

SR 515 Northeast Connector Expressway Phase 2 Project Development & Environment (PD&E) Study

Community Engagement Group

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Sunserea Gates, PE, VHB

— January 29, 2025 —

Title VI Compliance

This meeting, project, or study is being conducted without regard to race, color, national origin, age, sex, religion, disability or family status. Persons wishing to express their concerns relative to compliance by the Central Florida Expressway Authority (CFX) with Title VI may do so by contacting:

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All inquiries or complaints will be handled according to CFX procedure and in a prompt and courteous manner.

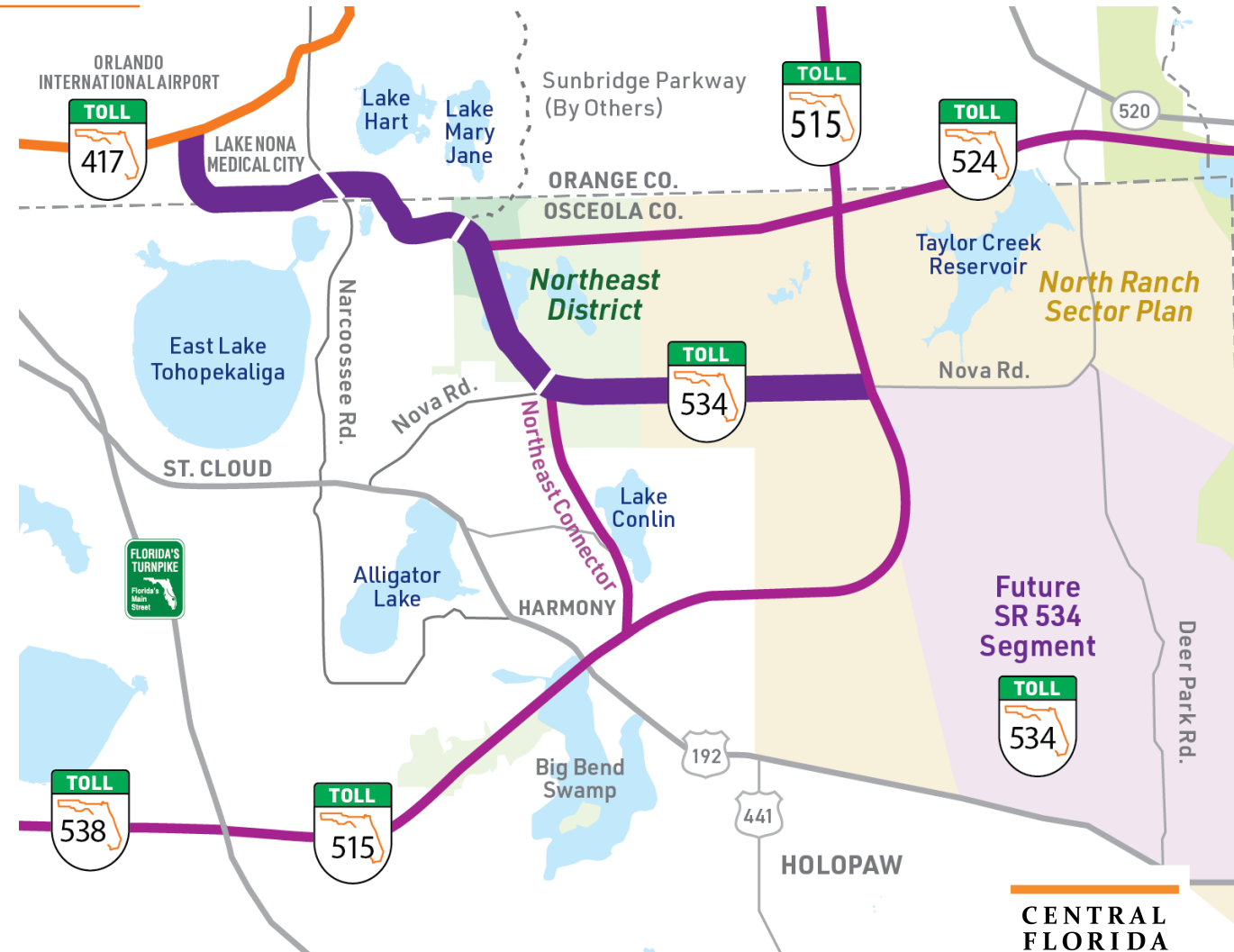
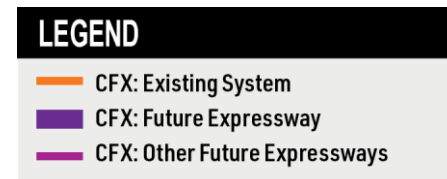
CFX 2045 Master Plan

CFX 2045 Master Plan regional beltway includes SR 515

Begins at Florida's Turnpike

Continues northeast to serve as regional beltway in eastern Osceola County

Includes Northeast Connector between US 192 and SR 534 extension

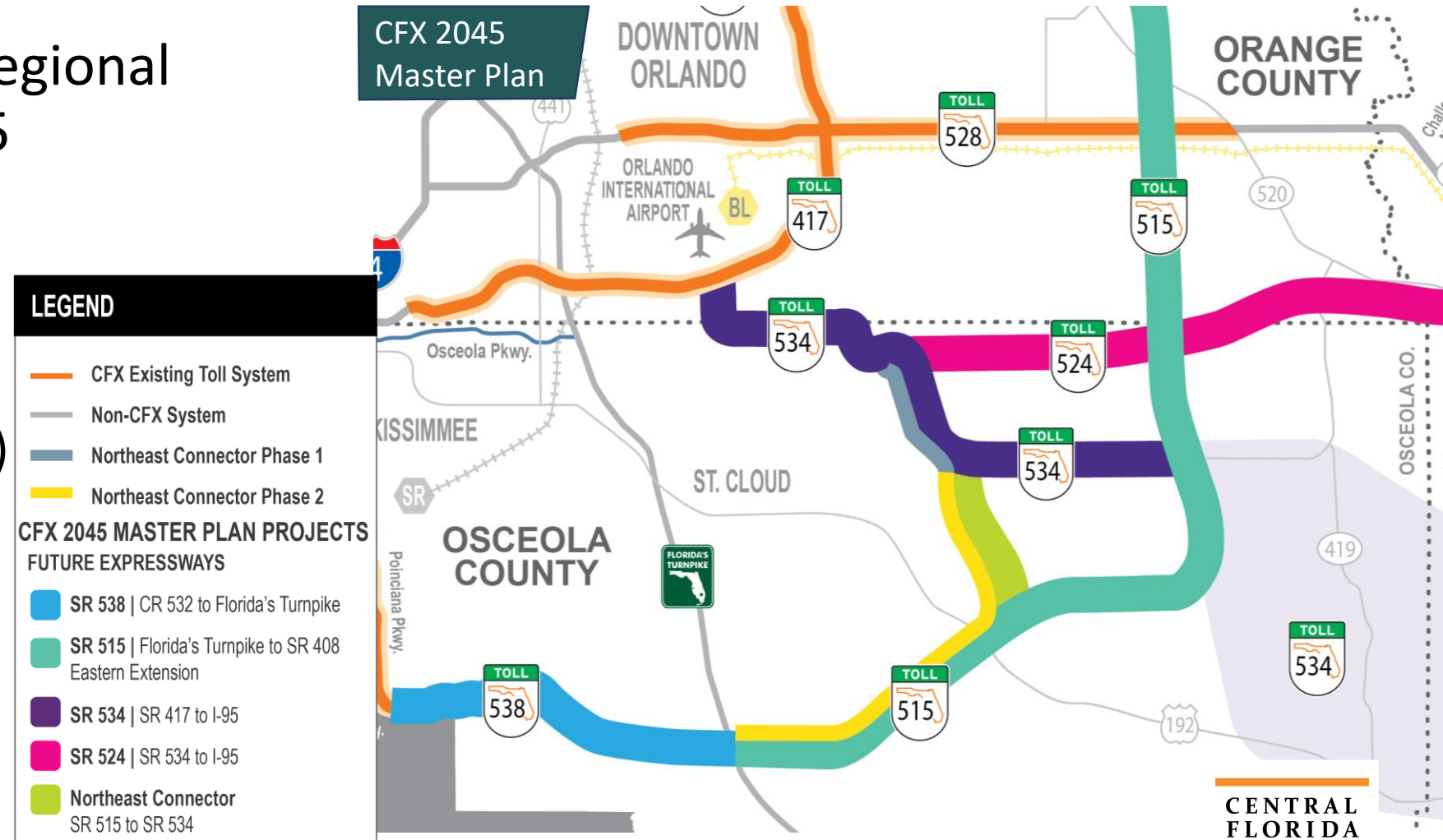


Background

CFX 2045 Master Plan regional beltway includes SR 515

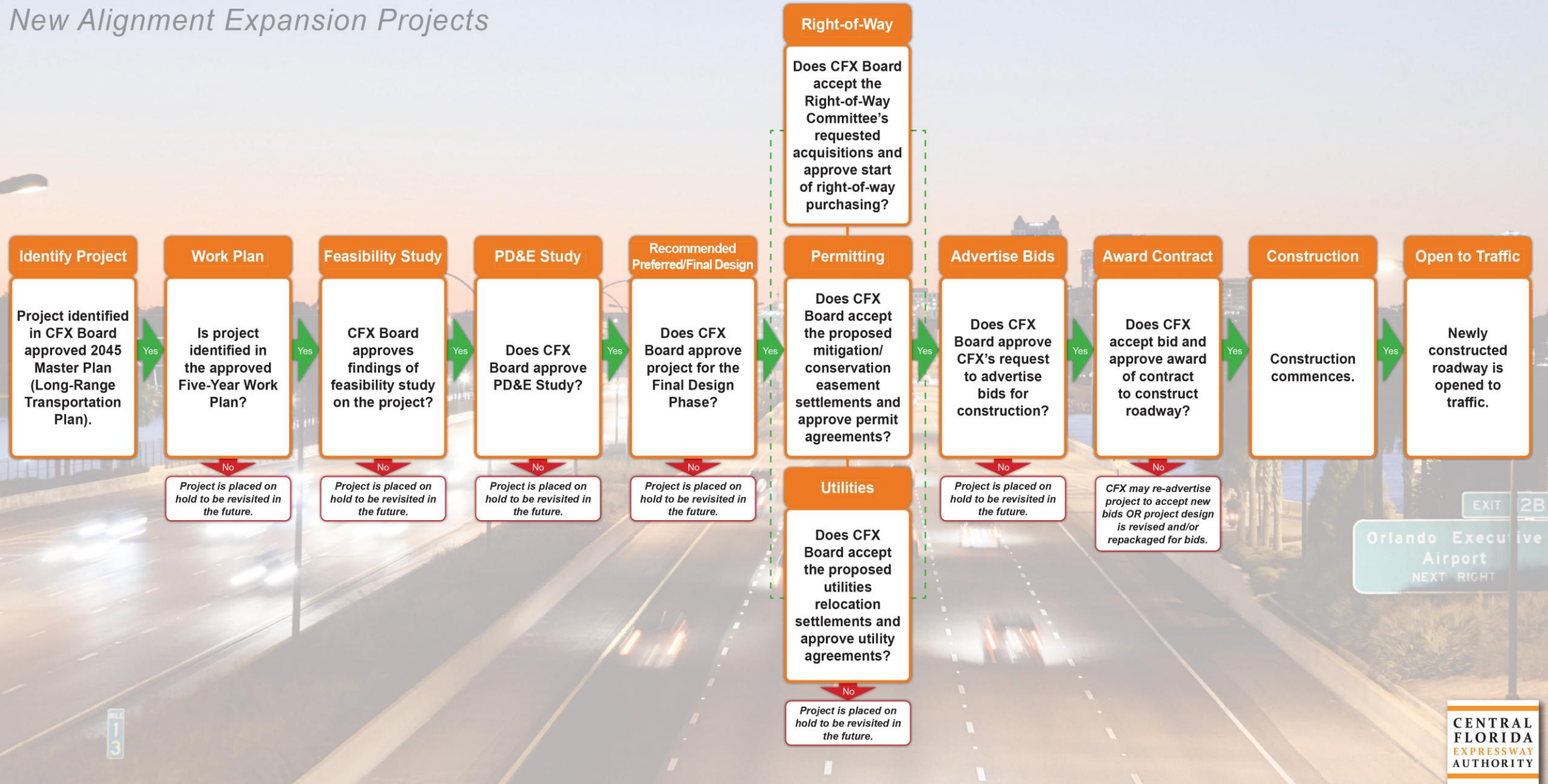
CFX system linkage:

- SR 538
(Southport Connector)
- Florida's Turnpike
- US 192
- SR 534

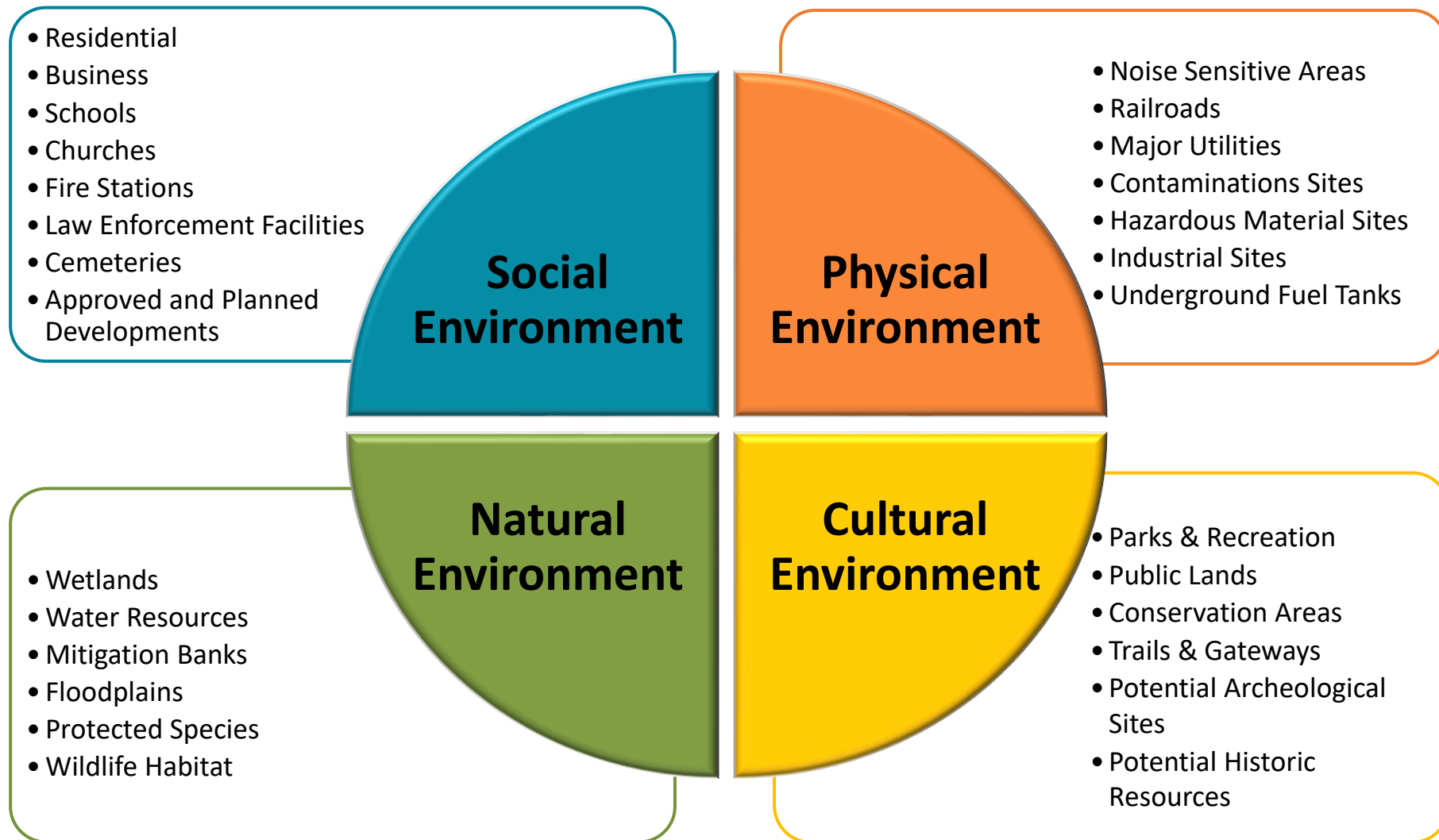


PROJECT DEVELOPMENT PROCESS

New Alignment Expansion Projects



PD&E Evaluation Criteria



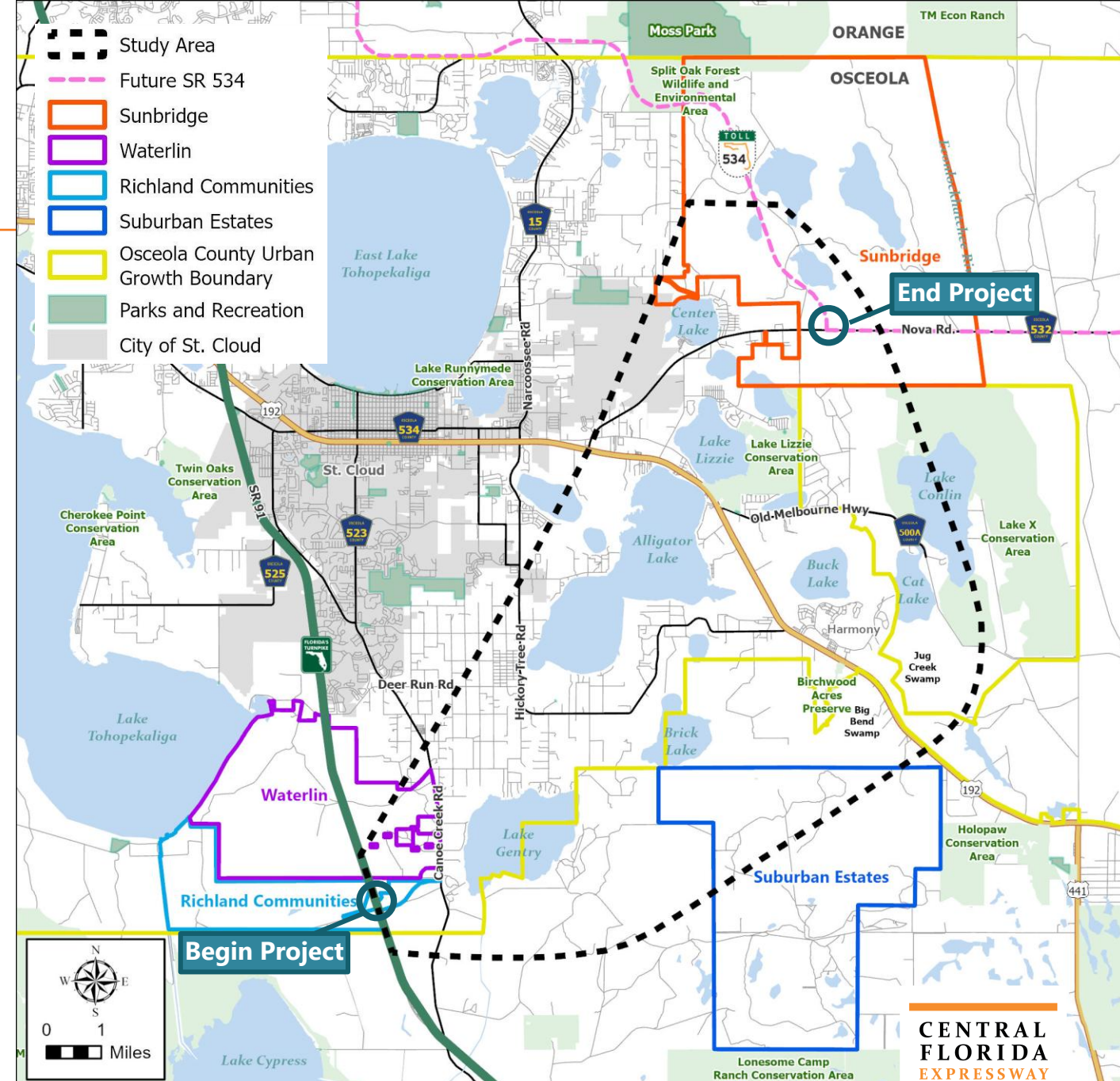
Study Area

15- to 20-mile expressway

Southwest terminus at proposed Southport Connector Expressway/ Florida's Turnpike

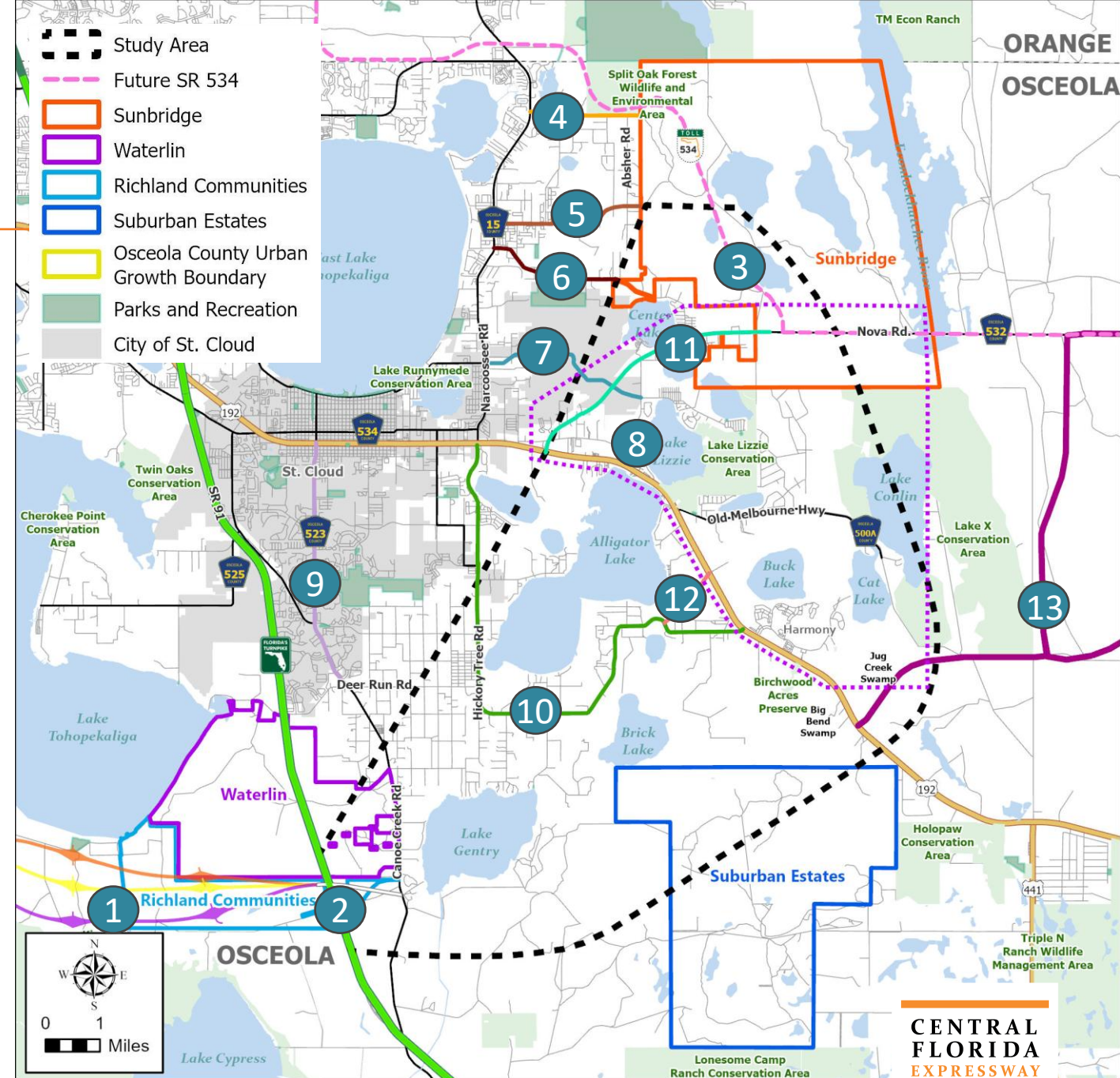
Northern terminus is SR 534 at Nova Road

Full interchange at US 192



Related Projects

- 1 Southport Connector Expressway
- 2 Florida's Turnpike Widening
- 3 SR 534
- 4 Cyrils Drive Improvements
- 5 Jack Brack Road Improvements
- 6 Jones Road Widening
- 7 Bass Highway/Nova Connector New Roadway
- 8 Sunbridge Parkway Extension Study Area
- 9 Canoe Creek Road PD&E
- 10 Hickory Tree Road PD&E
- 11 Nova Road PD&E
- 12 Botanic Boulevard New Roadway
- 13 Northeast Connector Expressway Extension (NECEE)



Purpose and Need

Osceola Transportation Southeast Area Transportation Study (SEATS):

- NEC needed by 2040

Population Growth:

- 3.6% recent annual growth
- Projected to increase by 37% by 2050

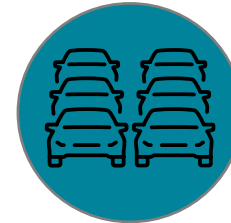
Planned Development:

- 12 Mixed-Use Districts
- 30 more Planned Developments

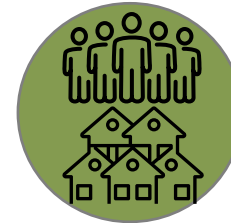
US 192 only existing east-west corridor



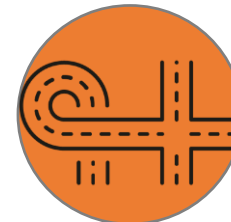
Provides System Linkage



Addresses Anticipated Future Traffic Needs



Supports Socioeconomic Growth and Planned Development



Provides Additional East-West Regional Connectivity

Advisory Group Input

- Emphasis on preserving natural resources, including Florida Wildlife Corridor and Florida Forever Lands, wetlands, and conservation
- Concerns for high impacts to existing and planned residential areas and neighborhoods
- Need to investigate opportunities for wildlife crossings and habitat connectivity
- Concerns for potential impacts on drainage, floodplains and wetland connectivity
- Suggestion to consider future expansion and multimodal transportation options
- Desire to avoid growth outside Urban Growth Boundary
- Expressed importance of continued coordination with related projects in the area



Other Stakeholder Input

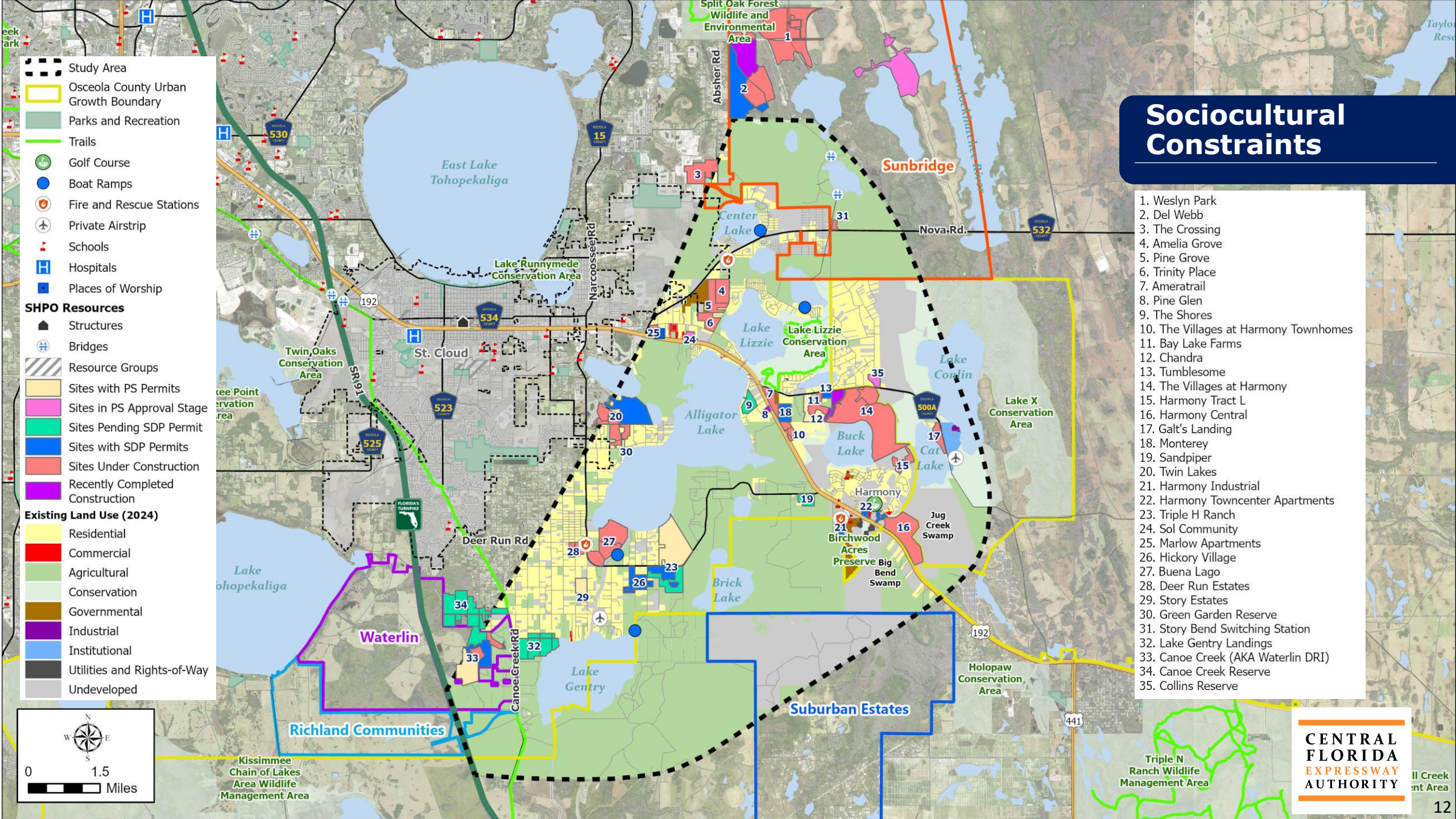
Coordination with:

- ③ Interagency meetings with Osceola County / Florida's Turnpike Enterprise / City of St. Cloud
- ③ Sunbridge Parkway PD&E Study Team
- ④ Meetings with Large Landowners – Tavistock, Deseret Ranch, and Doc Partin Ranch
- ① CFX Environmental Stewardship Committee

Key Input:

- Coordination for systems interchange
- Request to minimize impacts to natural areas
- Consider SFWMD Flood control areas south of Lake Gentry
- Regular coordination needed due to ongoing study area development

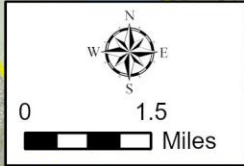




- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Trails
- Golf Course
- Boat Ramps
- Fire and Rescue Stations
- Private Airstrip
- Schools
- Hospitals
- Places of Worship
- SHPO Resources**
- Structures
- Bridges
- Resource Groups
- Sites with PS Permits
- Sites in PS Approval Stage
- Sites Pending SDP Permit
- Sites with SDP Permits
- Sites Under Construction
- Recently Completed Construction
- Existing Land Use (2024)**
- Residential
- Commercial
- Agricultural
- Conservation
- Governmental
- Industrial
- Institutional
- Utilities and Rights-of-Way
- Undeveloped








Sociocultural Constraints

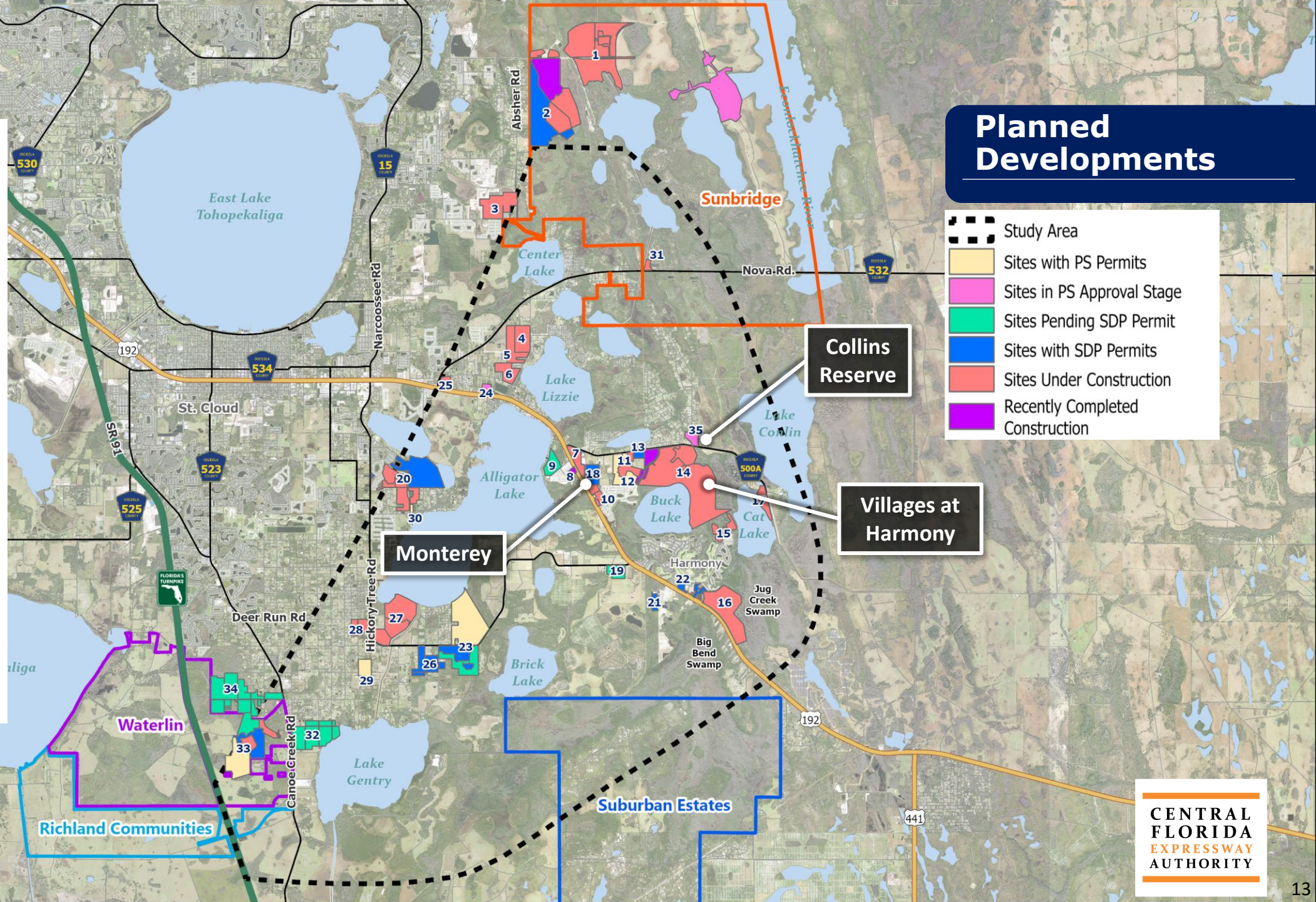
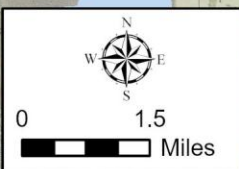
1. Weslyn Park
2. Del Webb
3. The Crossing
4. Amelia Grove
5. Pine Grove
6. Trinity Place
7. Ameratrail
8. Pine Glen
9. The Shores
10. The Villages at Harmony Townhomes
11. Bay Lake Farms
12. Chandra
13. Tumblesome
14. The Villages at Harmony
15. Harmony Tract L
16. Harmony Central
17. Galt's Landing
18. Monterey
19. Sandpiper
20. Twin Lakes
21. Harmony Industrial
22. Harmony Towncenter Apartments
23. Triple H Ranch
24. Sol Community
25. Marlow Apartments
26. Hickory Village
27. Buena Lago
28. Deer Run Estates
29. Story Estates
30. Green Garden Reserve
31. Story Bend Switching Station
32. Lake Gentry Landings
33. Canoe Creek (AKA Waterlin DRI)
34. Canoe Creek Reserve
35. Collins Reserve



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Planned Developments

-  Study Area
-  Sites with PS Permits
-  Sites in PS Approval Stage
-  Sites Pending SDP Permit
-  Sites with SDP Permits
-  Sites Under Construction
-  Recently Completed Construction



Nova Rd.

Conservation Areas

- Study Area
- Osceola County Urban Growth Boundary
- Water Management District Boundaries
- Parks and Recreation
- Public Lands and Conservation Areas
- Conservation Easements
- Mitigation Bank Holdings
- Existing Land Use (2024)**
 - Residential
- Planned Developments**
 - Sites with PS Permits
 - Sites in PS Approval Stage
 - Sites Pending SDP Permit
 - Sites with SDP Permits
 - Sites Under Construction
 - Recently Completed Construction

Lake Lizzie
Conservation Area

Lake Conlin

Lake X
Conservation Area

Buck Lake

Cat Lake

Birchwood
Acres
Preserve

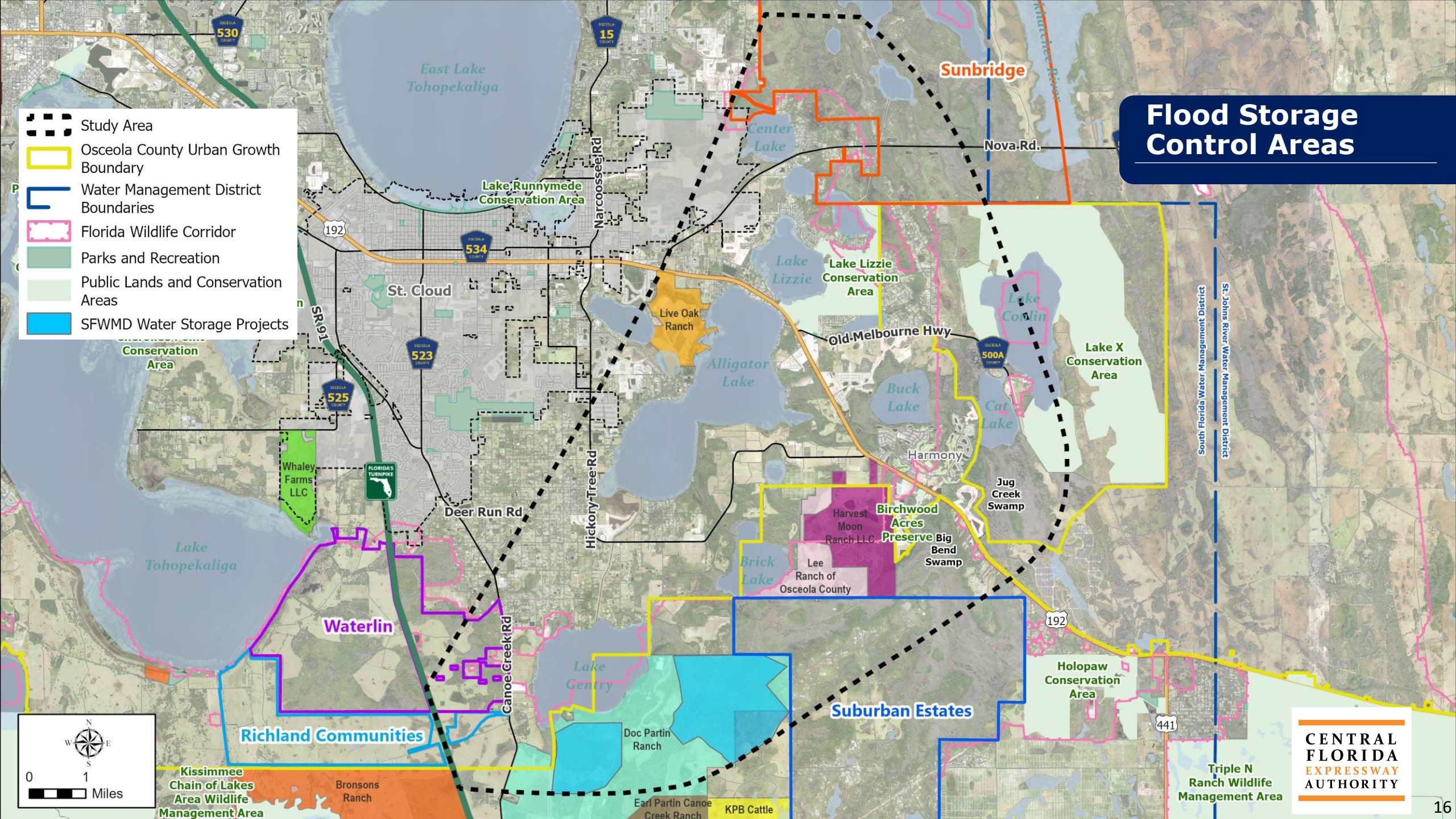
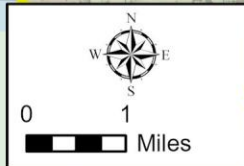
South Florida Water Management

St. Johns River Water Management



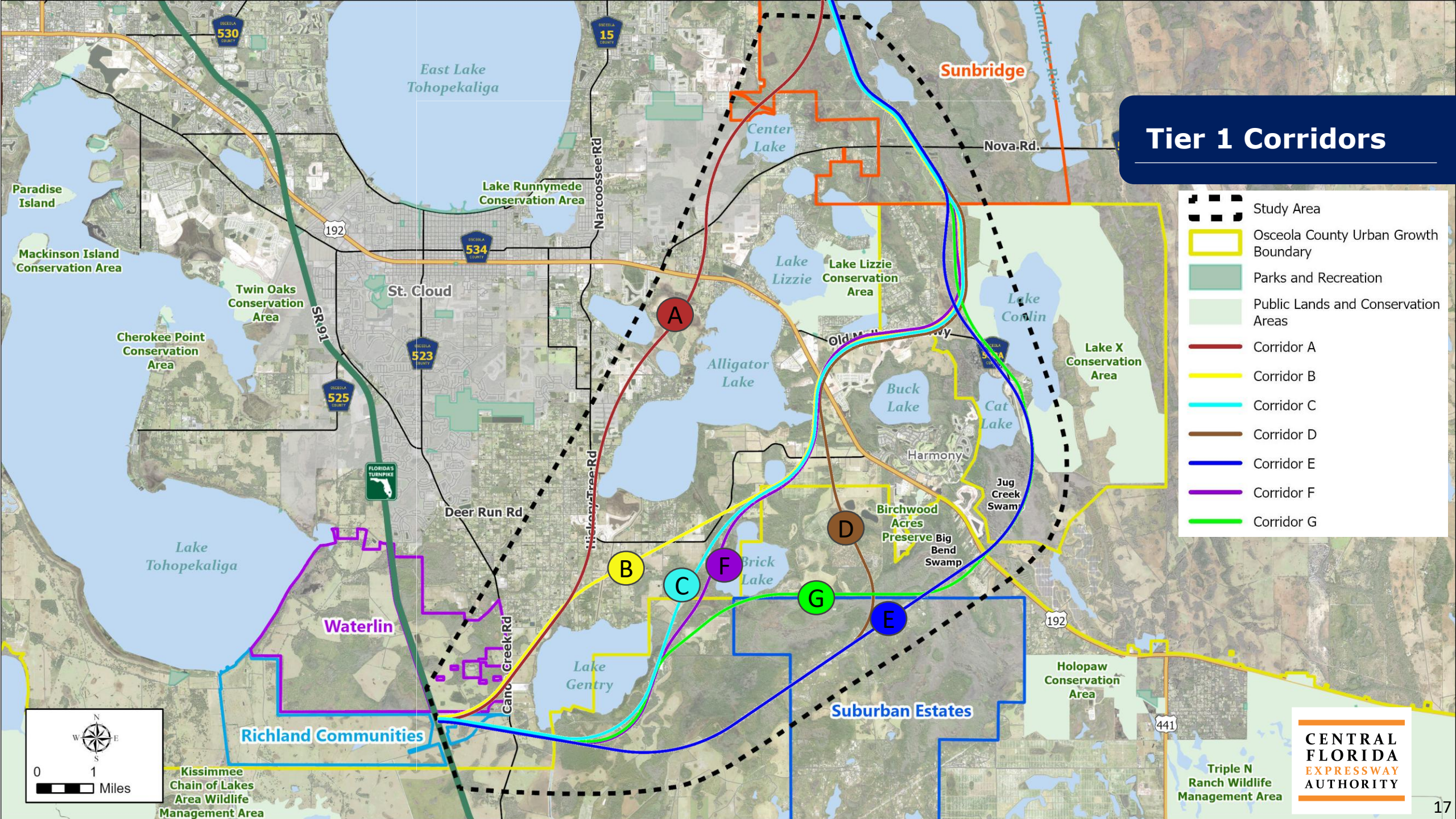
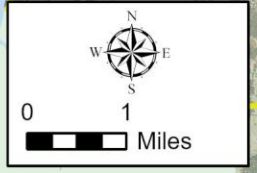
- Study Area
- Osceola County Urban Growth Boundary
- Water Management District Boundaries
- Florida Wildlife Corridor
- Parks and Recreation
- Public Lands and Conservation Areas
- SFWMD Water Storage Projects

Flood Storage Control Areas



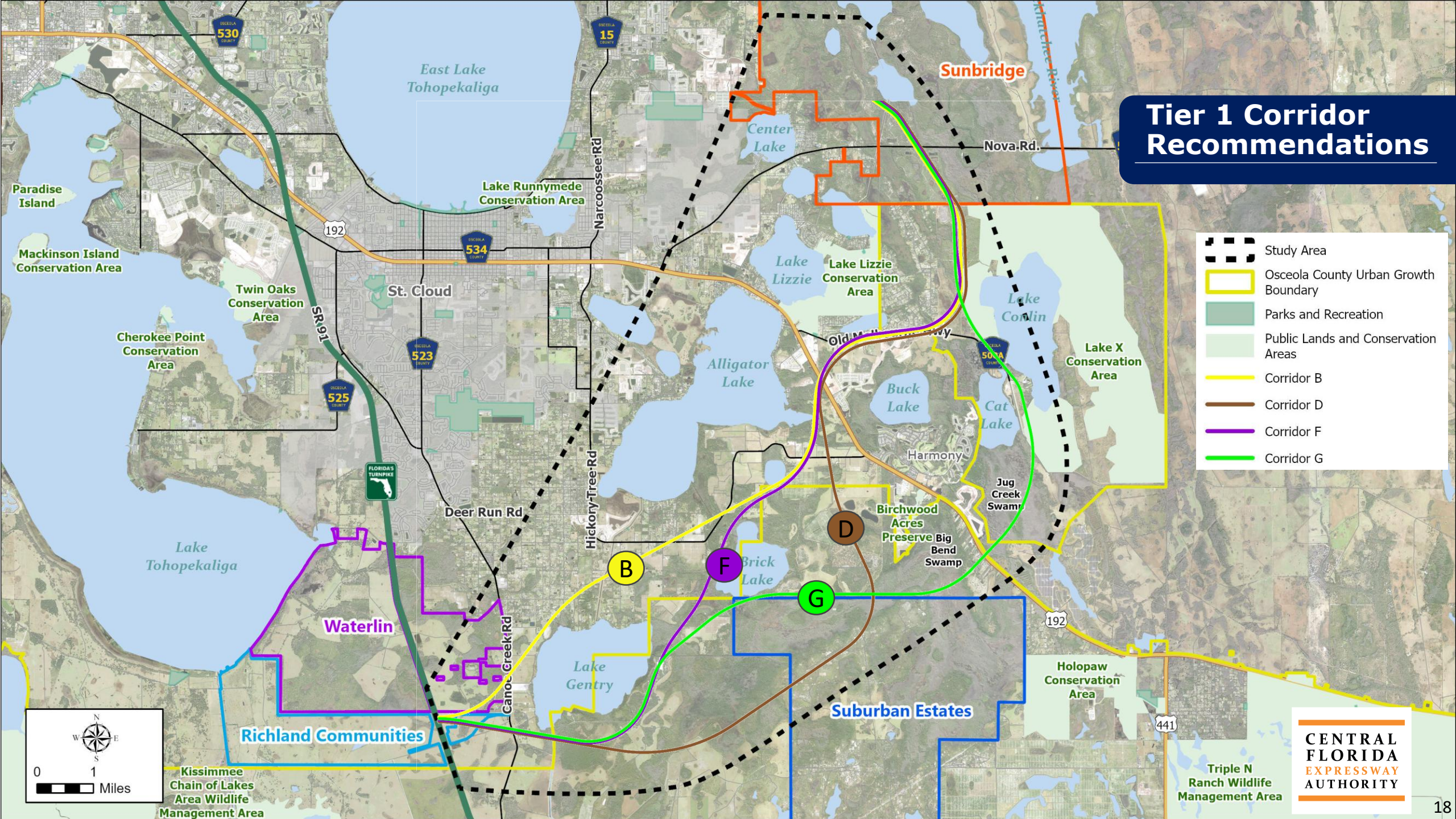
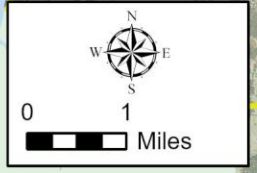
Tier 1 Corridors

- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Public Lands and Conservation Areas
- Corridor A
- Corridor B
- Corridor C
- Corridor D
- Corridor E
- Corridor F
- Corridor G



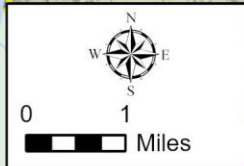
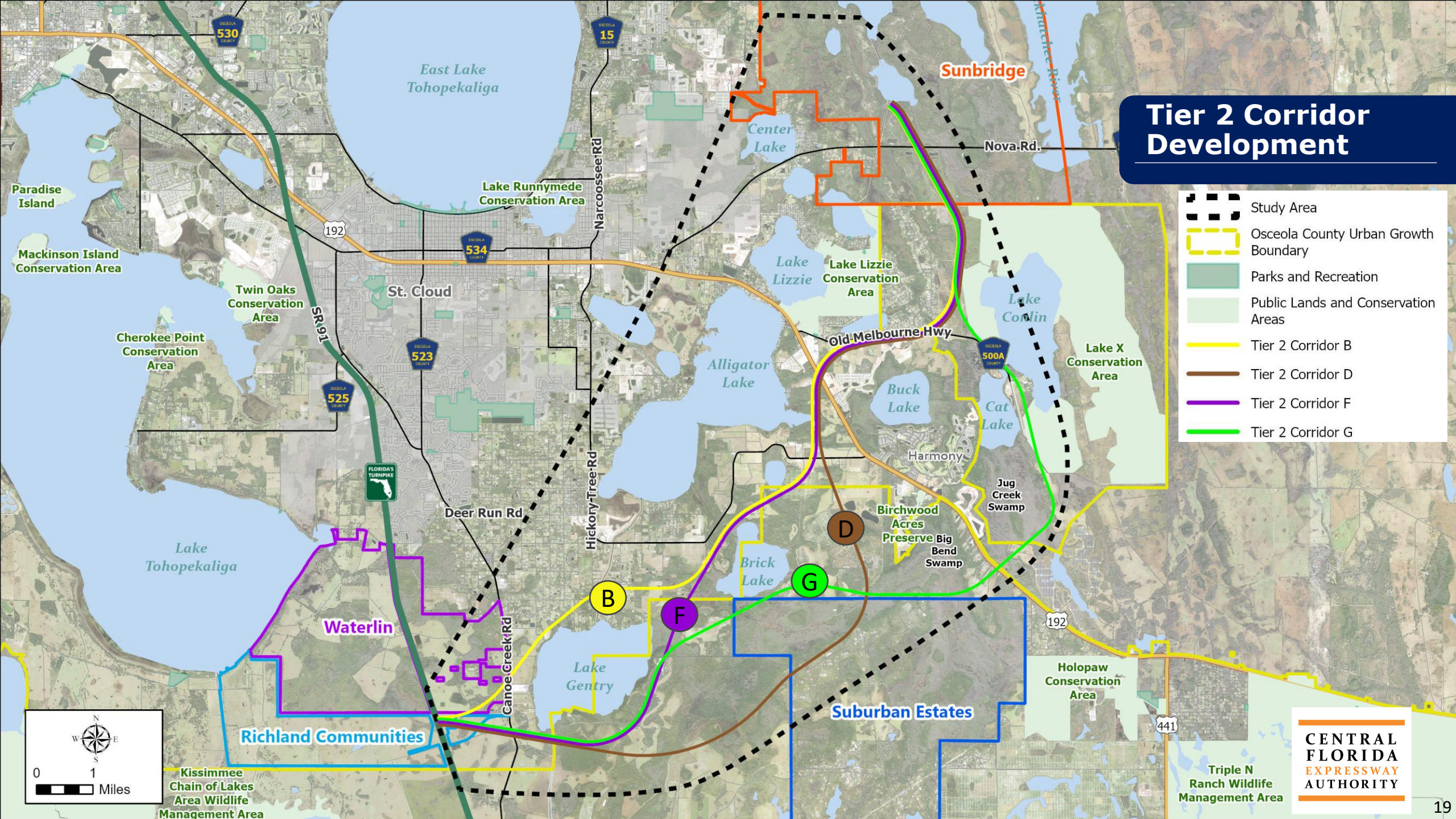
Tier 1 Corridor Recommendations

- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Public Lands and Conservation Areas
- Corridor B
- Corridor D
- Corridor F
- Corridor G

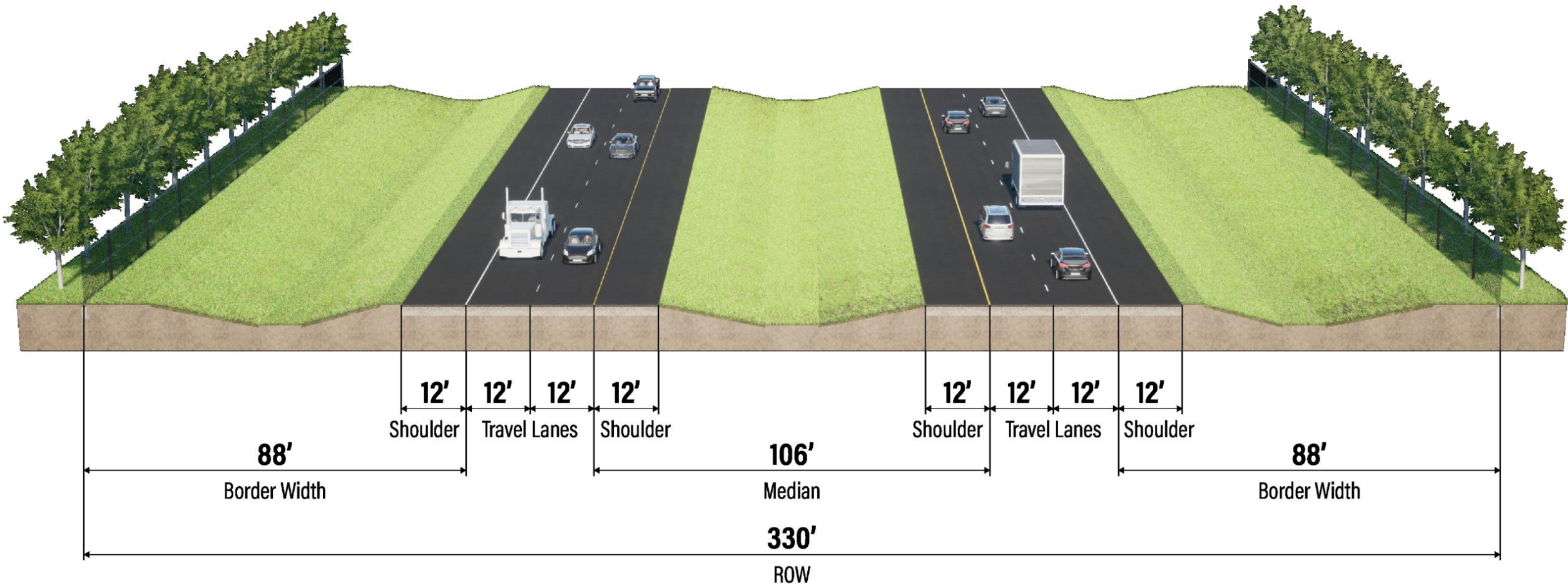


Tier 2 Corridor Development

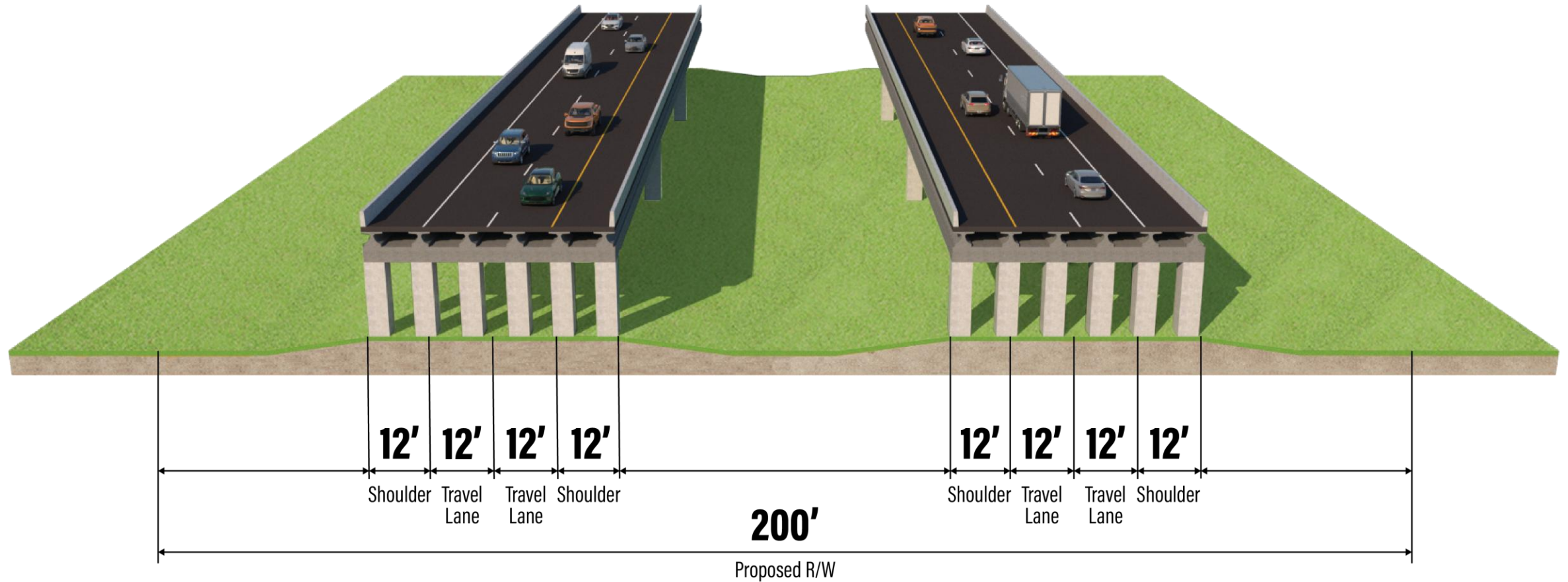
- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Public Lands and Conservation Areas
- Tier 2 Corridor B
- Tier 2 Corridor D
- Tier 2 Corridor F
- Tier 2 Corridor G



Mainline Typical Section



Bridge Typical Section



Map Key

Brick Lake

Avoidance/Minimization: Lake Gentry Area Wetlands & Wildlife

Suburban
Estates

Lake
Gentry

- Study Area
- Waterlin
- Richland Communities
- Suburban Estates
- Wetlands
- 100-Year Floodplain
- Florida Wildlife Corridor
- Black Bear Related Calls/
Incidents
- Private Airstrip
- Existing Residential Land
Use
- Planned Developments
- Corridor B
- Corridor D
- Corridor F
- Corridor G

Waterlin

Richland
Communities

Doc Partin
Ranch

D

F

G

B



0 0.3
Miles

CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

Map Key

Avoidance/Minimization: Brick Lake & Suburban Estates Area

-  Study Area
-  Suburban Estates
-  Wetlands
-  Florida Wildlife Corridor
-  Public Lands and Conservation Areas
-  Conservation Easements
-  Planned Developments
-  Existing Residential Land Use
-  Corridor B
-  Corridor D
-  Corridor F
-  Corridor G

Brick Lake

Big Bend Swamp

Suburban Estates

B

F

G

D



0 0.3
Miles

**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

Map Key

Old Melbourne Hwy

Lake X

**Avoidance/Minimization:
Harmony, Jug Creek
Swamp & Old Melbourne
Highway Area**

Buck Lake

Cat Lake

Harmony

Jug Creek Swamp

Birchwood Acres Preserve

Big Bend Swamp

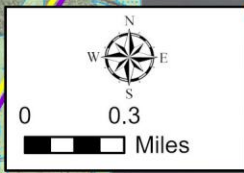
Brick Lake

-  Study Area
-  Wetlands
-  Public Lands and Conservation Areas
-  Conservation Easements
-  Planned Developments
-  Existing Residential Land Use
-  Corridor B
-  Corridor D
-  Corridor F
-  Corridor G

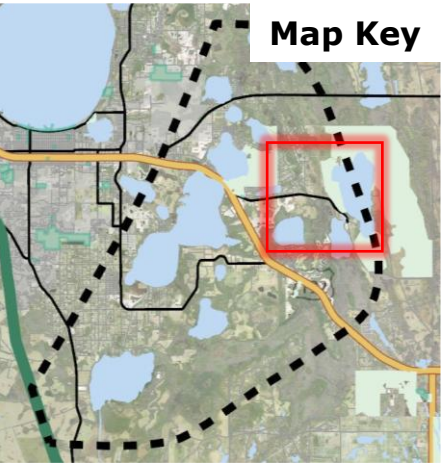
B F

D

G



Map Key



Lake Lizzie
Conservation
Area

**Avoidance/Minimization:
Lake X Mitigation Bank
Area**

- Study Area
- Wetlands
- Mitigation Bank Holdings
- Public Lands and Conservation Areas
- Conservation Easements
- Planned Developments
- Existing Residential Land Use
- Private Airstrip
- Community Center
- Corridor B
- Corridor D
- Corridor F
- Corridor G

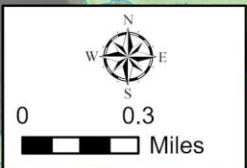
Old Melbourne Hwy

Lake
Conlin

Lake X
Conservation
Area

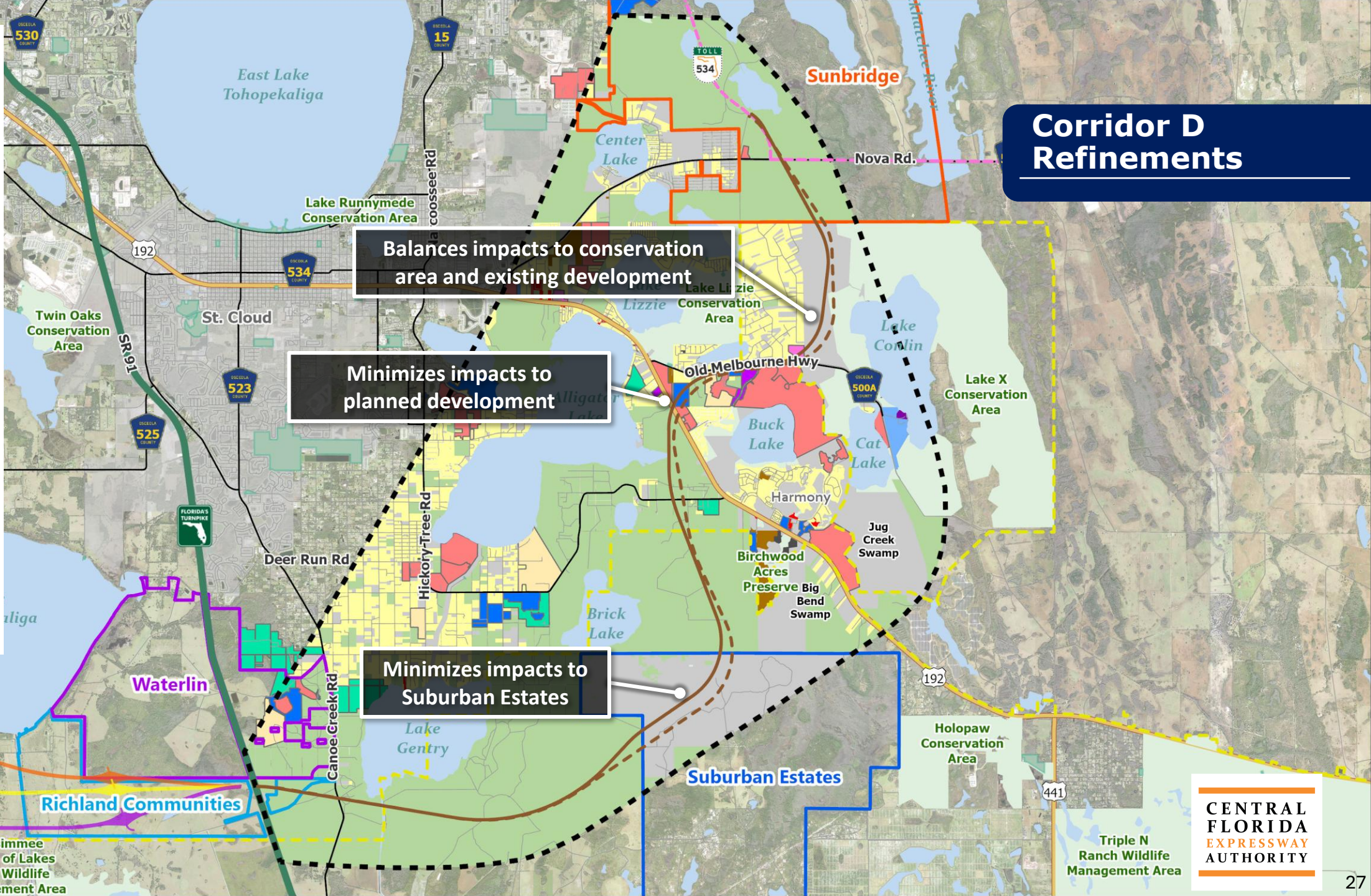
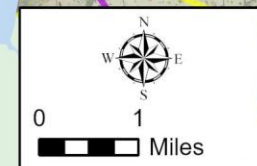
Buck
Lake

Cat
Lake



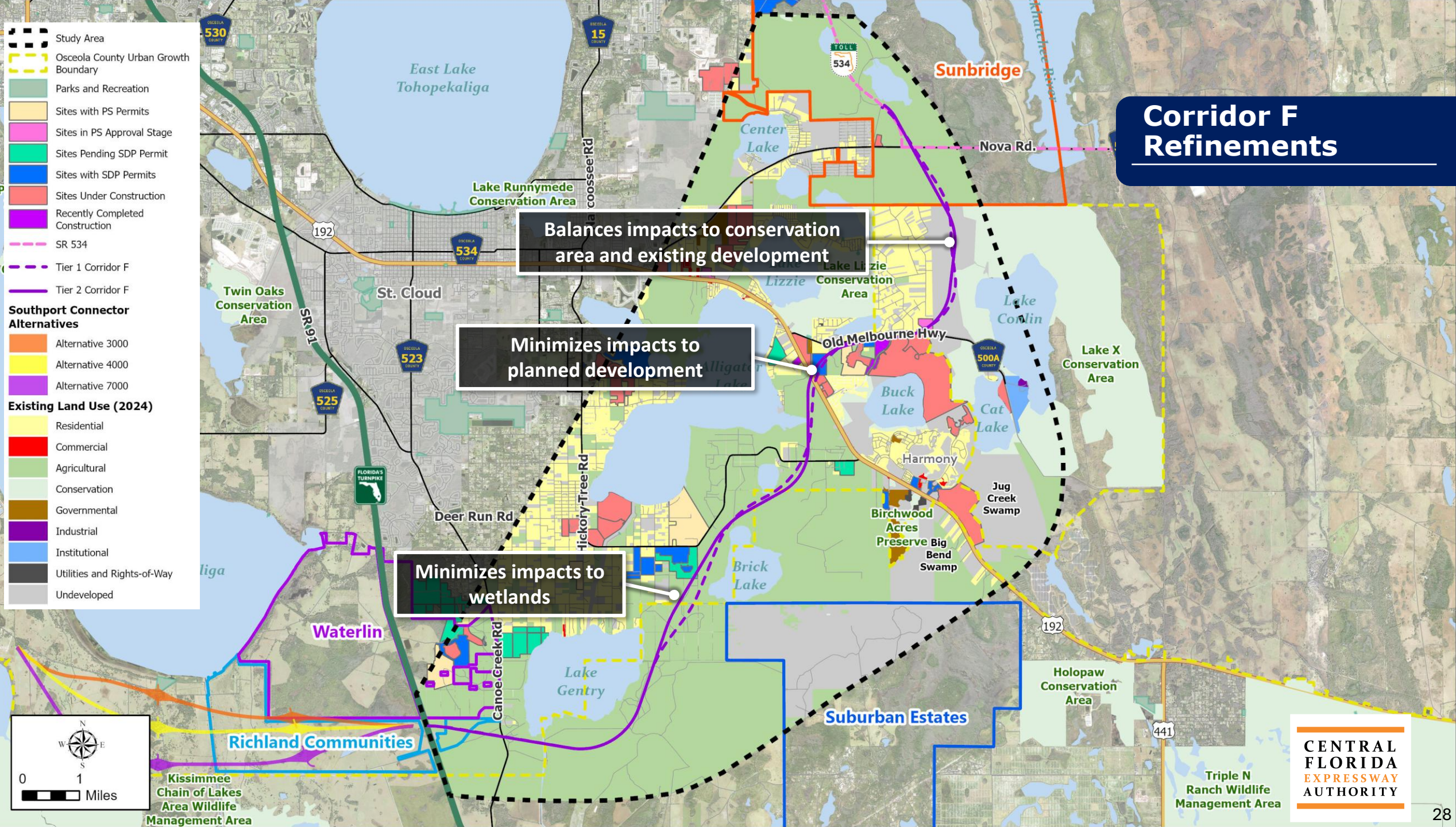
- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Sites with PS Permits
- Sites in PS Approval Stage
- Sites Pending SDP Permit
- Sites with SDP Permits
- Sites Under Construction
- Recently Completed Construction
- SR 534
- Tier 1 Corridor D
- Tier 2 Corridor D
- Southport Connector Alternatives**
 - Alternative 3000
 - Alternative 4000
 - Alternative 7000
- Existing Land Use (2024)**
 - Residential
 - Commercial
 - Agricultural
 - Conservation
 - Governmental
 - Industrial
 - Institutional
 - Utilities and Rights-of-Way
 - Undeveloped

Corridor D Refinements



- Study Area
 - Osceola County Urban Growth Boundary
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 - Tier 1 Corridor F
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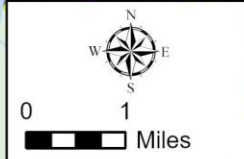
Corridor F Refinements



Balances impacts to conservation area and existing development

Minimizes impacts to planned development

Minimizes impacts to wetlands



- Study Area
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 - Sites with PS Permits
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 - Tier 2 Corridor G
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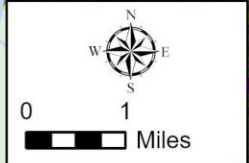
Corridor G Refinements

Balances impacts to conservation area and existing development

Minimizes impacts to wetlands

Minimizes impacts with Jug Creek Swamp

Avoids additional impacts to Suburban Estates



Tier 2 Corridor Evaluation Matrix

Purpose and Need Criteria	Unit	B	D	F	G
Logical Termini					
Compatible with Proposed Southport Connector Expressway Systems Interchange ^a	Yes/No	No	Yes	Yes	Yes
Provides Connection to SR 534 at Nova Road	Yes/No	Yes	Yes	Yes	Yes
System Linkage / Regional Connectivity					
Complexity of interchange at US 192	High/Low	High	High	High	Low
Impacts Sunbridge Parkway Extension/Botanic Blvd. at US 192	Yes/No	Yes	No	No	No
Direct Connection to SR 515 Extension	Yes/No	No	No	No	Yes
Consistency with Adopted Transportation Plans					
Consistency with CFX Master Plan (SR 515 Extension) for CFX System Expansion	Yes/No	No	No	No	Yes

Notes:
a Includes connection to Canoe Creek Road.

Tier 2 Corridor Evaluation Matrix

Evaluation Criteria	Unit	B	D	F	G
Design					
Corridor Length	Miles	17	19	18	21
Proposed ROW width (varies at interchanges)	Feet	330	330	330	330
Proposed ROW total (approximate)	Acres	1,018	1,136	1,065	1,132
Proposed bridges (roadway/canal crossings)	Number of Structures	50	42	44	32
Total length of all structures (roadway/canal crossings)	Feet	13,063	12,977	13,038	11,865
Proposed interchanges	Number	4	4	4	4
Projected 2050 AADT Volume ¹	Number of Vehicles per Day	48,200	49,300	46,400	43,500

Notes:

1 AADT values represented north of Nova Road interchange within study area.

Tier 2 Corridor Evaluation Matrix

Evaluation Criteria	Unit	B	D	F	G
Physical					
Major Utility Conflicts - Existing	Number of Conflicts	4	4	4	3
Major Utility Conflicts - Planned	Number of Conflicts	0	0	0	0
Contamination Sites (Medium and High Risk Sites)	Number of Conflicts	11	8	9	3
Cultural Environment					
Public Recreation Lands	Acres	0	0	0	0
Potential Historic Resources	Number of Conflicts	0	0	0	0
Potential Historic Linear Resources (Canals/Highways/Railroads)	Number of Resources	1	1	1	1
Potential Archaeological Resources	Number of Resources	0	0	0	0

Tier 2 Corridor Evaluation Matrix

Evaluation Criteria	Unit	B	D	F	G
Natural Environment					
Floodplain Involvement - 100 Year Floodplain ²	Acres	354	547	445	696
Canals / Regulated Floodways	Number of Conflicts	2	1	2	1
Wetlands (non-forested and forested) ³	Acres	202	384	238	423
Potential Habitat ⁴	Acres	953	1,115	996	1,125
Conservation Lands ⁵	Acres	89	89	89	130
Other Regulatory Conservation Easements ⁶	Acres	0	0	0	0
Florida Wildlife Corridor ⁶	Acres	488	805	659	1,119
Florida Forever Priority Projects ⁶	Acres	0	302	156	399
SFWMD DWMP (Watershed Management Program)	Acres	0	109	49	49

Notes:

- 2 Floodplain involvement based on GIS data only and doesn't include minimization efforts to reduce direct ROW impacts.
- 3 Wetland values based on FLUCCS and limited review of permits. No wetland survey was conducted during Tier 2. Wetland impacts do not include minimization efforts to reduce direct ROW impacts.
- 4 Limited observation data available due to undeveloped nature of the study area. Species habitat identified based on FLUCCS and typical habitat for gopher tortoise, caracara, snail kite, grasshopper sparrow, scrub jay, red cockaded woodpecker, wood stork, eagle nest, Florida panther, and black bear. Telemetry data indicates the presence of the Florida panther 2,100 feet west of the Florida's Turnpike; however, the panther is absent within all of the corridors. Additionally, the corridors are not within the focus area which includes the primary and secondary zones. Black bear are "occasional" throughout the corridors and not within the primary range of the black bear.
- 5 Lake X Conservation Area, which is also within a mitigation bank.
- 6 Values do not include overlap areas designated as mitigation bank.

Tier 2 Corridor Evaluation Matrix

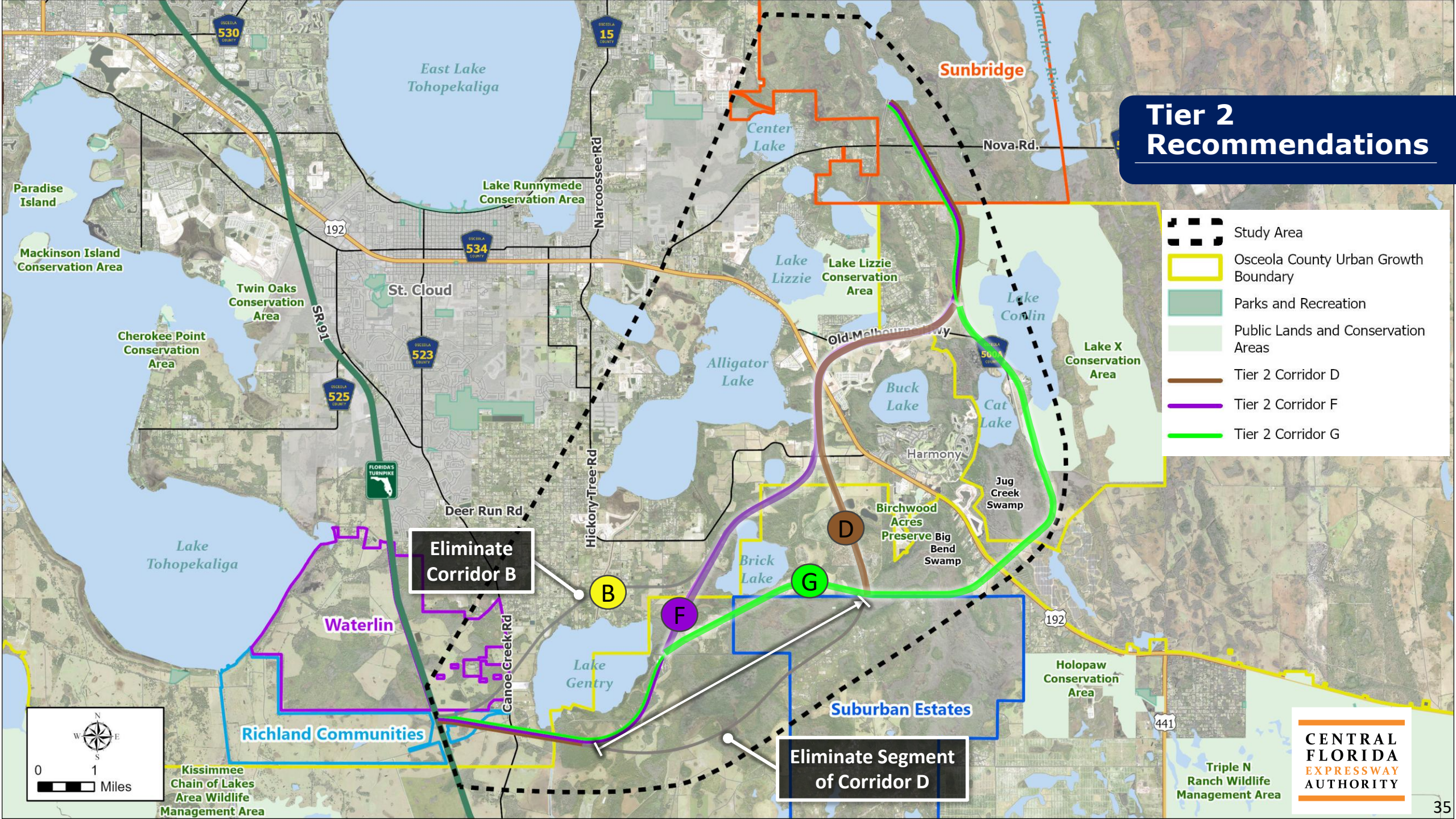
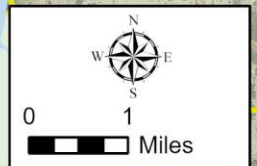
Evaluation Criteria	Unit	B	D	F	G
Social					
Residential Parcels					
Potential Residential Parcels Affected (Existing) ^{7,8,10}	Number of Parcels	91	71	72	3
Potential Residential Parcels Affected (Planned) ^{7,11}	Number of Parcels	112	36	37	0
Non-Residential Parcels					
Total Non-Residential Parcels Affected ^{7,9}	Number of Parcels	72	58	59	44
Community Cohesion Effects - Existing/Planned Neighborhoods Affected	Low/Medium/High	High	Medium	Medium	Low
Community Facilities	Number of Conflicts	0	0	0	1
Agricultural Lands	Acres	745	876	870	809
Suburban Estates Impacts (approximate)	Acres	0	73	0	27
Estimated Cost					
Preliminary Construction Cost Estimate	Currency (in millions)	\$1,663	\$1,784	\$1,649	\$1,702

Notes:

- 7 Includes partially impacted parcels.
- 8 Includes undeveloped parcels within existing residential communities.
- 9 Does not include suburban estates
- 10 Includes planned developments under construction.
- 11 Includes planned developments with pending and approved Site Development Plan permits. Parcel count is based on subdivided parcels at time of analysis

Tier 2 Recommendations

- Study Area
- Osceola County Urban Growth Boundary
- Parks and Recreation
- Public Lands and Conservation Areas
- Tier 2 Corridor D
- Tier 2 Corridor F
- Tier 2 Corridor G



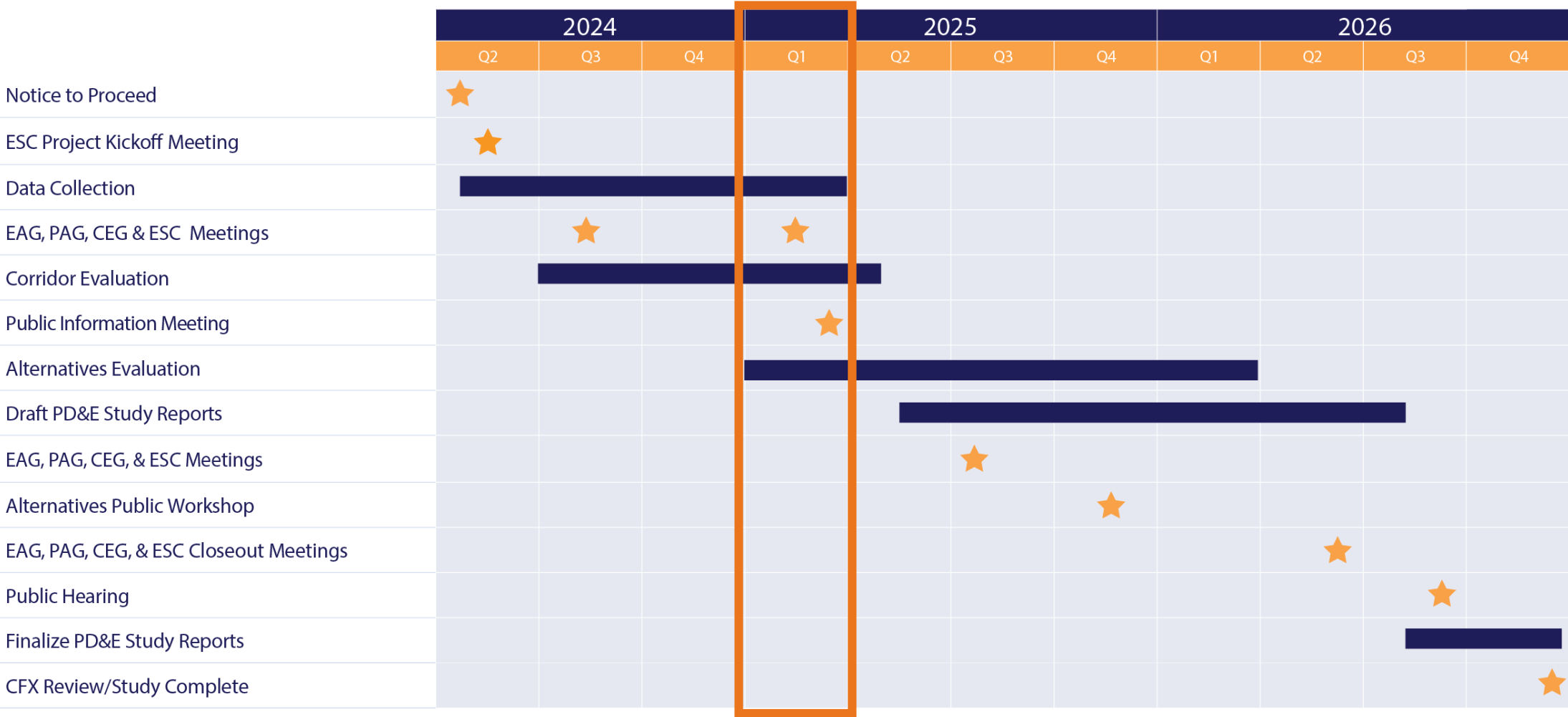
Avoidance and Minimization

- Constrained Typical Sections
- Bridge Structures in environmentally sensitive areas
 - Minimize wetland and floodplain impacts
 - Maintain habitat connectivity
- Environmental Mitigation Opportunities
 - Florida Forever priority areas
 - Connectivity to existing conservation



Discussion

PD&E Schedule



Project Contact

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Thank You