

OFF-SYSTEM HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) EVALUATION REPORT

Safety Study for Improvements to South 14th Street (from Sadler Road to Hickory Street) and Sadler Road (from 8th Street to east of Citrona Drive)

Prepared for:

Nassau County Public Works Engineering Services

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General Engineering Consulting Services

Contract No.: CM2287

P&Y Project No.: 15-020-06

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November 1, 2018

I, Russell Yaffee, PE # 64513, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide engineering services in the civil discipline contained in this plan, print, specification or report.

Project: Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)

Location: Nassau County, Florida

Client: Nassau County Public Works, Engineering Services

I further certify that this plan, print, specification or report was prepared by me or under my responsible charge as defined in Chapter 61G15-18.001 F.A.C. Moreover, if offered by a corporation, partnership or through a fictitious name, I certify that the company offering engineering services, Peters and Yaffee, Inc., 9822 Tapestry Park Circle, Suite 205, Jacksonville, Florida 32246, holds an active certificate of authorization # 28258 to provide the engineering service.



Name: Russell Yaffee, PE, PTOE
PE No: 64513
Date: 11/1/18

Table of Contents

Executive Summary	4
Introduction	6
Existing Conditions	6
Planned Roadway Improvements	10
Collision Analysis	11
Qualitative Assessment	14
Concept Plans	15
Estimated Cost, Benefit/Cost Analyses and Net Present Values	15
Recommendations	16

List of Figures

Figure 1: South 14th Street Project Location Map	7
Figure 2: South 14th Street Typical Section	8
Figure 3: Sadler Road Project Location Map	9
Figure 4: Sadler Road Typical Section	10
Figure 5: Crash Summary by Harmful Event (South 14th Street)	12
Figure 6: Percentage of Crashes by Harmful Event (South 14th Street)	12
Figure 7: Crash Summary by Harmful Event (Sadler Road)	13
Figure 8: Percentage of Crashes by Harmful Event (Sadler Road)	14

Appendices

Appendix A: Traffic Data	
Appendix B: Collision Summary and Diagrams (South 14 th Street)	
Appendix C: Collision Summary and Diagrams (Sadler Road)	
Appendix D: Concept Plan (South 14 th Street)	
Appendix E: Concept Plans (Sadler Road)	
Appendix F: Benefit/Cost and Net Present Value Analyses, Engineer's Probable Cost of Construction	
Appendix G: FHWA Crash Modification Factors	

Executive Summary

Nassau County retained Peters and Yaffee to perform a Safety Study for improvements to two traffic corridors located in Nassau County (South 14th Street and Sadler Road). These will be part of a grant application by Nassau County for funding through the Off-System Highway Safety Improvement Program (HSIP). The study corridor along South 14th Street extends from Sadler Road to Hickory Street as shown in Figure 1. The second corridor, located along Sadler Road, begins at SR 200 and ends at Citrona Drive/Will Hardee Road as shown in Figure 3. The recommended improvements were evaluated based on their feasibility.

The scope of this HSIP evaluation was based on the collision analysis, field reviews and discussion with Nassau County Engineering Office. Benefit/cost (B/C) and net present value (NPV) analyses were performed to assess countermeasure potential in reducing crashes. The scopes of improvements to potentially reduce crashes on South 14th Street and Sadler Road are as follows:

South 14th Street

- Replace the two-way left-turn lane with a raised median.
- Install left-turn flashing yellow arrow signals and signs.
- Restripe all pavement markings with the exception of the special emphasis crosswalks that are being proposed under FDOT project 44120615201.
- Install or replace bike lane signage where needed.

Sadler Road

- Replace the two-way left-turn lane with a raised median.
- Install left-turn flashing yellow arrow signals and signs.
- Restripe all pavement markings with the exception of the special emphasis crosswalks that are being proposed under FDOT project 44120615201.
- Install or replace bike lane signage where needed.

Benefit/cost (B/C) and net present value (NPV) analyses were performed for South 14th Street and Sadler Road.

The results of the analyses and evaluations concluded the following:

South 14th Street

- The estimated cost for the proposed improvements is **\$539,953.41**.
- The benefit/cost ratio was calculated as **4.09**.
- The net present value (NPV) was calculated as **\$1,635,750.61**.

Sadler Road

- The estimated cost for the proposed improvements is **\$342,904.11**.
- The benefit/cost ratio was calculated as **6.08**.
- The net present value (NPV) was calculated as **\$1,667,829.50**.

Based on the benefit/cost analyses performed in this study, we recommend the concept plans as presented. They all satisfy the minimum benefit/cost ratio requirement of 2.0 and NPV > 0, which makes both South 14th Street and Sadler Road projects eligible for safety funds consideration.

Introduction

This traffic analysis was prepared for Nassau County as a part of the county's application for funding via the Off-System Highway Safety Improvement Program (HSIP). A corridor safety study was performed for two traffic corridors located in Nassau County (South 14th Street and Sadler Road). The corridor located along South 14th Street covers from Sadler Road to Hickory Street, spanning a length of approximately 1.42 miles. The corridor along Sadler Road starts at SR 200 and ends at Citrona Drive/Will Hardee Road, covering approximately 0.57 miles. The study includes a review of the existing five-year crash history and a cost-benefit analysis for proposed improvements in both corridors.

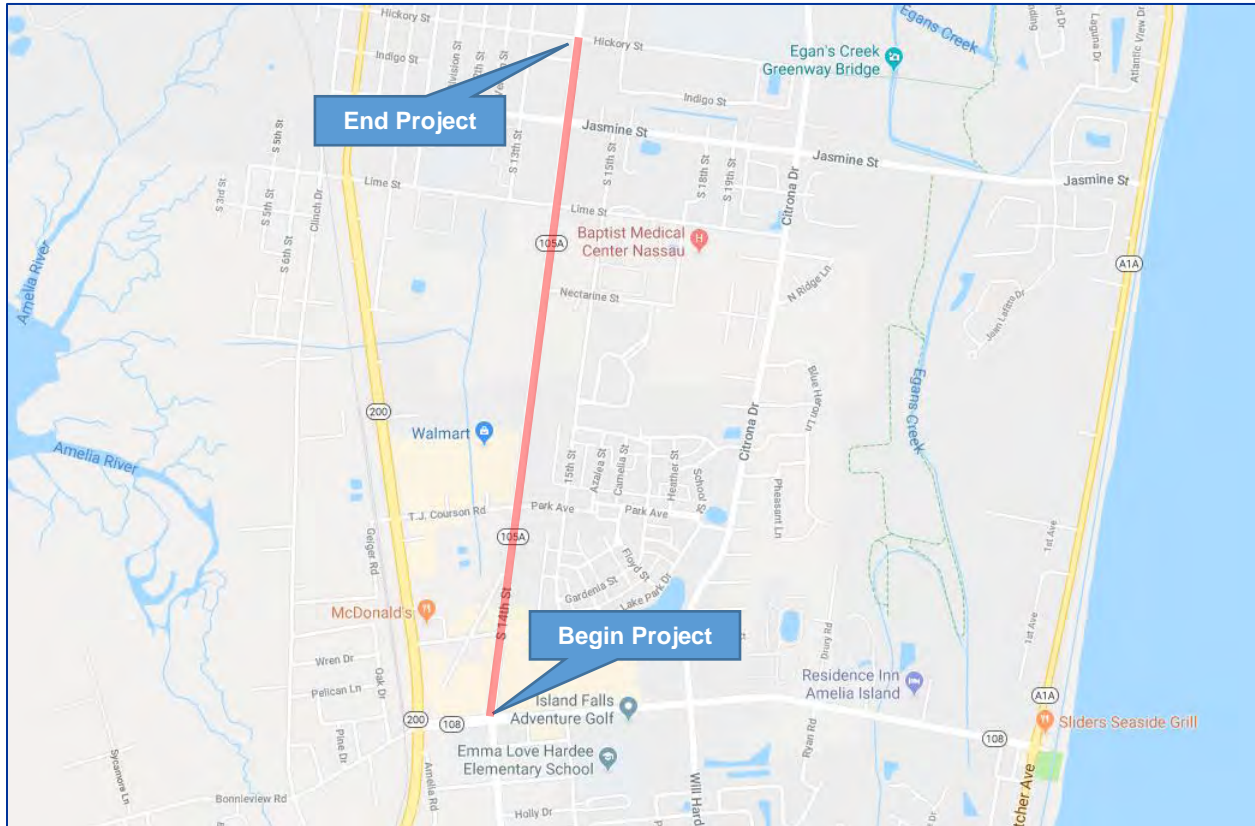
Existing Conditions

This evaluation included determining the feasibility of the requested improvements, adding the necessary components to meet Florida "Green Book" requirements and completing a safety study on South 14th Street and Sadler Road in Nassau County, Florida. The analysis methods used in conducting this study are consistent with those set forth in the Manual on Uniform Traffic Control Devices (MUTCD), the Manual on Uniform Traffic Studies (MUTS), FDOT District 2 guidelines and procedures, 2018-19 Standard Plans and engineering judgment.

South 14th Street

The limits of the study along South 14th Street are from Sadler Road to Hickory Street, a distance of approximately 1.42 miles. South 14th Street is currently an urban five-lane undivided road that runs in a general north/south direction located in Nassau County, Florida. There is a two-way left-turn lane present throughout the majority of the corridor, which becomes a dedicated left-turn lane at the intersections. The Project Location Map is shown in Figure 1.

Figure 1: South 14th Street Project Location Map



The typical cross-section of South 14th Street includes approximately 11-foot lanes and 5-foot bike lanes in each direction as shown in Figure 2.

Figure 2: South 14th Street Typical Section

The 2017 Florida Traffic Online identifies the AADT for South 14th Street to be 18,500 vehicles per day (see Appendix A). The posted speed limit is 45 mph from Sadler Road to Lime Street and 35 mph from Lime Street to Hickory Street.

Along the corridor, there are four signalized intersections with their signal head configurations for the left-turn movements summarized as follows:

1. South 14th Street at Sadler Road: 5-section signal heads on all approaches.
2. South 14th Street at TJ Courson Road/Park Avenue: 5-section signal heads on all approaches.
3. South 14th Street at Lime Street: 5-section signal heads on northbound/southbound approaches and two 3-section signal heads on eastbound/westbound approaches.
4. South 14th Street at Jasmine Street: 5-section signal heads on northbound/southbound approaches and two 3-section signal heads on eastbound/westbound approaches.

Signal backplates are provided at several intersections, summarized as follows:

1. South 14th Street at Sadler Road: signal backplates on all approaches.
2. South 14th Street at Lime Street: signal backplates only on eastbound/westbound

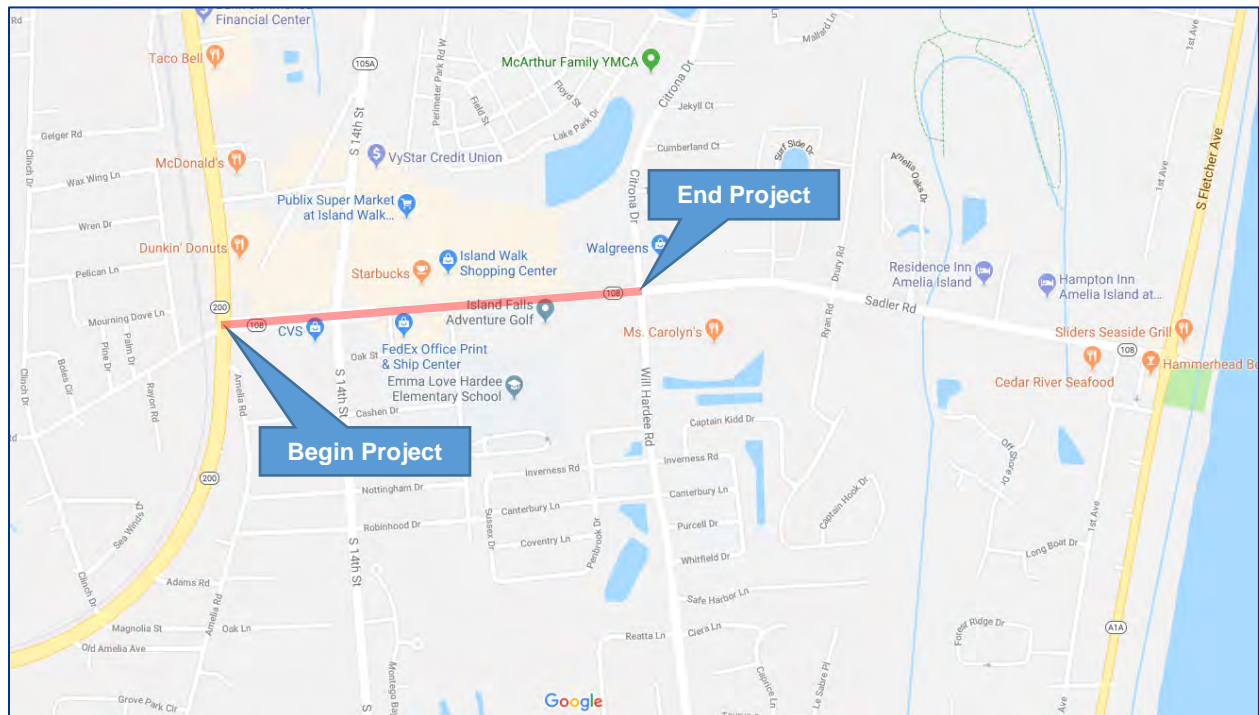
approaches.

3. South 14th Street at Jasmine Street: signal backplates only on eastbound/westbound approaches.

Sadler Road

The limits of the study along Sadler Road are from SR 200 to Citrona Drive/Will Hardee Road, a distance of approximately 0.57 miles. Sadler Road is currently an urban five-lane undivided road that runs in a general east/west direction located in Nassau County, Florida. There is a two-way left-turn lane present throughout the majority of the corridor, which becomes a dedicated left turn at intersections. The Project Location Map is shown below in Figure 3.

Figure 3: Sadler Road Project Location Map



The typical cross-section of Sadler Road includes 11-foot lanes and 5-foot bike lanes in each direction as shown in Figure 4.

Figure 4: Sadler Road Typical Section

The 2017 Florida Traffic Online identifies the AADT for River Road to be 15,600 vehicles per day (see Appendix A). The posted speed limit is 35 mph.

There are three signalized intersections with their signal head configurations for the left-turn movements summarized as follows:

1. Sadler Road at SR 200: 5-section signal heads on all approaches except for west-bound, which has two 3-section signal heads.
2. Sadler Road at South 14th Street: 5-section signal heads on all approaches.
3. Sadler Road at Citrona Drive/Will Hardee Road: 5-section signal heads on all approaches.

Signal backplates are provided at several intersections, summarized as follows:

1. Sadler Road at SR 200: signal backplates on all approaches.
2. Sadler Road at South 14th Street: signal backplates on all approaches.

Planned Roadway Improvements

The Florida Department of Transportation Work Program, North Florida Transportation Planning Organization (TPO) List of Priority Projects and Nassau County Transportation

Improvement Plan were reviewed for any current or future planned improvements for this roadway. There are currently proposed plans under FDOT project 44120615201 to restripe the existing crosswalks at the following intersections:

- South 14th Street at Sadler Road
- South 14th Street at T.J. Courson Road
- South 14th Street at Lime Street
- South 14th Street at Jasmine Street
- Sadler Road at Citrona Drive

These specific crosswalks will be exempted from any proposed pavement marking improvements in this study.

Collision Analysis

A collision analysis was performed for a five-year period to determine the types of collisions occurring along South 14th Street from Sadler Road to Hickory Street and along Sadler Road from SR 200 to Citrona Avenue/Will Hardee Road. Traffic crash reports were obtained from Signal Four Analytics for the reporting period of January 1, 2013 to December 31, 2017. Crashes that occurred in adjacent parking lots or outside of the study limits were excluded from the crash analysis. For each crash included, the corresponding crash report narrative was reviewed to gain a better understanding of the crash and to ensure the details of the crash were coded correctly.

South 14th Street

A total of 123 collisions were reported along the entire corridor during the review period. The crash data from the crash reports were examined to determine any significant trends in the circumstances surrounding those crashes. The findings are listed below and also shown in Figures 5 and 6:

- The crash rate was estimated at 2.47 per Million Vehicle Miles (MVM).
- The predominant crash type was “Rear-end” with approximately 40% of the crashes.
- The second most common crash type was “Left-turn” which comprised approximately 13% of the crashes.
- Approximately 28% of the crashes involved injuries.
- The number of crashes increased steadily from 2013 to 2016 before dropping by approximately 30% in 2017.
- Approximately 11% of the crashes occurred under dark conditions.
- Approximately 8% of the crashes occurred on wet pavement.
- Alcohol was a factor in approximately 2% of the crashes.

Figure 5: Crash Summary by Harmful Event (South 14th Street)

Summary of Crashes by Harmful Event						
Harmful Event	2013	2014	2015	2016	2017	Grand Total
Head-on	0	1	6	4	3	14
Rear-End	5	13	11	11	9	49
Left-Turn	3	3	3	4	3	16
Right-Turn	0	4	0	2	1	7
Angle	1	4	1	6	3	15
Sideswipe	0	1	3	3	2	9
Run off the Road	1	0	0	0	0	1
Rollover	0	0	1	0	1	2
Bicycle	1	1	0	1	0	3
Pedestrian	1	1	0	0	0	2
All Others	1	0	1	2	1	5
Total	13	28	26	33	23	123

Source: Signal Four Analytics (2013-2017)

Figure 6: Percentage of Crashes by Harmful Event (South 14th Street)

Crash Total by Harmful Event		
Harmful Event	Number of Crashes	Percentage of Crashes
Head-on	14	11.38%
Rear-End	49	39.84%
Left-Turn	16	13.01%
Right-Turn	7	5.69%
Angle	15	12.20%
Sideswipe	9	7.32%
Run off the Road	1	0.81%
Rollover	2	1.63%
Bicycle	3	2.44%
Pedestrian	2	1.63%
All Others	5	4.07%
Total	123	100.00%

Source: Signal Four Analytics (2013-2017)

A Collision Summary, as well as Collision Diagrams were prepared and are presented in Appendix B.

Sadler Road

A total of 89 collisions were reported along the entire corridor during the review period. The crash data from the crash reports were examined to determine any significant trends in the circumstances surrounding those crashes. The findings are listed below and also shown in Figures 7 and 8:

- The crash rate was estimated at 5.40 per MVM.
- The predominant crash type was “Rear-end” with approximately 30% of the crashes.
- The second most common crash type was “Left-turn” which comprised approximately 19% of the crashes.
- Approximately 19% of the crashes involved injuries.
- The number of crashes increased significantly from 2013 to 2014 and remained steady throughout the rest of the study.
- Approximately 12% of the crashes occurred under dark conditions.
- Approximately 11% of the crashes occurred on wet pavement.
- Alcohol was not a factor in any of the crashes.

Figure 7: Crash Summary by Harmful Event (Sadler Road)

Summary of Crashes by Harmful Event						
Harmful Event	2013	2014	2015	2016	2017	Grand Total
Head-on	0	0	0	6	4	10
Rear-End	3	8	8	5	3	27
Left-Turn	3	1	8	1	4	17
Right-Turn	0	0	0	1	2	3
Angle	0	4	1	0	2	7
Sideswipe	0	2	2	3	5	12
Run off the Road	0	0	0	0	0	0
Rollover	0	0	0	0	0	0
Bicycle	0	1	0	0	0	1
Pedestrian	0	0	0	0	0	0
All Others	2	4	4	2	0	12
Total	8	20	23	18	20	89

Source: Signal Four Analytics (2013-2017)

Figure 8: Percentage of Crashes by Harmful Event (Sadler Road)

Crash Total by Harmful Event		
Harmful Event	Number of Crashes	Percentage of Crashes
Head-on	10	11.24%
Rear-End	27	30.34%
Left-Turn	17	19.10%
Right-Turn	3	3.37%
Angle	7	7.87%
Sideswipe	12	13.48%
Run off the Road	0	0.00%
Rollover	0	0.00%
Bicycle	1	1.12%
Pedestrian	0	0.00%
All Others	12	13.48%
Total	89	100.00%

Source: Signal Four Analytics (2013-2017)

A collision summary as well as collision diagrams were prepared and are presented in Appendix C.

Qualitative Assessment

A qualitative field review was conducted on Thursday, June 14, 2018 to assess the existing conditions along both corridors. The following observations were noted:

- Both project corridors are located within an urban area.
- There are bike lanes along both project corridors.
- Existing pavement, pavement markings, and signs are generally in fair condition for both project corridors.
- In general, lighting is not provided on either project corridor.
- There are sidewalks on both sides of both project corridors.

It is worth noting that we have witnessed a considerable westbound left turn traffic backup at the intersection of Sadler Road and 8th Street that reached the intersection of South 14th Street. Also, the eastbound left turn traffic at the intersection of Sadler Road and South 14th Street was backed up and spilling out into the inside through travel lane. This was witnessed at 2:45 PM, which may warrant further observations and/or revisiting the signal timings for those two intersections.

Concept Plans

Based on the field review and the collision analysis, the following recommendations are being proposed in order to reduce the crashes:

South 14th Street

- Replace the two-way left-turn lane with a raised median.
- Install left-turn flashing yellow arrow signals and signs.
- Restripe all pavement markings with the exception of the special emphasis crosswalks that are being proposed under FDOT project 44120615201.
- Install or replace bike lane signage where needed.

The concept plans for South 14th Street can be found in Appendix D.

Sadler Road

- Replace the two-way left-turn lane with a raised median.
- Install left-turn flashing yellow arrow signals and signs.
- Restripe all pavement markings with the exception of the special emphasis crosswalks that are being proposed under FDOT project 44120615201.
- Install or replace bike lane signage where needed.

The concept plans for both options on Sadler Road can be found in Appendix E.

Estimated Cost, Benefit/Cost Analyses and Net Present Values

The FDOT Long Range Estimating (LRE) system was used to develop the cost estimates for the concept plans. The estimated costs for the proposed improvements were:

- South 14th Street: **\$539,953.41**
- Sadler Road: **\$342,904.11**

The Federal Highway Administration's Crash Modification Factor Clearinghouse website was used to select Crash Reduction Factors (CRF) for the proposed improvements. Based on the website, the following CRF values were used:

- Replace Two-Way Left Turn Lane (TWLTL) with raised median-**CMF ID 2514** (Applicable for Angle, Fixed object, Head on, Rear end, Run off road, Sideswipe, Single vehicle).
- Install left turn flashing yellow arrow signals and supplemental traffic signs-**CMF ID 7730** (Applicable for Left turn).

Using the HSIP Benefit-Cost Spreadsheet:

South 14th Street

- The benefit/cost ratio was calculated as **4.09**.
- The net present value (NPV) was calculated as **\$1,635,750.61**.

Sadler Road

- The benefit/cost ratio was calculated as **6.08**.
- The net present value (NPV) was calculated as **\$1,667,829.50**.

The benefit/cost and the Net Present Value analyses and the Engineer's Probable Cost of Construction can be found in Appendix F. The FHWA crash modification factors can be found in Appendix G.

Recommendations

Based on the benefit/cost analyses performed in this study, we recommend the concept plans as presented. They all satisfy the minimum benefit/cost ratio requirement of 2.0 and $NPV > 0$, which makes both South 14th Street and Sadler Road projects eligible for safety funds consideration.

**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



Appendix A - Traffic Data

FLORIDA DEPARTMENT OF TRANSPORTATION
2017 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 74 NASSAU

SITE =====	SITE TYPE =====	DESCRIPTION =====	DIRECTION 1 =====	DIRECTION 2 =====	AADT TWO-WAY =====	"K" FCTR =====	"D" FCTR =====	"T" FCTR =====
0004		SR 15 1.5 MI. NW OF SR 200	N 6700	S 6700	13400 C	9.5	55.4F	18.6F
0005		SR 200 .1 MI. S. OF CRAWFORD RD.	N 2400	S 2400	4800 C	9.5	55.1F	25.8F
0011		SR 5 .25 MI. S. OF SR 200	N 7400	S 6500	13900 C	9.0	55.1F	5.2A
0015		SR 115 S.OF BRIDGE .35 MI SE OF SR 15	E 4500	W 4000	8500 C	9.0	55.1F	5.6A
0019		SR 15 .1 MI. N. OF EASTWOOD RD.(HILLIARD)	N 6000	S 6000	12000 C	9.5	55.4F	18.6F
0047	T	SR15/US1,7 MI N OF HILLIARD @ STATE LINE,NASSAU	N 4523	S 4564	9087 C	9.5	54.9A	19.2A
0101		SR A1A .4 MI. E. OF US 17	E 19500	W 19000	38500 C	9.0	55.1F	6.5F
0102		SR A1A 200' S. OF LIME ST.	E 9100	W 8800	17900 C	9.0	55.1F	6.5F
0103		SR A1A WEST OF BRIDGE OVER AMELIA RIVER	E 21500	W 21500	43000 C	9.0	55.1F	6.5A
0104		SR 5 300' N OF RAILROAD IN YULEE	N 6400	S 5300	11700 C	9.0	55.1F	5.2F
0105		SR A1A E. OF CR 200A(CHESTER RD.)	E 18000	W 19000	37000 C	9.0	55.1F	6.5F
0106		SR 200(A1A) .2 MI. E. OF AMELIA ISLAND PKWY	E 16000	W 16000	32000 C	9.0	55.1F	6.5F
0109		SR 200 .1 MI. S. OF OVERPASS S. OF CALLAHAN	N 3200	S 3000	6200 C	9.5	55.1F	25.8F
0110		SR A1A S. OF PETREE RD.	E 4600	W 4500	9100 C	9.5	55.1F	8.5F
0112		CR 107 .1 MI. S. OF SR 200	N 0	S 0	8500 C	9.0	55.1F	4.0F
0114		SR A1A 300' E. OF SR 105A	N 0	S 0	5800 C	9.0	55.1F	2.1F

SITE TYPE : BLANK= PORTABLE; T= TELEMETERED

"K" FACTOR : DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011

AADT FLAGS : C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; R= FOURTH YEAR EST;
V= FIFTH YEAR EST; 6= SIXTH YEAR EST; X= UNKNOWN

"D/T" FLAGS : A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF

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PAGE -01-

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FLORIDA DEPARTMENT OF TRANSPORTATION
2017 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 74 NASSAU

SITE =====	SITE TYPE =====	DESCRIPTION =====	DIRECTION 1 =====	DIRECTION 2 =====	AADT TWO-WAY =====	"K" FCTR =====	"D" FCTR =====	"T" FCTR =====
0117		SR A1A S. OF STRATTON RD.	N 8200	S 7900	16100 C	9.0	55.1F	8.5F
0122		SR 15 .1 MI. NW OF CR 108	N 7700	S 8000	15700 C	9.0	55.4F	18.6F
0125		SR 15 200' S. OF SR 115 (CALLAHAN)	N 6400	S 6500	12900 C	9.0	55.1F	18.6F
0128		SR A1A .2 MI. W. OF JEAN LAFITTE ST.	E 3500	W 3500	7000 C	9.0	55.1F	6.5F
0132	T	SR-9/I-95,2.0 MI S OF GA. STATE LINE,NASSAU CO.	N 34222	S 33785	68007 C	9.5	52.9A	18.0A
0138		SR A1A .2 MI. N. OF SANDPIPER LOOP	N 0	S 0	6200 C	9.0	55.1F	2.1F
0140		SR 15 .2 MI. S. OF HALLMAN RD.	N 5300	S 5200	10500 C	9.5	55.1F	18.6F
0156		CR 2 .1 MI. W. OF CR 121	E 0	W 0	3300 C	9.5	55.1F	4.0F
0158		I-95 2 MI. N. OF SR 200	N 27500	S 26000	53500 C	9.5	53.0F	18.0F
0161		SR A1A /SR 105 .1 MI. S. OF CR 105A	E 0	W 0	12000 C	9.0	55.1F	4.0F
0162		SR 5(US 17) .1 MI. S. OF GA. STATE LINE	E 0	W 0	4000 C	9.5	55.1F	5.2F
0182	T	SR-A1A&200/US-301,0.4 MI W OF SR-5/US-17,NASSAU	E 10841	W 11354	22195 C	9.0	55.1F	6.5F
2000		RAMP SR 200 TO I-95 SB	S 9100	0	9100 C	9.5	99.9W	18.0F
2001		RAMP I-95 NB TO SR 200	N 8800	0	8800 C	9.5	99.9W	18.0F
2002		RAMP I-95 SB TO SR 200	S 2500	0	2500 C	9.5	99.9W	18.0F
2003		RAMP SR 200 TO I-95 NB	N 2900	0	2900 C	9.5	99.9W	18.0F

SITE TYPE : BLANK= PORTABLE; T= TELEMETERED

"K" FACTOR : DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011

AADT FLAGS : C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; R= FOURTH YEAR EST;
V= FIFTH YEAR EST; 6= SIXTH YEAR EST; X= UNKNOWN

"D/T" FLAGS : A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF

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PAGE -02-

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FLORIDA DEPARTMENT OF TRANSPORTATION
2017 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 74 NASSAU

SITE =====	SITE TYPE =====	DESCRIPTION =====	DIRECTION 1 =====		DIRECTION 2 =====		AADT TWO-WAY =====	"K" FCTR =====	"D" FCTR =====	"T" FCTR =====
2004		RAMP I-95 NB TO US 17	N	950		0	950 C	9.5	99.9W	18.0F
2005		RAMP US 17 TO I-95 NB	N	3800		0	3800 C	9.5	99.9W	18.0F
2006		RAMP US 17 TO I-95 SB	S	850		0	850 C	9.5	99.9W	18.0F
2007		RAMP I-95 SB TO US 17	S	3600		0	3600 C	9.5	99.9W	18.0F
3066		SR A1A 100' N. OF DUVAL COUNTY LINE	N	0	S	0	4800 C	9.0	55.1F	4.0F
3160		SR 200/US 301 .2 MI. N. OF CR 119 TO S.	N	2900	S	2800	5700 C	9.5	55.1F	25.8F
5002		SR 200 300' S. OF ATLANTIC AVE.	E	0	W	0	10500 C	9.0	55.1F	6.5F
5003		SR 200 100' E OF 8TH ST.	E	0	W	0	4400 C	9.0	55.1F	6.5F
5004		SR 200 250' W. OF 14TH ST.	E	0	W	0	5500 C	9.0	55.1F	6.5F
5005		SR A1A 200' S. OF SR 200	N	0	S	0	4300 C	9.0	55.1F	2.1F
5006		SR A1A 300' N. OF CR 108	N	0	S	0	6100 C	9.0	55.1F	2.1F
5007		SR A1A 300' S. OF CR 108	N	0	S	0	7500 C	9.0	55.1F	2.1F
5012		SR 200 300' E. OF 14TH ST.	E	0	W	0	7400 C	9.0	55.1F	6.5F
5014		SR A1A N. OF KENTUCKY AVE.	N	2700	S	2800	5500 C	9.0	55.1F	2.1A
5015		SR 200 (US 301) S. OF SR 15 (US 1)	N	5200	S	5100	10300 C	9.0	55.1F	25.8F
5020		US 17(SR 5) .1 MI. S. OF CR 108	N	0	S	0	14000 C	9.5	55.1F	5.2F

SITE TYPE : BLANK= PORTABLE; T= TELEMETERED

"K" FACTOR : DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011

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13-MAR-2018 15:13:06

PAGE -03-

622UPD

2_74_CAADT.TXT

FLORIDA DEPARTMENT OF TRANSPORTATION
2017 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 74 NASSAU

SITE =====	SITE TYPE =====	DESCRIPTION =====	DIRECTION 1 =====	DIRECTION 2 =====	AADT TWO-WAY =====	"K" FCTR =====	"D" FCTR =====	"T" FCTR =====
5021		US 1(SR 5) .1 MI. N. OF SR 115	N 9700	S 9800	19500 C	9.0	55.1F	18.6F
5022		SR A1A 1 MI. W. OF I-95	E 7400	W 7300	14700 C	9.5	55.1F	8.5F
6001		RAMP I-95 SB TO WELCOME STATION	S 1800	0	1800 C	9.5	99.9W	18.0F
7001		8TH ST. S. OF DADE ST. (NHS) (SIS)	N 2000	S 1700	3700 C	9.0	55.1F	37.3A
8001		DADE ST. W. OF 8TH ST. (SIS)	E 250	W 200	450 C	9.0	55.1F	21.8A
9001		MIDDLE RD. N. OF GRIFIN RD. (HPMS)	N 0	S 0	800 C	9.5	55.1F	4.0F
9002		SADLER RD. E. OF 14TH ST. (HPMS)	E 7600	W 8000	15600 C	9.0	55.1F	4.0F
9003		RIVER RD. E. OF DADDY RABBIT LANE (HPMS)	E 0	W 0	3700 C	9.5	55.1F	4.0F
9004		CR 121 N. OF CONNER RD. (HPMS)	0E	0E	2200 X	9.5	55.1F	4.0F
9100		FORD RD. .1 MI. E. OF US 301	E 600E	W 550E	1150 R	9.5	55.1F	4.0F
9101		THOMAS CREEK RD. .1 MI. EAST OF US 301	0E	0E	950 R	9.5	55.1F	4.0F
9102		EASTWOOD RD. .1 MI. S. OF CR 108	N 750E	S 800E	1550 R	9.5	55.1F	4.0F
9103		MUSCLEWHITE RD .1 MI. N. OF US 301	0E	0E	1100 T	9.5	55.1F	4.0F
9104		GRIFFIN RD. .1 MI. N. OF SR 200	0E	0E	1000 T	9.5	55.1F	4.0F
9105		WILSON NECK RD. .1 MI. N. OF AVANT RD.	0E	0E	450 T	9.0	55.1F	4.0F
9106		INDIGO ST. .1 MI. E. OF S. 8TH ST.	0E	0E	100 S	9.0	55.1F	4.0F

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13-MAR-2018 15:13:06

PAGE -04-

622UPD

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FLORIDA DEPARTMENT OF TRANSPORTATION
2017 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 74 NASSAU

SITE =====	SITE TYPE =====	DESCRIPTION =====	DIRECTION 1 =====		DIRECTION 2 =====		AADT TWO-WAY =====	"K" FCTR =====	"D" FCTR =====	"T" FCTR =====
9107		LESSIE ST. .1 MI. N. OF CR 108		0E		0E	300 S	9.5	55.1F	4.0F
9108		CHURCH RD. .1 MI. E. OF US 1		0E		0E	1900 S	9.0	55.1F	4.0F
9109		CR 107A .1 MI. E. OF CR 107		0E		0E	1100 F	9.0	55.1F	4.0F
9110		SADLER RD W OF CITRONA DR / WILL HARDEE RD	E	8300E	W	8100E	16400 F	9.0	55.1F	4.0F
9111		CR 121 .1 MI. N. OF DUVAL CO. LINE		0E		0E	2800 F	9.5	55.1F	4.0F
9112		CR 115A .1 MI. N. OF CR 108		0E		0E	1400 F	9.5	55.1F	4.0F
9113		CHESTER RD. .1 MI N. OF PAGES DAIRY RD.		0E		0E	9000 F	9.0	55.1F	4.0F
9114		RATLIFF RD. .1 MI. W. OF US 1	E	0	W	0	3600 C	9.0	55.1F	4.0F
9115		HENRY SMITH RD. .1 MI. S. OF US 1	N	0	S	0	1600 C	9.5	55.1F	4.0F
9116		AMELIA ISLAND PKWY .1 MI. S. OF SR 200	E	0	W	0	11500 C	9.0	55.1F	4.0F
9117		CR 105B .1 MI. W. OF SR 105	E	0	W	0	2200 C	9.0	55.1F	4.0F
9118		JULIA ST. .1 MI. S. OF SR 105(FLETCHER AVE.)	N	0	S	0	5600 C	9.0	55.1F	4.0F
9119		AMELIA ISLAND PKWY .1 MI. N. OF SR 105(FLETCHER	N	0	S	0	5800 C	9.0	55.1F	4.0F
9120		S 14TH ST, 350 FT N OF SR-108/SADLER RD	N	8900	S	9600	18500 C	9.0	55.1F	4.0F
9121		JASMINE ST. .1 MI. E. OF SR 200	E	0	W	0	1200 C	9.0	55.1F	4.0F
9122		CR 119 .1 MI. E. OF US 301	E	0	W	0	1700 C	9.5	55.1F	4.0F

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13-MAR-2018 15:13:06

PAGE -05-

622UPD

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COUNTY: 74 NASSAU

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9123		CR 108 .1 MI. W. OF US 17	E	0	W	0	3200 C	9.5	55.1F	4.0F
9124		CR 105A .1 MI. N. OF FLETCHER AVE	N	0	S	0	8300 C	9.0	55.1F	4.0F
9125		S. 14TH ST. .1 MI. S. OF ATLANTIC AVE.	N	0	S	0	6500 C	9.0	55.1F	4.0F
9126		TARPON AVE .1 MI. N. OF ATLANTIC AVE.	N	0	S	0	3100 C	9.0	55.1F	4.0F
9127		CR 107 .1 MI. N. OD SR 200	N	0	S	0	1700 C	9.0	55.1F	4.0F
9128		CR 121A(MIDDLE RD) .1 MI. N. OF CR 108	N	0	S	0	450 C	9.5	55.1F	4.0F
9129		LAKE HAMPTON RD. .1 MI. E. OF US 301	E	0	W	0	650 C	9.5	55.1F	4.0F
9130		CR 115(BAY RD) .1 MI. W. OF CR 108	E	0	W	0	1400 C	9.5	55.1F	4.0F
9131		CR 115 .1 MI. W. OF US 301	E	0	W	0	2300 C	9.0	55.1F	4.0F
9132		CR 119 .1 MI. W. OF US 301	E	0	W	0	1300 C	9.5	55.1F	4.0F
9133		HARTS RD. .1 MI. S. OF SR 200	N	0	S	0	750 C	9.0	55.1F	4.0F
9134		CHESTER RD. .1 MI. N. OF SR 200	N	4800	S	6900	11700 C	9.0	55.1F	4.0F
9135		N. 14TH ST. .1 MI. N. OF ATLANTIC AVE.	N	0	S	0	3200 C	9.0	55.1F	4.0F
9136		WILLIAM BURGESS BLVD. .1 MI. E. OF SR 200		0E		0E	2700 T	9.0	55.1F	4.0F
9137		AMELIA CONCOURSE .1 MI. S. OF SR 200	N	5900E	S	5700E	11600 T	9.0	55.1F	4.0F
9923	T	SR-9/I-95, 2.5 MI N OF HWY A1A , JAX., NASSAU CO	N	31146	S	31006	62152 C	9.5	53.1A	17.9A

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13-MAR-2018 15:13:06

PAGE -06-

622UPD

2_74_CAADT.TXT

COUNTY: 74
STATION: 9120
DESCRIPTION: S 14TH ST, 350 FT N OF SR-108/SADLER RD
START DATE: 07/12/2017
START TIME: 0000

TIME	DIRECTION: N					DIRECTION: S					COMBINED TOTAL	
	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL		
0000	9	7	7	10	33	17	5	20	9	51	84	
0100	6	5	4	7	22	12	14	3	14	43	65	
0200	6	5	0	3	14	8	5	4	3	20	34	
0300	1	2	1	3	7	4	2	7	4	17	24	
0400	3	5	7	2	17	4	8	12	17	41	58	
0500	5	18	21	31	75	14	13	27	26	80	155	
0600	27	49	67	105	248	41	35	60	76	212	460	
0700	95	103	177	205	580	65	78	96	96	335	915	
0800	187	193	161	223	764	126	121	118	132	497	1261	
0900	182	139	173	197	691	174	153	161	150	638	1329	
1000	170	176	176	201	723	170	160	145	164	639	1362	
1100	169	156	165	198	688	215	185	212	205	817	1505	
1200	190	196	162	205	753	227	215	208	212	862	1615	
1300	211	183	195	202	791	214	198	210	203	825	1616	
1400	156	193	173	173	695	209	202	184	193	788	1483	
1500	187	176	176	170	709	225	221	213	198	857	1566	
1600	165	145	139	173	622	221	197	230	194	842	1464	
1700	166	171	152	140	629	271	193	181	176	821	1450	
1800	130	140	138	110	518	164	172	138	120	594	1112	
1900	122	98	91	86	397	141	133	111	103	488	885	
2000	74	82	64	72	292	92	95	99	91	377	669	
2100	69	61	61	40	231	80	90	78	70	318	549	
2200	25	29	37	30	121	58	34	35	30	157	278	
2300	13	25	12	13	63	25	31	31	13	100	163	
24-HOUR TOTALS:					9683						10419	20102

PEAK VOLUME INFORMATION						
DIRECTION: N			DIRECTION: S		COMBINED DIRECTIONS	
A.M.	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
P.M.	800	764	845	620	845	1337
DAILY	1245	794	1615	892	1245	1628
	1245	794	1615	892	1245	1628

COUNTY: 74
STATION: 9002
DESCRIPTION: SADLER RD. E. OF 14TH ST. (HPMS)
START DATE: 07/12/2017
START TIME: 0000

TIME	DIRECTION: E					DIRECTION: W					COMBINED TOTAL	
	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL		
0000	14	9	11	7	41	8	11	5	6	30	71	
0100	5	7	4	4	20	9	4	6	3	22	42	
0200	3	6	4	8	21	6	3	3	5	17	38	
0300	2	0	1	8	11	2	1	6	3	12	23	
0400	0	4	8	8	20	6	7	8	7	28	48	
0500	10	12	9	28	59	11	13	21	21	66	125	
0600	30	35	45	54	164	33	42	63	71	209	373	
0700	65	86	78	85	314	80	76	89	99	344	658	
0800	106	108	100	113	427	119	124	122	119	484	911	
0900	112	110	121	132	475	133	123	136	143	535	1010	
1000	146	126	121	122	515	145	143	160	155	603	1118	
1100	153	135	147	187	622	155	150	160	182	647	1269	
1200	180	174	159	165	678	194	185	165	207	751	1429	
1300	171	153	160	180	664	207	181	135	170	693	1357	
1400	171	165	144	171	651	153	175	145	169	642	1293	
1500	153	169	148	145	615	180	178	159	169	686	1301	
1600	159	157	137	136	589	144	171	136	174	625	1214	
1700	148	145	135	145	573	179	157	154	134	624	1197	
1800	128	135	128	126	517	148	132	113	98	491	1008	
1900	106	118	92	99	415	98	106	116	88	408	823	
2000	99	109	101	77	386	87	90	73	70	320	706	
2100	73	67	61	62	263	82	58	55	44	239	502	
2200	53	45	20	23	141	50	45	37	32	164	305	
2300	23	27	19	13	82	18	23	20	11	72	154	
24-HOUR TOTALS:					8263						8712	16975

PEAK VOLUME INFORMATION						
DIRECTION: E			DIRECTION: W		COMBINED DIRECTIONS	
A.M.	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
	845	456	845	511	845	967
P.M.	1200	678	1215	764	1215	1433
DAILY	1145	700	1215	764	1215	1433

**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



**Appendix B - Collision Summary
and Diagrams
(South 14th Street)**

Road: **S 14th Street**

Study Limits: **From Sadler Road to Hickory Street**

Study Period: **1/1/2013 to 12/31/2017**

County: **Nassau**

Data by: **Sam Kadi**

Date: **4/10/2018**

COLLISION SUMMARY

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
1	9866622	1/23/2013	8:40 AM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N				Rear End		
2	9866966	1/30/2013	6:42 PM	Nassau	SOUTH 14TH STREET	150	FT	North	T.J. COURSON ROAD	0	0	0	0	1	N	Y	N	Clear	Dry	Dark - Lighted	Rear End	None	Other
3	9866623	2/4/2013	3:23 PM	Nassau	SOUTH 14TH STREET	0	FT		JASMINE STREET	0	0	0	0	1	N	N	N				Rear End		
4	83870094	2/27/2013	10:50 AM	Nassau	S 14TH ST	0	FT		UNKNOWN	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
5	71222238	3/2/2013	9:40 AM	Nassau	South 14th Street	2	FT	North	Park Ave	0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Pedestrian	None	None
6	83870167	4/17/2013	8:49 PM	Nassau	SOUTH 14TH STREET	0	FT		T J COURSON ROAD	0	0	0	0	1	Y	N	N	Clear	Dry	Dark - Not Lighted	Angle	None	None
7	82897900	8/13/2013	8:40 PM	Nassau	14TH ST	0	FT		LIME ST	0	0	1	0	0	N	N	N	Clear	Dry	Dusk	Bicycle	None	None
8	83870470	9/5/2013	11:55 AM	Nassau	14TH STREET	0	FT		TJ COWSON	0	0	1	0	0	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
9	84307587	11/24/2013	6:45 PM	Nassau	SOUTH 14TH STREET	300	FT	North	TJ COURSON RD	0	0	0	0	1	N	Y	N	Clear	Dry	Dark - Not Lighted	Rear End	None	None
10	84307594	11/27/2013	2:04 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Cloudy	Wet	Daylight	Unknown	None	None
11	84307620	12/19/2013	12:30 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Off Road	None	None
12	84307624	12/27/2013	5:42 PM	Nassau	SOUTH 14TH STREET	0	FT		ISLAND WALK WAY	0	0	0	0	1	N	N	N	Clear	Dry	Dark - Not Lighted	Left Turn	None	None
13	84307665	12/31/2013	1:42 PM	Nassau	SOUTH 14TH STREET	500	FT	North	JASMINE STREET	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
14	84307650	1/17/2014	3:39 PM	Nassau	SOUTH 14TH STREET	0	FT		SOUTH 14TH STREET AT EAST OAK STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Head On	None	None
15	84307746	1/28/2014	12:00 PM	Nassau	SOUTH 14 TH STREET	0	FT		SOUTH 14TH STREET / PARK AVE	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Angle	None	None
16	84307851	4/12/2014	4:42 PM	Nassau	SOUTH 14TH STREET	50	FT	North	T.J. COURSON	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
17	84604367	4/29/2014	6:15 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Cloudy	Wet	Daylight	Right Turn	None	None
18	84307865	5/16/2014	3:34 PM	Nassau	S.14TH ST.	0	FT		WINDJAMMER LN.	0	0	1	1	0	N	N	N	Clear	Dry	Daylight	Angle	None	None
19	84307504	5/22/2014	12:07 PM	Nassau	SOUTH 14TH STREET	0	FT		TJ COURSON / SOUTH 14TH STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Right Turn	None	None
20	83798667	7/2/2014	2:42 PM	Nassau	14 TH STREET	0	FT		SADLER ROAD	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Right Turn	None	None
21	84307959	7/2/2014	9:41 AM	Nassau	S. 14TH ST	0	FT		LIME ST.	0	0	1	0	0	N	N	N	Clear	Dry	Daylight	Bicycle	None	None
22	84307869	7/4/2014	11:50 AM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Rear End	None	None
23	84307945	7/5/2014	5:00 PM	Nassau	SOUTH 14TH STREET	0	FT		JASMINE STREET	0	0	0	0	1	N	Y	N	Cloudy	Dry	Daylight	Rear End	None	None
24	84307978	7/17/2014	5:31 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
25	83824274	8/31/2014	1:10 PM	Nassau	S.14 TH ST (105A)	12	FT	East	SADLER RD	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
26	84307797	9/6/2014	11:04 AM	Nassau	SOUTH 14TH ST	0	FT			0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Left Turn	None	None
27	84308004	9/10/2014	7:44 AM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	1	0	N	N	N	Cloudy	Dry	Dawn	Rear End	None	None
28	84604739	10/2/2014	7:33 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	1	1	2	Y	N	N	Clear	Dry	Dark - Not Lighted	Rear End	None	None
29	84488842	10/21/2014	8:27 AM	Nassau	CR 105A (S 14TH STREET)	0	FT		NECTARINE STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
30	84604792	10/24/2014	7:10 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	1	1	0	N	N	N	Clear	Dry	Dark - Lighted	Rear End	None	None
31	84308040	10/25/2014	1:05 PM	Nassau	S. 14TH ST.	0	FT		LIME ST.	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Right Turn	None	None
32	84308049	10/28/2014	5:28 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	1	0	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
33	84604808	11/1/2014	12:09 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Rear End	None	None
34	84510041	11/12/2014	5:24 PM	Nassau	CR 105A (S. 14TH STREET)	35	FT	North	SADDLER RD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
35	84604830	11/13/2014	8:55 AM	Nassau	SOUTH 14TH STREET	0	FT			0	0	1	0	0	N	N	N	Clear	Dry	Daylight	Pedestrian	None	None
36	84308057	11/14/2014	3:52 PM	Nassau	SOUTH 14TH STREET	0	FT		JASMINE STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
37	84308000	11/17/2014	2:39 PM	Nassau	SOUTH 14TH STREET	12	FT	North	SOUTH 14TH STREET/AMELIA ISLAND PARKWAY	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Rear End	None	None
38	84308102	11/20/2014	2:57 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Angle	None	None
39	84308035	11/23/2014	1:20 PM	Nassau	SOUTH 14TH STREET	0	FT	West	PARK AVENUE	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Angle	None	None
40	84308112	12/4/2014	4:05 PM	Nassau	SOUTH 14TH STREET	100	FT	South	T.J. COURSON	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Sideswipe	None	None
41	84307930	12/30/2014	7:41 PM	Nassau	S. 14TH ST.	0	FT			0	0	1	0	0	N	N	N	Clear	Dry	Dark - Not Lighted	Left Turn	None	None

Road: **S 14th Street**

Study Limits: **From Sadler Road to Hickory Street**

Study Period: **1/1/2013 to 12/31/2017**

County: **Nassau**

Data by: **Sam Kadi**

Date: **4/10/2018**

COLLISION SUMMARY

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
42	84308114	1/7/2015	4:30 PM	Nassau	SOUTH 14TH STREET	300	FT	North	PARK AVENUE	0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Angle	None	None
43	84308155	2/11/2015	11:20 AM	Nassau	SOUTH 14TH STREET	5	FT	North	SOUTH 14TH STREET/LIME STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
44	84308134	3/16/2015	2:00 PM	Nassau	SOUTH 14TH STREET	0	FT			0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Rear End	None	None
45	84308148	3/16/2015	8:03 PM	Nassau	SOUTH 14TH STREET	50	FT	South	T.J. COURSON ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Dark - Lighted	Rear End	None	None
46	84308226	3/22/2015	3:35 PM	Nassau	SOUTH 14 STREET	0	FT		JASMINE STREET	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Left Turn	None	None
47	84308190	4/1/2015	9:51 AM	Nassau	S 14TH STREET	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
48	84308247	5/2/2015	10:37 PM	Nassau	SOUTH 14TH STREET	40	FT	North	JASMINE STREET	0	0	0	0	1	N	Y	N	Clear	Dry	Dark - Lighted	Rear End	None	None
49	84605298	5/6/2015	2:20 PM	Nassau	SOUTH 14TH STREET	0	FT	North	SADLER ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
50	84308262	5/11/2015	5:00 PM	Nassau	SOUTH 14TH STREET	0	FT	East		0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
51	86139774	6/25/2015	12:35 PM	Nassau	S 14TH ST	0	FT			0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
52	86139777	7/1/2015	2:15 PM	Nassau	S 14TH STREET	0	FT		WOODROW DRIVE	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
53	86139782	7/2/2015	4:55 PM	Nassau	14TH ST S	0	FT			0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
54	86139807	7/27/2015	6:59 PM	Nassau	S 14TH ST	0	FT		LIME ST	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
55	86139806	7/30/2015	12:51 PM	Nassau	S 14TH ST	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
56	84605517	8/10/2015	11:50 AM	Nassau	SOUTH 14TH STREET	0	FT		NECTARINE STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Unknown	None	None
57	86139828	8/25/2015	10:10 AM	Nassau	SOUTH 14TH STREET	0	FT		JASMINE STREET	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
58	84868997	9/8/2015	3:30 PM	Nassau	CR 105A (S 14TH STREET)	15	FT	South	NECTARINE ST	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Rear End	d Surface Cond	None
59	86139859	10/11/2015	2:02 PM	Nassau	14TH STREET	1	FT	North	JASMINE STREET	0	0	0	0	1	N	Y	N	Cloudy	Dry	Daylight	Rear End	None	None
60	84605720	10/16/2015	1:20 PM	Nassau	S 14TH ST	0	FT		TJ COURSON RD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
61	84605745	10/25/2015	1:14 PM	Nassau	S 14TH STREET	0	FT		T J COURSON ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
62	83201570	11/9/2015	5:12 PM	Nassau	14TH STREET	30	FT	North	SADLER ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Head On	None	None
63	85168568	11/11/2015	4:09 PM	Nassau	14TH ST	0	FT		TJ COURSON	0	1	0	0	0	N	N	N	Clear	Dry	Daylight	Rollover	None	None
64	86139901	11/16/2015	4:45 PM	Nassau	SOUTH 14TH STREET	0	FT	South	SADLER ROAD	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
65	86139917	12/8/2015	1:55 PM	Nassau	S 14TH ST	0	FT			0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
66	86139921	12/12/2015	8:07 PM	Nassau	S 14TH ST	0	FT			0	0	0	2	0	N	Y	N	Clear	Dry	Dark - Not Lighted	Rear End	None	Glare
67	86139923	12/14/2015	11:04 AM	Nassau	SOUTH 14TH STREET	0	FT	South	SADLER ROAD	0	0	0	3	0	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
68	84605953	1/13/2016	11:00 AM	Nassau	SOUTH 14TH STREET	0	FT		TJ COURSON ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
69	85222906	1/19/2016	5:05 PM	Nassau	S 14TH ST	0	FT		NECTARINE ST	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Sideswipe	None	None
70	84606004	1/29/2016	5:01 PM	Nassau	S 14TH STREET	0	FT	South	TJ COURSON ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Right Turn	None	None
71	86139963	2/2/2016	9:03 AM	Nassau	S 14 STREET	130	FT	South	HICKORY STREET	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
72	85246267	2/29/2016	7:45 AM	Nassau	S. 14TH STREET (CR-105A)	0	FT		ISLAND WALKWAY	0	2	0	0	0	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
73	86139984	3/4/2016	2:57 AM	Nassau	S 14TH ST	0	FT			0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
74	86547599	3/8/2016	9:50 PM	Nassau	S 14TH ST	0	FT		SADLER RD	0	0	0	0	1	N	N	N	Clear	Dry	Dark - Lighted	Right Turn	None	None
75	86140013	3/25/2016	11:35 AM	Nassau	S 14TH STREET	0	FT	North	WOODROW DRIVE	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Angle	None	None
76	86140021	4/4/2016	1:15 PM	Nassau	S 14TH ST	0	FT			0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
77	86547753	4/14/2016	8:30 AM	Nassau	S 14TH STREET	0	FT		WOODROW DRIVE	0	0	0	0	1	N	Y	N	Cloudy	Wet	Daylight	Sideswipe	None	None
78	86547754	4/15/2016	6:54 AM	Nassau	S 14TH ST	0	FT		SADLER RD	0	0	2	0	0	N	Y	N	Cloudy	Wet	Dawn	Angle	None	None
79	86547787	4/22/2016	6:35 PM	Nassau	S 14TH STREET	0	FT	South	LIME STREET	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Rear End	None	None
80	86547823	4/29/2016	8:50 AM	Nassau	S 14TH STREET	0	FT		TJ COURSON ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
81	86547847	5/12/2016	8:45 AM	Nassau	S 14TH STREET	0	FT		WOODROW DRIVE	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
82	86547873	5/20/2016	11:30 AM	Nassau	S 14TH ST	0	FT		NECTARINE ST	0	0	0	1	0	N	Y	N	Clear	Dry	Daylight	Angle	None	None

COLLISION SUMMARY

Road: S 14th Street

Study Limits: From Sadler Road to Hickory Street

Study Period: 1/1/2013 to 12/31/2017

County: Nassau

Data by: Sam Kadi

Date: 4/10/2018

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
83	86547975	6/16/2016	1:15 PM	Nassau	S 14TH ST	0	FT		NECTARINE ST	0	0	2	0	0	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
84	86548002	6/27/2016	3:00 PM	Nassau	S 14TH STREET	0	FT	South	WOODROW DRIVE	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Unknown	None	None
85	86578094	7/8/2016	3:41 PM	Nassau	S 14TH STREET	40	FT	South	JASMINE STREET	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
86	86548064	7/20/2016	3:45 PM	Nassau	S 14TH ST	0	FT		NECTARINE ST	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Angle	None	None
87	86578106	7/26/2016	9:36 AM	Nassau	S 14TH STREET	0	FT	North	JASMINE STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Angle	None	None
88	85317556	8/2/2016	7:32 AM	Nassau	S 14TH STREET	10	FT	North	TJ COURSON ROAD	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
89	86578119	8/4/2016	12:19 PM	Nassau	S 14TH STREET	0	FT		SADLER ROAD	0	0	2	0	0	N	N	N	Clear	Dry	Daylight	Angle	None	None
90	86548146	8/9/2016	9:45 AM	Nassau	S 14TH ST	0	FT		LIME ST	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
91	85347785	9/7/2016	4:47 PM	Nassau	SOUTH 14TH STREET	50	FT	South	PARK AVE	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
92	86578167	9/22/2016	12:44 PM	Nassau	S 14TH STREET	1	FT	North	WOODROW DRIVE	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Unknown	None	None
93	86578184	10/17/2016	11:47 AM	Nassau	S 14TH STREET	1000	FT	North	PARK AVENUE	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
94	86578185	10/19/2016	4:45 PM	Nassau	S 14TH ST	0	FT		JASMINE ST	0	0	0	1	0	N	Y	N	Cloudy	Dry	Daylight	Rear End	None	None
95	86548485	11/21/2016	11:45 AM	Nassau	S 14TH ST	200	FT	South	PARK AVE	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
96	86578234	12/5/2016	12:37 PM	Nassau	S 14TH STREET	0	FT		LIME STREET	0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Rear End	None	None
97	86578242	12/15/2016	3:37 PM	Nassau	S 14TH STREET	0	FT	South	JASMINE STREET	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
98	86578243	12/16/2016	4:58 PM	Nassau	S 14TH ST	0	FT		LIME ST	0	0	0	0	1	N	N	N	Clear	Dry	Dusk	Rear End	None	None
99	86932452	12/27/2016	2:12 PM	Nassau	S 14TH ST	0	FT		WOODROW DR	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
100	85438039	12/28/2016	8:40 AM	Nassau	COUNTY ROAD 105A	0	FT		PARK AVENUE	0	0	1	0	0	N	N	N	Cloudy	Dry	Daylight	Bicycle	None	None
101	86932476	1/10/2017	8:30 PM	Nassau	S 14TH ST	0	FT		SADLER RD	0	0	0	0	1	N	N	N	Clear	Dry	Dark - Lighted	Left Turn	None	None
102	86809309	2/2/2017	12:14 PM	Nassau	S 14TH STREET	0	FT		PARK AVENUE	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
103	86932613	2/7/2017	5:01 PM	Nassau	S 14TH ST	0	FT		SADLER RD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
104	86809307	2/8/2017	10:42 AM	Nassau	S 14TH STREET	0	FT		LIME STREET	0	0	0	3	0	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
105	86809320	2/22/2017	11:20 AM	Nassau	S 14TH STREET	0	FT	South	SADLER ROAD	0	0	0	0	1	N	Y	N	Cloudy	Dry	Daylight	Rollover	None	None
106	86933092	3/23/2017	5:08 PM	Nassau	SOUTH 14TH STREET	1000	FT	North	SADLER ROAD	0	0	0	0	1	N	Y	N	Cloudy	Dry	Daylight	Rear End	None	None
107	86809355	3/28/2017	9:07 AM	Nassau	S 14TH STREET	100	FT	South	JASMINE STREET	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
108	85482937	3/31/2017	10:55 AM	Nassau	SOUTH 14TH ST.	0	FT		ISLAND WALKWAY	0	2	1	0	0	N	N	N	Clear	Dry	Daylight	Angle	None	Other
109	86809361	4/3/2017	4:09 PM	Nassau	S 14TH STREET	200	FT	North	TJ COURSON ROAD	0	0	0	0	1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
110	85519318	6/22/2017	2:20 PM	Nassau	14TH ST	0	FT		TJ COURSON RD	0	0	0	2	0	N	N	N	Clear	Dry	Daylight	Right Turn	None	None
111	86933151	6/26/2017	11:51 AM	Nassau	SOUTH 14TH STREET	10	FT	North	SADLER ROAD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
112	85461413	6/29/2017	9:40 AM	Nassau	SOUTH 14TH STREET	0	FT		PARK AVE	0	0	0	4	0	N	N	N	Clear	Dry	Daylight	Angle	None	None
113	86933153	7/2/2017	2:14 PM	Nassau	SOUTH 14TH STREET	0	FT		TJ COURSON ROAD	0	0	0	1	0	N	N	N	Clear	Dry	Daylight	Angle	None	None
114	87076229	7/17/2017	5:18 PM	Nassau	SOUTH 14 TH STREET	250	FT	North	SADLER ROAD	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Rear End	None	Weather Conditions
115	85503849	9/6/2017	3:40 PM	Nassau	SOUTH 14TH ST	100	FT	South	PARK AVE	0	0	1	0	0	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
116	87076462	9/20/2017	9:10 AM	Nassau	S 14TH STREET	0	FT		SADLER ROAD	0	0	0	1	0	N	Y	N	Clear	Dry	Daylight	Left Turn	None	None
117	86932747	10/19/2017	4:30 PM	Nassau	S 14TH ST	0	FT	South	SADLER RD	0	0	0	0	1	N	N	N	Cloudy	Dry	Daylight	Sideswipe	None	None
118	87076561	10/24/2017	4:00 PM	Nassau	SOUTH 14TH STREET	10	FT	North	SADLER ROAD	0	0	0	0	1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
119	87076617	10/31/2017	2:10 PM	Nassau	SOUTH 14TH ST	500	FT	North	SADLER RD	0	0	1	0	0	N	Y	N	Clear	Dry	Daylight	Left Turn	None	None
120	87076592	11/10/2017	12:15 PM	Nassau	S 14TH ST	0	FT	South	SADLER RD	0	0	0	0	1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
121	85538226	12/6/2017	5:05 PM	Nassau	NTY ROAD 105A (SOUTH 14TH STR	500	FT	North	SADLER ROAD	0	0	0	0	1	N	N	N	Rain	Wet	Daylight	Rear End	None	None
122	87426934	12/12/2017	4:04 PM	Nassau	S 14TH ST	0	FT		HICKORY ST	0	0	0	0	1	N	N	N				Unknown	Unknown	Unknown
123	87076376	12/20/2017	6:08 PM	Nassau	S 14TH ST	1000	FT	North	SADLER RD	0	0	0	3	0	N	Y	N	Clear	Dry	Dark - Lighted	Rear End	None	None



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

CRASH NUMBER

YEAR

INJURY SEVERITY:

1 - NO INJURY

2 - POSSIBLE INJURY

3 - NON-INCAPACITATING

4 - INCAPACITATING

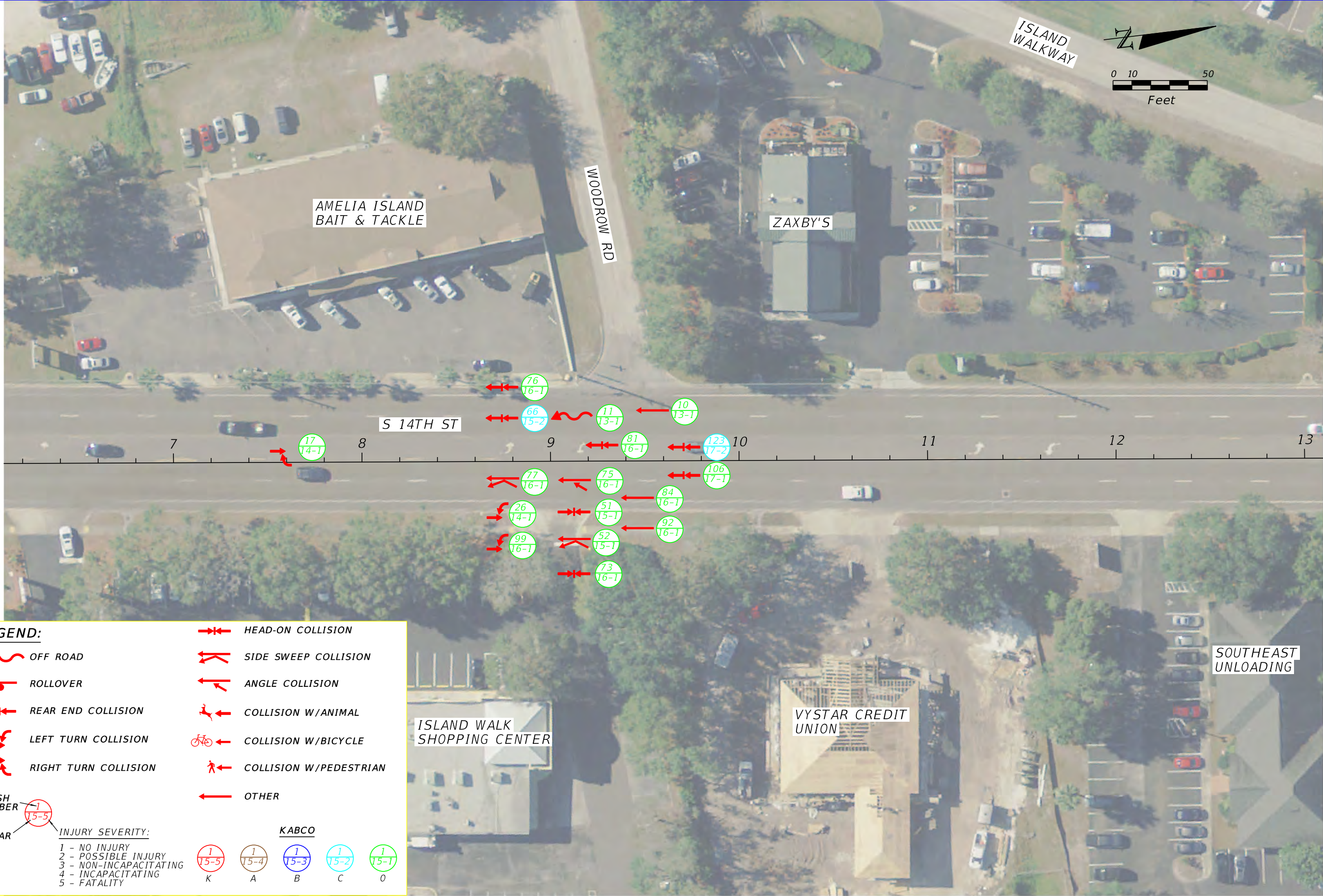
5 - FATALITY


KABCO

1 1 1 1 1

15-5 15-4 15-3 15-2 15-1

K A B C O



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING	PLAN FOR: S 14TH ST	S 14TH ST COLLISION DIAGRAM		SHEET NO. B-2
DATE	DESCRIPTION	DATE	DESCRIPTION							



LEGEND:

- OFF ROAD
- ROLLOVER
- REAR END COLLISION
- LEFT TURN COLLISION
- RIGHT TURN COLLISION
- HEAD-ON COLLISION
- SIDE SWEEP COLLISION
- ANGLE COLLISION
- COLLISION W/ANIMAL
- COLLISION W/BICYCLE
- COLLISION W/PEDESTRIAN
- OTHER


CRASH NUMBER

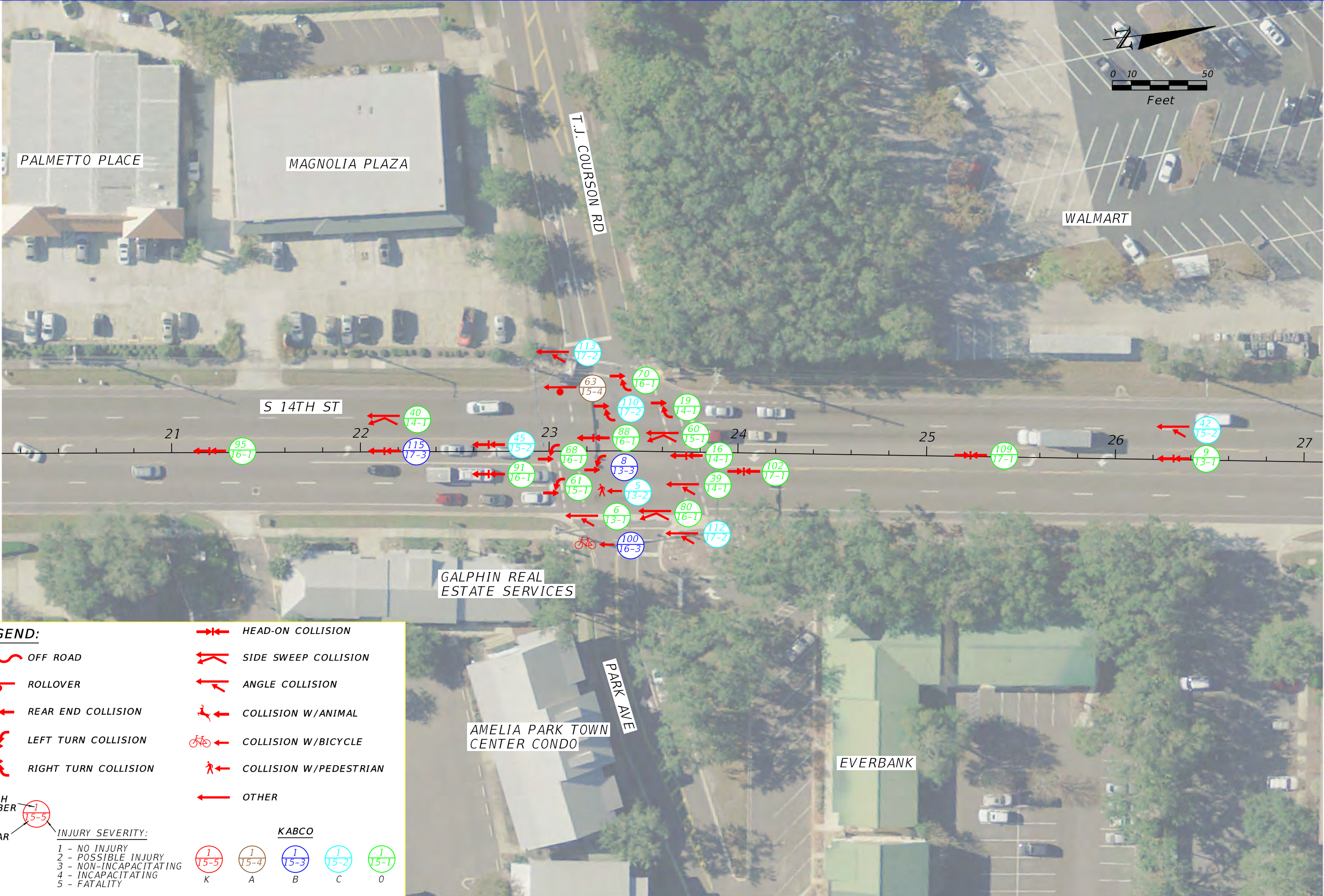
YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

- 1 (15-5) K
- 1 (15-4) A
- 1 (15-3) B
- 1 (15-2) C
- 1 (15-1) O

REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST COLLISION DIAGRAM		SHEET NO. B-3
DATE	DESCRIPTION	DATE	DESCRIPTION						



LEGEND:

- OFF ROAD
- ROLLOVER
- REAR END COLLISION
- LEFT TURN COLLISION
- RIGHT TURN COLLISION
- HEAD-ON COLLISION
- SIDE SWEEP COLLISION
- ANGLE COLLISION
- COLLISION W/ANIMAL
- COLLISION W/BICYCLE
- COLLISION W/PEDESTRIAN
- OTHER

CRASH NUMBER

YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

1
15-5
K

1
15-4
A

1
15-3
B

1
15-2
C

1
15-1
O

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
COLLISION DIAGRAM

SHEET
NO.
B-4



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

CRASH NUMBER
YEAR

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO
 K A B C O



LEGEND:


- OFF ROAD
- ROLLOVER
- REAR END COLLISION
- LEFT TURN COLLISION
- RIGHT TURN COLLISION
- HEAD-ON COLLISION
- SIDE SWEEP COLLISION
- ANGLE COLLISION
- COLLISION W/ANIMAL
- COLLISION W/BICYCLE
- COLLISION W/PEDESTRIAN
- OTHER

CRASH NUMBER
YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

K A B C O

REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST COLLISION DIAGRAM		SHEET NO. B-6
DATE	DESCRIPTION	DATE	DESCRIPTION						



LEGEND:

OFF ROAD	HEAD-ON COLLISION
ROLLOVER	SIDE SWEEP COLLISION
REAR END COLLISION	ANGLE COLLISION
LEFT TURN COLLISION	COLLISION W/ANIMAL
RIGHT TURN COLLISION	COLLISION W/BICYCLE
	COLLISION W/PEDESTRIAN
	OTHER

CRASH NUMBER
1
15-5

YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO
K 1 15-5
A 1 15-4
B 1 15-3
C 1 15-2
O 1 15-1

REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST COLLISION DIAGRAM	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					B-7



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

CRASH NUMBER

YEAR

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO
 K
 A
 B
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 O

SONYA'S TIRE &
AUTOMOTIVE CENTER

REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST COLLISION DIAGRAM		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						B-8



AMELIA LODGE #47



LEGEND:

- OFF ROAD
- ROLLOVER
- REAR END COLLISION
- LEFT TURN COLLISION
- RIGHT TURN COLLISION
- HEAD-ON COLLISION
- SIDE SWEEP COLLISION
- ANGLE COLLISION
- COLLISION W/ANIMAL
- COLLISION W/BICYCLE
- COLLISION W/PEDESTRIAN
- OTHER

CRASH NUMBER
YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

K
 A
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 0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

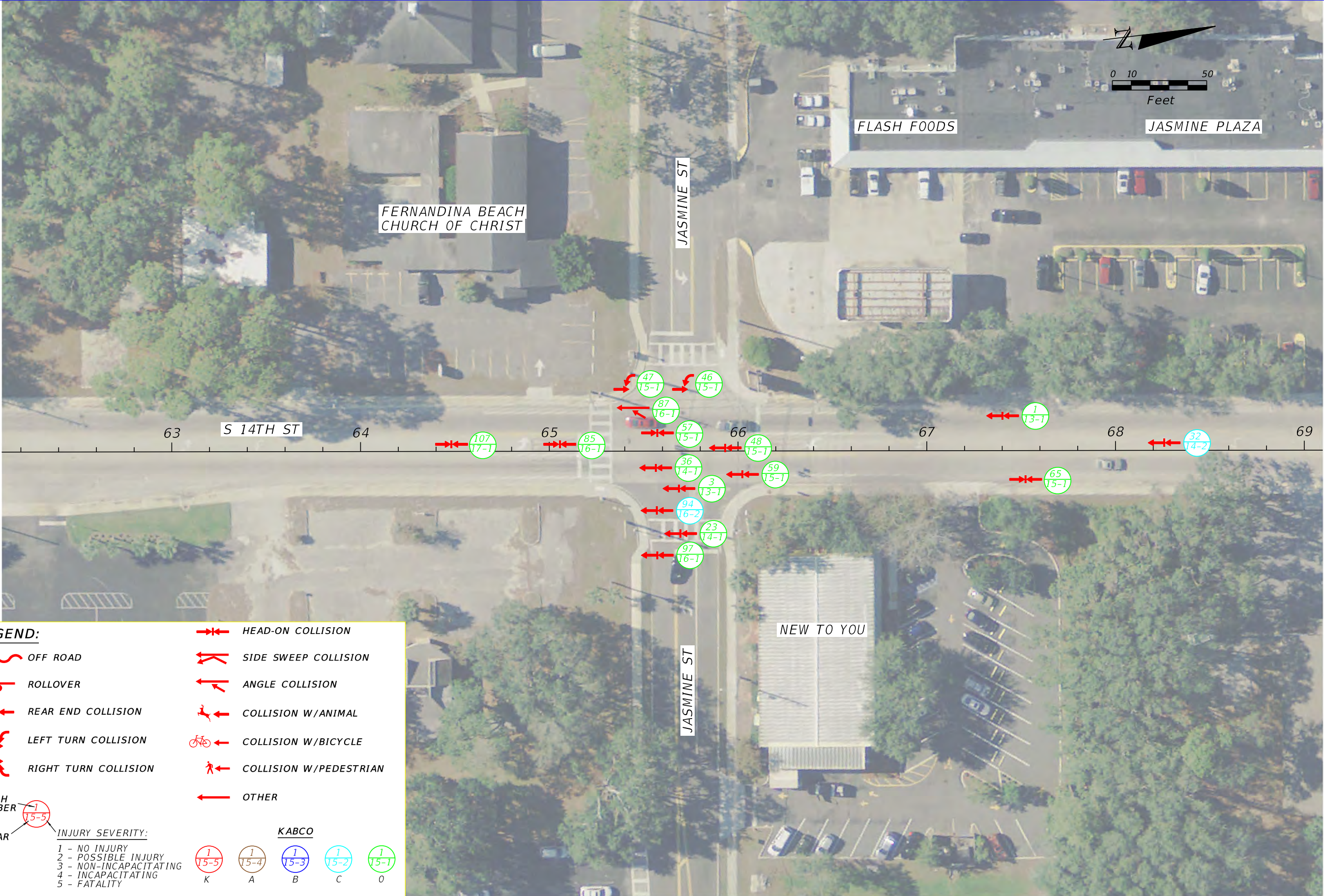
PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
COLLISION DIAGRAM

SHEET
NO.
B-9



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

CRASH NUMBER
1
15-5

YEAR

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

1
15-5

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15-4

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15-3

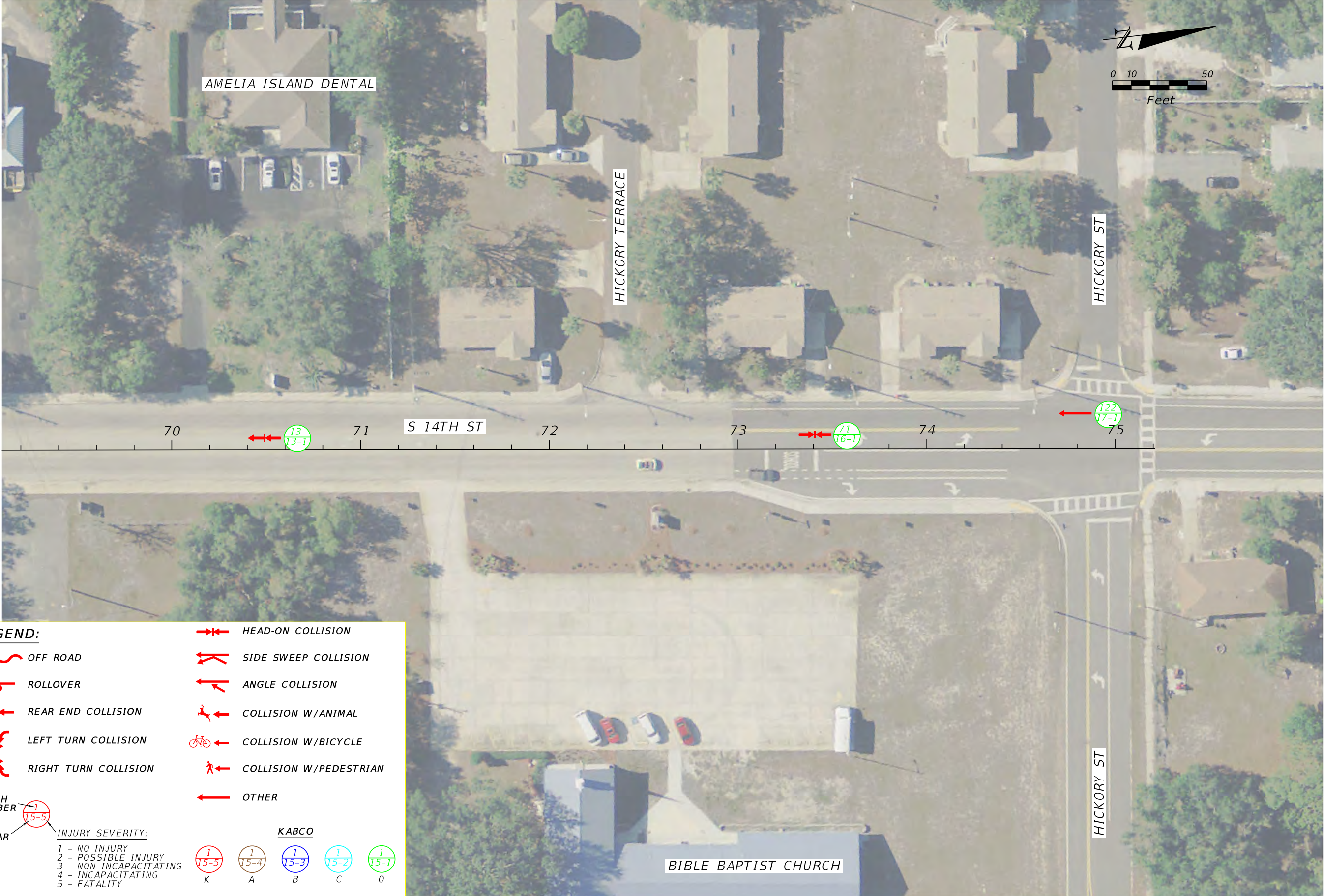
B

1
15-2


C


1
15-1


O





LEGEND:


 OFF ROAD


 ROLLOVER


 REAR END COLLISION


 LEFT TURN COLLISION


 RIGHT TURN COLLISION


 HEAD-ON COLLISION


 SIDE SWEEP COLLISION

 ANGLE COLLISION

 COLLISION W/ANIMAL

 COLLISION W/BICYCLE

 COLLISION W/PEDESTRIAN

 OTHER

CRASH NUMBER

1
15-5

YEAR

15

INJURY SEVERITY:

1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

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15-5

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15-4

1
15-3

1
15-2

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15-1

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**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



**Appendix C - Collision Summary
and Diagrams
(Sadler Road)**

COLLISION SUMMARY

Road: **Sadler Road**
Study Limits: **From SR 200 to Citrona Drive**
Study Period: **1/1/2013 to 12/31/2017**

County: **Nassau**
Data by: **Sam Kadi**
Date: **4/10/2018**

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
1	83870036	1/18/2013	3:20 PM	Nassau	SADLER ROAD	300	FT	East	S 8TH STREET					1	N	Y	N	Clear	Dry	Daylight	Left Turn	None	None
2	9866118	2/16/2013	10:40 AM	Nassau	SADLER ROAD	10	FT	East	SUSAN DRIVE					1	N	N	N				Unknown		
3	83870310	7/15/2013	8:45 AM	Nassau	SADLER RD	40	FT	South	14 STREET				1		N	N	N	Clear	Wet	Daylight	Rear End	None	None
4	82897898	8/6/2013	9:25 PM	Nassau	SADLER RD	0	FT		14TH ST			2	1		N	N	N	Cloudy	Dry	Dark - Lighted	Left Turn	None	None
5	83870744	11/22/2013	3:43 PM	Nassau	SADLER ROAD	500	FT	West	14TH STREET					1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
6	84307661	12/13/2013	11:51 AM	Nassau	SADLER ROAD	60	FT	East	SOUTH 14TH STREET					1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
7	84307697	12/17/2013	12:26 PM	Nassau	SADLER RD.	0	FT							1	N	N	N	Clear	Dry	Daylight	Other	None	None
8	84307686	12/21/2013	1:23 PM	Nassau	SADLER ROAD	50	FT	West	SOUTH 14 STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
9	84307649	1/17/2014	2:10 PM	Nassau	SADLER ROAD	500	FT	West	SADLER ROAD/ SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
10	84307742	3/14/2014	10:10 AM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Other	None	None
11	84307743	3/17/2014	6:37 AM	Nassau	SADLER ROAD	15	FT	East	SOUTH 14 STREET					1	N	N	N	Rain	Wet	Dark - Lighted	Rear End	Surface Cond	Weather Conditions
12	84307841	4/3/2014	3:25 PM	Nassau	SADLER ROAD	240	FT	West	SUSAN DRIVE					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
13	84307862	4/18/2014	3:52 PM	Nassau	SADLER RD.	0	FT							1	N	N	N	Rain	Wet	Daylight	Angle	None	None
14	84307880	5/12/2014	12:35 PM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Other	None	None
15	83668332	5/13/2014	7:47 AM	Nassau	SADLER RD	45	FT	South	SR 200 (A1A)			1			N	Y	N	Clear	Dry	Daylight	Rear End	None	None
16	83798654	5/22/2014	9:05 PM	Nassau	SADLER ROAD	0	FT		SR-200					1	N	N	N	Clear	Dry	Dark - Lighted	Unknown	None	None
17	84307907	5/27/2014	12:20 PM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Other	None	None
18	84307868	6/27/2014	7:32 AM	Nassau	SADLER ROAD	0	FT						1		N	Y	Y	Clear	Dry	Daylight	Rear End	None	None
19	84307986	7/7/2014	11:12 AM	Nassau	SADLER RD.	0	FT							1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
20	83686365	8/13/2014	9:55 PM	Nassau	EASTBOUND SADDLER ROAD	0	FT		SOUTH 14TH STREET			2	2		N	Y	N	Clear	Dry	Dark - Lighted	Angle	None	None
21	84307610	10/9/2014	11:40 AM	Nassau	SADLER RD	0	FT		WILL HARDEE DR					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
22	84307996	10/14/2014	8:07 AM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
23	84308031	10/15/2014	10:35 AM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
24	84307999	10/31/2014	2:29 PM	Nassau	SADLER ROAD	20	FT	East	SUSAN DRIVE /SADLER ROAD					1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
25	84308050	11/3/2014	2:30 PM	Nassau	SADLER RD	0	FT		SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
26	84308111	11/25/2014	10:48 AM	Nassau	SADLER ROAD	0	FT						1		N	N	N	Cloudy	Dry	Daylight	Bicycle	None	None
27	84308099	12/3/2014	1:07 PM	Nassau	SADLER RD	0	FT							1	N	N	N	Cloudy	Dry	Daylight	Angle	None	None
28	84308136	12/22/2014	9:13 AM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Rain	Wet	Daylight	Angle	None	None
29	84308158	1/23/2015	7:23 PM	Nassau	SADLER RD.	500	FT	East	S. 14TH ST.					1	N	N	N	Rain	Wet	Dark - Lighted	Left Turn	None	Weather Conditions
30	84308213	3/11/2015	2:21 PM	Nassau	SADLER ROAD	100	FT	East	SADLER ROAD/ DURY ROAD INTERSECTION					1	N	N	N	Clear	Dry	Daylight	Animal	None	None
31	84308231	3/17/2015	5:25 PM	Nassau	SADLER ROAD	0	FT				1				N	N	N	Clear	Dry	Daylight	Off Road	None	None
32	84605217	4/1/2015	6:14 AM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
33	84308141	4/8/2015	5:00 PM	Nassau	SADLER ROAD	0	FT							1	N	N	N	Clear	Dry	Daylight	Other	None	None
34	84308184	4/28/2015	4:58 PM	Nassau	SADLER ROAD	250	FT	East	SOUTH 14TH STREET					1	N	N	N	Cloudy	Dry	Daylight	Left Turn	None	None
35	84308082	4/30/2015	12:01 PM	Nassau	SADLER RD.	0	FT							1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
36	84308064	5/5/2015	1:25 PM	Nassau	SADLER ROAD	1000	FT	East	SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
37	84308416	6/13/2015	5:40 PM	Nassau	SADLER ROAD	0	FT		WILL HARDEE ROAD				2		N	N	N	Clear	Dry	Daylight	Angle	None	None
38	86139789	7/10/2015	10:50 AM	Nassau	SADLER	200	FT	East	S 14 ST			1			N	N	N	Clear	Dry	Daylight	Rear End	None	None
39	86139801	7/27/2015	4:55 PM	Nassau	SADLER RD	0	FT		WILL HARDEE DR					1	N	N	N	Clear	Dry	Daylight	Other	None	None
40	86139815	8/9/2015	4:18 PM	Nassau	SADLER ROAD	0	FT		SUSAN DRIVE					1	N	N	N	Clear	Dry	Daylight	Left Turn	None	None
41	84605565	8/25/2015	5:35 PM	Nassau	SADLER RD	0	FT		S 14TH ST			2			N	N	N	Clear	Dry	Daylight	Left Turn	None	None

COLLISION SUMMARY

Road: **Sadler Road**

Study Limits: **From SR 200 to Citrona Drive**

Study Period: **1/1/2013 to 12/31/2017**

County: **Nassau**

Data by: **Sam Kadi**

Date: **4/10/2018**

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
42	84605605	9/11/2015	4:21 PM	Nassau	SADLER ROAD	0	FT	West	S 14TH STREET					1	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
43	84605759	10/23/2015	7:40 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	N	N	Cloudy	Dry	Dark - Lighted	Rear End	None	None
44	84605750	10/26/2015	4:55 PM	Nassau	SADLER RD	0	FT		S 14TH ST					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
45	84605741	10/27/2015	3:30 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	N	N	Cloudy	Wet	Daylight	Rear End	None	Weather Conditions
46	86139876	10/30/2015	12:12 PM	Nassau	SADLER ROAD	0	FT	East	S 14TH STREET					1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
47	86139886	11/6/2015	3:45 PM	Nassau	SADLER ROAD	0	FT	East	S 14 STREET			1			N	N	N	Clear	Dry	Daylight	Left Turn	None	None
48	84605806	11/20/2015	9:48 AM	Nassau	SADLER ROAD	0	FT		S 8TH STREET					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
49	84605838	12/1/2015	1:54 PM	Nassau	SADLER ROAD	0	FT		SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
50	84605889	12/17/2015	9:00 PM	Nassau	SADLER ROAD	0	FT		SOUTH 14TH STREET					1	N	N	N	Cloudy	Wet	Dark - Lighted	Left Turn	None	None
51	84605915	12/29/2015	4:00 PM	Nassau	SADLER ROAD	0	FT		S 8TH STREET					1	N	Y	N	Cloudy	Dry	Daylight	Rear End	None	None
52	86139949	1/25/2016	10:50 AM	Nassau	SADLER RD	0	FT							1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
53	85168595	2/13/2016	3:59 PM	Nassau	CR-108 (SADLER RD)	50	FT	West	S 14TH ST					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
54	86139973	2/19/2016	4:04 PM	Nassau	SADLER RD	225	FT	East	SOUTH 14 ST					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
55	85208435	2/20/2016	10:17 AM	Nassau	SADLER ROAD	300	FT	East	S 8TH STREET					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
56	85208441	3/1/2016	4:34 PM	Nassau	SADLER ROAD WESTBOUND	200	FT	West	14TH STREET					1	N	N	N	Clear	Dry	Daylight	Right Turn	None	None
57	86547805	4/19/2016	3:00 PM	Nassau	SADLER RD	0	FT		S 14TH ST			1			N	Y	N	Clear	Dry	Daylight	Other	None	None
58	86547786	4/22/2016	8:20 AM	Nassau	SADLER ROAD	0	FT	East	S 8TH STREET					1	N	Y	N	Clear	Dry	Daylight	Sideswipe	None	None
59	85317527	5/14/2016	10:40 AM	Nassau	SADLER ROAD	100	FT	East	14 TH STREET					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
60	86547946	6/8/2016	7:15 PM	Nassau	SADLER RD	0	FT		S 14TH ST					1	N	N	N	Clear	Dry	Daylight	Head On	None	None
61	86578069	6/18/2016	5:13 PM	Nassau	SADLER ROAD	200	FT	East	S 14TH STREET					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
62	86547974	6/19/2016	1:10 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	Y	N	Clear	Dry	Daylight	Sideswipe	None	None
63	86578083	6/30/2016	12:53 PM	Nassau	SADLER ROAD	50	FT	East	S 14TH STREET					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
64	86548115	8/3/2016	5:13 PM	Nassau	SADLER ROAD	0	FT	West	S 14TH STREET					1	N	Y	N	Cloudy	Wet	Daylight	Rear End	None	None
65	86548151	8/11/2016	5:40 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	N	N	Cloudy	Dry	Daylight	Rear End	None	None
66	86548183	8/18/2016	9:40 AM	Nassau	SADLER RD	0	FT		S 14TH ST					1	N	Y	N	Clear	Dry	Daylight	Other	None	None
67	86578195	11/4/2016	11:53 AM	Nassau	SADLER RD	0	FT		CITRONA DR					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
68	86578205	11/11/2016	12:37 PM	Nassau	SADLER	0	FT	South	SADLER RD ROAD					1	N	N	N	Clear	Dry	Daylight	Rear End	None	None
69	86578246	12/28/2016	6:31 PM	Nassau	SADLER RD	0	FT		CITRONA DR					1	N	N	N	Clear	Dry	Dark - Lighted	Left Turn	None	None
70	85352414	1/3/2017	11:06 AM	Nassau	SADLER ROAD EASTBOUND	10	FT	North	S 14TH STREET					1	N	N	N	Rain	Wet	Daylight	Rear End	None	None
71	86809296	1/27/2017	4:35 PM	Nassau	SADLER RD	0	FT		WILL HARDEE RD					1	N	N	N	Clear	Dry	Daylight	Angle	None	None
72	86932561	1/30/2017	10:50 AM	Nassau	SADLER RD	0	FT		S 14TH ST				1		N	N	N	Clear	Dry	Daylight	Rear End	None	None
73	86932581	2/2/2017	4:00 PM	Nassau	SADLER RD	0	FT		S 14TH ST					1	N	Y	N	Clear	Dry	Daylight	Right Turn	None	None
74	86809312	2/13/2017	11:58 AM	Nassau	SADLER RD	0	FT		CITRONA DR					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
75	86809326	3/1/2017	2:31 PM	Nassau	SADLER RD	0	FT		CITRONA DR					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
76	86932937	3/24/2017	8:15 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	N	N	Clear	Dry	Dark - Lighted	Sideswipe	None	None
77	86809365	4/9/2017	11:06 AM	Nassau	SADLER RD	0	FT		WILL HARDEE RD					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
78	86809378	4/24/2017	4:33 PM	Nassau	SADLER RD	0	FT		SUSAN DR					1	N	N	N	Other	Unknown	Unknown	Head On	Unknown	Unknown
79	86933203	6/5/2017	1:15 PM	Nassau	SADLER RD	0	FT		S 8TH ST					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
80	85461403	6/14/2017	10:30 AM	Nassau	SADLER ROAD EASTBOUND	5	FT	West	14 TH STREET					1	N	Y	N	Clear	Dry	Daylight	Rear End	None	None
81	87076248	8/8/2017	8:19 AM	Nassau	SADLER ROAD	10	FT	North	SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
82	87076380	9/8/2017	6:40 AM	Nassau	SADLER ROAD	0	FT		SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Right Turn	None	None


COLLISION SUMMARY

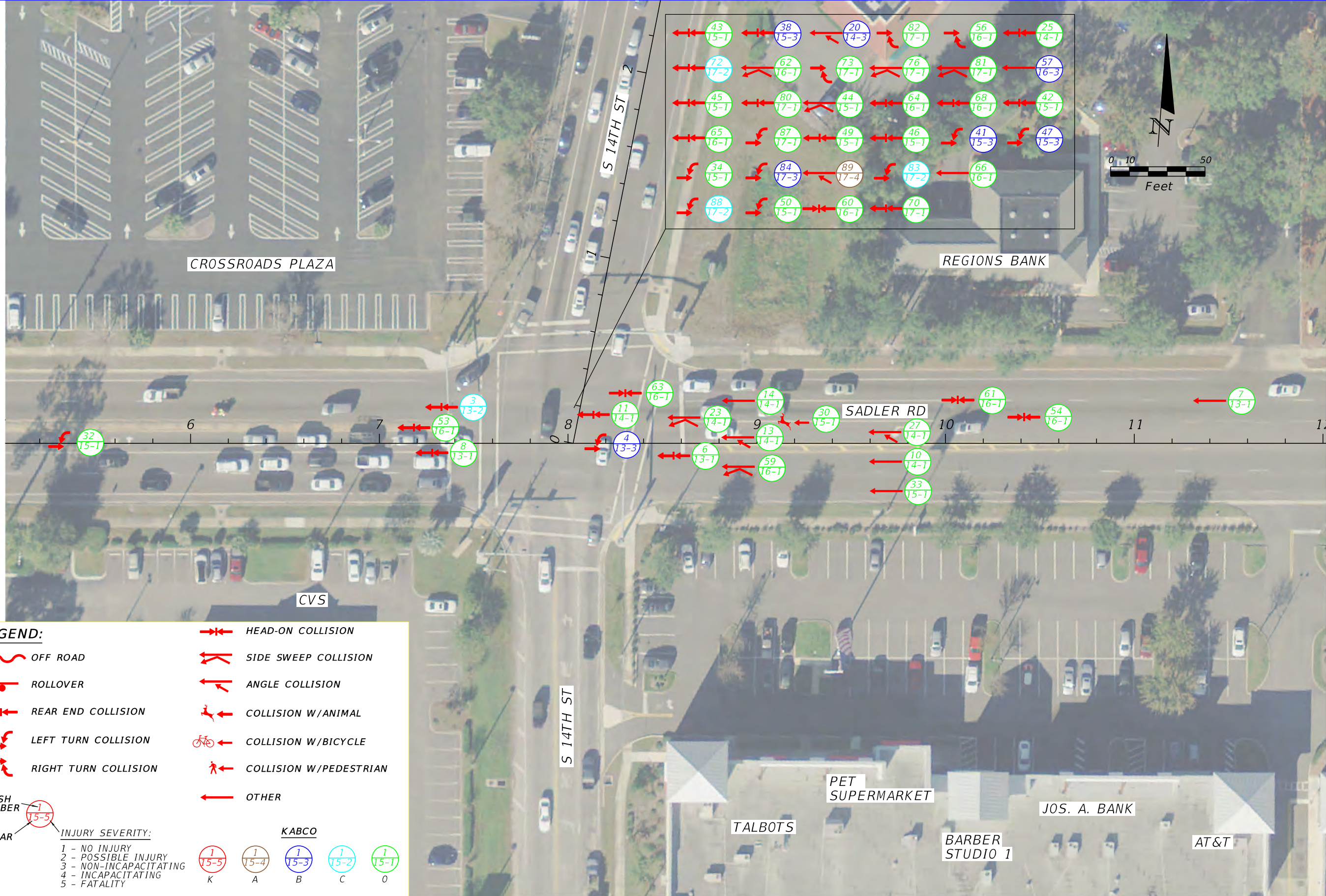
Road: **Sadler Road**
Study Limits: **From SR 200 to Citrona Drive**
Study Period: **1/1/2013 to 12/31/2017**

County: **Nassau**
Data by: **Sam Kadi**
Date: **4/10/2018**

										NUMBER OF INJURIES BY SEVERITY					FACTORS			CONDITIONS				CONTRIBUTING CAUSE	
Crash Number	HSMV Report Number	Crash Date	Crash Time	County	Crash Street	Offset Distance		Offset Direction	Intersecting Street	K	A	B	C	PDO	Alcohol	Distraction	Drugs	Weather	Road	Lighting	Crash Type	Roadway	Environmental
83	87076462	9/20/2017	9:10 AM	Nassau	S 14TH STREET	0	FT		SADLER ROAD				1		N	Y	N	Clear	Dry	Daylight	Left Turn	None	None
84	86933351	10/8/2017	5:50 PM	Nassau	SADLER RD	0	FT		S 14TH ST			2			N	N	N	Rain	Wet	Daylight	Left Turn	Inoperative,	Weather Conditions
85	87076516	10/9/2017	3:45 PM	Nassau	SADLER ROAD	25	FT	East	S 8TH ST					1	N	Y	N	Clear	Dry	Daylight	Sideswipe	None	None
86	87076449	11/3/2017	12:03 PM	Nassau	SADLER ROAD	600	FT	East	SOUTH 14TH STREET					1	N	N	N	Clear	Dry	Daylight	Sideswipe	None	None
87	87076572	11/4/2017	11:28 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET					1	N	N	N	Clear	Dry	Dark - Not Lighted	Left Turn	None	None
88	87076506	11/8/2017	6:21 AM	Nassau	SADLER ROAD	0	FT		SOUTH 14TH STREET				1		N	N	N	Clear	Dry	Daylight	Left Turn	None	None
89	87076583	11/8/2017	7:05 PM	Nassau	SADLER ROAD	0	FT		S 14TH STREET		2				N	N	N	Cloudy	Dry	Dark - Not Lighted	Angle	None	None



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING		SADLER ROAD COLLISION DIAGRAM	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PLAN FOR:			C-1
						SADLER ROAD			



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

CRASH NUMBER

YEAR

INJURY SEVERITY:

1 - NO INJURY

2 - POSSIBLE INJURY

3 - NON-INCAPACITATING

4 - INCAPACITATING

5 - FATALITY

KABCO

1 15-5

A 15-4

B 15-3

C 15-2

0 15-1



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

CRASH NUMBER
YEAR

INJURY SEVERITY:

1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO

K A B C O



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

CRASH NUMBER

YEAR

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

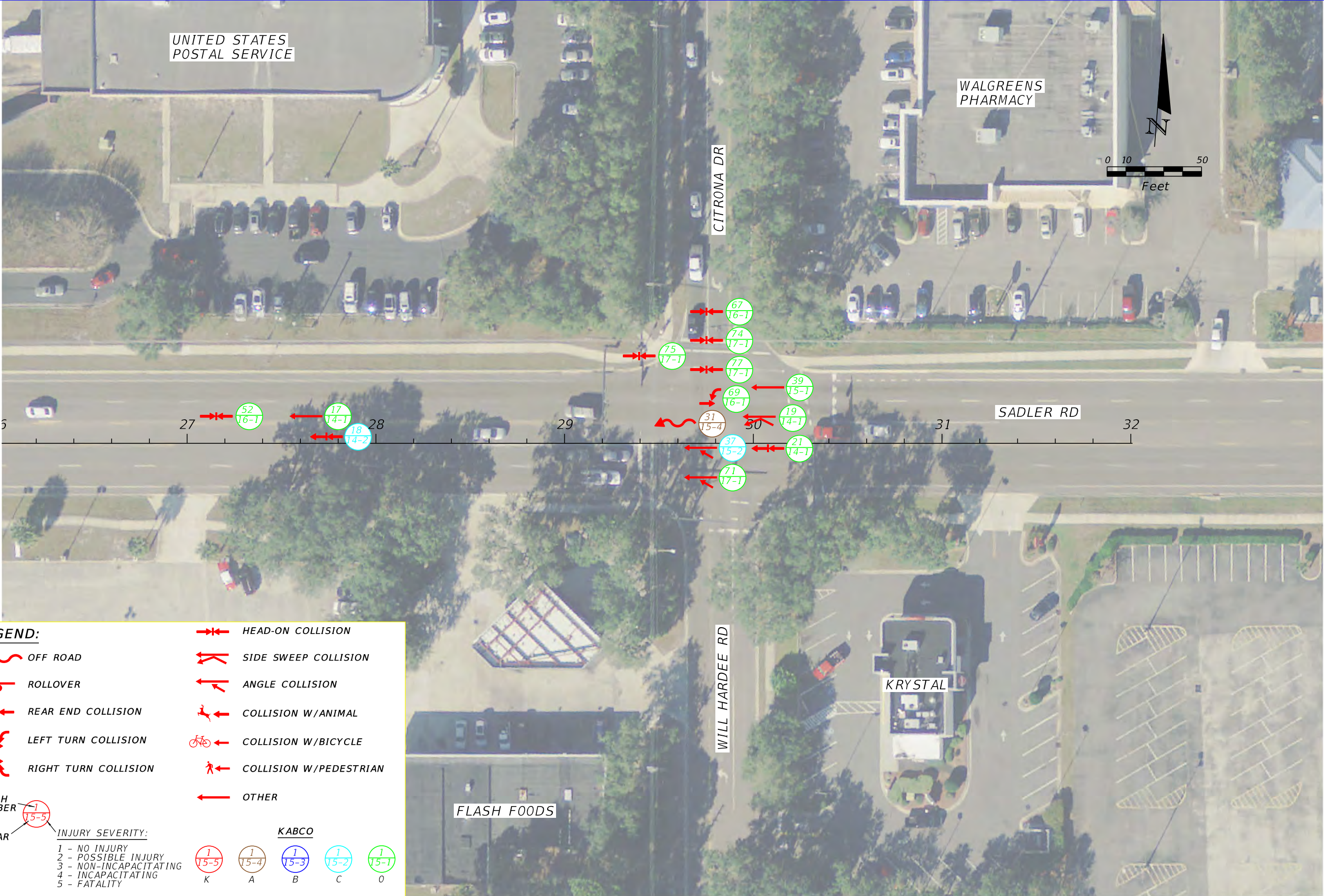
COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

INJURY SEVERITY:
1 - NO INJURY
2 - POSSIBLE INJURY
3 - NON-INCAPACITATING
4 - INCAPACITATING
5 - FATALITY

KABCO
 K
 A
 B
 C
 O



LEGEND:

OFF ROAD

ROLLOVER

REAR END COLLISION

LEFT TURN COLLISION

RIGHT TURN COLLISION

HEAD-ON COLLISION

SIDE SWEEP COLLISION

ANGLE COLLISION

COLLISION W/ANIMAL

COLLISION W/BICYCLE

COLLISION W/PEDESTRIAN

OTHER

CRASH NUMBER

YEAR

INJURY SEVERITY:

1 - NO INJURY

2 - POSSIBLE INJURY

3 - NON-INCAPACITATING

4 - INCAPACITATING

5 - FATALITY

KABCO

1/15-5

1/15-4

1/15-3

1/15-2

1/15-1

K

A

B

C

0

**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



**Appendix D - Concept Plans
(South 14th Street)**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258




NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST


S 14TH ST
CONCEPT PLAN

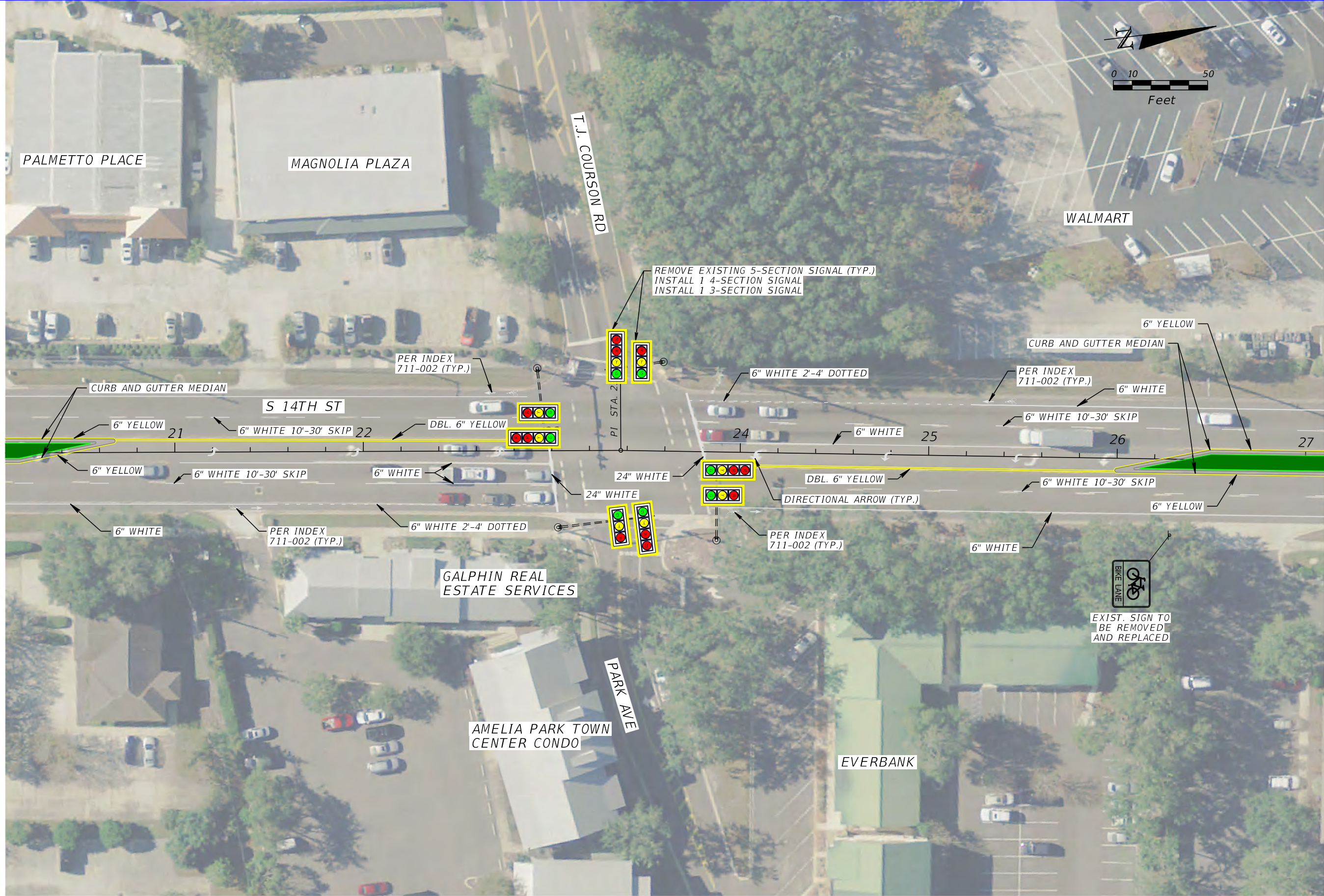
SHEET NO.
D-1



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST CONCEPT PLAN		SHEET NO. D-2
DATE	DESCRIPTION	DATE	DESCRIPTION						



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST CONCEPT PLAN		SHEET NO. D-3
DATE	DESCRIPTION	DATE	DESCRIPTION						



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
CONCEPT PLAN

SHEET
NO.
D-4



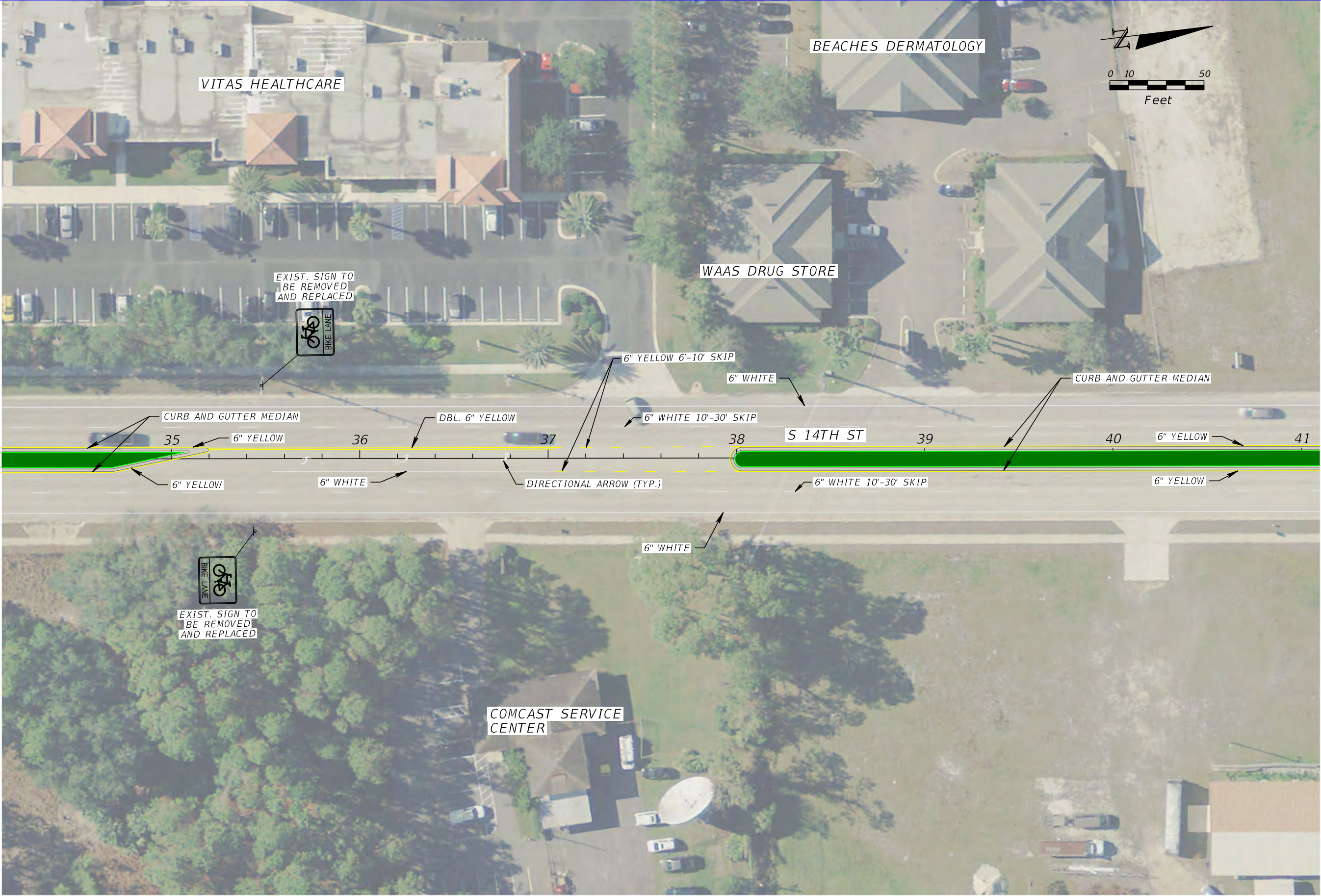
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258




NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

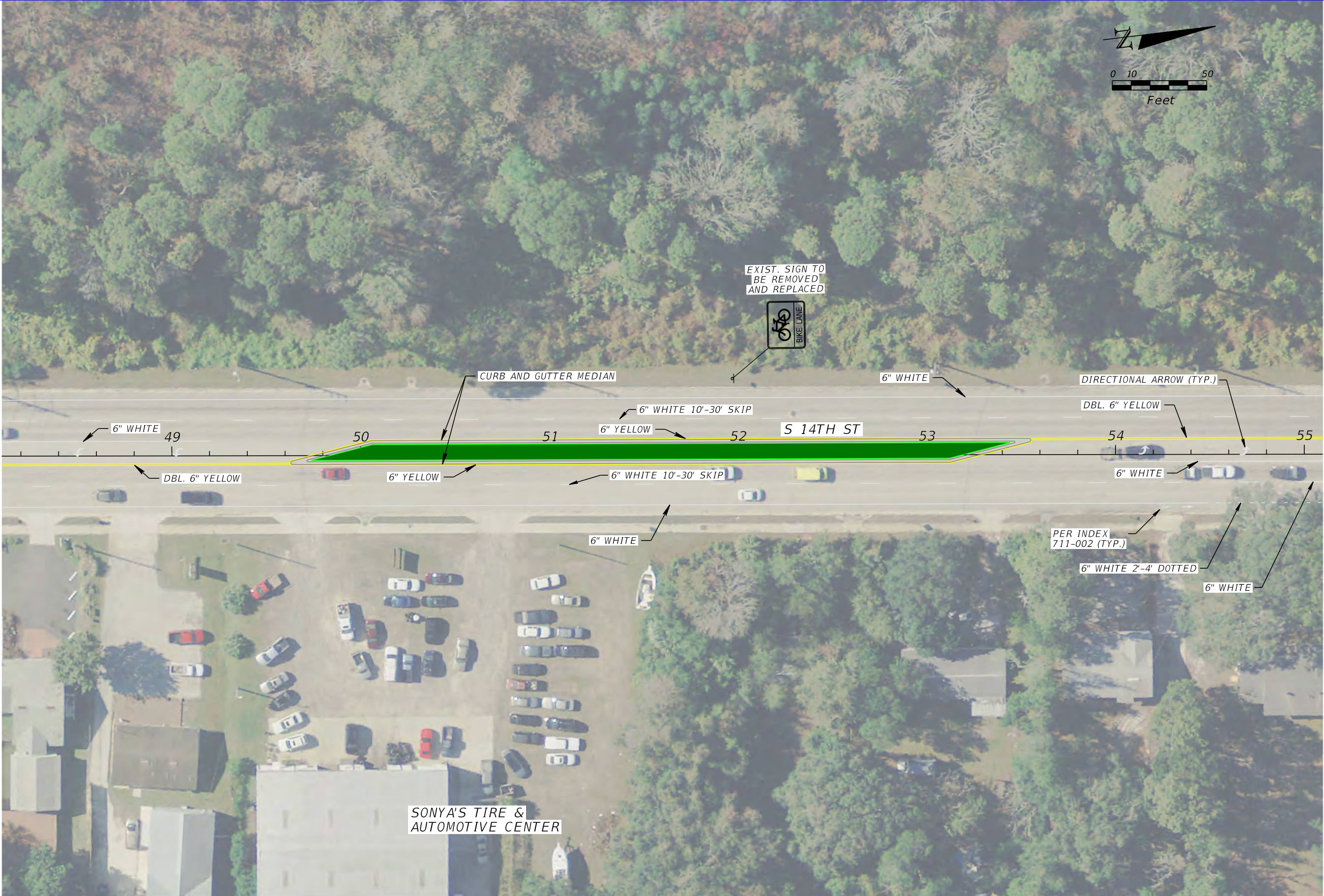
S 14TH ST
CONCEPT PLAN
SHEET NO.
D-5



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST CONCEPT PLAN		SHEET NO. D-6
DATE	DESCRIPTION	DATE	DESCRIPTION						



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: S 14TH ST	S 14TH ST CONCEPT PLAN		SHEET NO. D-7
DATE	DESCRIPTION	DATE	DESCRIPTION						



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

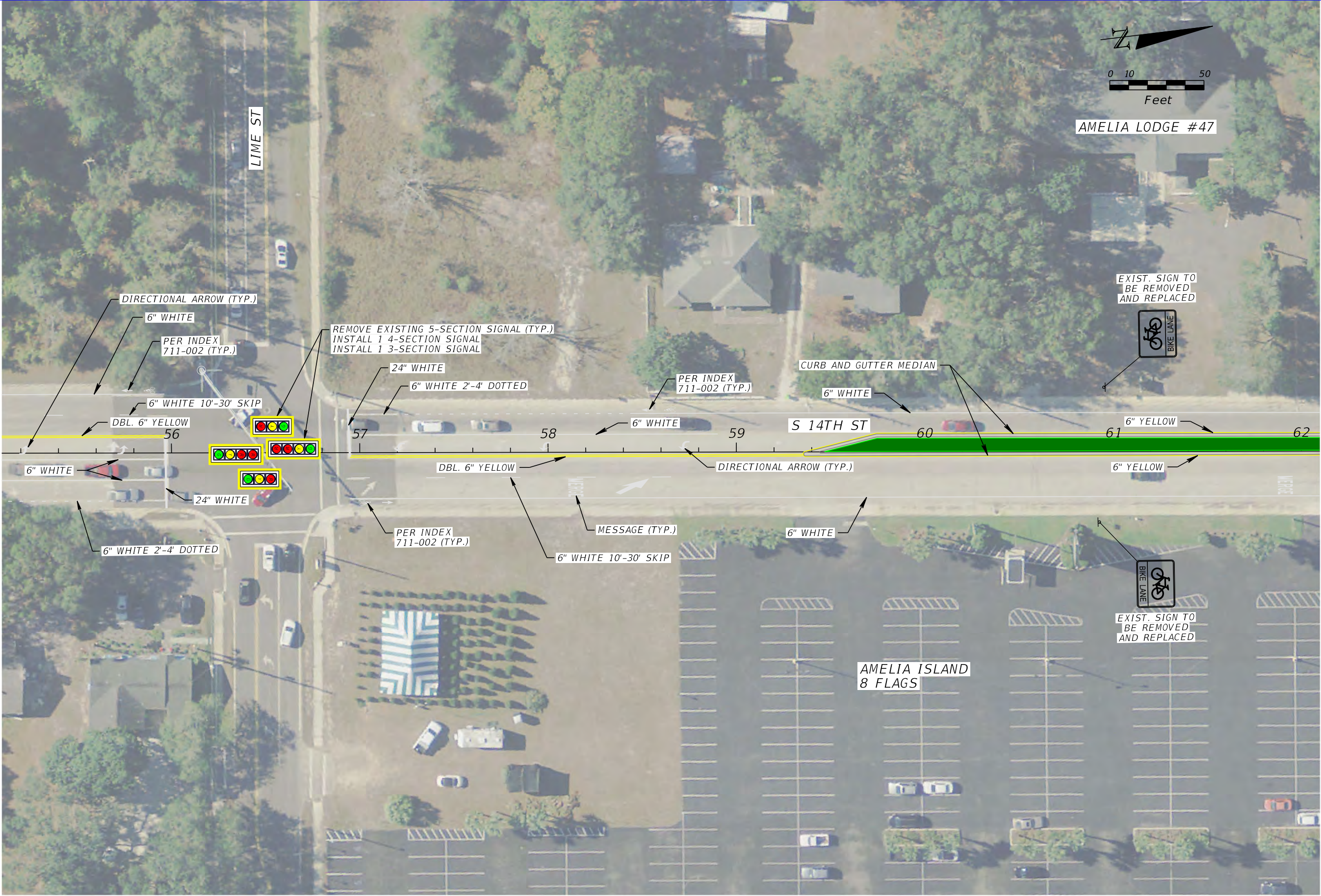
PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
CONCEPT PLAN

SHEET
NO.
D-8



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
CONCEPT PLAN

SHEET NO.
D-9



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

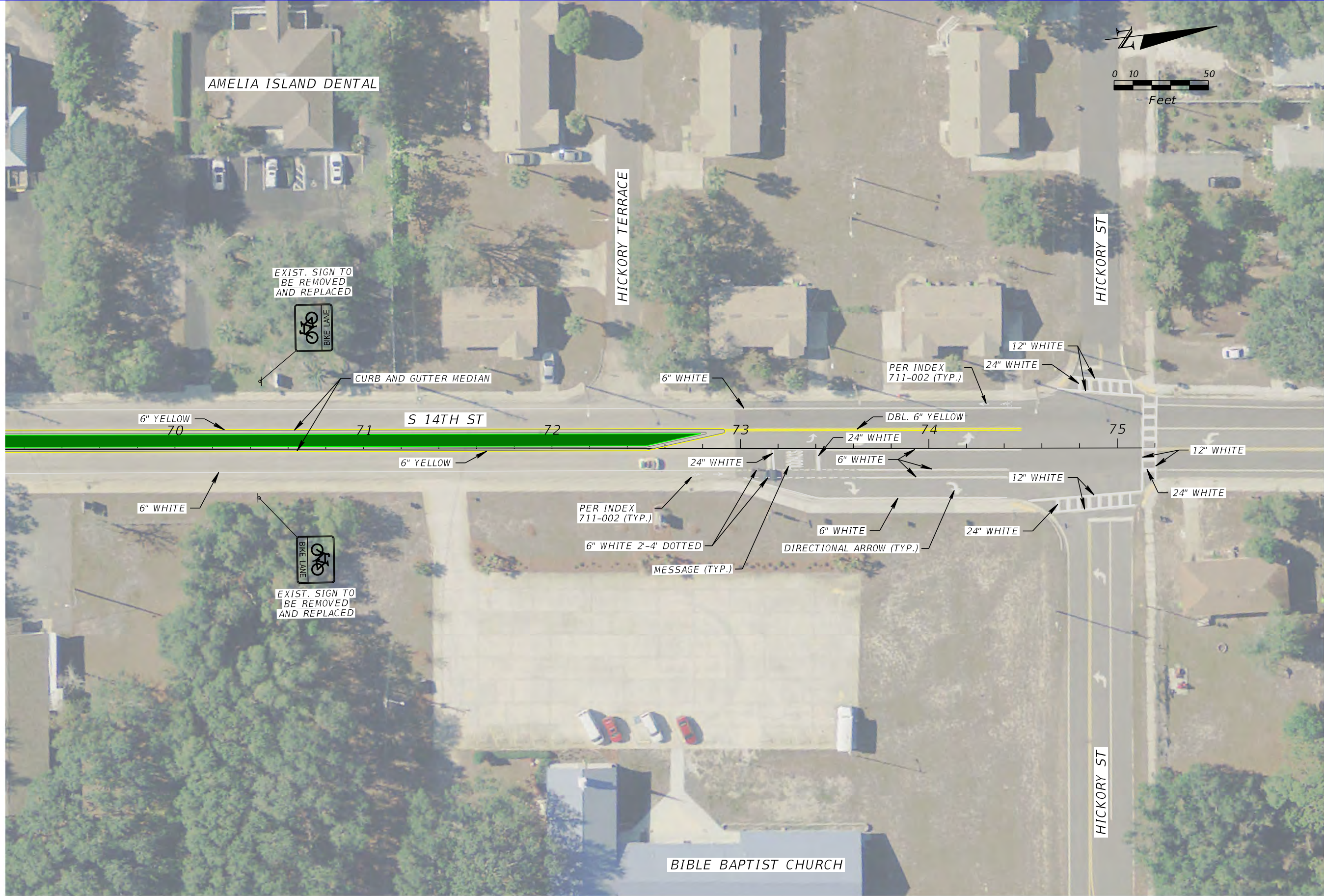
PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
CONCEPT PLAN

SHEET NO.
D-10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



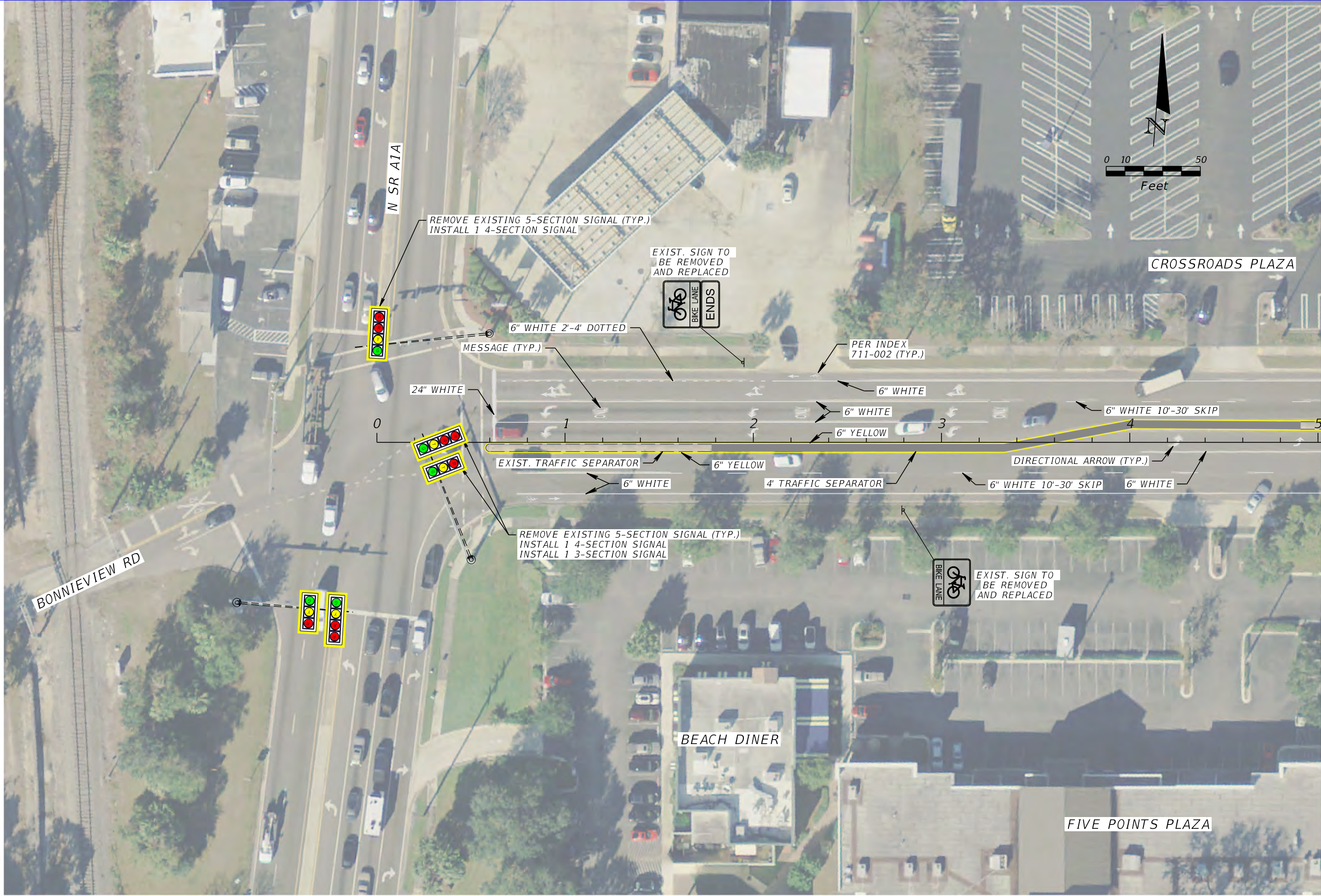
NASSAU COUNTY
ENGINEERING
PLAN FOR:
S 14TH ST

S 14TH ST
CONCEPT PLAN
SHEET NO.
D-11

**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



**Appendix E - Concept Plans
(Sadler Road)**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

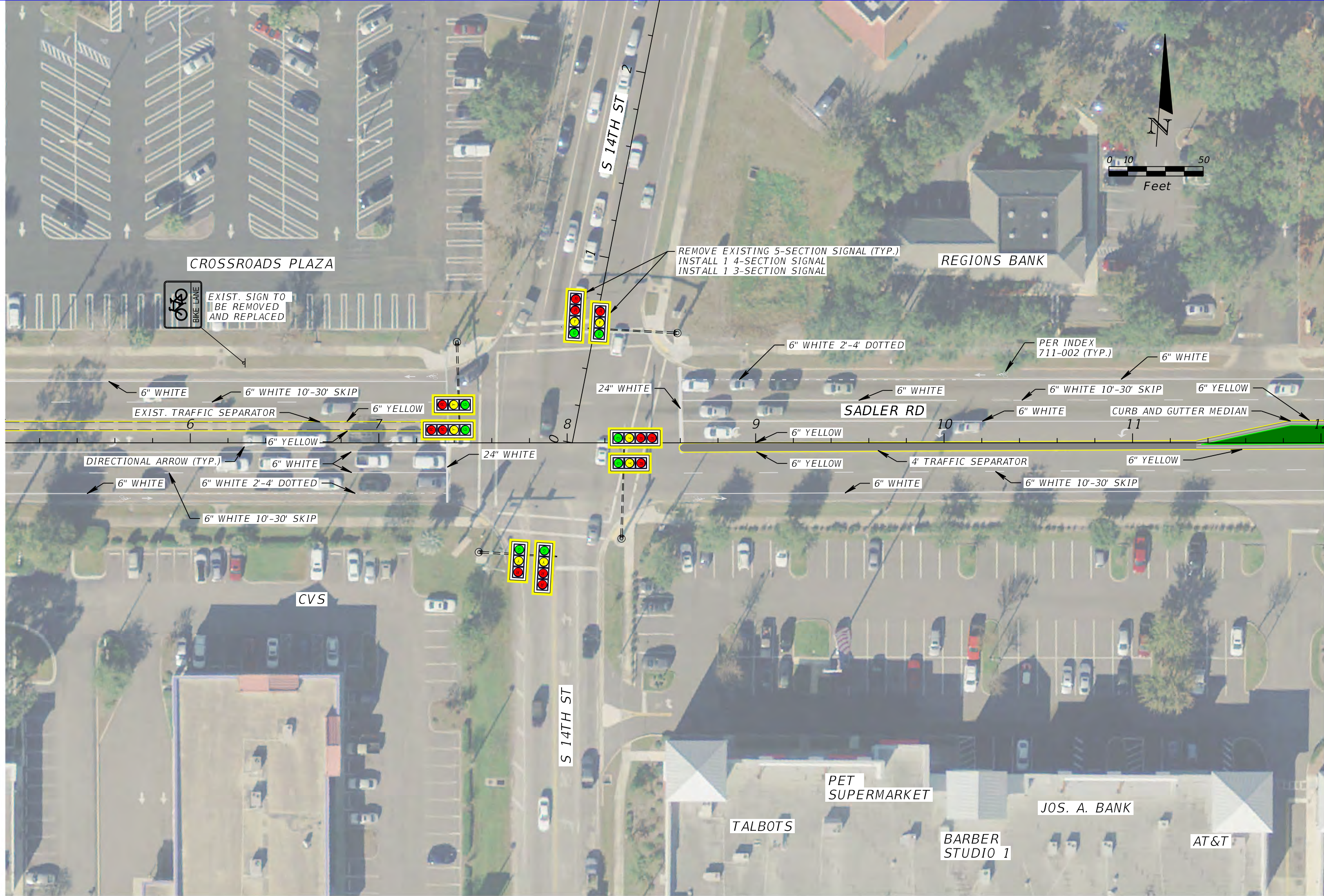
PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
SADLER ROAD

SADLER ROAD
CONCEPT PLAN

SHEET
NO.
E-1



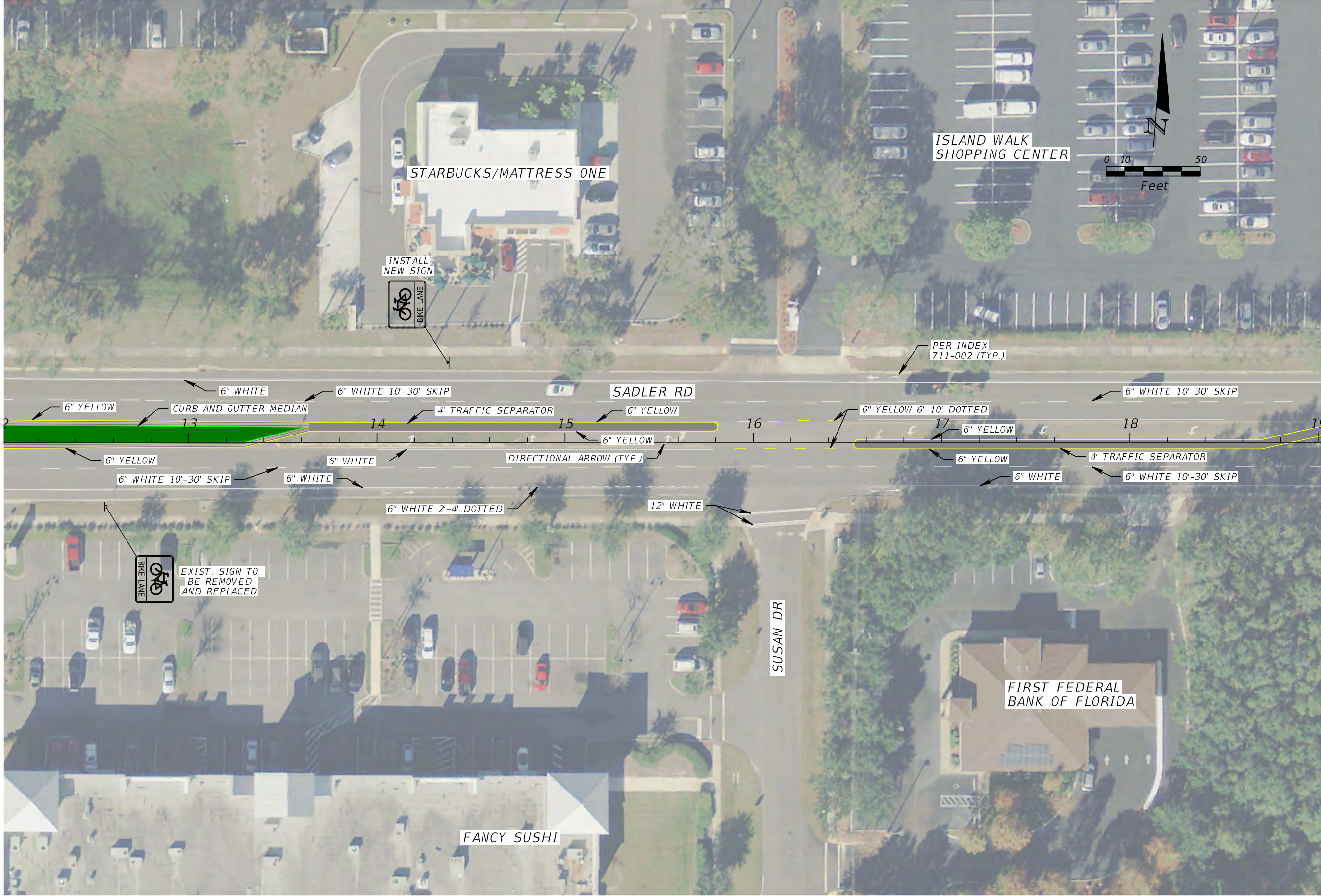
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY ENGINEERING
PLAN FOR:
SADLER ROAD

SADLER ROAD CONCEPT PLAN	SHEET NO.
	E-2



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

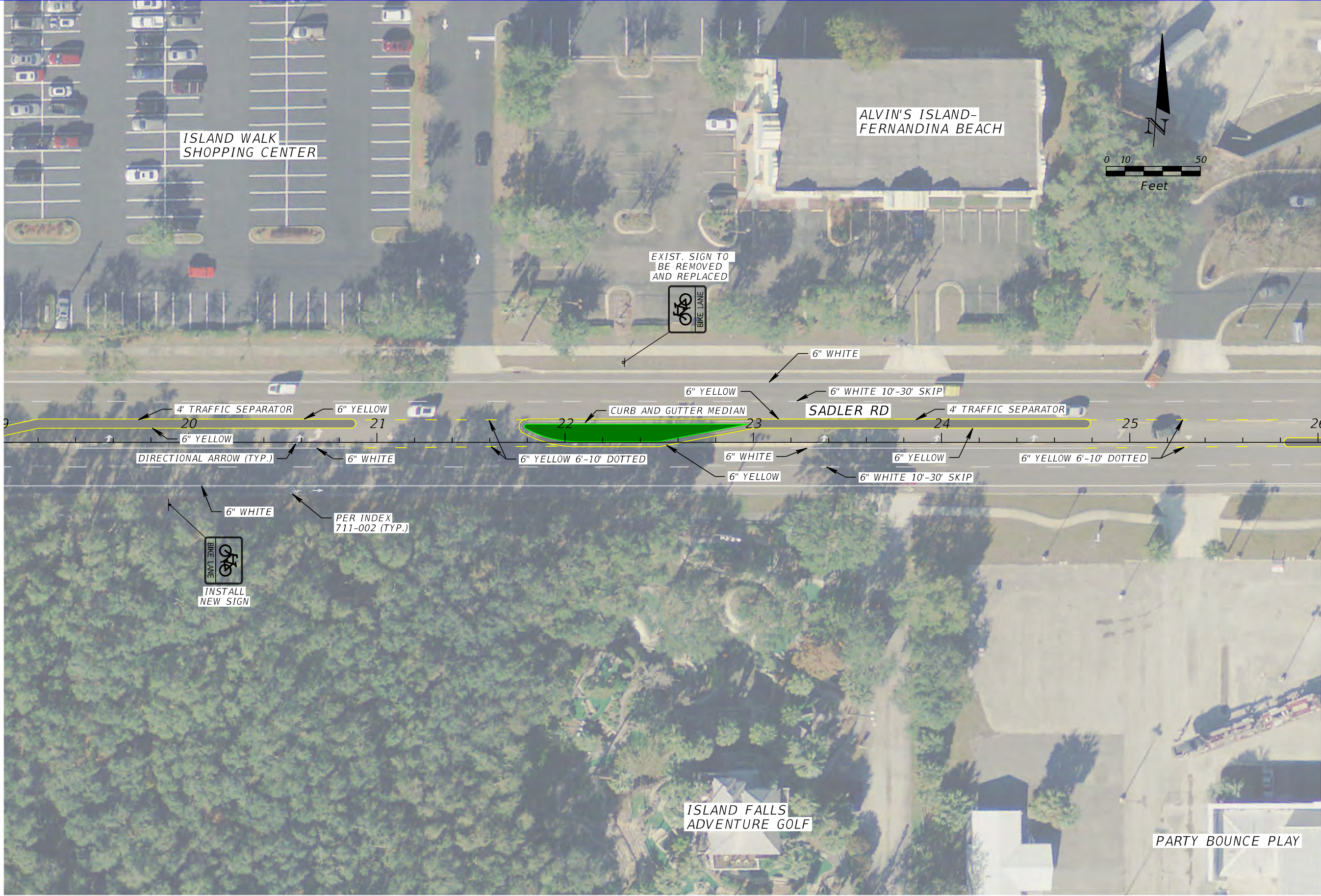
PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258




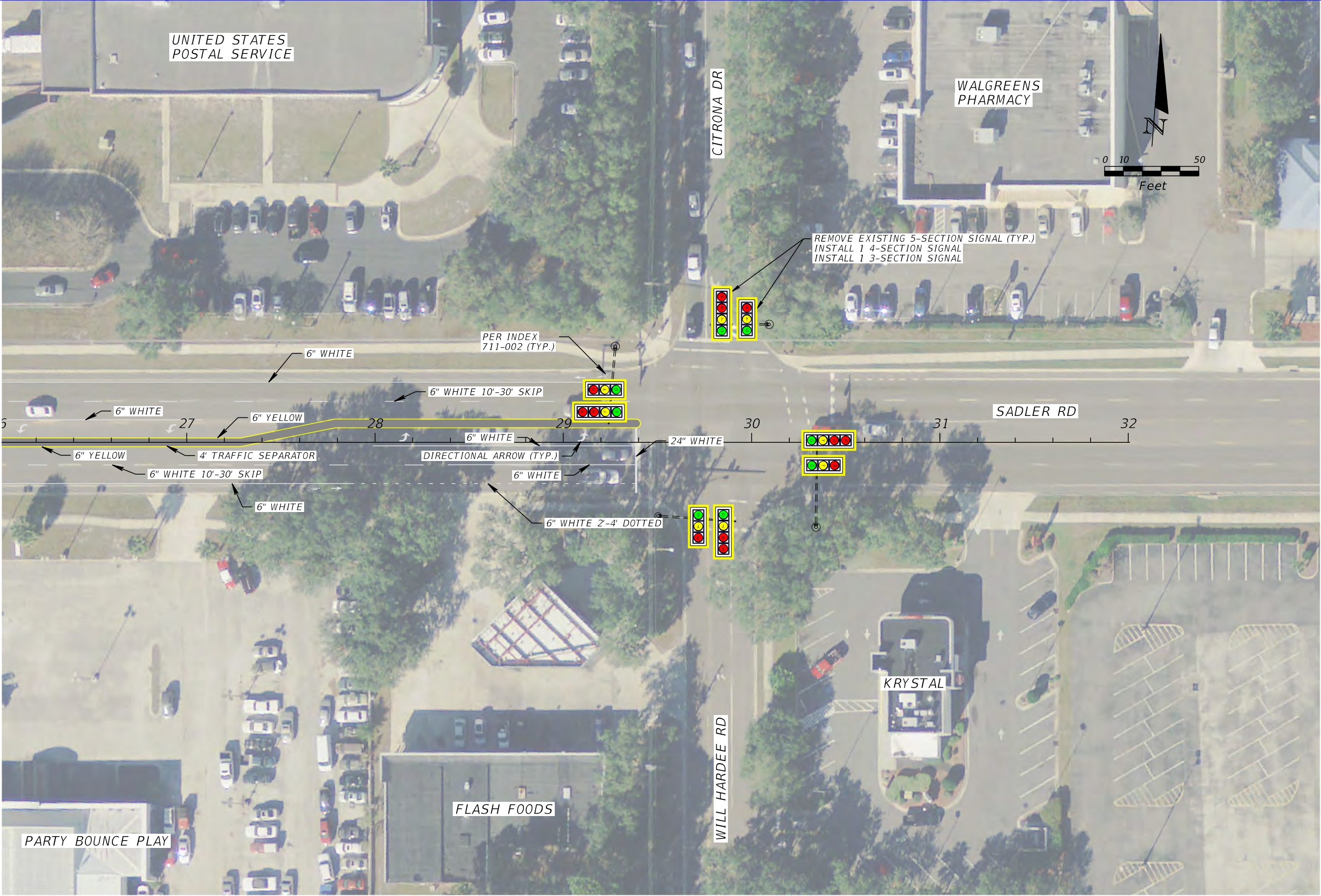
NASSAU COUNTY
ENGINEERING
PLAN FOR:
SADLER ROAD

SADLER ROAD
CONCEPT PLAN

SHEET
NO.
E-3



REVISIONS				PETERS AND YAFFEE, INC 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 CERTIFICATE OF AUTHORIZATION 28258		NASSAU COUNTY ENGINEERING PLAN FOR: SADLER ROAD	SADLER ROAD CONCEPT PLAN		SHEET NO. E-4
DATE	DESCRIPTION	DATE	DESCRIPTION						



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
CERTIFICATE OF AUTHORIZATION 28258



NASSAU COUNTY
ENGINEERING
PLAN FOR:
SADLER ROAD

SADLER ROAD
CONCEPT PLAN

E-5

**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



Appendix F
Benefit/Cost and Net Present Value Analyses,
Engineer's Probable Cost of Construction



District Two

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP)
BENEFIT/COST AND NET PRESENT VALUE ANALYSIS

1. PROJECT INFORMATION

PROJECT TITLE	14TH Street - Safety Study					PRIORITY NO.	
COUNTY	Nassau		SECTION	N/A	U.S. ROAD	N/A	SPEED (MPH)
B.M.P.	N/A	E.M.P.	N/A	LENGTH	1.420 Miles	SR	CR 105A
LOCATION	14TH Street from Sadler Road to Hickory Strret						
FACILITY TYPE	4-5 Lanes Univided Urban Roadway						

2. CRASH REDUCTION INFORMATION

CAUSE OF CRASH PROBLEM	Failure to yield Right of Way. Careless Driving.					
PROPOSED IMPROVEMENTS (LIST AND DISCUSS):	(1). Replace Two-Way Left Turn Lane (TWLTL) with raised median-CMF ID 2514 (Applicable for Angle, Fixed object, Head on, Rear end, Run off road, Sideswipe, Single vehicle). (2). Install left turn flashing yellow arrow signals and supplemental traffic signs-CMF ID 7730 (Applicable for Left turn).					
CRASH REDUCTION FACTORS	Replace TWLTL with raised median		23%			
	Install LTFYA signals & traffic signs		14%			

3. CRASH TYPE AND FREQUENCY

CRASH TYPES		NO. OF CRASHES										
FATAL (K), INJURY (A)	2013	2014	2015	2016	2017	CRF %	PREVENTED	CRASH INFORMATION FOR FACILITY			No. Years	
Replace TWLTL with raised median					1	23%	0.23	COST PER CRASH:		\$ 107,908.00	5	
Install LTFYA signals & traffic signs						14%	0.00	CRASH CLEANUP:		\$100 per year		
0						0%	0.00	INTEREST (DISCOUNT) RATE:		4.0%		
0						0%	0.00	ANNUAL COST OF IMPROVEMENTS				
INJURY (B, C)	2013	2014	2015	2016	2017	CRF %	PREVENTED	TYPE	COST	LIFE (YR)	CAPITAL RECOVERY FACTOR	COST PER YEAR
Replace TWLTL with raised median		7	2		2	23%	2.53	ROADWAY	\$ 225,395.64	20	0.0736	\$ 16,585
Install LTFYA signals & traffic signs	1				1	14%	0.29	SIGNING/SIGNAL	\$ 117,906.63	10	0.1233	\$ 14,536.82
0						0%	0.00	LIGHTING		15	0.0899	
0						0%	0.00	DRAINAGE		20	0.0736	
								EARTHWORK	\$ -	20	0.0736	
PDO (O)	2013	2014	2015	2016	2017	CRF %	PREVENTED	MOT	\$ 34,330.23	20	0.0736	\$ 2,526.08
Replace TWLTL with raised median	5	3	3	9	2	23%	5.06	MOBILIZATION	\$ 34,330.23	20	0.0736	\$ 2,526.08
Install LTFYA signals & traffic signs			2	1	1	14%	0.57	OTHER		10	0.1233	
0						0%	0.00	CONTINGENCY		20	0.0736	
0						0%	0.00	PE/CEI	\$ 127,990.68	20	0.0736	\$ 9,417.78
								SUBTOTAL	\$ 539,953.41	20		\$ 45,591.76
TOTAL CRASHES (ALL TYPES)	6	10	7	10	7					CRASH CLEANUP		\$ 173.56
TOTAL CRASHES TO BE PREVENTED	1.293	2.3	1.436	2.213	1.436		8.68			TOTAL ANNUAL COST		\$ 45,765.32
BENEFIT								NET PRESENT VALUE				
TOTAL CRASH BENEFIT							\$ 936,425.62	CURRENT YEAR				2018
TOTAL ANNUAL BENEFIT							\$ 187,285.12	PROJECT COMPLETION YEAR				2023
BENEFIT/COST							4.09	NET PRESENT VALUE				\$1,635,750.61
COMMENTS												
Prepared By: Sam Kadi												
Date: 10/29/2018												
Approved By:												
Date:												

Engineer's Probable Cost of Construction

Date: 6/7/2018

Prepared by: Sam Kadi

County: 74 - Nassau

Location: 14TH Street from Sadler Road to Hickory Street

[illegible]

Estimated Sub-Total Construction Cost: \$ 195,996.21

MOT (%):	\$	-
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Mobilization(%):		\$	-
------------------	--	----	---

Contingency(%):	15%	\$ 29,399.43
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Design & CEI:

Other:

Estimated Total: \$ 225,395.64

ROUNDED FINAL TOTAL: \$ 225,395.64

The estimated may be adjusted for inflation if programmed

Engineer's Probable Cost of Construction

Date: 10/29/2018

Prepared by: Sam Kadi

County: 74 - Nassau

Location: 14TH Street from Sadler Road to Hickory Street

[illegible]

* Budgetary FDOT Contract Cost

Estimated Sub-Total Construction Cost:	\$ 102,527.50
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MOT (%):		\$	-
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Mobilization(%):		\$	-
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Contingency(%):	15%	\$	15,379.13
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Design & CEI:

Other:

Estimated Total: \$ 117,906.63

ROUNDED FINAL TOTAL: \$ 117,906.63

The estimated may be adjusted for inflation if programmed



District Two

HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) BENEFIT/COST AND NET PRESENT VALUE ANALYSIS

1. PROJECT INFORMATION

PROJECT TITLE	Sadler Road - Safety Study					PRIORITY NO.	
COUNTY	Nassau	SECTION	N/A	U.S. ROAD	N/A	SPEED (MPH)	35
B.M.P.	N/A	E.M.P.	N/A	LENGTH	0.568 Miles	SR	108
LOCATION	Sadler Road from SR 200 to Citrona Road						
FACILITY TYPE	4-5 Lanes Unidivded Urban Roadway						

2. CRASH REDUCTION INFORMATION

CAUSE OF CRASH PROBLEM	Failure to yield Right of Way. Careless Driving.					
PROPOSED IMPROVEMENTS (LIST AND DISCUSS):	(1). Replace Two-Way Left Turn Lane (TWLTL) with raised median-CMF ID 2514 (Applicable for Angle, Fixed object, Head on, Rear end, Run off road, Sideswipe, Single vehicle). (2). Install left turn flashing yellow arrow signals and supplemental traffic signs-CMF ID 7730 (Applicable for Left turn).					
CRASH REDUCTION FACTORS	Replace TWLTL with raised median		23%			
	Install LTFYA signals & traffic signs		14%			

3. CRASH TYPE AND FREQUENCY

CRASH TYPES		NO. OF CRASHES							CRASH INFORMATION FOR FACILITY				No. Years
FATAL (K), INJURY (A)	2013	2014	2015	2016	2017	CRF %	PREVENTED	COST PER CRASH:		\$ 107,908.00	5		
Replace TWLTL with raised median						23%	0.00	CRASH CLEANUP:		\$100	per year		
Install LTFYA signals & traffic signs						14%	0.00	INTEREST (DISCOUNT) RATE:		4.0%			
								ANNUAL COST OF IMPROVEMENTS					
INJURY (B, C)	2013	2014	2015	2016	2017	CRF %	PREVENTED	TYPE	COST	LIFE (YR)	CAPITAL RECOVERY FACTOR	COST PER YEAR	
Replace TWLTL with raised median	1	1				23%	0.46	ROADWAY	\$ 150,390.13	20	0.0736	\$ 11,066	
Install LTFYA signals & traffic signs	1		1		3	14%	0.70	SIGNING/SIGNAL	\$ 61,545.94	10	0.1233	\$ 7,588.06	
								LIGHTING		15	0.0899		
								DRAINAGE		20	0.0736		
								EARTHWORK		20	0.0736		
PDO (O)	2013	2014	2015	2016	2017	CRF %	PREVENTED	MOT	\$ 21,193.61	20	0.0736	\$ 1,559.46	
Replace TWLTL with raised median	5	10	6	6	1	23%	6.44	MOBILIZATION	\$ 21,193.61	20	0.0736	\$ 1,559.46	
Install LTFYA signals & traffic signs			1	1	1	14%	0.42	OTHER		10	0.1233		
								CONTINGENCY		20	0.0736		
								PE/CEI	\$ 88,580.82	20	0.0736	\$ 6,517.93	
								SUBTOTAL	\$ 342,904.11	20		\$ 28,290.88	
TOTAL CRASHES (ALL TYPES)	7	11	8	7	5					CRASH CLEANUP		\$ 160.40	
TOTAL CRASHES TO BE PREVENTED	1.52	2.53	1.66	1.52	0.79		8.02			TOTAL ANNUAL COST		\$ 28,451.28	
BENEFIT								NET PRESENT VALUE					
TOTAL CRASH BENEFIT							\$ 865,422.16	CURRENT YEAR				2018	
TOTAL ANNUAL BENEFIT							\$ 173,084.43	PROJECT COMPLETION YEAR				2023	
BENEFIT/COST							6.08	NET PRESENT VALUE				\$1,667,829.50	
COMMENTS													
Prepared By: Sam Kadi													
Date: 10/29/2018													
Approved By:													
Date:													

Engineer's Probable Cost of Construction

Date: 6/7/2018

Prepared by: Sam Kadi

County: 74 - Nassau

Location: Sadler Road from SR 200 to Citrona Road

[illegible]

Estimated Sub-Total Construction Cost: \$ 130,774.03

MOT (%):		\$	-
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Mobilization(%):		\$	-
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Contingency(%):	15%	\$	19,616.10
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Design & CEI:

Other:

Estimated Total: \$ 150,390.13

ROUNDED FINAL TOTAL: \$ 150,390.13

The estimated may be adjusted for inflation if programmed

Engineer's Probable Cost of Construction

Date: 10/29/2018

Prepared by: Sam Kadi

County: 74 - Nassau

Location: Sadler Road from SR 200 to Citrona Road

[illegible]

* Budgetary FDOT Contract Cost

Estimated Sub-Total Construction Cost:	\$	53,518.21
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MOT (%):		\$	-
----------	--	----	---

Mobilization(%):		\$	-
------------------	--	----	---

Contingency(%):	15%	\$	8,027.73
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Design & CEI:

Other:

Estimated Total: \$ 61,545.94

ROUNDED FINAL TOTAL: \$ 61,545.94

The estimated may be adjusted for inflation if programmed

Sam Kadi

From: Josephine Craver <jcraver@nassaucountyfl.com>
Sent: Thursday, October 25, 2018 1:12 PM
To: Sam Kadi; Russell Yaffee
Cc: Dow W. Peters; Chris Dixon; Becky Bray; Robert Companion
Subject: Response to draft 14th & Sadler Safety Study
Attachments: RE: Flashing Yellow Upgrades

Follow Up Flag: Follow up
Flag Status: Flagged

Nassau County looked at the draft study submitted and had a couple comments before you sign and finalize the study:

- 1) See attached email from FDOT on the signals and what improvements (with costs) will be needed for flashing yellow to be installed. Any questions on the signalization, contact Chris Dixon in Engineering services in Nassau County. Please incorporate the recommended improvements and costs from FDOT in the study.
- 2) For clarification, please show at what intersections the flashing yellow lights are to be installed on the concept plans in Appendix D and E.

Thank you, Sam. I apologize for the delay in responding to you, but I was away when the draft study was submitted to the County.

Contact me if you have any questions.

Josephine Craver, Engineer 2
Nassau County Engineering Services
96161 Nassau Place
Yulee, Florida 32097
jcraver@nassaucountyfl.com
904-530-6225

Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, please do not send electronic mail to this entity. Instead, please contact this office by phone or in writing.

Sam Kadi

From: Greg Freel <GregFreel@trafficware.com>
Sent: Monday, October 22, 2018 5:46 PM
To: Chris Dixon
Cc: Josephine Craver
Subject: RE: Flashing Yellow Upgrades

Chris,

Please see my response below in BOLD CAPS.

Greg Freel
Senior Business Development Manager
904.613.9331



From: Chris Dixon [mailto:cdixon@nassaucountyfl.com]
Sent: Monday, October 22, 2018 2:52 PM
To: Greg Freel <GregFreel@trafficware.com>
Cc: Josephine Craver <jcraver@nassaucountyfl.com>
Subject: Flashing Yellow Upgrades

Good afternoon Greg,

Following up with our conversation last week, Nassau County is looking at a safety study for improvements to South 14th Street and Sadler Road on Amelia Island. Part of this would be installing left-turn flashing yellow arrows at several intersections. As I mentioned last week, we have several older intersections I do not believe would be compatible with flashing yellow without upgrades. I would appreciate you taking a look below at rough lowdown on what I have, let me know if you need more info....I know the answer on most of this but let me know what you think. Thanks!

14th and Jasmine

1993 Southern Type 5 cabinet w/ 1993 Transyt 1880EL controller and Transyt Model 1200 CMU **REQUIRES A TRAFFICWARE TS2 TYPE-1 CABINET, TRAFFICWARE 980 CONTROLLER, & TRAFFICWARE MMU-516L IP MONITOR - BUDGETARY FDOT CONTRACT COST \$13,595**

14th and TJ Courson

1999 Southern Type 6 cabinet w/ Trafficware 980 v61.4 controller and Peek Type 12 TS1 CMU **REQUIRES A TRAFFICWARE TS2 TYPE-1 CABINET, & TRAFFICWARE MMU-516L IP MONITOR - BUDGETARY FDOT CONTRACT COST \$11,245**

14th and Lime

Trafficware TS2 Type 6 cabinet w/ Trafficware 980 v61.4 controller and Trafficware 516L MMU **NOTHING NEEDED HERE BUT PROGRAMMING OF THE EXISTING GEAR**

Sadler and Citrona

2002 Peek Type 5 cabinet w/ Peek 3000E controller and Peek Type 12 TS1 CMU **REQUIRES A TRAFFICWARE TS2 TYPE-1 CABINET, TRAFFICWARE 980 CONTROLLER, & Trafficware MMU-516L IP MONITOR - BUDGETARY FDOT CONTRACT COST \$13,595**

Sadler and 14th

2012 Trafficware TS2 Type 6 cabinet w/ 980 v76.8 controller and Trafficware 516L MMU **NOTHING NEEDED HERE BUT PROGRAMMING OF THE EXISTING GEAR**

Sadler and 8th

Trafficware TS2 Type 6 w Trafficware 980 v61.4 controller and Trafficware 516L MMU **NOTHING NEEDED HERE BUT PROGRAMMING OF THE EXISTING GEAR**

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**Safety Study for Improvements
to South 14th Street (from Sadler Road to Hickory Street)
and Sadler Road (from 8th Street to east of Citrona Drive)**



Appendix G
FHWA Crash Modification Factors



CMF / CRF Details

CMF ID: 2514

Replace TWLTL with raised median

Description:

Prior Condition: Two way left turn lane (TWLTL)

Category: Access management

Study: [*Modeling and Evaluating the Safety Impacts of Access Management \(AM\) Features in the Las Vegas Valley, Mauga and Kaseko, 2010*](#)

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value:

0.77

Adjusted Standard Error:

Unadjusted Standard Error:

0.0616

Crash Reduction Factor (CRF)

Value:

23 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	6.16
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Applicability	
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Crash Type:	Angle,Fixed object,Head on,Rear end,Run off road,Sideswipe,Single vehicle
Crash Severity:	All
Roadway Types:	All
Number of Lanes:	
Road Division Type:	All
Speed Limit:	30-45
Area Type:	Urban
Traffic Volume:	4883 to 96080
Time of Day:	Not specified

<i>If countermeasure is intersection-based</i>

Intersection Type:	
Intersection Geometry:	
Traffic Control:	
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details	
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Date Range of Data Used:	2002 to 2006
Municipality:	
State:	NV

Country:	
Type of Methodology Used:	Regression cross-section
Sample Size Used:	Crashes

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Aug-11-2010
Comments:	

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CMF / CRF Details

CMF ID: 7730

Install left turn flashing yellow arrow signals and supplemental traffic signs

Description: Install left turn flashing yellow arrow signals with supplemental traffic signs with text "Left Turn Yield on Flashing Yellow Arrow"

Prior Condition: Permissive phase of the PPLT control operated with a circular green indication

Category: Intersection traffic control

Study: [*Safety Effects of Traffic Signing for Left Turn Flashing Yellow Arrow Signals*, Schattler et al., 2015](#)

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value:

0.857

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

14.3 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability	
Crash Type:	Left turn
Crash Severity:	All
Roadway Types:	All
Number of Lanes:	2-7
Road Division Type:	All
Speed Limit:	
Area Type:	Urban
Traffic Volume:	
Time of Day:	All
<i>If countermeasure is intersection-based</i>	
Intersection Type:	
Intersection Geometry:	3-leg,4-leg
Traffic Control:	Signalized
Major Road Traffic Volume:	3250 to 37500 Average Daily Traffic (ADT)
Minor Road Traffic Volume:	63 to 14700 Average Daily Traffic (ADT)

Development Details	
Date Range of Data Used:	2007 to 2013
Municipality:	Peoria

State:	IL
Country:	USA
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-08-2016
Comments:	CMFs of left-turn related crashed on signalized intersections, including not interchange related and interchange related intersections. Applies to approaches with dedicated left turn lanes and PPLT phasing before and after.

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