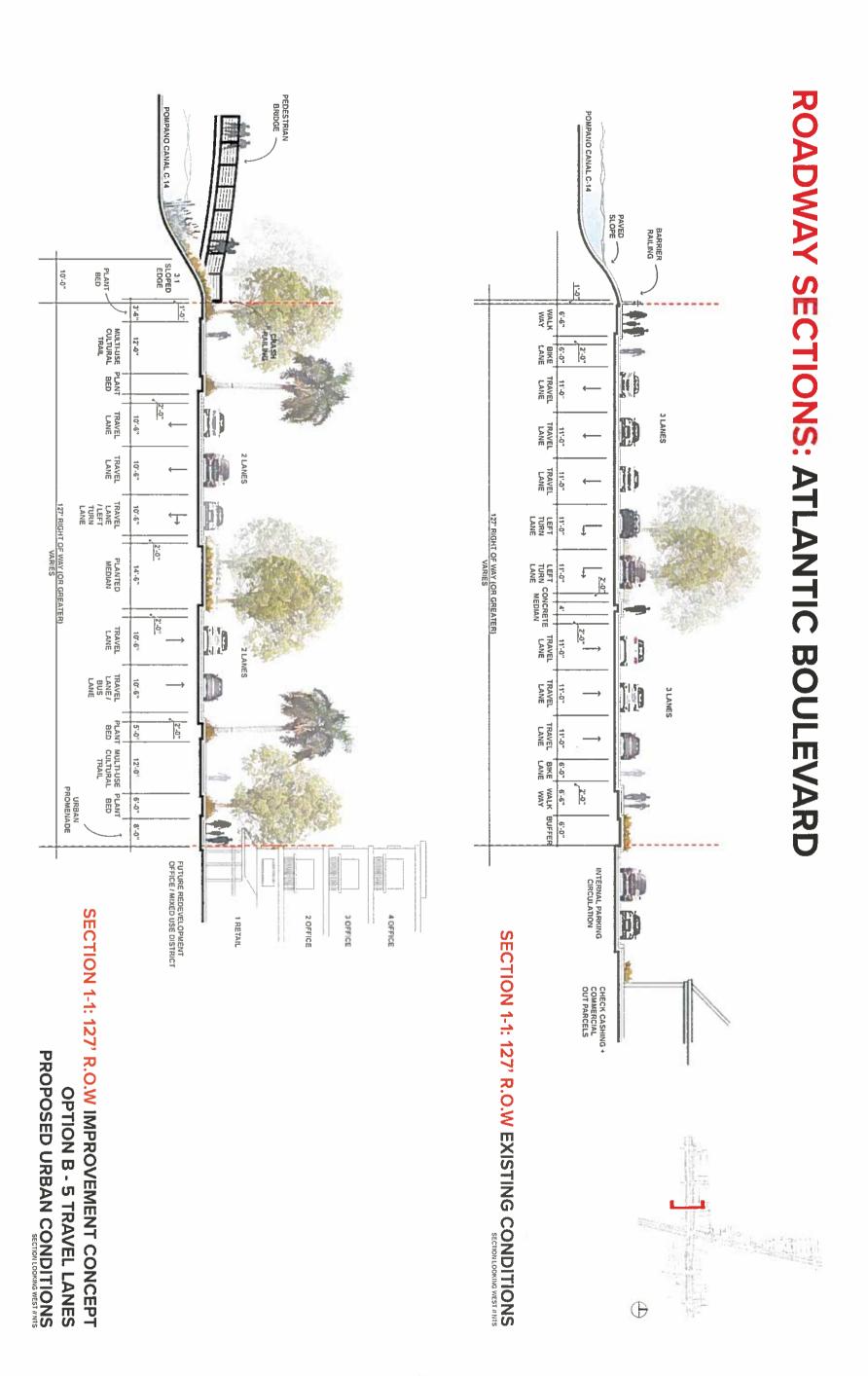
CONCEPTUAL DESIGN: ATLANTIC BOULEVARD + DIXIE HIGI



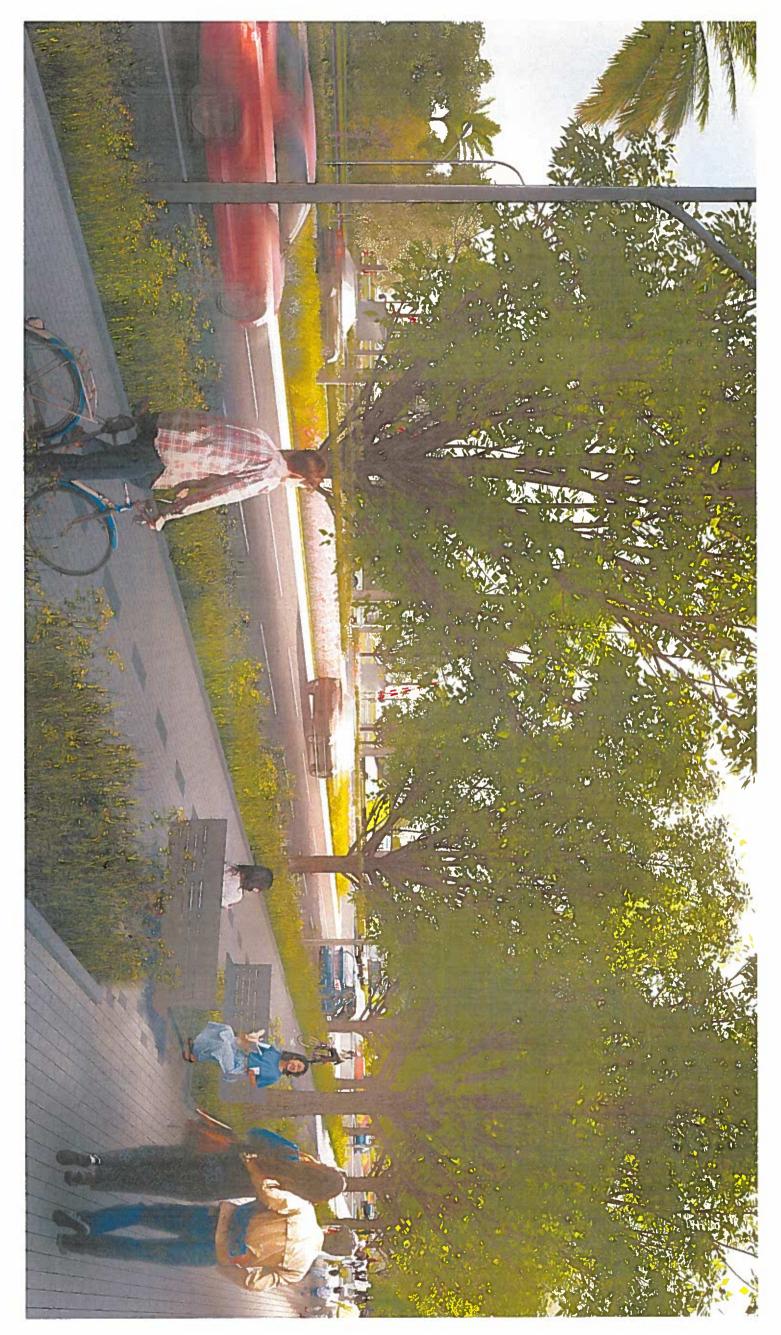




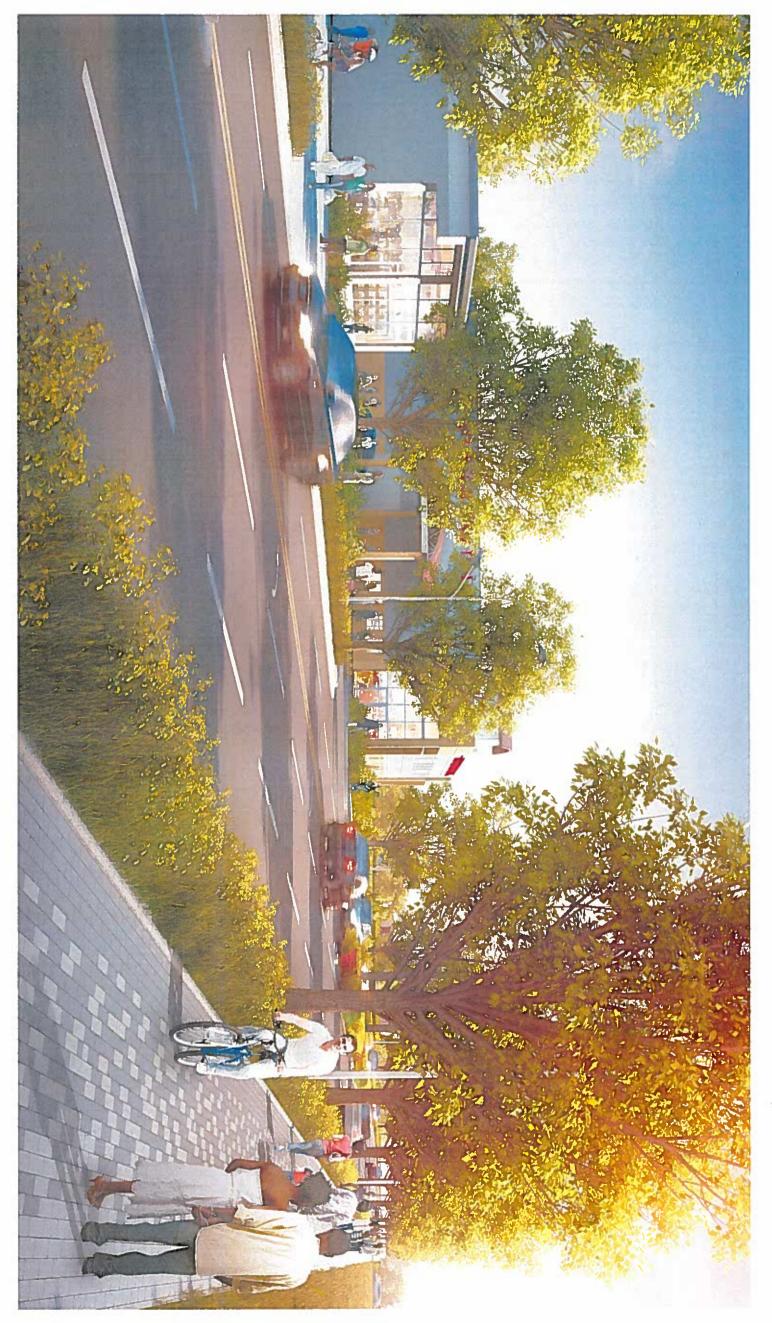


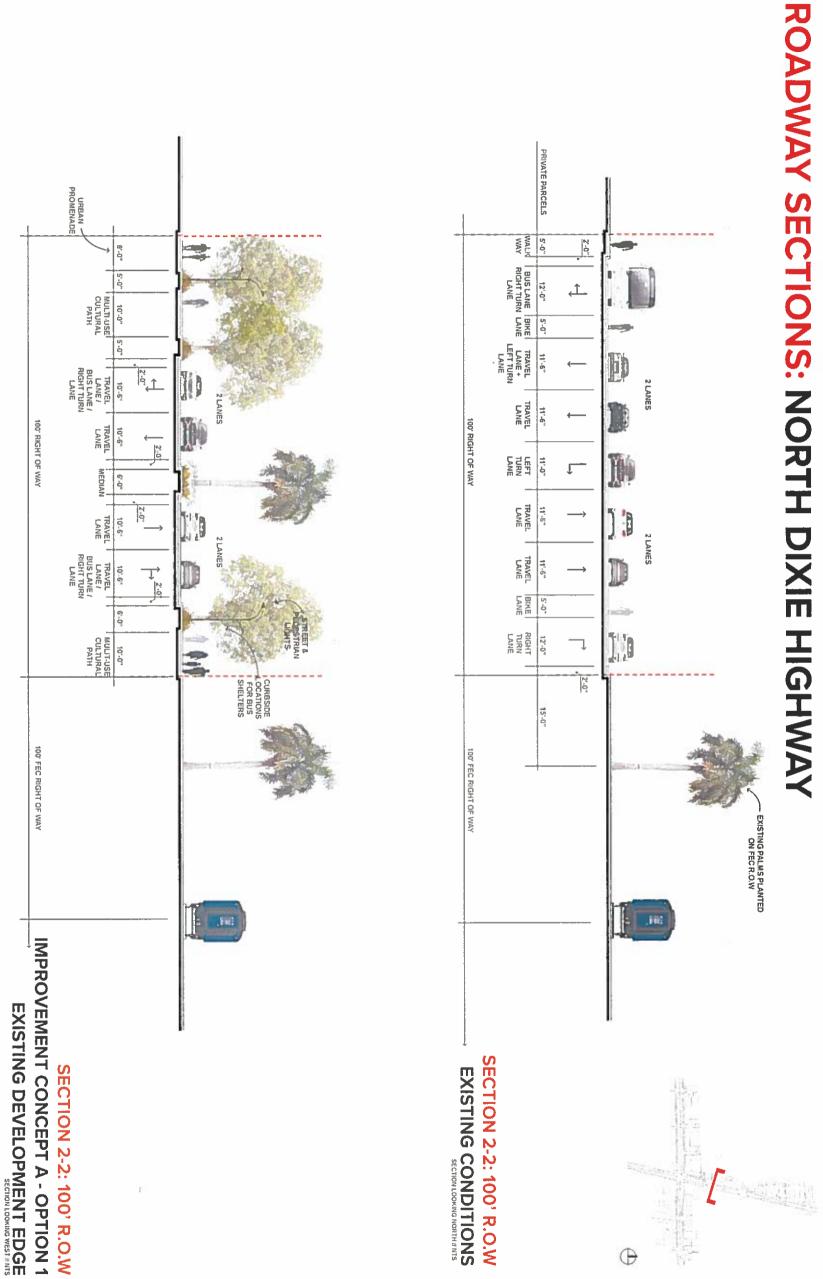


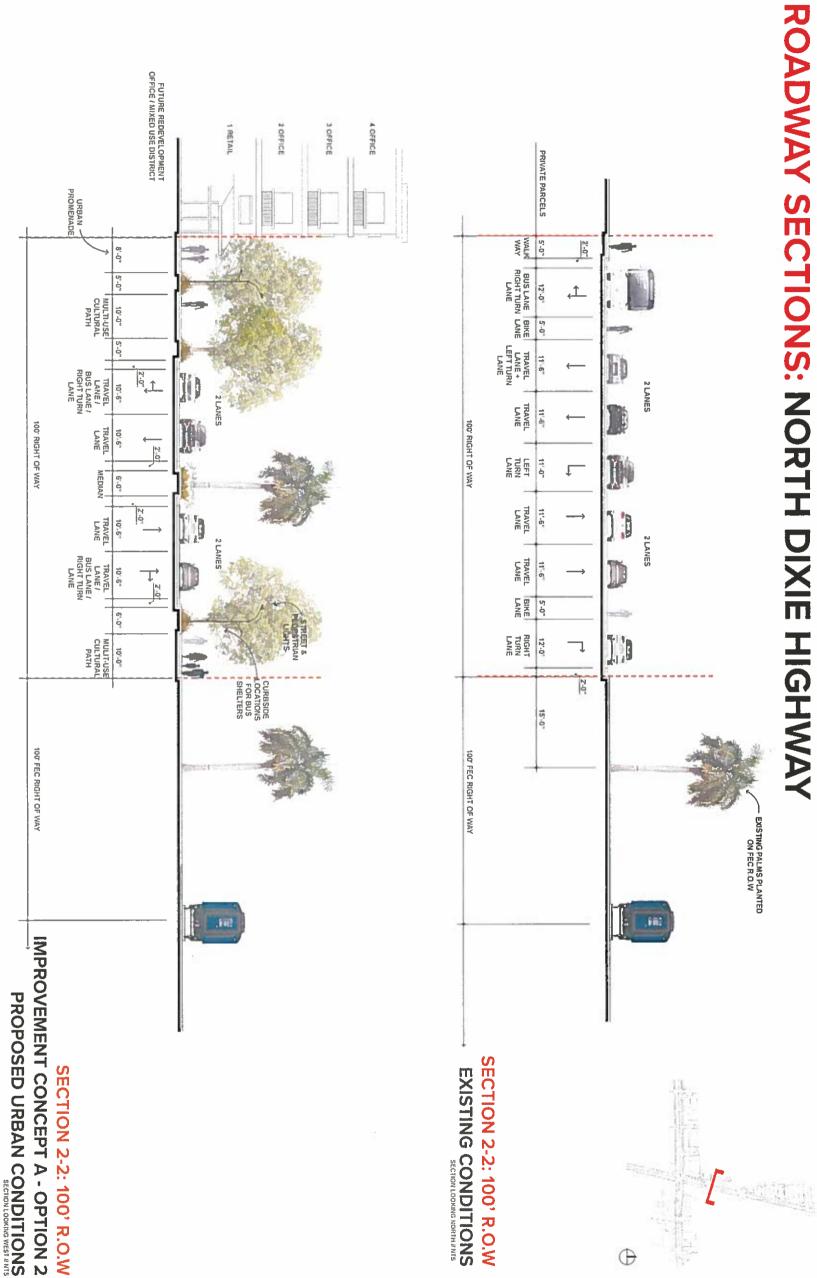
CONCEPTUAL DESIGN: NORTH DIXIE HIGHWAY

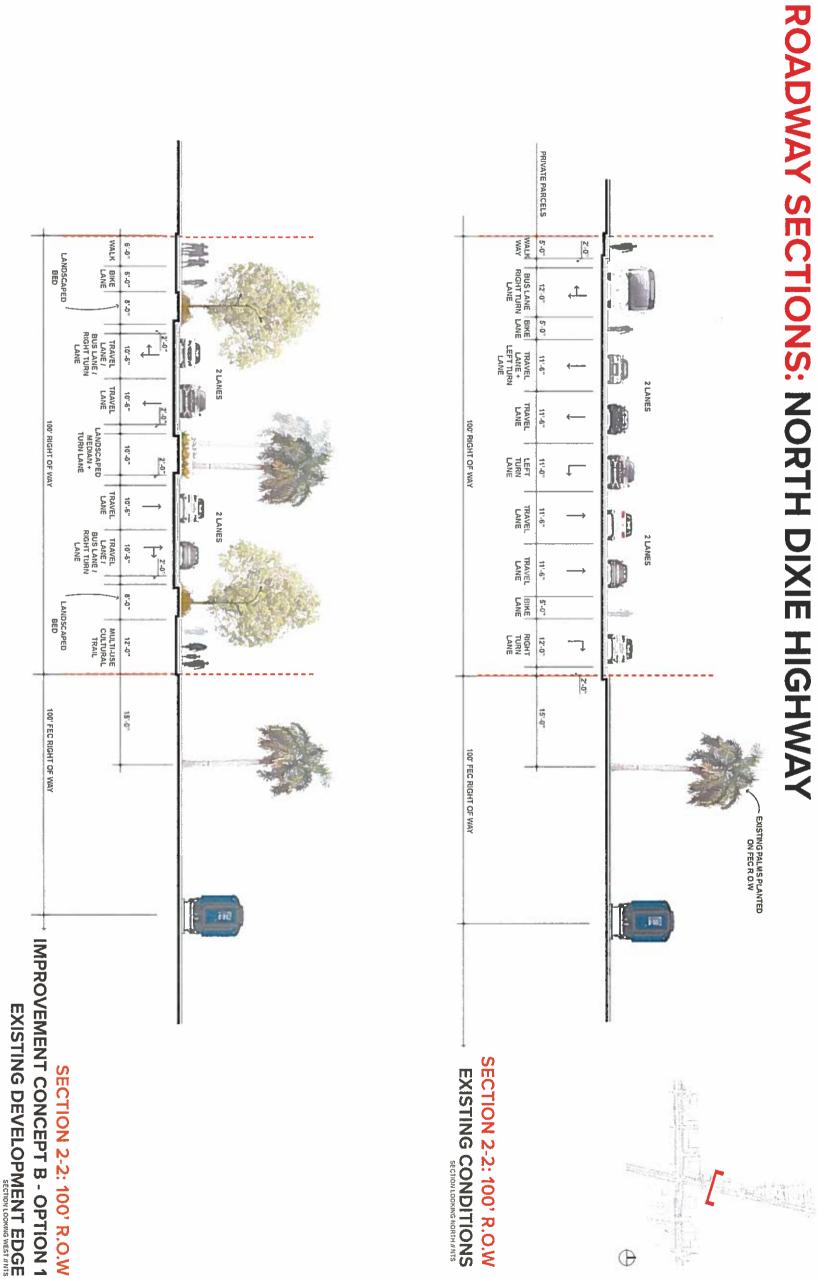


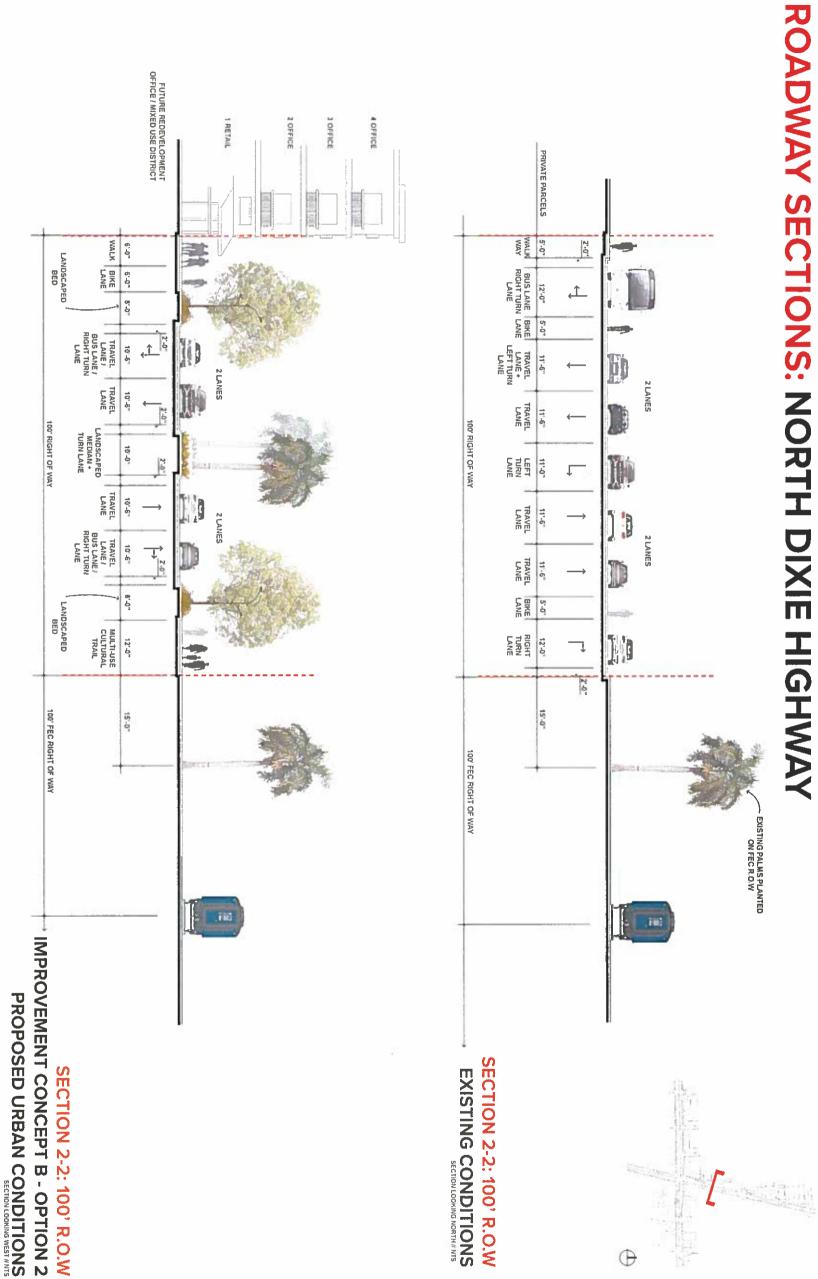
CONCEPTUAL DESIGN: NORTH DIXIE HIGHWAY



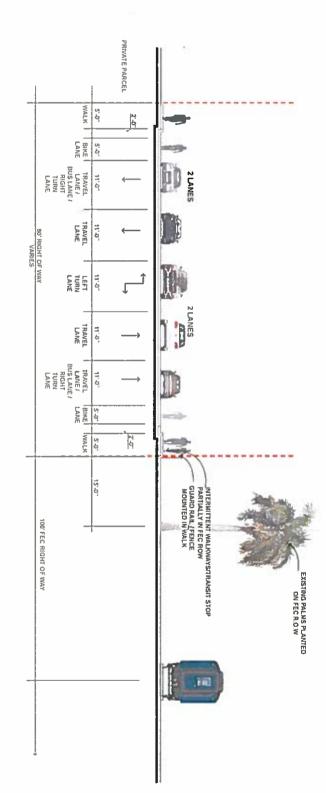






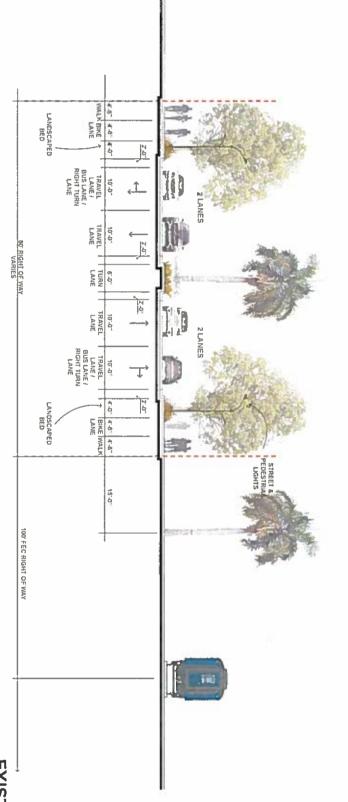


ROADWAY SECTIONS: NORTH DIXIE HIGHWAY





SECTION 3-3: 80' R.O.W EXISTING CONDITIONS

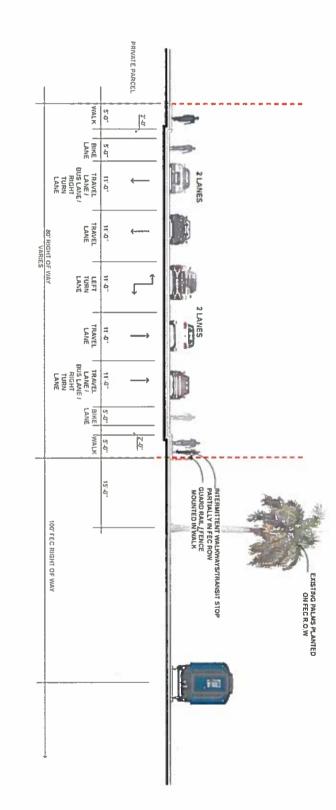


SECTION 3-3: 80' R.O.W

IMPROVEMENT CONCEPT

EXISTING DEVELOPMENT EDGE
SECTION LOOKING WEST ANTS

ROADWAY SECTIONS: NORTH DIXIE HIGHWAY





EXISTING CONDITIONS
SECTION LOOKING NORTH # 1/1/15

PROPOSED URBAN DEVELOPMENT IMPROVEMENT CONCEPT **SECTION 3-3: 80' R.O.W** WALK BIKE T

TRAVEL LANE!
BUS LANE!
RIGHT TURN
LANE

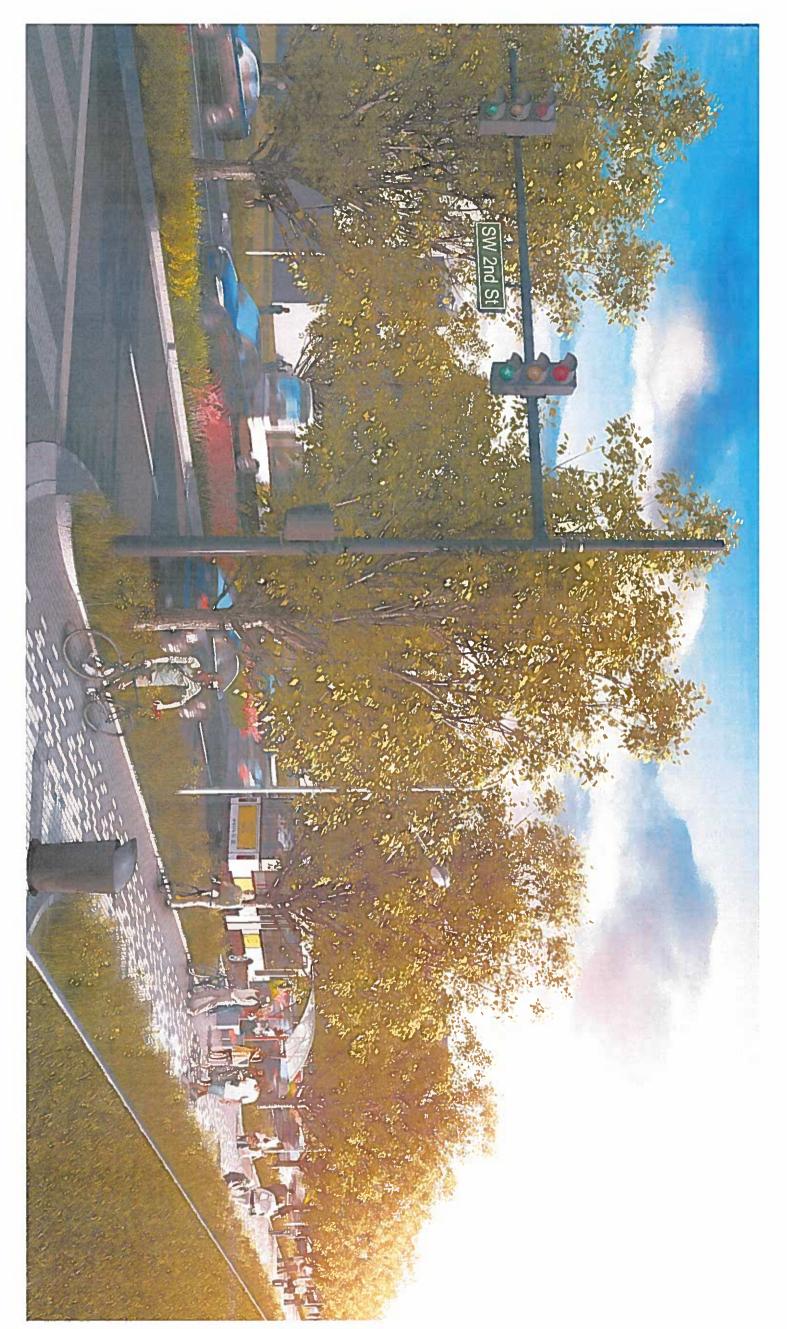
10:0" (6:0" 10:0"

TRAVEL TURN TRAVEL

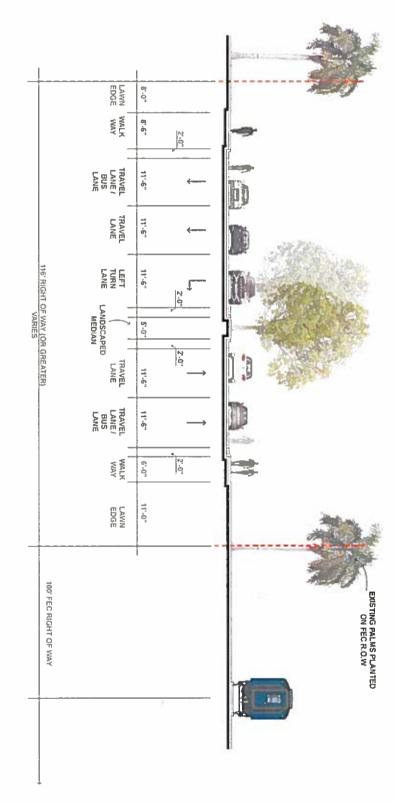
LANE LANE LANE

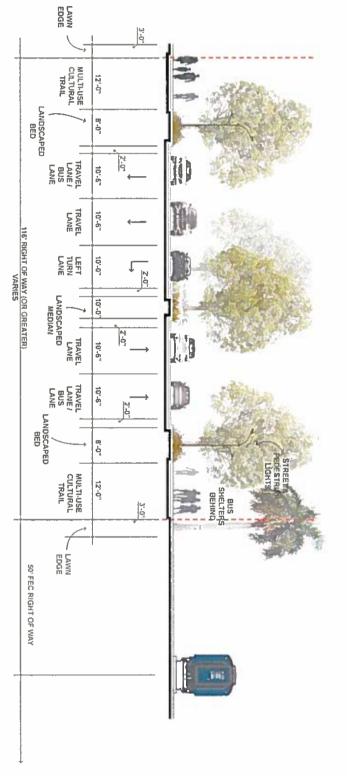
BIKE WALK

CONCEPTUAL DESIGN: SOUTH DIXIE HIGHWAY



ROADWAY SECTIONS: SOUTH DIXIE HIGHWAY





SECTION 4-4: 116' R.O.W EXISTING CONDITIONS

SECTION 4-4: 116' R.O.W IMPROVEMENT CONCEPT
SECTION LOOKING WEST INITS

NEXT STEPS:





