

APPENDIX F: FIGURES 1 THROUGH 23 TABLOID SIZE

This section provides Figure 1 through Figure 23 of the Southwest Volusia Regional Transportation Study in tabloid (11" x 17") paper size.

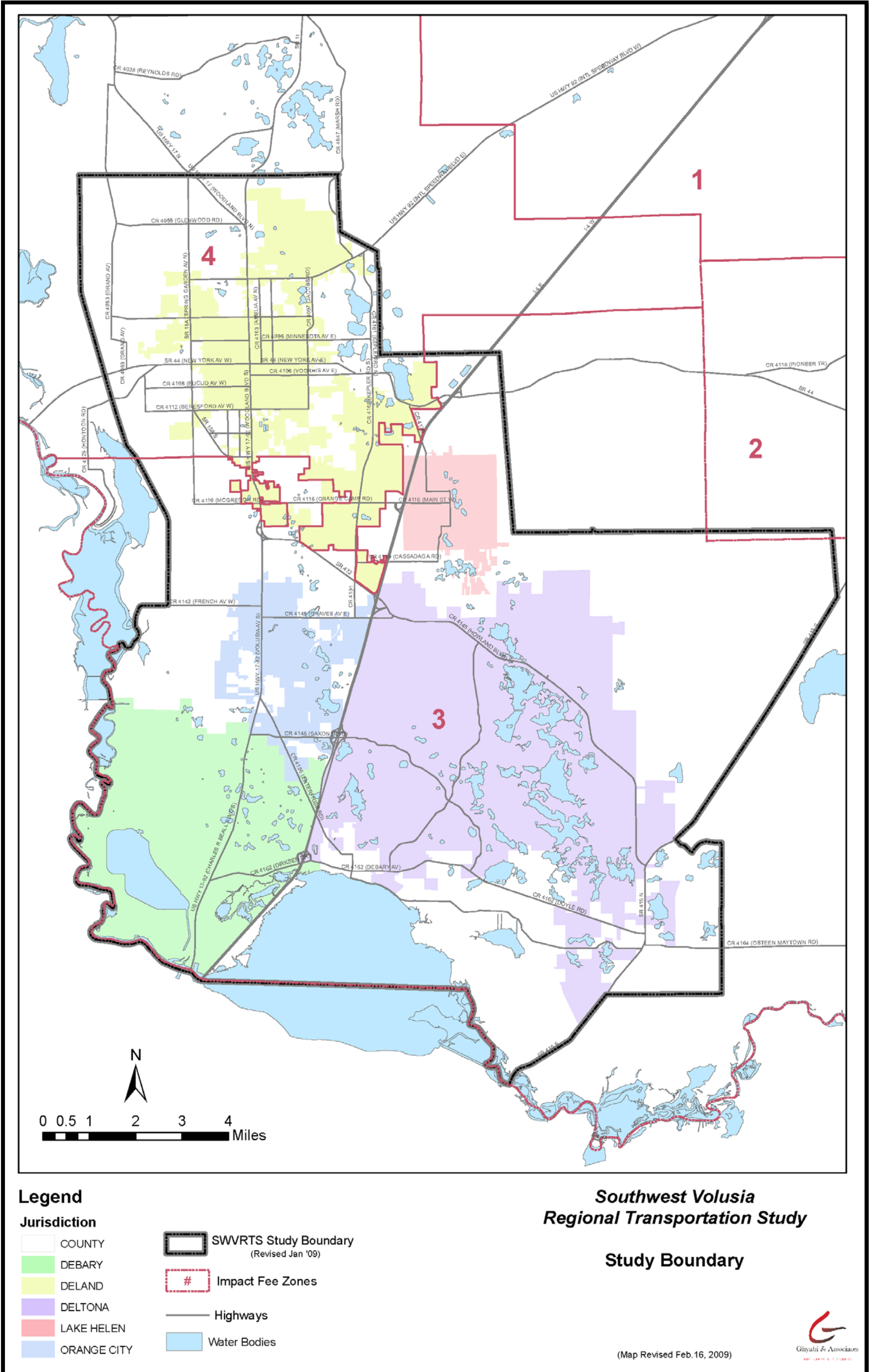


Figure 1: Southwest Study Area

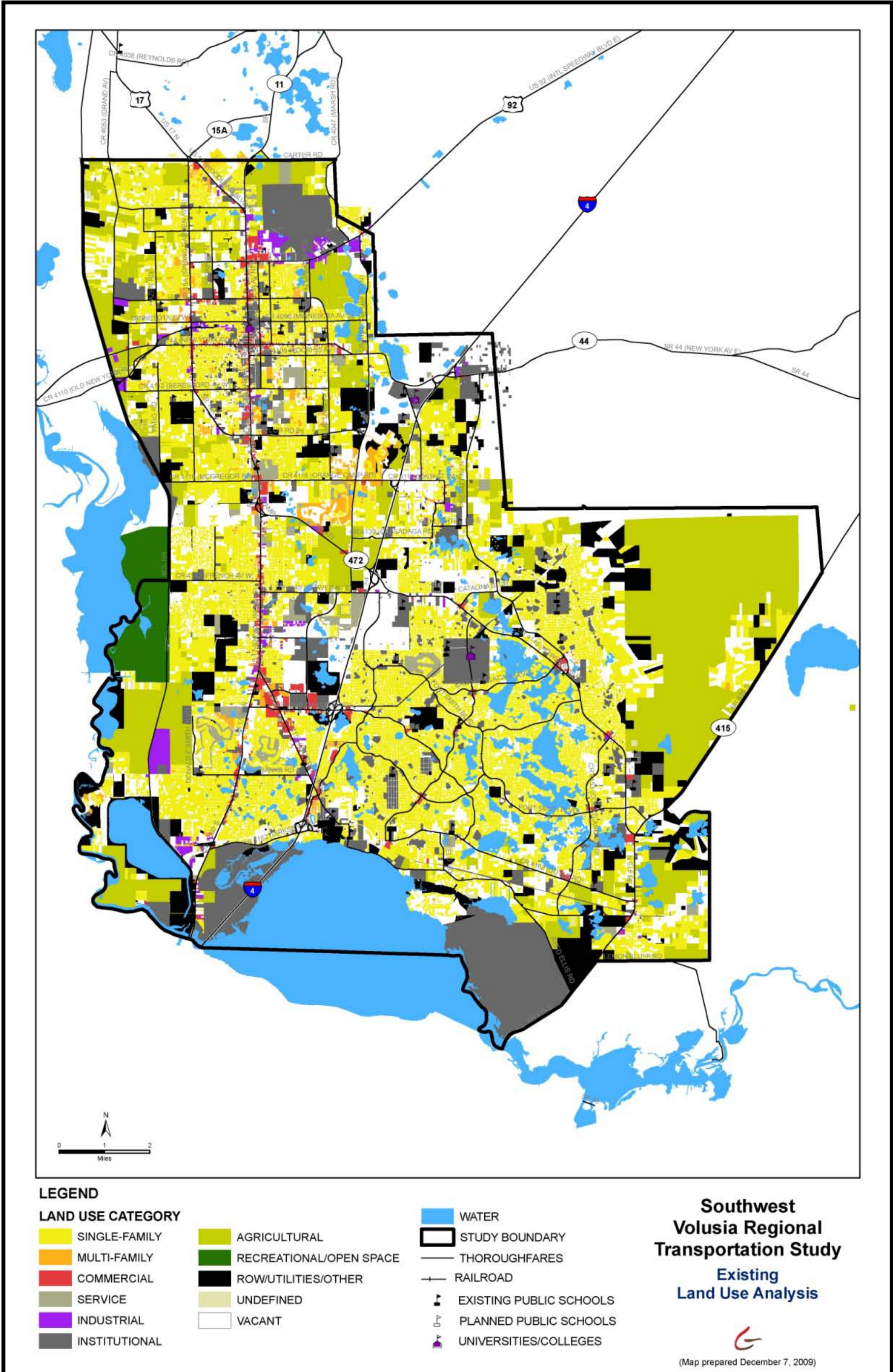


Figure 2: Existing Land Use Analysis

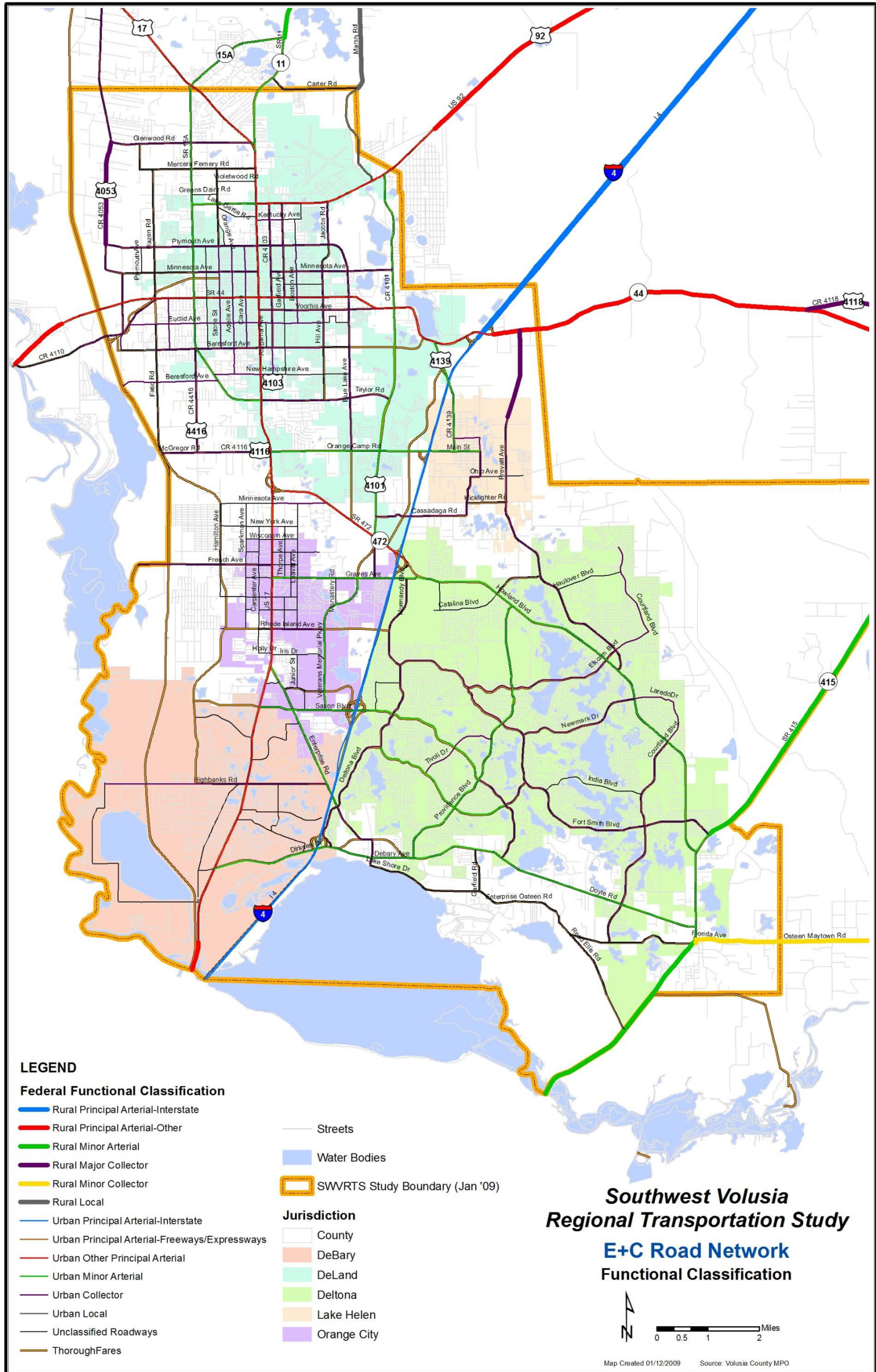


Figure 3: Existing Roadway Network – Functional Classifications

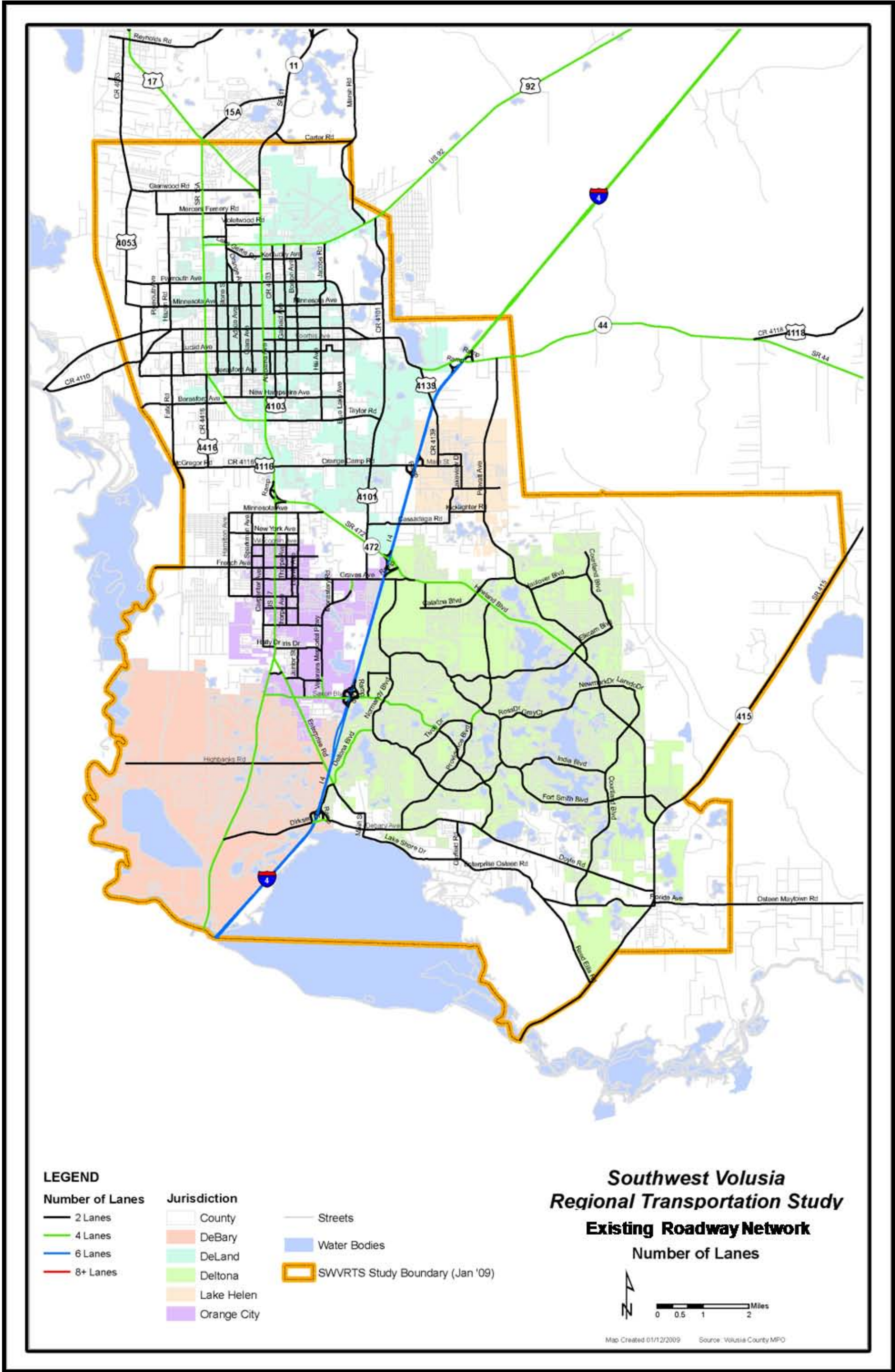


Figure 4: Existing Roadway Network – Number of Lanes

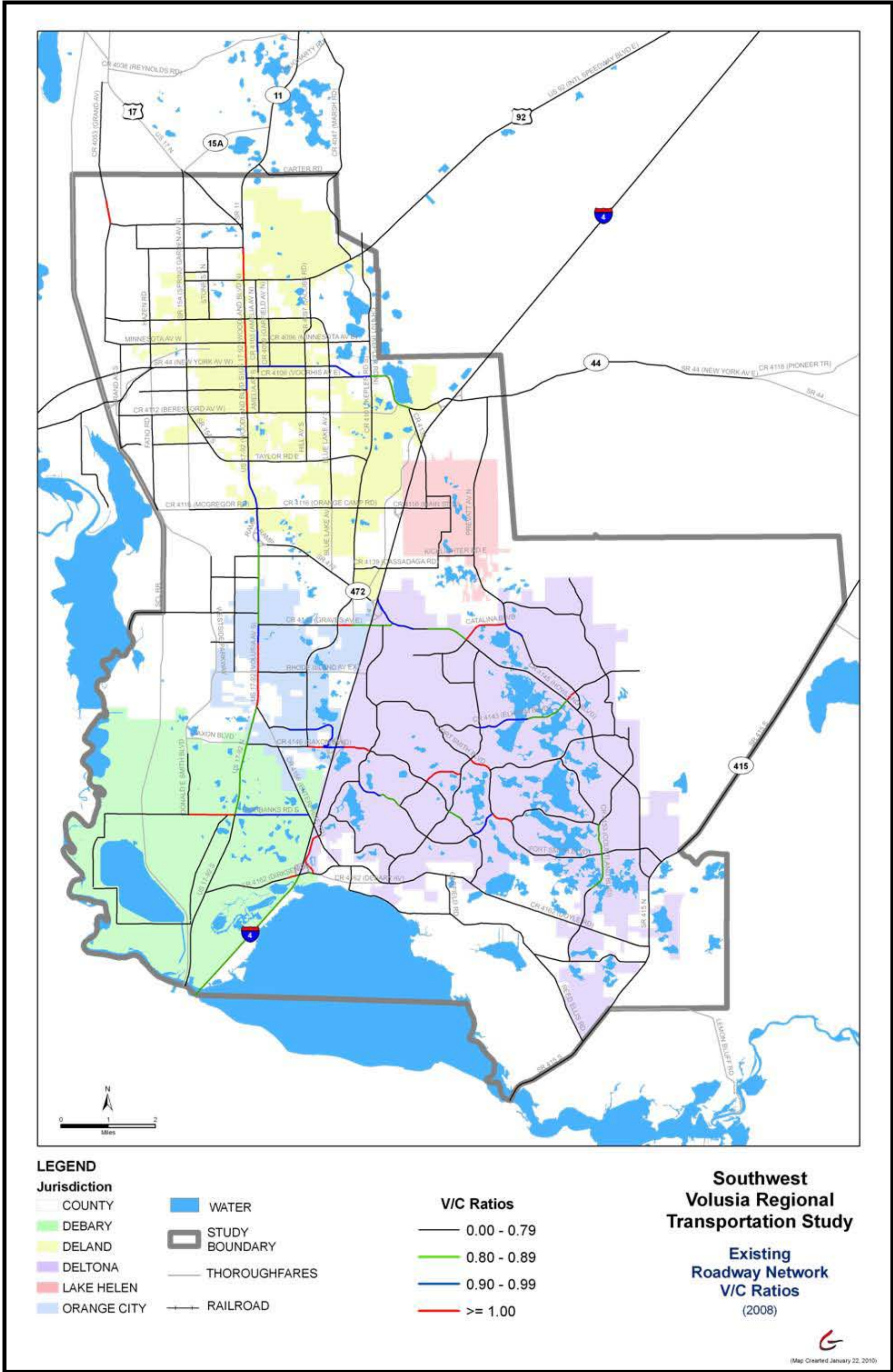
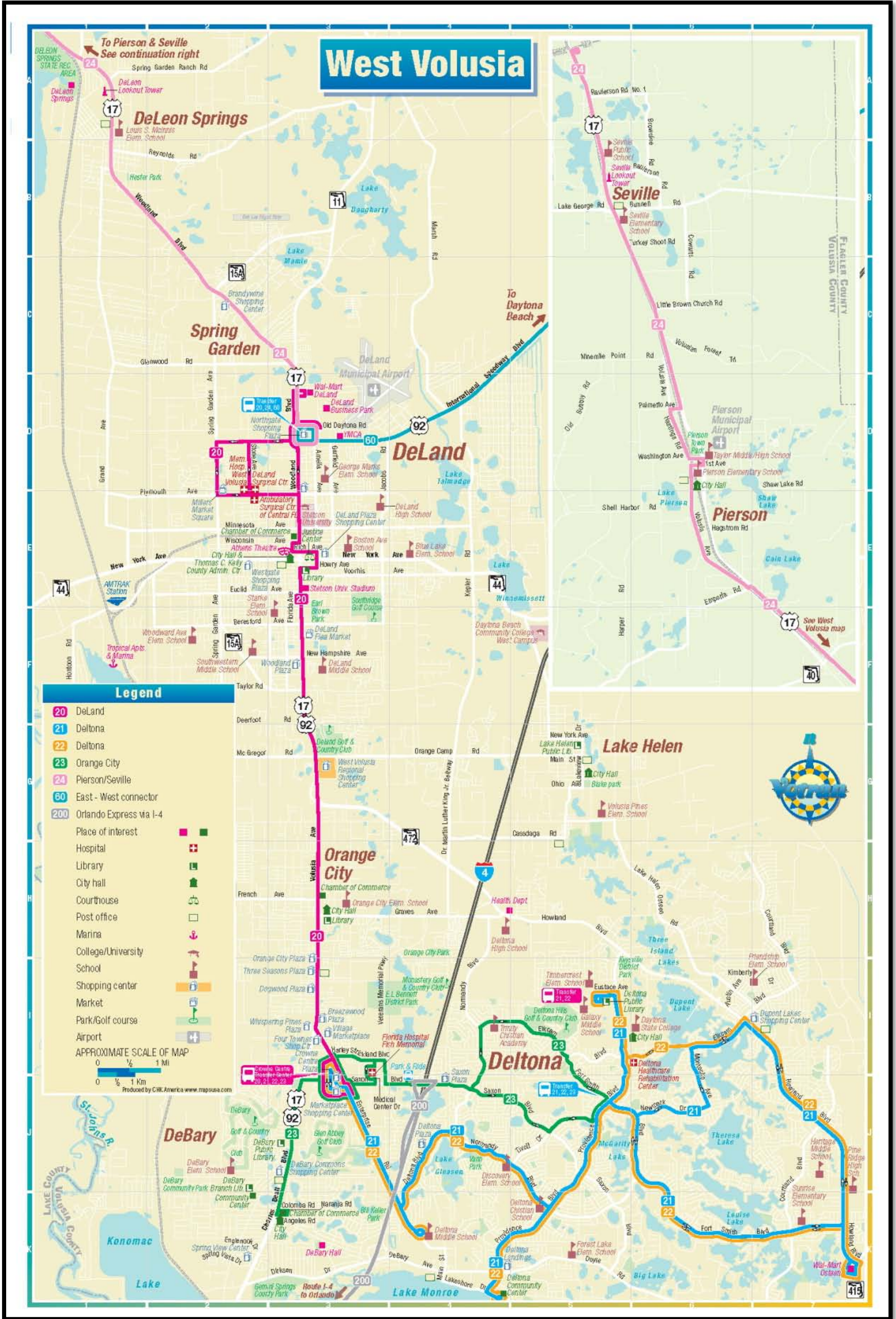


Figure 5: Existing Roadway Network – V/C Ratios



Source: Votran

Figure 6: West Volusia Transit Service

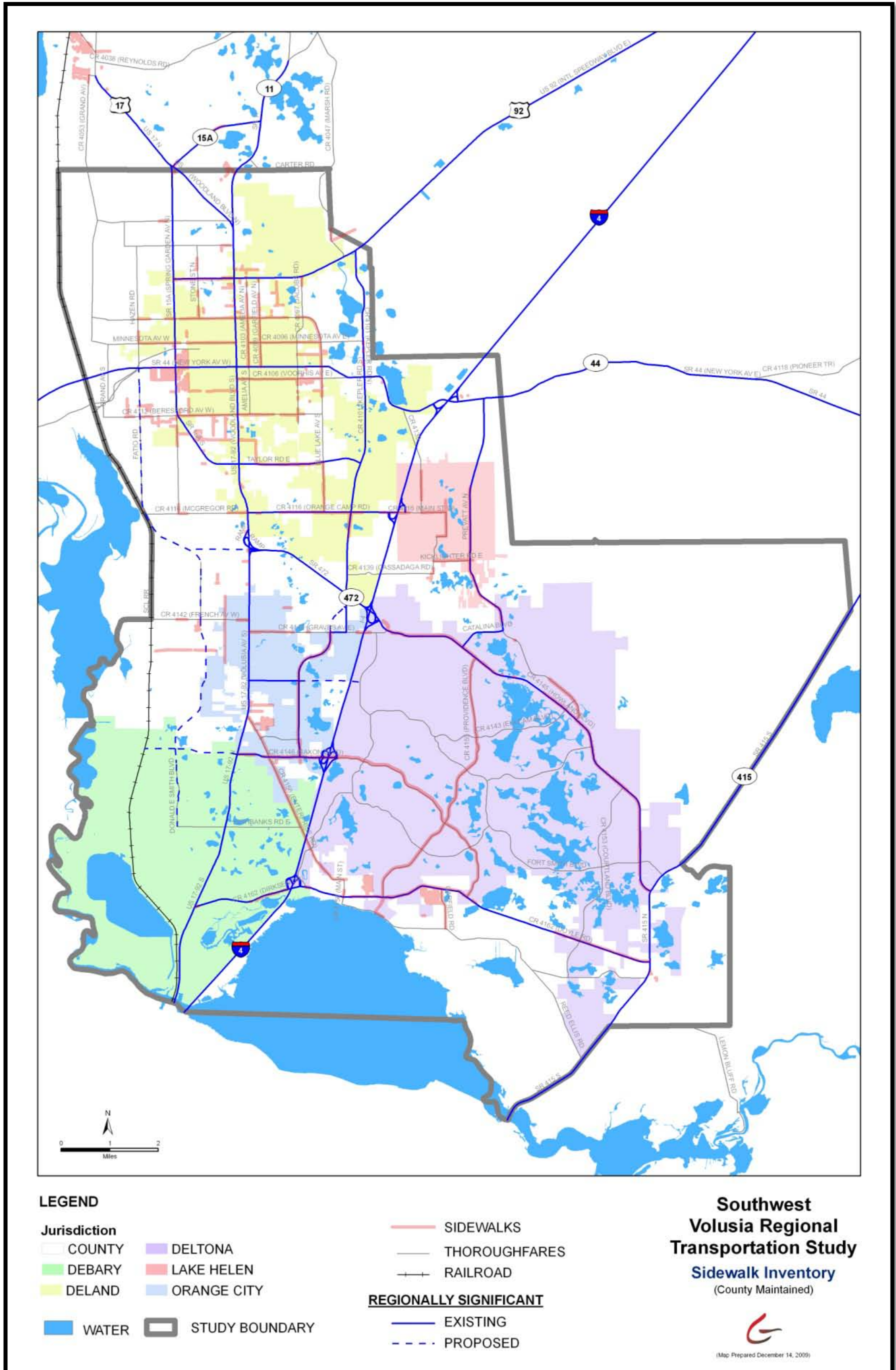
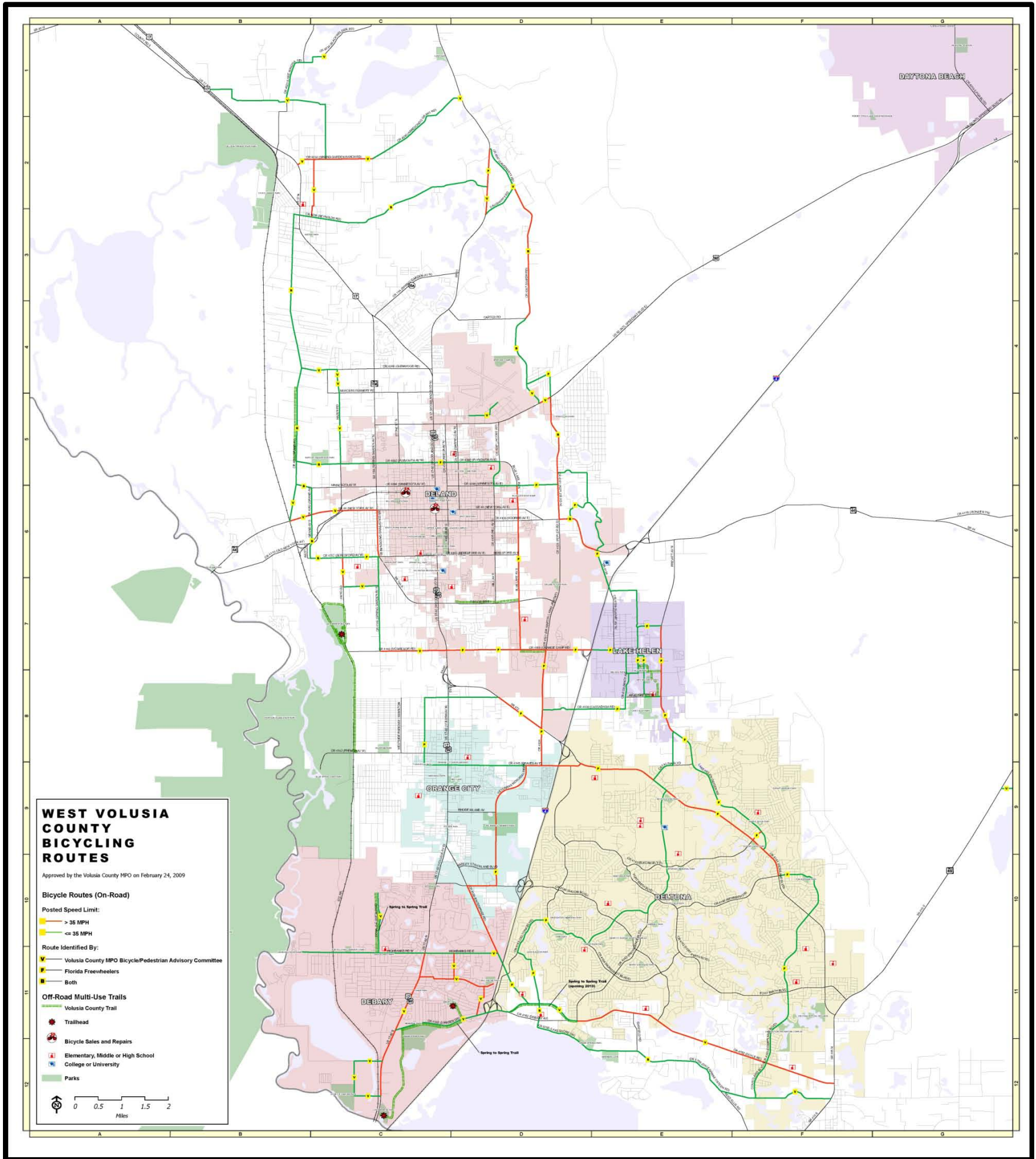
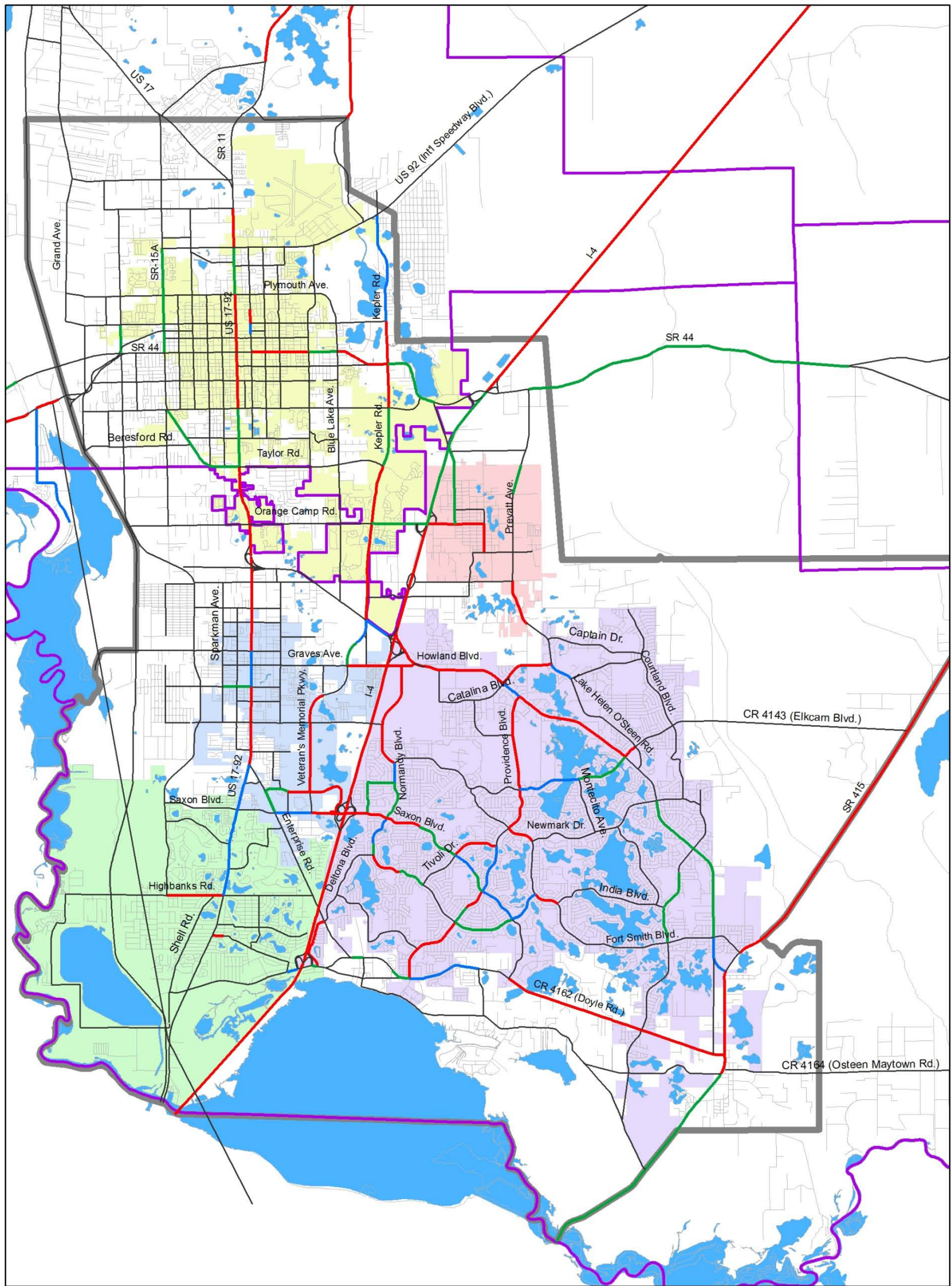


Figure 7: Sidewalk Inventory



Source: Volusia County Metropolitan Planning Organization

Figure 8: West Volusia County Bicycle Routes



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

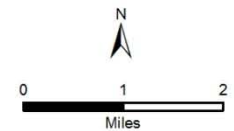
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- >=1.00

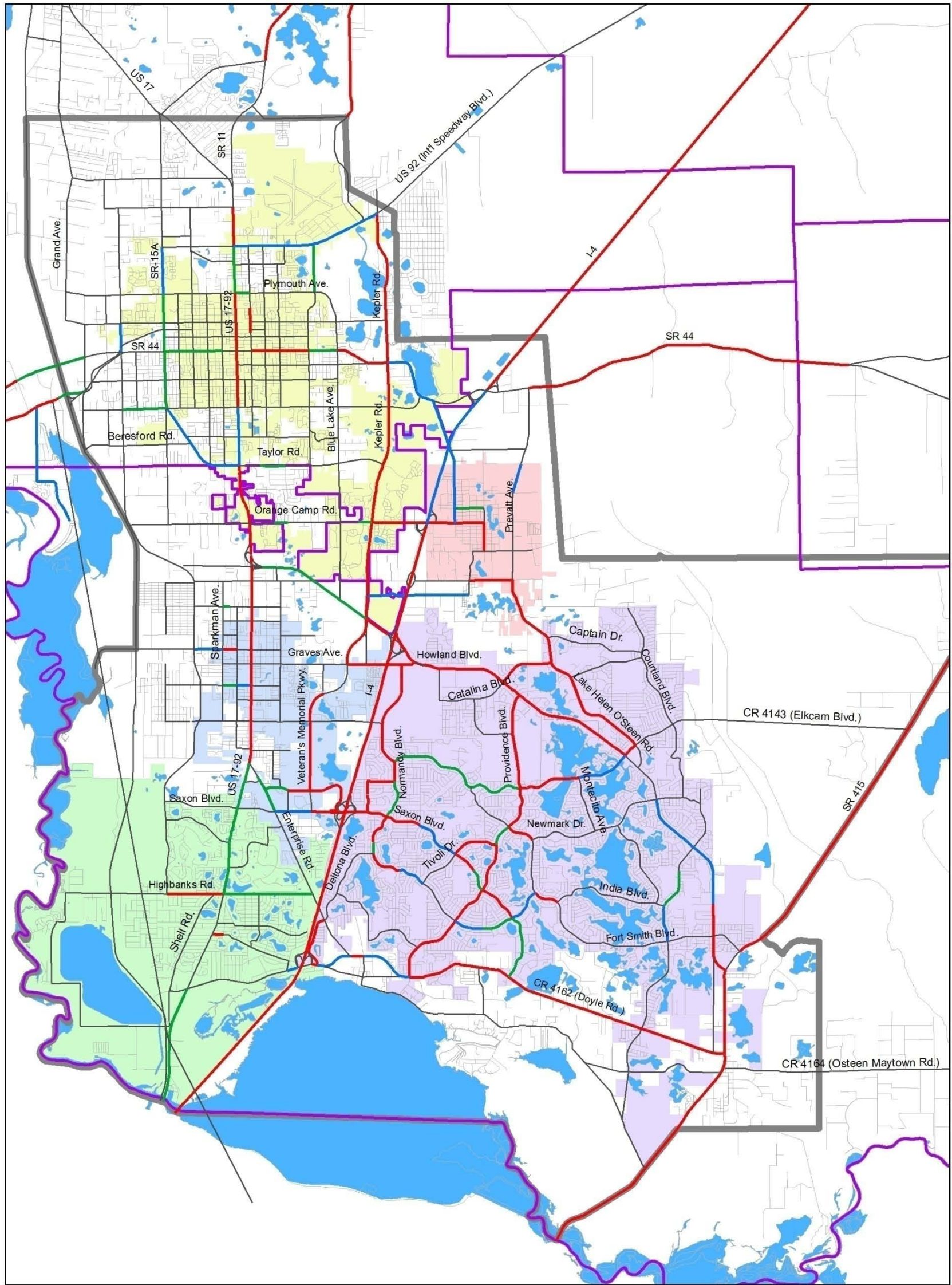
Southwest Volusia Regional Transportation Study

No-Build Alternative 2015(A)



(Map Created June 21, 2010)

Figure 9: No-Build Alternative 2015 (A)



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

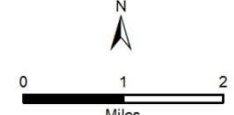
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- >=1.00

Southwest Volusia Regional Transportation Study

No-Build Alternative 2025(B)



(Map Created June 21, 2010)

Figure 10: No-Build Alternative 2025 (B)

Label	Facility/Road Name	Limits (From - To)	Improvement Description	Scenarios		Agency
				1A (2015)	1B (2025)	
A	Breadford Rd Extension	Blue Lake to SR 44	New 2 Ln Road	Yes	Yes	Deland
B	Blue Lake Extension	Orange Camp Rd to SR 472	New 2 Ln Road	No	Yes	Deland
C	Commuter Rail		10% reduction on I-4	Yes	Yes	County
D	Diksen/Dalbary/Doyle	Providence Blvd to SR 415	Widen to 4 Ln	Yes	Yes	Deltona
E	Elkcam Blvd Extension	Terminus to SR 415	New 2 Ln Road	Yes	Yes	Deltona
F	Howland Blvd	Providence Blvd to Elkcam Blvd	Widen to 4 Ln	Yes	Yes	Deltona
G	I-4	SR 44 to US 92	Widen to 6 Ln	Yes	Yes	County & FDOT
H	I-4	SR 472 to Seminole Co.	Widen to 8 Ln	Yes	Yes	County & FDOT
I	Kicklighter Extension	Western terminus to I-4	Widen to 8 Ln with interchange at I-4	Yes	Yes	Lk. Helen
J	McKenzie Extension	Terminus @ North Ave to Prewatt Ave	New 2 Ln Road	Yes	Yes	Lk. Helen
K	MMTD	Phonothel/Bastard/SR 15A boundary limits	New 2 Ln Road	Yes	Yes	Deland
L	Orange Camp Rd	W. Volusia Blwy (MLK) to I-4	Widen to 4 Ln	Yes	Yes	Deland
M	Prewatt Ave	SR 44 to Catalina Blvd	Widen to 4 Ln	Yes	Yes	Lk. Helen
N	Providence Blvd	Howland Blvd to Diksen/Dalbary/Doyle	Widen to 4 Ln	Yes	Yes	Deltona
O	Rhode Island Extension	Eastern terminus to Normandy Blvd	New 2 Ln Road	Yes	Yes	Orange City & Deltona
P	Saxon Blvd	Enterprise Rd to I-4	Widen to 6 Ln	Yes	Yes	County
Q	Saxon Blvd	Trioli Dr. to Diksen/Dalbary/Doyle	Widen to 4 Ln	Yes	Yes	Deltona & County
R	Saxon Blvd	US 1792 to Rail Line	New 2 Ln	Yes	No	County
S	Saxon Blvd	Enterprise to US 1792	Widen to 4 Ln	Yes	Yes	County
T	Saxon Blvd	US 1792 to Rail Line	Widen to 4 Ln	No	Yes	County
U	SR 15A	US 92 to US 17	Change LOS from D to C	Yes	Yes	Deland
V	SR 415	Reed/Elle Rd to Seminole Co.	Widen to 4 Ln	No	Yes	Deltona & County
W	SR 472 Extension	Extend west to Westside Pkwy	New 4 Ln Road	Yes	Yes	County
X	US 1792	US 92 to SR 15A	Change LOS from C to E	Yes	Yes	Deland
Y	W. Volusia Blwy (Kopier/MLK)	US 92 to SR 472	Widen to 4 Ln	No	Yes	Deland
Z	W. Volusia Blwy (NMP)	Graves to Hanley Stickland	Widen to 4 Ln	Yes	Yes	County
AA	Westside Pkwy	SR 44 to Dalbary Plantation	New 2 Ln Road	Yes	Yes	Orange City, Deltona & County

LEGEND

Type

2015 (1A)

2025 (1B)

New Road

Widening

Other

Water Bodies

Model Network

Streets

Study Boundary

Jurisdiction

COUNTY

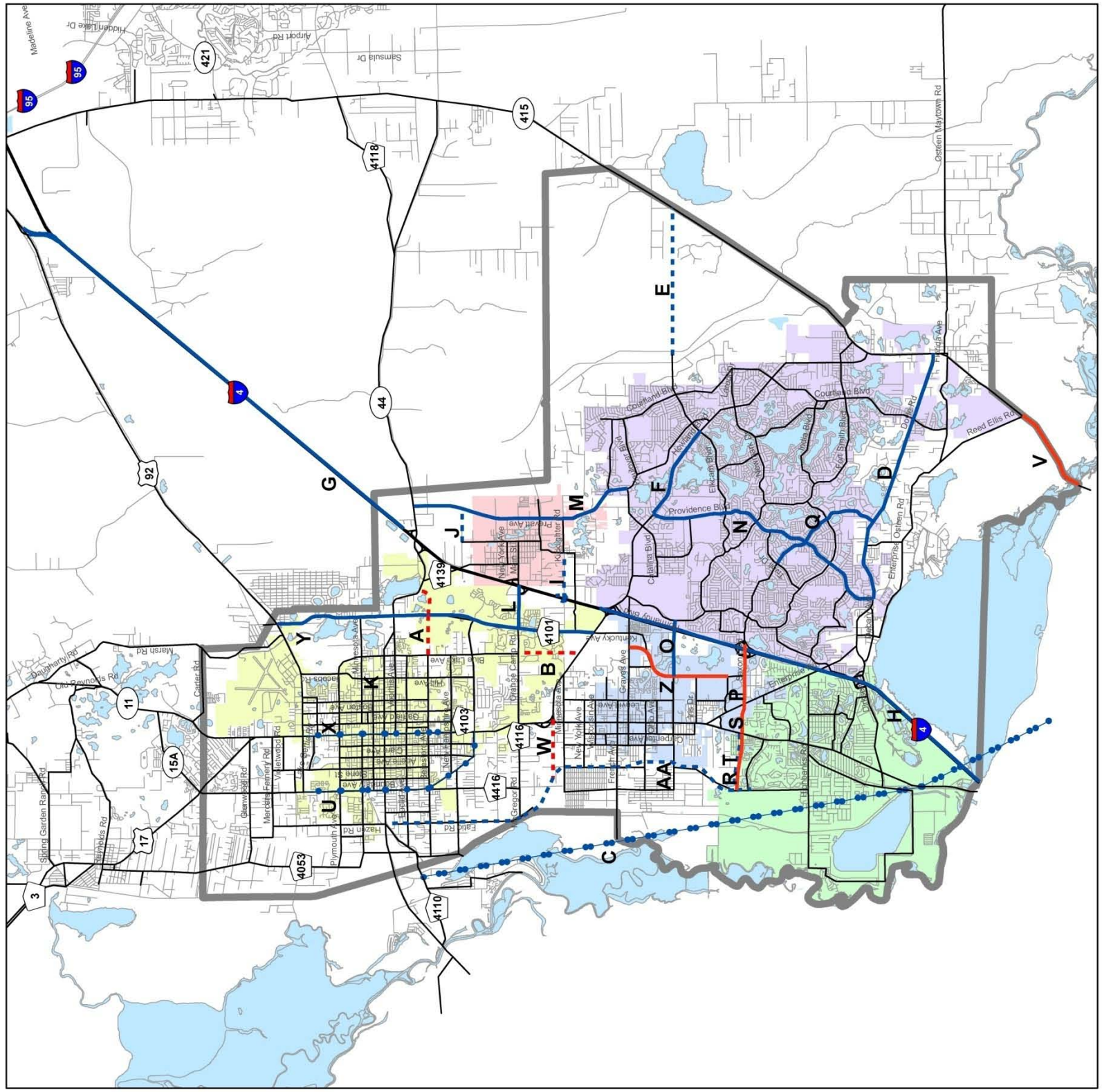
DEBARY

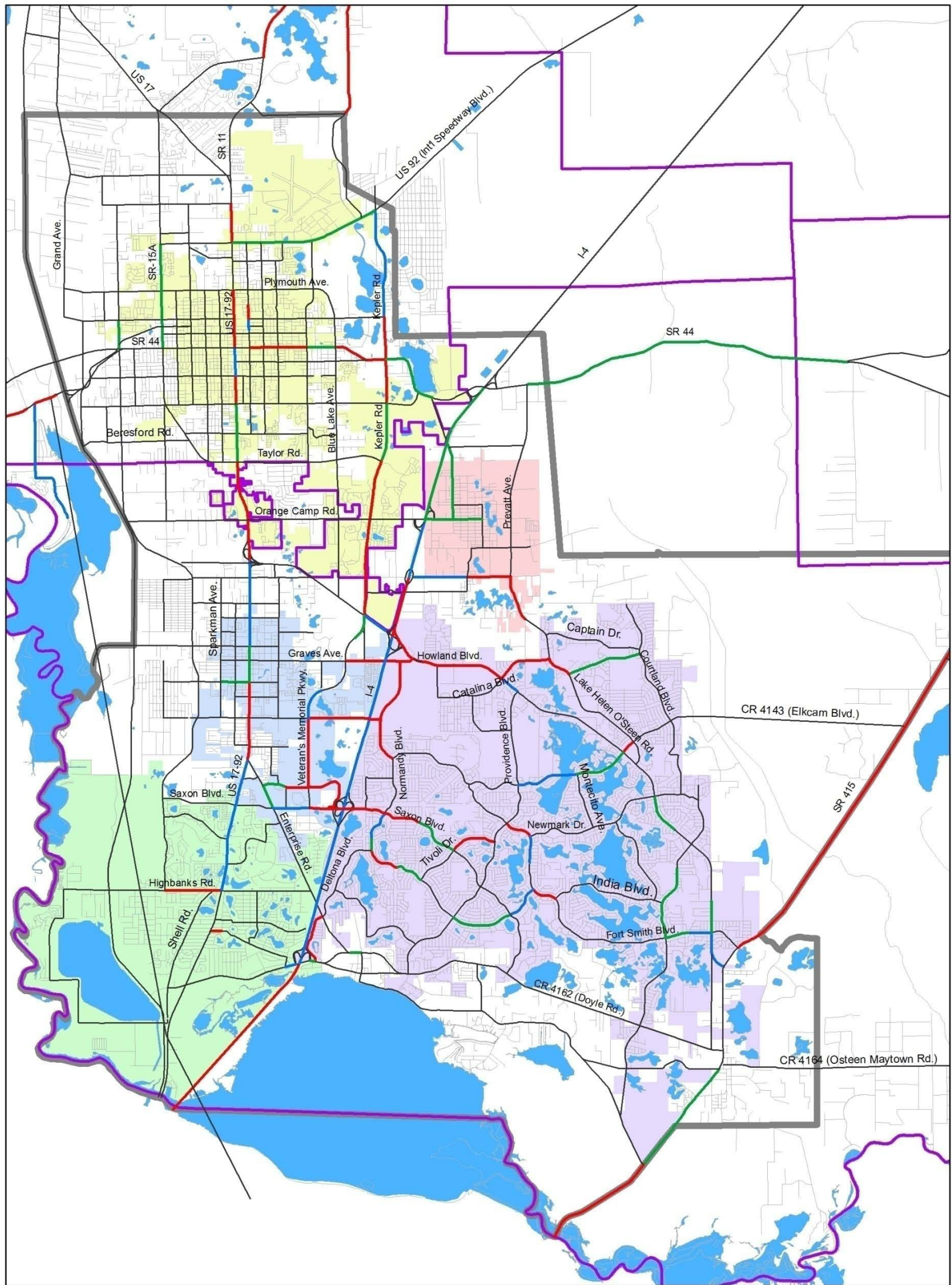
DELAND

DELTONA

LAKE HELEN

ORANGE CITY





LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

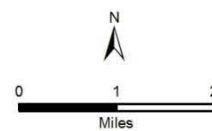
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- >=1.00

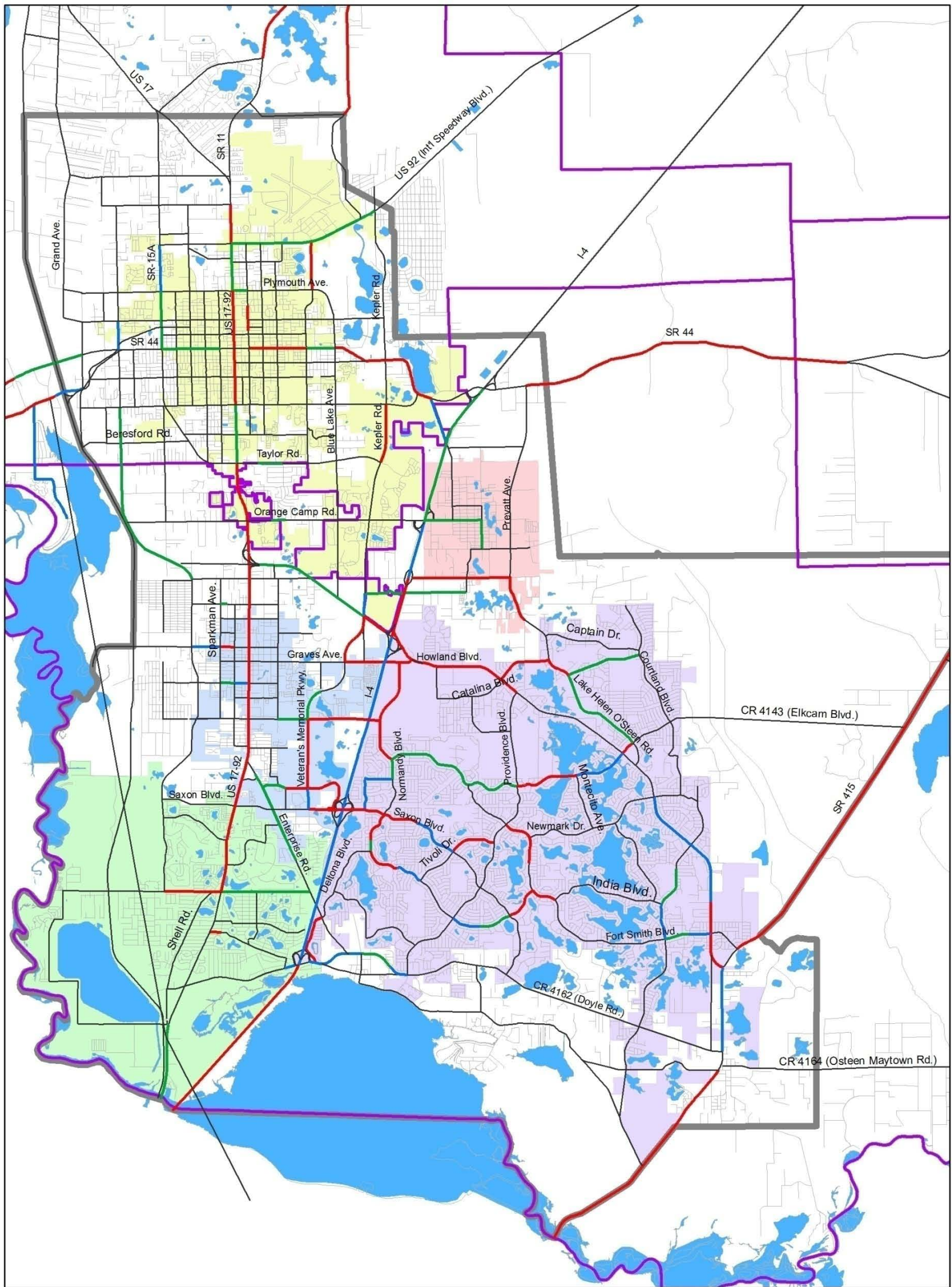
**Southwest
Volusia Regional
Transportation Study**

**Scenario 1A
(2015)**



(Map Created June 21, 2010)

Figure 12: Scenario 1 Alternative 2015 (A)



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

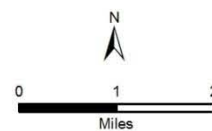
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- >=1.00

**Southwest
Volusia Regional
Transportation Study**

**Scenario 1B
(2025)**



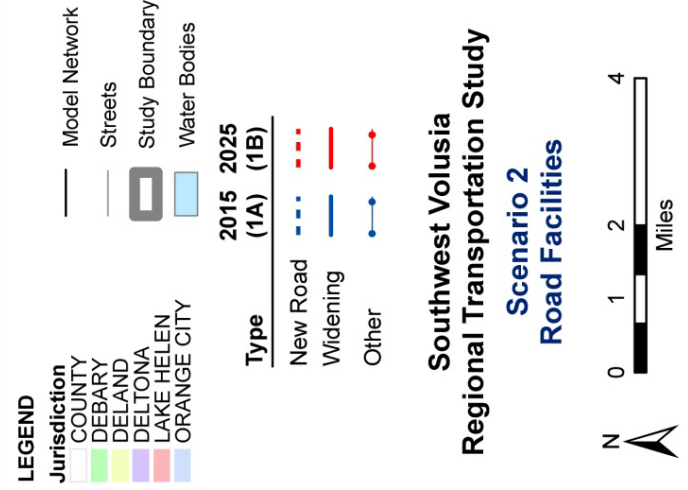
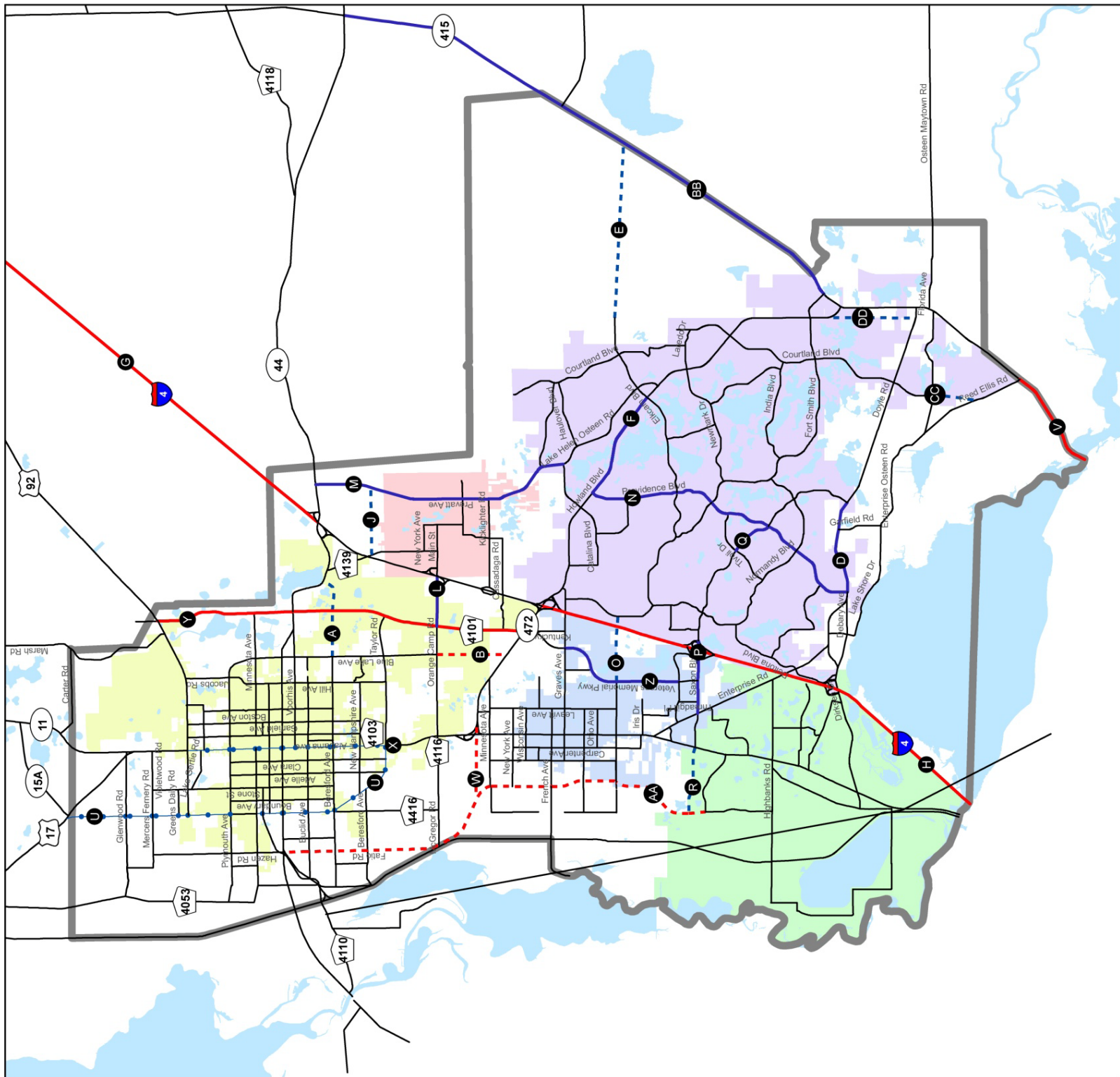
(Map Created June 21, 2010)

Figure 13: Scenario 1 Alternative 2025 (B)

Scenarios 2A & 2B - Road Facilities

Label	Facility/Road Name	Limits (From - To)	Improvement Description	Scenarios 2A (2015)	Scenarios 2B (2025)	Agency	Length (miles)	Cost Estimates*	
A	Beresford Ave Extension	Blue Lake to SR 44	New 2 Ln Road	Yes	Yes	DeLand	1.50	\$7,869,090	
B	Blue Lake Extension	Orange Camp Rd. to SR 472	New 2 Ln Road	No	Yes	DeLand	1.40	\$7,345,016	
D	Dixson/DeBarry/Coyle	Providence Blvd to Saxon Blvd	Widen to 4 Ln	Yes	Yes	Deltona	2.70	\$15,854,536	
E	Elkcam Blvd Extension	Terminus to SR 415	New 2 Ln Road	Yes	Yes	Deltona	4.00	\$20,965,759	
F	Howland Blvd	Providence Blvd to Elkcam Blvd	Widen to 4 Ln	Yes	Yes	Deltona	2.10	\$12,331,306	
G	I-4	SR 44 to US 92	Widen to 6 Ln	NO	NO	County & FOOT	10.50	\$85,356,134	
H	I-4	SR 472 to Seminole Co.	Widen to 8 Ln	NO	NO	County & FOOT	9.30	\$80,538,220	
J	McKenzie Extension	Terminus @ North Ave to Prewatt Ave	New 2 Ln Road	Yes	Yes	Lk. Helen	1.30	\$6,820,372	
L	Orange Camp Rd.	W. Volusia Bldg (MLK) to I-4	Widen to 4 Ln	Yes	Yes	DeLand	1.00	\$5,872,050	
M	Prewatt Ave	SR 44 to Catalina Blvd	Widen to 4 Ln	Yes	Yes	Lk. Helen	6.90	\$40,517,147	
N	Providence Blvd	Howland Blvd to Dixson/DeBarry/Coyle	Widen to 4 Ln	Yes	Yes	Deltona	5.40	\$31,799,072	
O	Rhode Island Extension	Eastern terminus to Normandy Blvd	New 2 Ln Road	Yes	Yes	Orange City & Deltona	1.80	\$9,443,592	
P	Saxon Blvd	Enterprise Rd to I-4	Widen to 6 Ln	Yes	Yes	County	1.80	\$12,402,853	
Q	Saxon Blvd	Trail Dr. to Providence Blvd	Widen to 4 Ln	Yes	Yes	Deltona & County	0.90	\$5,284,845	
R	Saxon Blvd	US 17/92 to Rail Line	New 2 Ln	Yes	Yes	County	1.92	\$10,073,165	
U	SR 15A	US 92 to US 17	Change LOS from D to C	Yes	Yes	DeLand	-	-	
V	SR 415	Reed-Elle Rd to Seminole Co.	Widen to 4 Ln	No	Yes	Deltona & County	1.50	\$8,870,936	
W	SR 472 Extension	Extend west to Westside Pkwy	New 4 Ln Road	No	Yes	County	1.25	\$10,326,111	
X	US 17/92	US 92 to SR 15A	Change LOS from C to E	Yes	Yes	DeLand	-	-	
Y	W. Volusia Bldg (Kegler/MLK)	US 92 to SR 472	Widen to 4 Ln	No	Yes	DeLand	7.05	\$41,397,855	
Z	W. Volusia Bldg (VIP)	Graves to Harley Strickland	Widen to 4 Ln	Yes	Yes	County	2.72	\$15,971,977	
AA	Westside Pkwy	SR 44 to DiBarry Plantation	New 2 Ln Road	No	Yes	Orange City, DeLand & County	9.20	\$46,267,247	
BB	SR 415	SR 44 to Ft. Smith	Widen to 4 Ln	Yes	Yes	Deltona	10.00	\$59,139,574	
CC	Courtland Extension	Terminus to Reed Ellis Rd	New 2 Ln Road	Yes	Yes	Deltona	0.64	\$4,407,009	
DD	Howland Extension	Terminus to Doyle Rd.	New 2 Ln Road	Yes	Yes	Deltona	1.66	\$8,709,090	
TOTALS								\$8.74	\$549,495,628

* Cost Estimates are based on Volusia County's cost-per-mile (\$11/footprint), which includes construction and right-of-way costs. However, State Roads were calculated based on the centerline mile costs published for stateroads.



Southwest Volusia Regional Transportation Study Scenario 2 Road Facilities

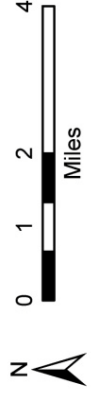
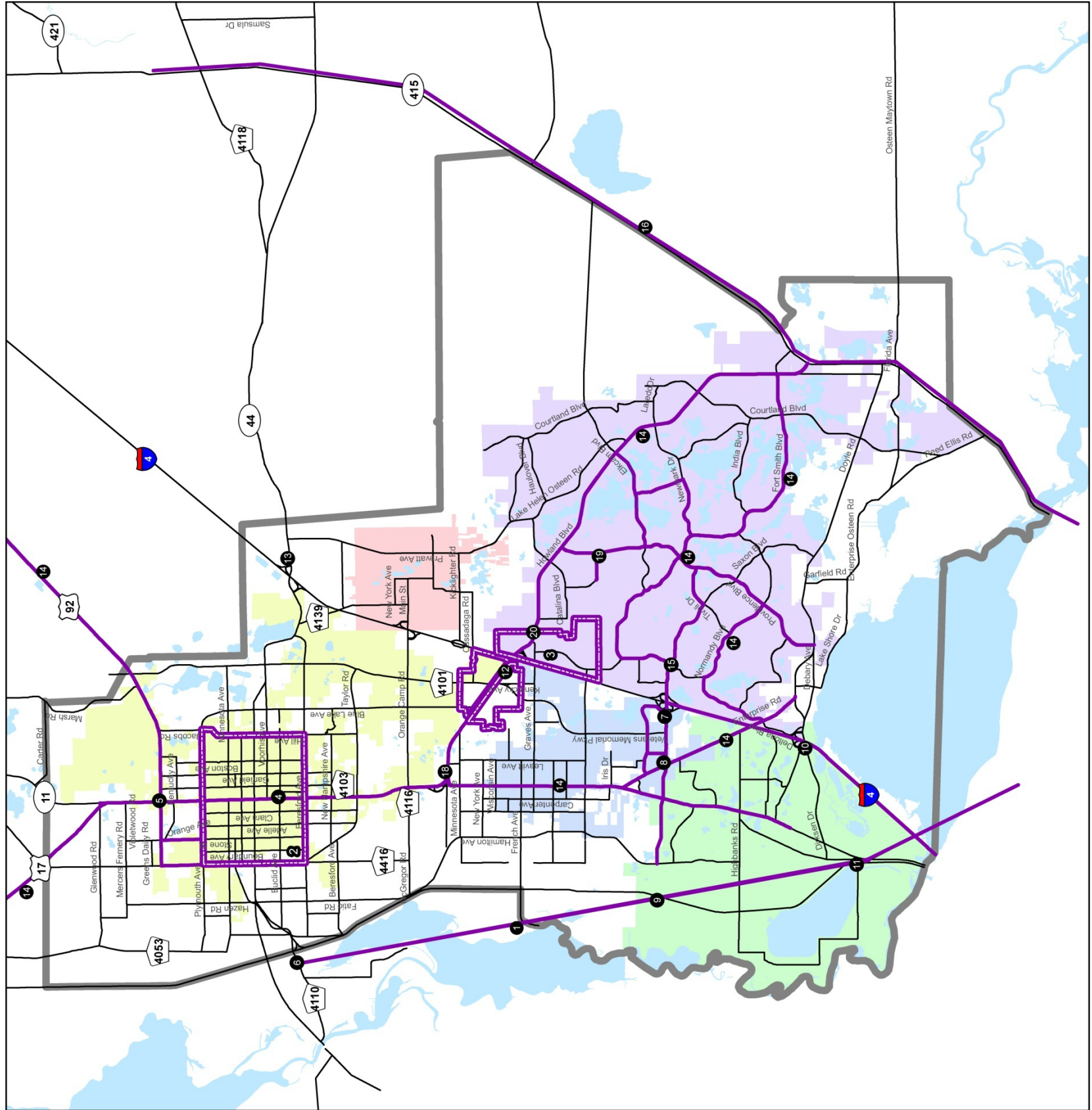


Figure 14: Scenario 2 Alternative Road Improvements

Scenarios 2A & 2B – Multimodal Facilities

Label	Multimodal Facilities	Description	Scenarios	
			2A (2015)	2B (2025)
1	Commuter Rail	Trip reduction on I-4	5%	10%
2	MMTD - Plymouth/Hill/Beresford/SR 15A boundary limits	TCEA Analysis	Yes	Yes
3	Southwest Activity Center	Trip reduction in area	3%	5%
4	Euclid @ US 17/92 (ITF)	Trip reduction in area	3%	5%
5	US 17/92 @ US 92/ISB (Super Stop)	Trip reduction in area	3%	5%
6	Commuter Rail @ Old New York (Train Station)	Trip reduction in area	3%	5%
7	Saxon @ I-4 (Park and Ride)	Trip reduction in area	3%	5%
8	Saxon @ Enterprise Road (Super Stop)	Trip reduction in area	3%	5%
9	Commuter Rail Stop (Saxon at CSX)	Trip reduction in area	0%	5%
10	I-4 @ Driksen (Park and Ride)	Trip reduction in area	3%	5%
11	Commuter Rail at US 17/92/FL Florida Rd	Trip reduction in area	3%	5%
12	I-4 at Southwest Activity Center (Park and Ride)	Trip reduction in area	3%	5%
13	I-4 at SR 44 (Park and Ride)	Trip reduction in area	3%	5%
14	Existing & new transit routes (includes SR 472/Howland)	Trip reduction in area	3%	5%
15	Saxon @ Normandy (Park and Ride)	Trip reduction in area	3%	5%
16	Rail line parallel to SR 415 connecting Daytona Beach and the Sanford Amtrak station	Trip reduction in area	0%	5%
17	Rail line along the power line easements to connect Section 16 with the Sunrail station in Orange City or DeBary	Trip reduction in area	0%	5%
18	US 17/92 and SR 472 (Super Stop)	Trip reduction in area	3%	5%
19	Deltona Library (Park and Ride)	Trip reduction in area	3%	5%
20	Howland Blvd. (Park and Ride)	Trip reduction in area	3%	5%



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY
- Water Bodies

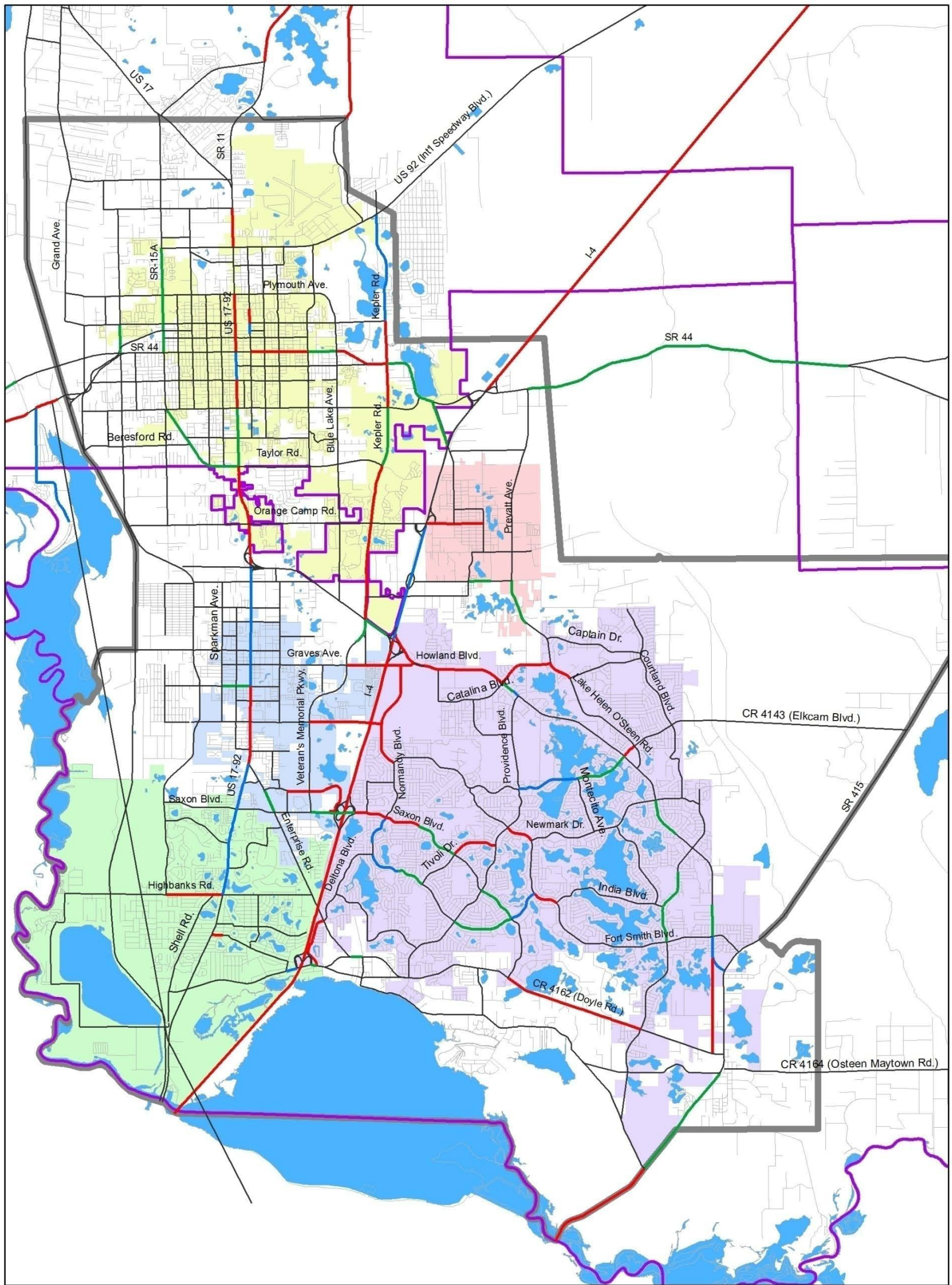
Multimodal Facilities

- Multimodal Facilities
- Model Network
- Streets
- ▭ Study Boundary

Southwest Volusia
Regional Transportation Study
Scenario 2
Multimodal Facilities



Figure 15: Scenario 2 Alternative Multimodal Improvements



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

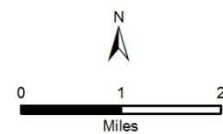
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- ≥ 1.00

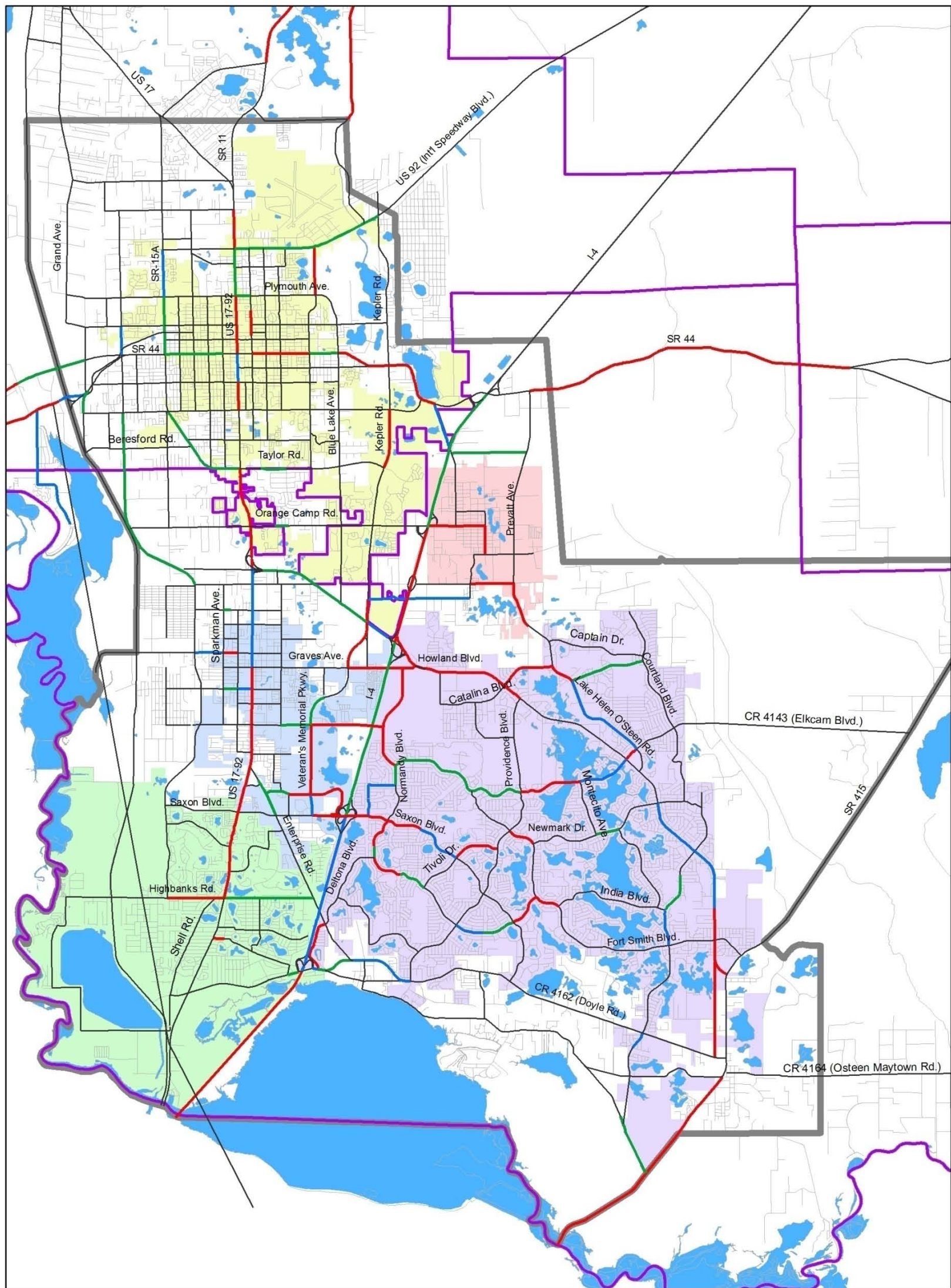
**Southwest
Volusia Regional
Transportation Study**

**Scenario 2A
(2015)**



(Map Created June 21, 2010)

Figure 16: Scenario 2 Alternative 2015 (A)



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

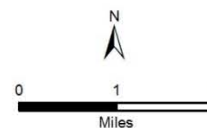
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- ≥ 1.00

**Southwest
Volusia Regional
Transportation Study**

**Scenario 2B
(2025)**



(Map Created June 21, 2010)

Figure 17: Scenario 2 Alternative 2025 (B)

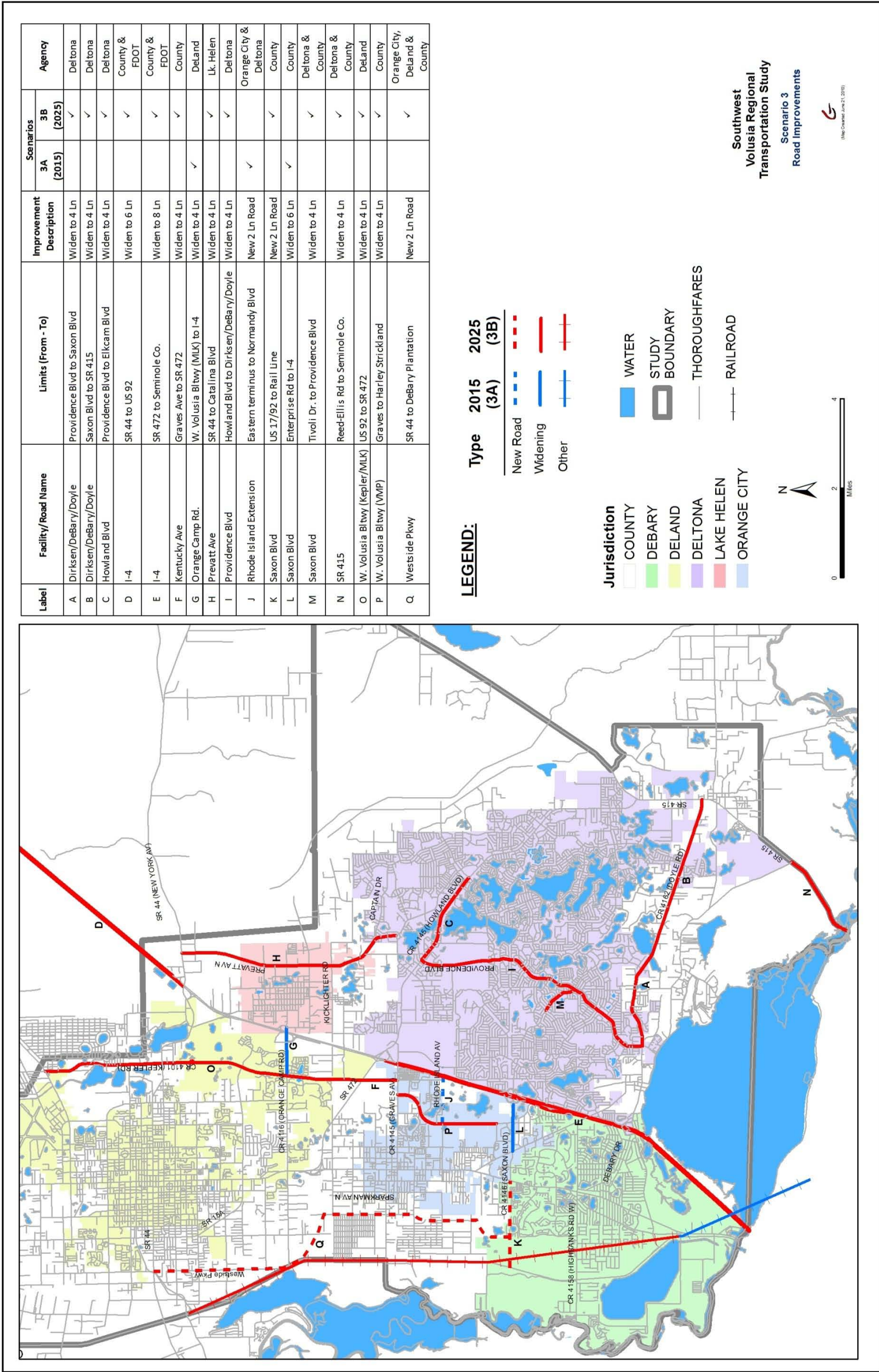


Figure 18: Scenario 3 Alternative Road Improvements

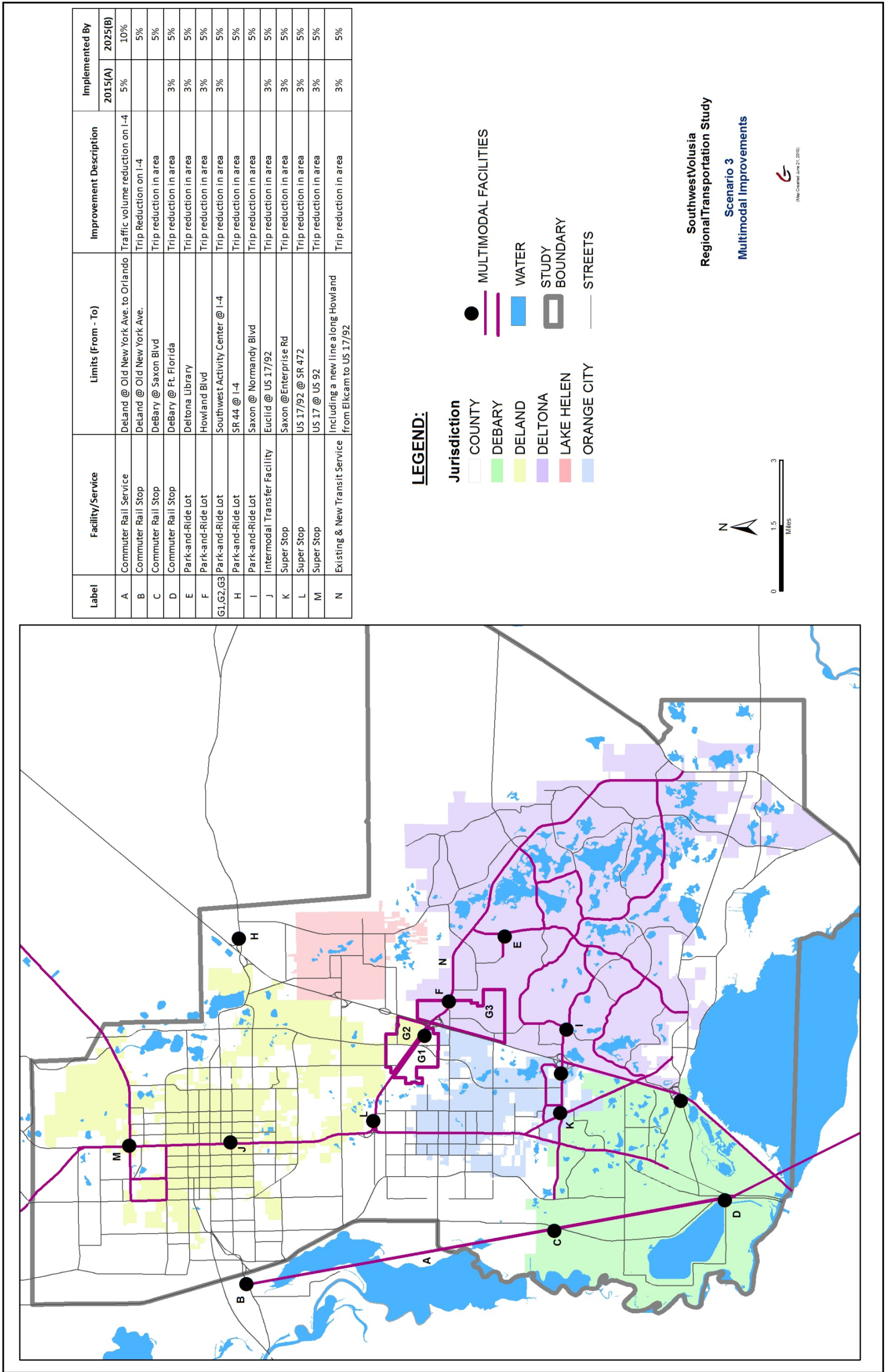
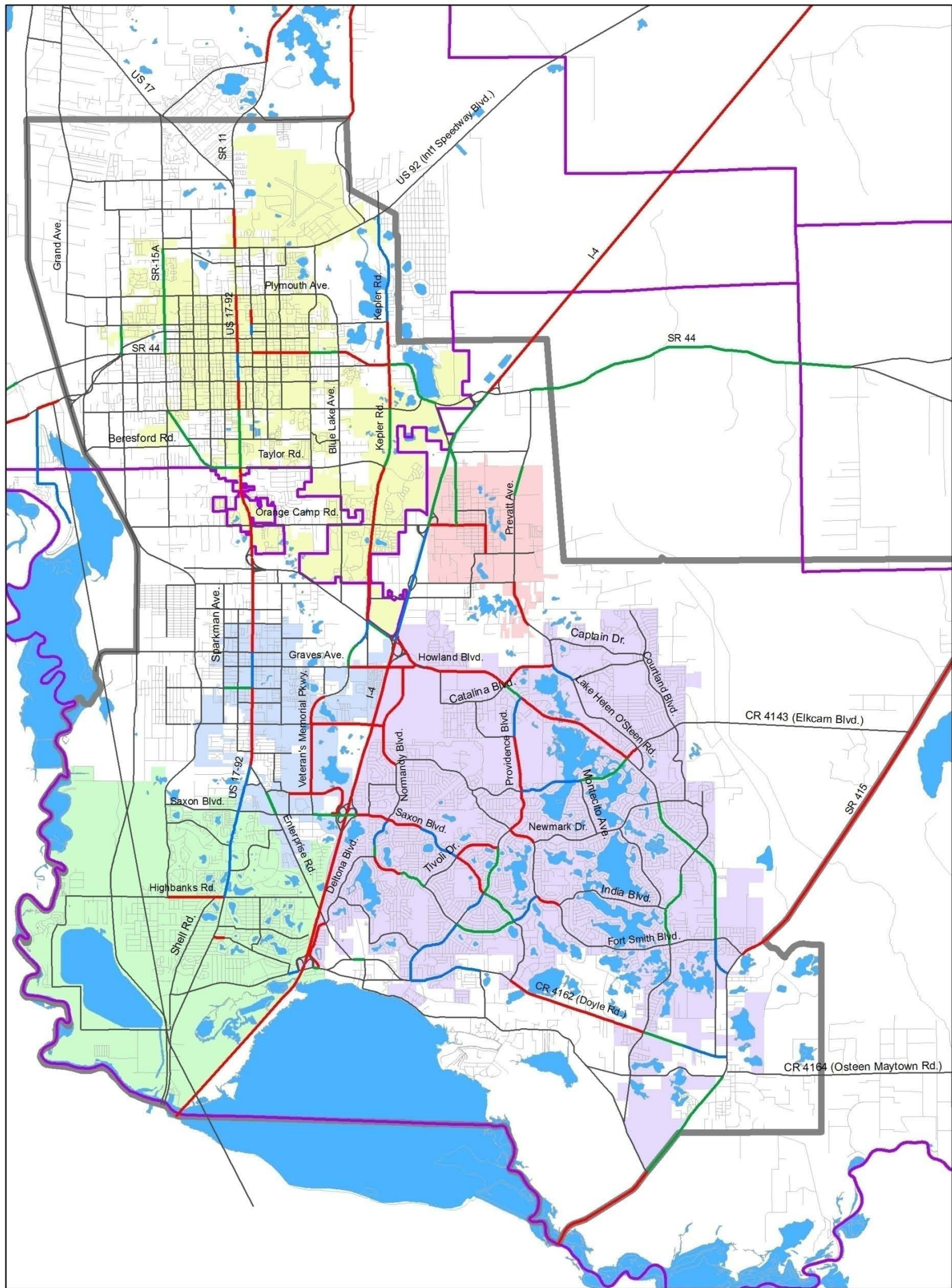


Figure 19: Scenario 3 Alternative Multimodal Improvements



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

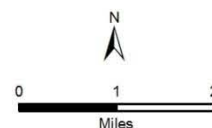
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- ≥ 1.00

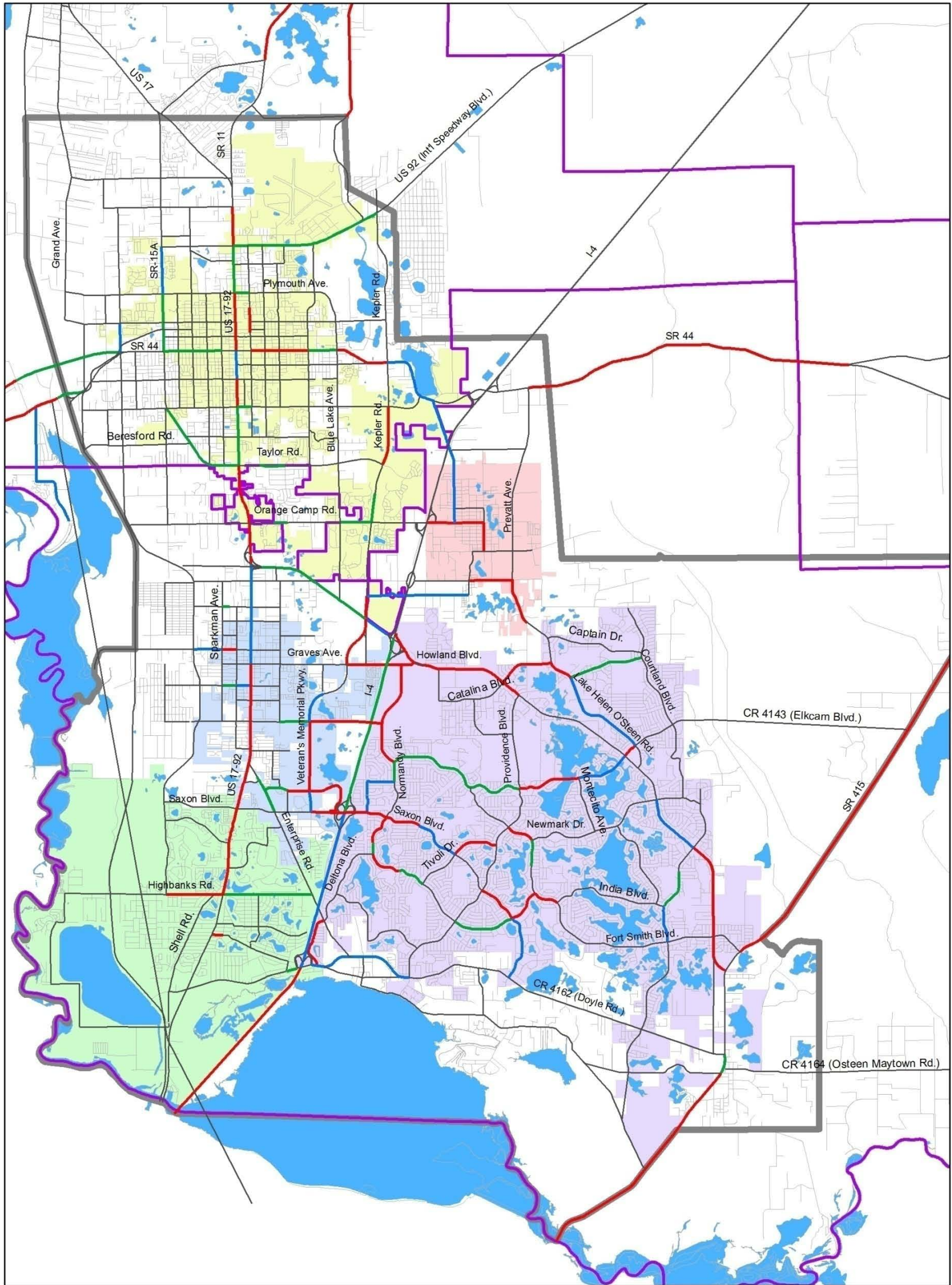
**Southwest
Volusia Regional
Transportation Study**

**Scenario 3A
(2015)**



(Map Created June 21, 2010)

Figure 20: Scenario 3 Alternative 2015 (A)



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

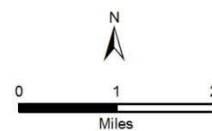
- WATER
- STUDY BOUNDARY
- IMPACT FEE ZONES
- STREETS

V/C Ratios

- 0.00 - 0.79
- 0.80 - 0.89
- 0.90 - 0.99
- ≥ 1.00

**Southwest
Volusia Regional
Transportation Study**

**Scenario 3B
(2025)**



(Map Created June 21, 2010)

Figure 21: Scenario 3 Alternative 2025 (B)

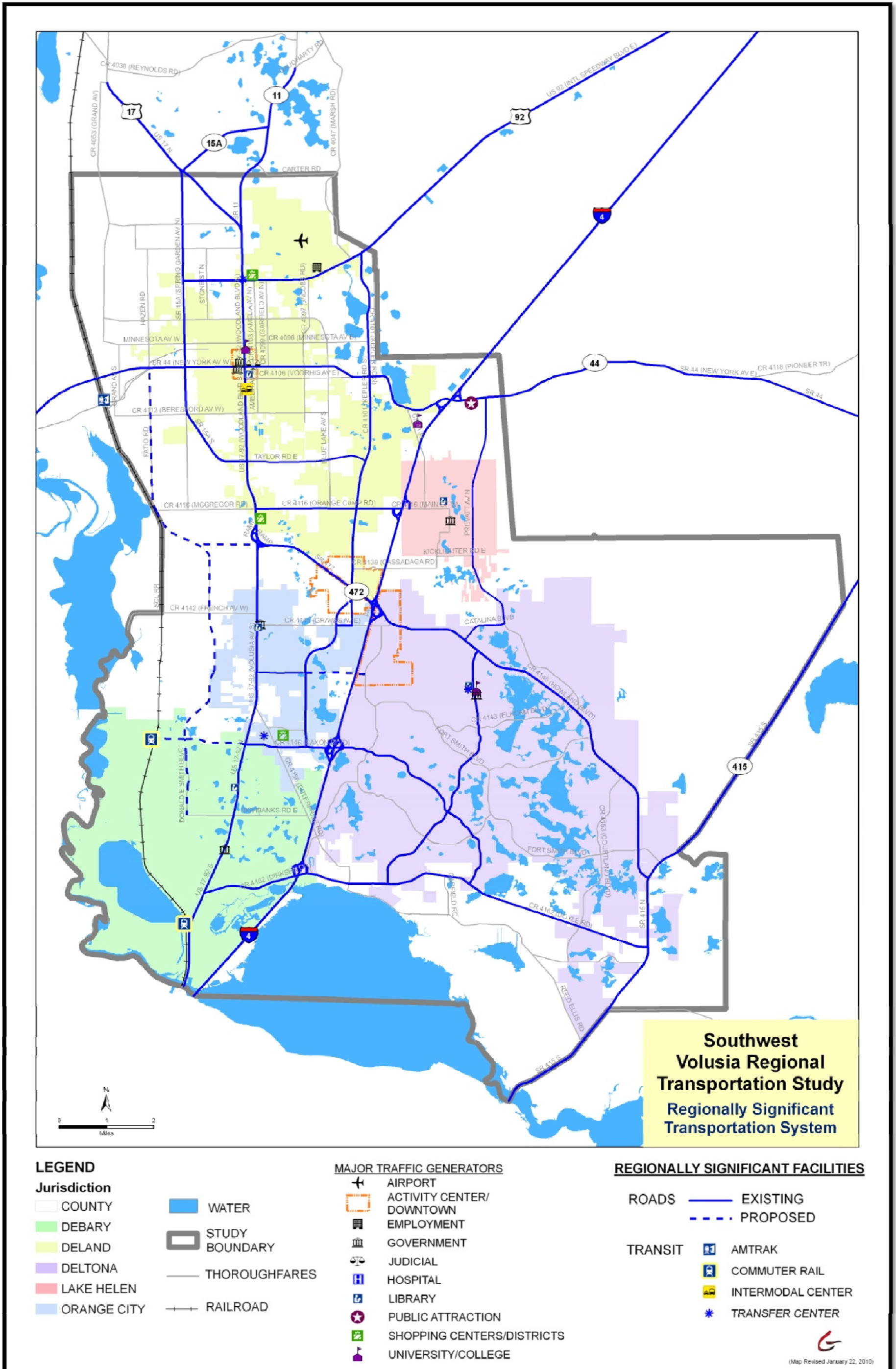
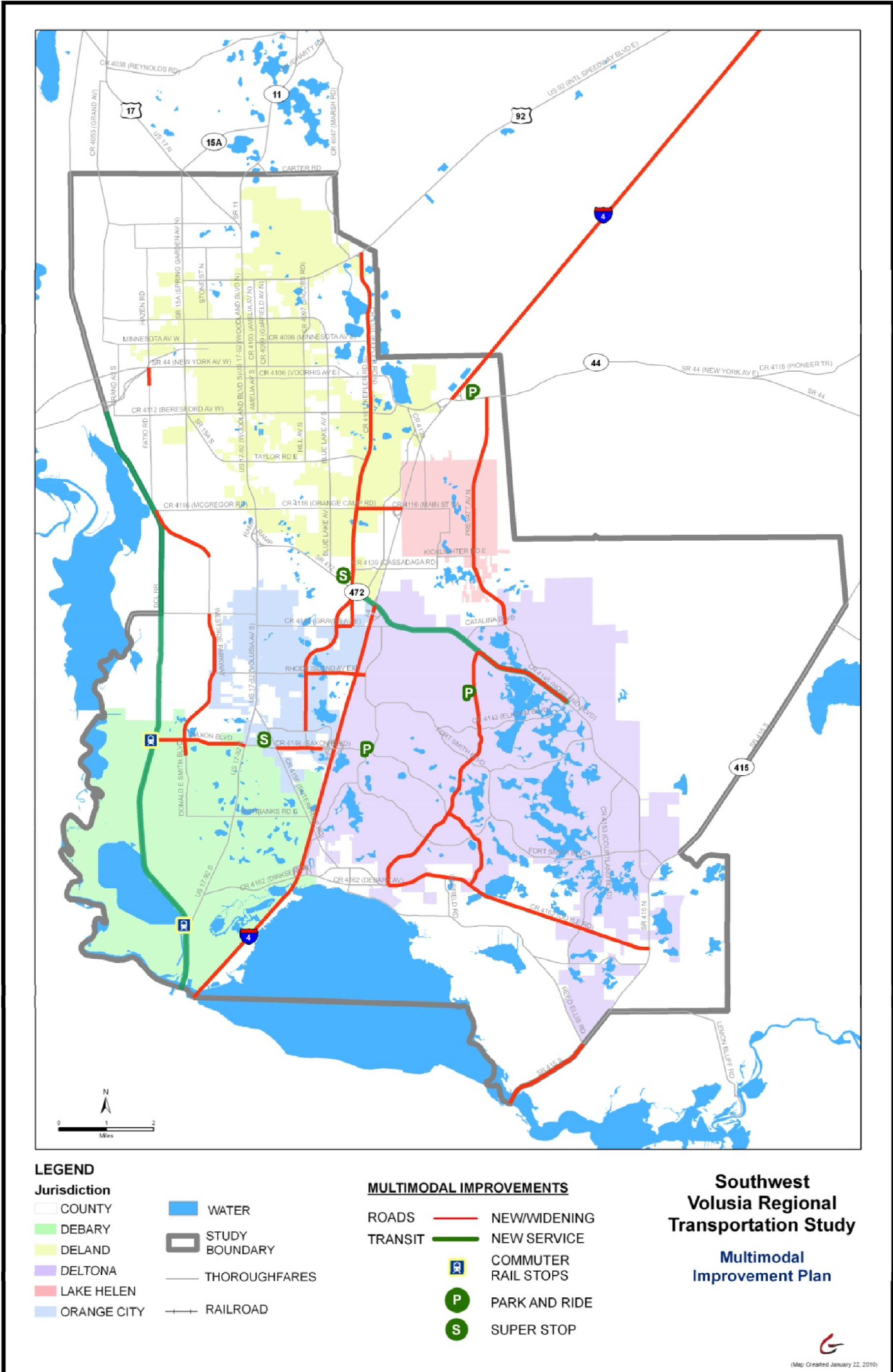


Figure 22: Regionally Significant Transportation System



LEGEND

Jurisdiction

- COUNTY
- DEBARY
- DELAND
- DELTONA
- LAKE HELEN
- ORANGE CITY

- WATER
- ▭ STUDY BOUNDARY
- THOROUGHFARES
- RAILROAD

MULTIMODAL IMPROVEMENTS

- ROADS — NEW/WIDENING
- TRANSIT — NEW SERVICE
- COMMUTER RAIL STOPS
- P PARK AND RIDE
- S SUPER STOP

**Southwest
Volusia Regional
Transportation Study**
**Multimodal
Improvement Plan**



(Map Created January 22, 2010)

Figure 23: Multimodal Improvement Plan