FEBRUARY 2023

River to Sea Transportation
Planning Organization (R2CTPO)
2570 W International Speedway Blvd.
Suite 100
Daytona Beach, FL 32114

Final Report

LIGHTING JUSTIFICATION REPORT

Taylor Road / Dunlawton Avenue (SR 421) from Summer Trees Road to Spruce Creek Road

VHB
250 E. Robinson St.
Orlando, FL 32803

Final Report

Lighting Justification Report
For
SR 421 from Taylor Road/Dunlawton Avenue (SR 421) from Summer Trees Road to Spruce Creek Road

Task Work Order TOF-VHB-08

Prepared For

River to Sea Transportation Planning Organization
2570 W. International Speedway Boulevard
Suite 100
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Prepared By

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VINOD VISHWANATHA
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PROFESSIONAL ENGINEER

Digitally signed by Vinod Vishwanatha
Date: 2023.02.15 08:51:28 -05'00'

This item has been digitally Signed and Sealed by Vinod Vishwanatha on the date adjacent to the seal.
Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Vanasse Hangen Brustlin, Inc.
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Orlando, FL – 32801
Certificate of Authorization 3932

Executive Summary

This Lighting Justification Report (LJR) was developed for the Taylor Road / Dunlawton Avenue corridor from Summer Trees Road to Spruce Creek Road using American Association of State Highway and Transportation Officials (AASHTO) and Transportation Association of Canada (TAC) Guide for the Design of Roadway Lighting (27) TAC (27) warrants. The study corridor was assessed for lighting by splitting the corridor into following five segments:

1) Summer Trees Road to Williamson Boulevard
2) Williamson Boulevard to Taylor Branch Road *(lighting present along both sides of this segment)*
3) Taylor Branch Road to Clyde Morris Boulevard
4) Clyde Morris Boulevard to Nova Road
5) Nova Road to Spruce Creek Road

AASHTO does not have specific warrants to justify lighting on an arterial roadway. However, it does state that lighting should be applied for safety, efficiency, and comfort where the governmental agencies agree. The TAC (27) warrant method of warranting roadway lighting yielded a value of **64.59** for the segment of Dunlawton Avenue from Clyde Morris Boulevard to Nova Road which is above the required 60.0 to warrant roadway lighting. It should be noted that TAC (27) warrant score for the segments of Summer Trees Road to Williamson Boulevard **(57.74)** and Nova Road to Spruce Creek Road **(58.04)** are slightly lower than the weighted score of 60.0 to warrant roadway lighting.

The Net Present Value (NPV) assessment for the segment of Dunlawton Avenue, east of Taylor Branch Road resulted in positive values suggesting lighting along these segments are economically justified. The NPV for the segment from Summer Trees Road to Williamson Boulevard resulted in a negative value suggesting lighting along this segment is not economically justified.

Based upon the results of the TAC (27) warrant and NPV assessment lighting along the Dunlawton Avenue between Taylor Branch Road and Spruce Creek Road is recommended. The segment between Taylor Branch Road and Clyde Morris Boulevard has a TAC (27) weighted score of 48.97 which is less than the TAC (27) warrant score of 60.0. and a positive NPV ($504,509). The segment

between Clyde Morris Boulevard and Nova Road has a TAC (27) weighted score of 64.59 (greater than warrant score of 60.0) and a positive NPV ($158,554). The segment between Nova Road and Spruce Creek Road has a TAC (27) weighted score of 58.04 which is slightly less than the TAC (27) warrant score of 60.0 and a positive NPV ($885,346).

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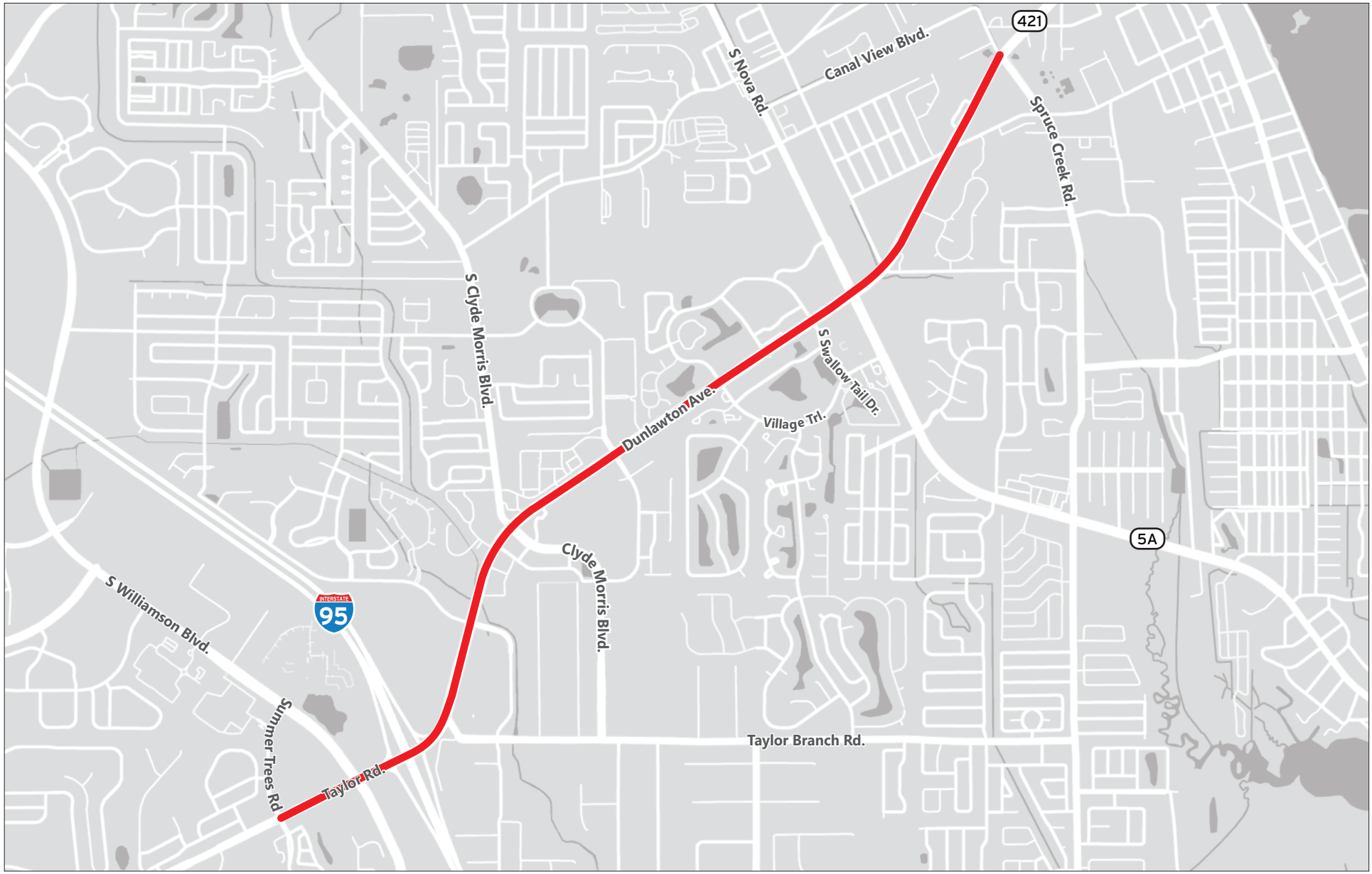
SECTION 1.0 – INTRODUCTION

VHB was retained to perform a lighting justification report for Taylor Road / Dunlawton Avenue from Summer Trees Road to Spruce Creek Road. The study segments of Taylor Road / Dunlawton Avenue is located within City of Port Orange in Volusia County, Florida. A location map is included as *Figure 1*. As part of the justification and warrant analysis, the geometric, operational, and environmental factors, as well as the ratio of night and day crash rates were evaluated utilizing the procedures developed in the August 2012 FHWA Lighting Handbook which utilizes the Transportation Association of Canada (TAC) Guide for the Design of Roadway Lighting (27) (TAC (27)) warranting system. This was done to analyze the night-time visual information needs in order to determine if complete roadway lighting is warranted and justified. The procedure is in accordance with the requirements of the Manual on Uniform Traffic Studies (MUTS-2016 Edition). The roadway was also analyzed utilizing the format set forth in the Roadway Lighting Design Guide 2018, established by the American Association of State Highway and Transportation Officials (AASHTO). This report analyzed the Average Annual Daily Traffic (AADT) and the night-to-day crash rates to determine if a complete roadway lighting system is warranted and justified.

Source: Google Maps



Study Corridor

N

N.T.S.

Figure 1

Study Corridor
Lighting Justification Report
Taylor Road/Dunlawton Avenue from Summer Trees Road to Spruce Creek Road

SECTION 2.0 – ROADWAY LIGHTING WARRANT ANALYSIS

SECTION 2.1 – AASHTO WARRANTS

AASHTO's Roadway Lighting Design Guide 2018 does not establish specific warrants for the installation of roadway lighting on conventional arterial/collector roadways. It states, "In general, lighting may be considered for those locations where the relevant governmental agencies agree that lighting would contribute substantially to the safety, efficiency, and comfort of vehicular or pedestrian traffic."

SECTION 2.2 – TAC (27) WARRANTS

The TAC (27) Warranting System is an analytical approach to warranting lighting. It goes through several factors of a proposed or existing road in determining whether lighting is warranted. These factors are each weighted accordingly and then totaled. A total score of 60.0 warrants roadway lighting.

The TAC (27) warrants were evaluated for the Taylor Road / Dunlawton Avenue study corridor by splitting it into five segments:

1) Summer Trees Road to Williamson Boulevard
2) Williamson Boulevard to Taylor Branch Road *(street lighting present on both sides of this segment)*
3) Taylor Branch Road to Clyde Morris Boulevard
4) Clyde Morris Boulevard to Nova Road
5) Nova Road to Spruce Creek Road

Geometric Factors

Geometric conditions of a roadway facility, to a large extent, determine the driving task and the information needed necessary to perform the task safely and efficiently. Included in the geometric factors are the number of lanes, lane widths, median openings per mile, curb cuts, curves, grades, sight distance, and on street parking. The geometric factors for the study segments are summarized in *Table 1*.

Table 1: Summary of Geometric Factors

Segment	# of Lanes	Lane Width	Median Openings per mile	Driveways & Entrances per mile	Horizontal Curve Radius (Feet)
Summer Trees Road to Williamson Boulevard	4	11.0 – 11.7 feet	7.4	26.0	>1,969
Williamson Boulevard to Taylor Branch Road	6	11.0 – 11.7 feet	8.4	8.5	1,476 – 1,969
Taylor Branch Road to Clyde Morris Boulevard	6	11.0 feet	7.8	18.7	>1,969
Clyde Morris Boulevard to Nova Road	6	11.0 – 12.0 feet	4.6	12.3	1,476 -1,969
Nova Road to Spruce Creek Road	4	12.0 feet	6.7	22.3	>1,969

There is no on-street parking along the study corridor and the sight distance along all the segments was calculated to be greater than 689'.

Operational Factors

The operational factors are evaluated to provide an indication of how well the facility operates to satisfy its intended function. Included in the operational factors are the number of signals, left turn lanes at intersections, median widths, operating speed and pedestrian traffic at night. *Table 2* summarizes these operational factors for the study segments.

Table 2: Summary of Operational Factors

Segment	Posted Speed (MPH)	# of Signals	Presence of Left Turn lanes	Median Width	Pedestrian Traffic
Summer Trees Road to Williamson Boulevard	45	2	Yes	36.0 feet	Medium
Williamson Boulevard to Taylor Branch Road	45	3	Yes	36.0 feet	Medium
Taylor Branch Road to Clyde Morris Boulevard	50	2	Yes	30.0 - 36.0 feet	Medium
Clyde Morris Boulevard to Nova Road	50	3	Yes	32.0 – 40.0 feet	Medium
Nova Road to Spruce Creek Road	45	1	Yes	18.0 – 40.0 feet	Medium

The night-time pedestrian traffic was assumed to be medium along the study corridor.

Environmental Factors

The environmental factors are evaluated to consider their effects on night-time driving. Included in the environmental factors are the percent and type of development, setback distances, ambient lighting and raised curb median. *Table 3* summarizes these environmental factors for the study segments:

Table 3: Summary of Environmental Factors

Segment	Development/ Land use (% of Corridor length)	Set back distance	Ambient lighting	Raised Curb	Pedestrian Traffic
Summer Trees Road to Williamson Boulevard	Commercial/ Residential (100%)	50 – 100 feet	Moderate	At all intersections	Medium
Williamson Boulevard to Taylor Branch Road	Commercial (100%)	50 – 100 feet	Moderate	At all intersections	Medium
Taylor Branch Road to Clyde Morris Boulevard	Commercial/ Residential (100%)	50 – 100 feet	Distracting	At all intersections	Medium
Clyde Morris Boulevard to Nova Road	Commercial/ Residential (100%)	50 – 125 feet	Moderate	At all intersections	Medium
Nova Road to Spruce Creek Road	Commercial/ Residential (>90%)	50 – 110 feet	Moderate	At all intersections	Medium

Crash Rates

Desirably, the end result of improving the night-time driving environment is to reduce the night crash rate and potential for crashes. Therefore, historical night-crash analysis serves as a means of determining the need for fixed roadway lighting. This analysis evaluates the ratio of night to day crashes.

Crash rates for this study were calculated from crash history reports from the Florida Department of Transportation (FDOT) which were for a three-year span from January 2019 to December 2021. These reports were reviewed and night and day crash data was tabulated to determine the number of crashes per year in each category.

The Annual Average Daily Traffic (AADT) volumes were obtained for each segment from historical AADT data from the FDOT for the same years the crash data was obtained. The crash rate for each segment for day and night traffic was calculated by using the following formula:

Crash Rate = ((Night or Day) Accidents per Year X 1,000,000) / (Project Length in Miles X AADT X %AADT (Night or Day) X 365 day / yr X # Years of Data)

The crash rates for night traffic were divided by the crash rates for the day traffic to come up with the ratio of night-to-day crash rate.

The crash rate evaluation for the segments of the study corridor are summarized in *Table 4.* The ratio of night-to-day crashes for the study segment of Taylor Road / Dunlawton Avenue from Williamson Boulevard to Taylor Branch Road is greater than 2.0, while other segments were found to be less than 2.0. The crash data summaries for the study segments can be found in *Appendix A*.

Table 4: Crash Rate Evaluation

Segment	Length (Miles)	AADT (1)	Night Time % AADT (2)	# of Crashes			Crash Rate			Night-to-Day Crash Rate
				Total	Day Time	Night Time	Total	Day Time	Night Time	
Summer Trees Road to Williamson Boulevard	0.3	14,867	11%	105	88	17	23.95	22.55	35.25	1.56
Williamson Boulevard to Taylor Branch Road	0.4	52,500	11%	196	153	43	9.60	8.42	19.15	2.27
Taylor Branch Road to Clyde Morris Boulevard	0.6	52,500	11%	287	252	35	7.79	7.69	8.64	1.12
Clyde Morris Boulevard to Nova Road	1.3	39,333	11%	388	313	75	6.93	6.28	12.18	1.94
Nova Road to Spruce Creek Road	0.9	32,333	11%	213	178	35	6.70	6.29	10.01	1.59

(1) Represents Average of AADTs reported during Year 2019 – Year 2021

(2) The %AADT is based on Synopsis report available for FDOT Station # 790458

TAC Warrant Evaluation

Each of the study segment was evaluated against the TAC warrants using the classification factors summarized above. As shown in *Table 5*, the weighted score for study segment of Dunlawton Avenue from Clyde Morris Boulevard to Nova Road exceeds the warranting score of 60.0 warranting lighting along this segment. However, the weighted scores for the segments of Taylor Road from Summer Trees Road to Williamson Boulevard and Dunlawton Avenue from Nova Road to Spruce Creek Road resulted in slightly lower values (approximately 2.0) than the warranting score of 60.0. The segment of Dunlawton Avenue from Taylor Branch Road to Clyde Morris Boulevard resulted with a score of 48.97 lower than the warranting score of 60.0. The TAC warrant sheet for individual study segments of Taylor Road / Dunlawton Avenue are included in *Appendix B*.

Table 5: TAC Warrant Evaluation Summary

Segment	Weighted Score by Classification Factors					Warranting Condition Score	Difference	Warrant Meet?
	Geometric	Operational	Environmental	Collision	Total			
Summer Trees Road to Williamson Boulevard	11.90	16.50	7.14	22.20	57.74	60.00	-2.26	No
Williamson Boulevard to Taylor Branch Road	*Lighting Present along both sides of the segment*							
Taylor Branch Road to Clyde Morris Boulevard	12.20	17.15	8.52	11.10	48.97	60.00	-11.03	No
Clyde Morris Boulevard to Nova Road	18.10	17.15	7.14	22.20	64.59	60.00	4.59	Yes
Nova Road to Spruce Creek Road	11.20	17.50	7.14	22.20	58.04	60.00	-1.96	No

SECTION 3.0 – NET PRESENT VALUE ANALYSIS

Per MUTS Section 14.3, the Net Present Value Analysis (NPV) is used to determine if lighting along any of the segments of Taylor Road / Dunlawton Avenue are justified. If the total crash cost is equal to or greater than the cost of construction, maintenance and operation of a lighting system then lighting is justified for High Crash Locations (HCL). At other locations, the NPV is used to rank the order of lighting projects. Essentially, the higher the NPV the greater the benefit. The present worth analysis along the study segments (for well lighted conditions and no lighting conditions) were determined using the Present worth analysis spreadsheets 750-020-21c and 750-020-21d from MUTS for four (4) lane and six (6) lane segments, respectively. The present worth analysis for the study segments are included in *Appendix C*.

Three variables were considered to evaluate the costs associated with lighting the study segments. Installation cost (IC), Present Value of Energy Cost (Operations, PVEC) and Present Value Maintenance Cost (Maintenance, PVMC). These variables are based on the anticipated number of poles for a new system. The anticipated number of poles was calculated based on the use of the FDOT's Lighting Criteria from the FDOT Design Manual for a major arterial roadway of 1.5 foot-candles. The lighting analysis software, AGI32, was used to calculate the required pole spacing and number of poles required to meet the 1.5 foot-candle requirement. The AGI132 analysis resulted in a spacing of 355 feet and 307 feet along the four (4) lane and six (6) lane segments. The AGI32 outputs are included in *Appendix D*.

Installation Cost (IC) - Based on the use of FDOT Unit Cost History for Area 8 for the pay items associated with the lighting installation. The calculations of cost of installation along the study segments can be found in *Appendix E*.

Present Value of Energy Cost (Operations, PVEC) - The cost associated with operating these light poles (cost of electricity) during the life cycle of the luminaire. The annual energy cost is calculated as follows:

*Annual Energy Cost = Cost per KW-H * Watts/Luminaire * Usage (hours/day)*

Cost per KW-H = *$0.11* (Florida Average)

Each luminaire is assumed to be of *279 Watts or 0.279KW* and operates for 11 hours per day.

The present value of energy cost is then derived assuming a 4.0% rate of return and 20 years of service life using the following formula:

PVEC = Annual Energy Cost / (1+ Rate of Return) ^ Service Life

Present Value of Maintenance Cost (Maintenance, PVMC) - It is assumed that the annual maintenance cost associated with each luminaire (light pole) is approximately $200 per year. The present value of maintenance cost is derived assuming a 4.0% rate of return and 20 years of service life using the following formula:

*PVMC = Annual Cost of Maintenance ($200 * # Of Luminaires)/ (1 + Rate of Return) ^ Service Life*

Table 6, the net present value analysis for the study segments suggest, that positive NPV values for the segments of Dunlawton Avenue, east of Taylor Branch Road justifying installation of lights along the corridor.

Table 6: Net Present Value Analysis

Segment	Present Worth Value			# of Luminaries	Installation Cost (IC)	Operations Cost (PVEC)	Maintenance Cost (PVMC)	Total Cost	Net Present Value	Lighting Justified?
	No Lighting	With Lighting	Benefit							
Summer Trees Road to Williamson Boulevard	$2,351,702	$2,149,182	$202,520	10	$210,842	$11,247	$2,000	$224,089	-$21,569	No
Williamson Boulevard to Taylor Branch Road	*Lighting is present along both sides of this segment*									
Taylor Branch Road to Clyde Morris Boulevard	$15,604,515	$14,668,244	$936,271	20	$405,167	$22,494	$4,000	$431,661	$504,609	*Yes*
Clyde Morris Boulevard to Nova Road	$18,285,603	$17,188,467	$1,097,136	44	$880,294	$49,488	$8,800	$938,582	$158,554	*Yes*
Nova Road to Spruce Creek Road	$17,262,166	$15,775,611	$1,486,555	26	$566,766	$29,243	$5,200	$601,209	$885,346	*Yes*

SECTION 4.0 – CONCLUSION AND RECOMMENDATION

AASHTO and TAC (27) warrants were used to analyze the study corridor of Taylor Road / Dunlawton Avenue from Summer Trees Road to Spruce Creek Road. The study corridor was assessed for lighting by splitting the corridor into following five segments:

1) Summer Trees Road to Williamson Boulevard
2) Williamson Boulevard to Taylor Branch Road *(lighting present along both sides of this segment)*
3) Taylor Branch Road to Clyde Morris Boulevard
4) Clyde Morris Boulevard to Nova Road
5) Nova Road to Spruce Creek Road

As stated in the report, AASHTO does not have specific warrants to justify lighting on an arterial roadway. However, it does state that lighting should be applied for safety, efficiency and comfort where the governmental agencies agree. The TAC (27) warrant method of warranting roadway lighting yielded a value of **64.59** for the segment of Clyde Morris Boulevard to Nova Road which is above the required 60.0 to warrant roadway lighting. It should be noted that TAC (27) warrant score for the segments of Summer Trees Road to Williamson Boulevard **(57.74)**, and Nova Road to Spruce Creek Road **(58.04)** are slightly lower than the weighted score of 60.0 to warrant roadway lighting.

The NPV assessment for the segment of Dunlawton Avenue, east of Taylor Branch Road resulted in positive values suggesting lighting along these segments are economically justified. The NPV for the segment from Summer Trees Road to Williamson Boulevard resulted in a negative value suggesting lighting along this segment is not economically justified.

Based upon the results of the TAC (27) warrant and NPV assessment lighting along the Dunlawton Avenue between Taylor Branch Road and Spruce Creek Road is recommended. The segment between Taylor Branch Road and Clyde Morris Boulevard has a TAC (27) weighted score of 48.97 which is less than the TAC (27) warrant score of 60.0. and a positive NPV ($504,509). The segment between Clyde Morris Boulevard and Nova Road has a TAC (27) weighted score of 64.59 (greater

than warrant score of 60.0) and a positive NPV ($158,554). The segment between Nova Road and Spruce Creek Road has a TAC (27) weighted score of 58.04 which is slightly less than the TAC (27) warrant score of 60.0 and a positive NPV ($885,346).

Appendix A: Crash Data

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Summer Trees Road to Williamson Boulevard **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
1	24033057	3/16/2021	Tuesday	5:50 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
2	89398935	8/21/2021	Saturday	10:58 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
3	87740131	10/24/2019	Thursday	8:15 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Dark - Lighted	Dry
4	87738779	9/14/2019	Saturday	5:18 PM	-	-	Vehicle	No	Angle	0	1	$7,000	Daylight	Wet
5	87740578	12/9/2019	Monday	3:30 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
6	87510660	4/1/2019	Monday	3:44 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,500	Daylight	Wet
7	87739036	5/23/2019	Thursday	12:00 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Daylight	Dry
8	89398695	6/8/2021	Tuesday	12:31 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
9	89398435	3/28/2021	Sunday	1:00 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
10	89399286	11/17/2021	Wednesday	12:14 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
11	89398429	3/25/2021	Thursday	7:51 AM	-	-	Vehicle	No	Other	0	1	$5,000	Daylight	Dry
12	87738818	1/3/2019	Thursday	1:05 PM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
13	24032850	11/1/2020	Sunday	12:28 PM	-	-	Vehicle	No	Left Turn	0	1	$10,000	Daylight	Dry
14	87740996	5/11/2020	Monday	3:29 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
15	24033376	1/28/2021	Thursday	11:24 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
16	87739221	4/8/2019	Monday	8:35 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
17	87739828	8/28/2019	Wednesday	3:47 PM	-	-	Vehicle	No	Sideswipe	0	0	$251	Daylight	Dry
18	87739340	6/3/2019	Monday	11:10 AM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
19	87740940	1/10/2020	Friday	3:52 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
20	24033434	2/8/2021	Monday	10:07 AM	-	-	Vehicle	No	Left Turn	0	1	$21,000	Daylight	Dry
21	89399396	12/21/2021	Tuesday	1:29 PM	-	-	Vehicle	No	Rear End	0	0	$3,050	Daylight	Dry
22	89398721	6/17/2021	Thursday	3:25 PM	-	-	Vehicle	No	Sideswipe	0	0	$100	Daylight	Dry
23	89399066	9/23/2021	Thursday	4:30 PM	-	-	Vehicle	No	Unknown	0	0	$1,000	Daylight	Dry
24	89399195	10/31/2021	Sunday	3:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$700	Daylight	Dry
25	87740399	10/19/2019	Saturday	11:19 AM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Wet
26	87739809	5/21/2019	Tuesday	7:24 PM	-	-	Vehicle	No	Angle	0	0	$17,000	Daylight	Dry
27	87740251	12/28/2019	Saturday	5:50 PM	-	-	Vehicle	No	Left Turn	0	2	$20,000	Dark - Lighted	Dry
28	87739112	7/18/2019	Thursday	4:35 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
29	87510484	1/31/2019	Thursday	5:30 AM	-	-	Vehicle	No	Rear End	0	1	$750	Dark - Lighted	Dry
30	87740012	10/12/2019	Saturday	9:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$700	Dark - Lighted	Dry
31	24032077	7/31/2020	Friday	3:02 PM	-	-	Vehicle	No	Right Turn	0	0	$6,000	Daylight	Dry
32	89398574	5/6/2021	Thursday	1:55 PM	-	-	Vehicle	No	Rollover	0	0	$11,000	Daylight	Wet
33	24032646	9/9/2020	Wednesday	12:15 PM	-	-	Vehicle	No	Angle	0	1	$10,000	Daylight	Dry
34	87741207	5/6/2020	Wednesday	5:19 PM	-	-	Vehicle	No	Rear End	0	1	$7,000	Daylight	Dry
35	89399248	11/11/2021	Thursday	7:23 PM	-	-	Vehicle	No	Other	0	0	$2,150	Dark - Lighted	Dry
36	87510648	4/26/2019	Friday	9:16 PM	-	-	Vehicle	No	Sideswipe	0	0	$800	Dark - Lighted	Dry
37	87740241	11/26/2019	Tuesday	6:02 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,750	Dusk	Dry
38	87739496	9/10/2019	Tuesday	6:00 AM	-	-	Vehicle	No	Angle	0	1	$4,000	Dark - Lighted	Dry
39	24033015	12/9/2020	Wednesday	12:36 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
40	89399283	11/19/2021	Friday	3:30 PM	-	-	Vehicle	No	Rear End	0	2	$1,000	Daylight	Dry
41	89399423	12/27/2021	Monday	10:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$600	Dark - Lighted	Dry
42	89398405	3/15/2021	Monday	1:25 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
43	89399095	10/1/2021	Friday	12:46 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
44	89399409	12/24/2021	Friday	9:20 AM	-	-	Vehicle	No	Rear End	0	0	$100	Daylight	Dry
45	89398960	8/26/2021	Thursday	3:44 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
46	89399071	9/24/2021	Friday	10:59 AM	-	-	Vehicle	No	Left Turn	0	0	$6,000	Daylight	Dry
47	89398964	8/29/2021	Sunday	12:58 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,050	Daylight	Dry
48	87740317	12/17/2019	Tuesday	7:41 PM	-	-	Vehicle	No	Angle	0	0	$5,000	Dark - Lighted	Wet
49	87740195	9/10/2019	Tuesday	4:48 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
50	87739842	12/11/2019	Wednesday	7:19 PM	-	-	Vehicle	No	Rear End	0	0	$1,800	Dark - Lighted	Dry
51	87739437	6/14/2019	Friday	1:41 PM	-	-	Vehicle	No	Left Turn	0	0	$10,000	Daylight	Dry
52	87738997	7/12/2019	Friday	1:04 PM	-	-	Vehicle	No	Rear End	0	2	$8,000	Daylight	Dry
53	24032300	8/25/2020	Tuesday	6:16 PM	-	-	Vehicle	No	Rear End	0	4	$3,000	Daylight	Wet
54	24032022	5/29/2020	Friday	12:10 PM	-	-	Vehicle	No	Rear End	0	0	$15,000	Daylight	Dry
55	89399215	11/4/2021	Thursday	7:15 AM	-	-	Bicycle	No	Bicycle	0	1	$500	Dark - Not Lighted	Dry
56	89399201	10/23/2021	Saturday	12:00 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
57	89398919	8/16/2021	Monday	6:12 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
58	89399108	10/3/2021	Sunday	1:25 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
59	87741065	2/14/2020	Friday	10:30 AM	-	-	Vehicle	No	Unknown	0	0	$1,000	Daylight	Dry
60	24033497	2/26/2021	Friday	2:13 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
61	89399330	12/2/2021	Thursday	1:40 PM	-	-	Vehicle	No	Other	0	0	$4,500	Daylight	Dry
62	87739202	6/22/2019	Saturday	7:24 AM	-	-	Vehicle	No	Left Turn	0	2	$7,000	Daylight	Dry
63	24033075	12/1/2020	Tuesday	8:48 AM	-	-	Vehicle	No	Rear End	0	0	$6,500	Daylight	Dry
64	89398486	4/8/2021	Thursday	9:10 AM	-	-	Vehicle	No	Rear End	0	1	$3,000	Daylight	Dry
65	87740516	12/17/2019	Tuesday	1:45 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
66	87740095	8/23/2019	Friday	6:41 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
67	87510399	7/6/2019	Saturday	10:50 PM	-	-	Vehicle	No	Angle	0	2	$9,500	Dark - Lighted	Wet
68	87739337	5/31/2019	Friday	11:32 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
69	24033052	11/25/2020	Wednesday	12:05 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
70	24032924	12/4/2020	Friday	6:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Dark - Lighted	Dry
71	24032427	10/14/2020	Wednesday	6:15 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
72	24032564	9/1/2020	Tuesday	2:07 PM	-	-	Vehicle	No	Rear End	0	2	$2,000	Daylight	Dry
73	24032517	8/16/2020	Sunday	11:59 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
74	24032559	2/19/2021	Friday	6:55 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Dark - Lighted	Wet
75	89398897	8/9/2021	Monday	8:30 AM	-	-	Vehicle	No	Rear End	0	0	$200	Daylight	Dry
76	87740782	4/1/2020	Wednesday	9:51 AM	-	-	Vehicle	No	Angle	0	1	$30,000	Daylight	Dry
77	89399075	9/24/2021	Friday	2:19 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
78	89399311	11/29/2021	Monday	5:13 PM	-	-	Vehicle	No	Angle	0	1	$3,500	Daylight	Dry
79	89399178	10/25/2021	Monday	12:58 PM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
80	87739946	7/30/2019	Tuesday	12:01 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
81	87739838	8/16/2019	Friday	11:47 AM	-	-	Vehicle	No	Rear End	0	1	$13,100	Daylight	Dry
82	89398528	4/28/2021	Wednesday	10:55 AM	-	-	Vehicle	No	Unknown	0	1	$4,000	Daylight	Dry
83	87739559	7/18/2019	Thursday	1:10 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
84	87510486	3/9/2019	Saturday	11:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Dark - Lighted	Dry
85	87739458	3/5/2019	Tuesday	2:06 PM	-	-	Vehicle	No	Rear End	0	0	$1,100	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue | **COUNTY: Volusia**

INTERSECTING ROUTE: Summer Trees Road to Williamson Boulevard | **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 | **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
86	87740632	7/18/2020	Saturday	7:40 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,200	Daylight	Dry
87	24032129	10/5/2020	Monday	3:53 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,550	Daylight	Dry
88	24032773	10/16/2020	Friday	9:39 AM	-	-	Vehicle	No	Left Turn	0	2	$15,000	Daylight	Dry
89	24032020	7/27/2020	Monday	3:14 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
90	89398680	6/5/2021	Saturday	9:20 AM	-	-	Vehicle	No	Left Turn	0	0	$2,000	Daylight	Dry
91	89398730	6/20/2021	Sunday	8:33 AM	-	-	Vehicle	No	Right Turn	0	0	$10,000	Daylight	Dry
92	89399014	9/12/2021	Sunday	1:39 PM	-	-	Vehicle	No	Other	0	0	$750	Daylight	Dry
93	89398909	8/13/2021	Friday	12:31 PM	-	-	Vehicle	No	Rear End	0	0	$16,000	Daylight	Wet
94	87741254	5/4/2020	Monday	3:11 PM	-	-	Vehicle	No	Angle	0	1	$8,000	Daylight	Dry
95	89398994	9/6/2021	Monday	2:50 PM	-	-	Vehicle	No	Rear End	0	1	$20,000	Daylight	Dry
96	87738583	3/3/2019	Sunday	11:39 AM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
97	87739317	3/4/2019	Monday	2:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
98	87739043	1/16/2019	Wednesday	8:31 AM	-	-	Vehicle	No	Sideswipe	0	1	$10,000	Daylight	Dry
99	87741231	3/11/2020	Wednesday	1:10 PM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
100	89399076	9/24/2021	Friday	9:37 PM	-	-	Vehicle	No	Rear End	0	2	$1,500	Dark - Not Lighted	Dry
101	89399380	12/16/2021	Thursday	12:23 PM	-	-	Vehicle	No	Right Turn	0	0	$9,500	Daylight	Dry
102	24033337	1/14/2021	Thursday	4:37 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry
103	87740248	9/28/2019	Saturday	5:40 PM	-	-	Vehicle	Yes	Rear End	0	0	$1,000	Daylight	Dry
104	89398568	5/8/2021	Saturday	4:16 PM	-	-	Vehicle	No	Sideswipe	0	1	$40,000	Daylight	Dry
105	89399019	9/13/2021	Monday	3:23 PM	-	-	Vehicle	No	Left Turn	0	1	$10,000	Daylight	Dry
Total										0	42	$559,701		

CRASH DESCRIPTION

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	TOTAL INJURIES	PROPERTY DAMAGE	PED/BIKE/ MOTORCYCLE		LIGHTING CONDITION					ROADWAY CONDITIONS	
							DAYLIGHT	DARK - LIGHTED	DARK - NOT LIGHTED	DUSK	DAWN	WET	DRY
105	0	31	42	105	0		88	14	2	1	0	9	96
	0%	30%	40%	100%	0%		84%	13%	2%	1%	0%	9%	91%

CRASH TYPE

ANGLE	LEFT TURN	RIGHT TURN	REAR END	SIDE SWIPE	HEAD ON
9	10	3	39	30	0
9%	10%	3%	37%	29%	0%

CRASH TYPE

BACKED INTO	PARKED CAR	COLL. W/ MV ON ROAD	PEDESTRIAN	BIKE	BIKE IN BIKE LANE	MOTORCYCLE/ MOPED	TRAIN	ANIMAL	HIT SIGN/ SIGN POST	HIT GUARDRAIL	HIT UTILITY POLE	HIT FENCE	HIT CONC BARRIER WALL
0	0	0	0	1	0	0	0	0	0	0	0	0	0
0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%

HIT BR/PIER/ ABUTT	HIT TREE/ SHRUB	HIT CONST SIGN/BARR/ BR/ PIER	TRAFFIC GATE	CRASH ATTENUATOR	FIXED OBJECT
0	0	0	0	0	0
0%	0%	0%	0%	0%	0%

CRASH TYPE

OTHER FIXED OBJECT	MOVEABLE OBJECT	RAN INTO DITCH/ CULVERT	RAN OFF ROAD	OVERTURNED	OCCUPANT FELL FROM VEHICLE	TRACTOR TRAILER JACKKNIFED	FIRE	EXPLOSION	DOWNHILL RUNAWAY	CARGO LOSS OR SHIFT	SEPARATION OF UNITS	MEDIAN CROSSOVER	ALL OTHER
0	0	0	0	1	0	0	0	0	0	0	0	0	12
0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	11%

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Williamson Boulevard to Taylor Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
1	87740131	10/24/2019	Thursday	8:15 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Dark - Lighted	Dry
2	87738779	9/14/2019	Saturday	5:18 PM	-	-	Vehicle	No	Angle	0	1	$7,000	Daylight	Wet
3	87740578	12/9/2019	Monday	3:30 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
4	87510660	4/1/2019	Monday	3:44 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,500	Daylight	Wet
5	87739036	5/23/2019	Thursday	12:00 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Daylight	Dry
6	89398695	6/8/2021	Tuesday	12:31 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
7	89398435	3/28/2021	Sunday	1:00 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
8	89399286	11/17/2021	Wednesday	12:14 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
9	89398429	3/25/2021	Thursday	7:51 AM	-	-	Vehicle	No	Other	0	1	$5,000	Daylight	Dry
10	87739068	1/10/2019	Thursday	10:40 AM	-	-	Vehicle	No	Other	0	0	$7,000	Daylight	Dry
11	87740540	11/12/2019	Tuesday	5:37 PM	-	-	Vehicle	No	Rear End	0	0	$10,000	Dusk	Dry
12	87739587	4/30/2019	Tuesday	11:04 AM	-	-	Vehicle	No	Rear End	0	0	$12,000	Daylight	Dry
13	87739471	3/9/2020	Monday	2:51 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
14	24032402	8/4/2020	Tuesday	7:17 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
15	87740838	1/28/2020	Tuesday	7:54 AM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
16	89399180	10/20/2021	Wednesday	5:49 PM	-	-	Vehicle	No	Rear End	0	1	$16,000	Daylight	Dry
17	89398587	5/14/2021	Friday	8:25 AM	-	-	Vehicle	No	Angle	0	1	$26,000	Daylight	Dry
18	89399041	9/16/2021	Thursday	9:30 PM	-	-	Vehicle	No	Rear End	0	1	$1,600	Dark - Lighted	Wet
19	89398734	6/12/2021	Saturday	9:51 PM	-	-	Vehicle	No	Off Road	0	1	$10,000	Dark - Lighted	Dry
20	87739301	2/21/2019	Thursday	2:57 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
21	87510485	3/4/2019	Monday	7:35 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Dark - Lighted	Dry
22	24032593	9/2/2020	Wednesday	7:28 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
23	24032292	8/28/2020	Friday	8:21 PM	-	-	Vehicle	No	Angle	0	0	$6,000	Dark - Lighted	Dry
24	89398530	4/28/2021	Wednesday	7:30 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
25	89398393	3/8/2021	Monday	12:16 PM	-	-	Vehicle	No	Other	0	0	$1,500	Daylight	Dry
26	89399375	12/15/2021	Wednesday	1:08 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
27	87739221	4/8/2019	Monday	8:35 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
28	87739828	8/28/2019	Wednesday	3:47 PM	-	-	Vehicle	No	Sideswipe	0	0	$251	Daylight	Dry
29	87739340	6/3/2019	Monday	11:10 AM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
30	87740940	1/10/2020	Friday	3:52 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
31	24033434	2/8/2021	Monday	10:07 AM	-	-	Vehicle	No	Left Turn	0	1	$21,000	Daylight	Dry
32	89399396	12/21/2021	Tuesday	1:29 PM	-	-	Vehicle	No	Rear End	0	0	$3,050	Daylight	Dry
33	89398721	6/17/2021	Thursday	3:25 PM	-	-	Vehicle	No	Sideswipe	0	0	$100	Daylight	Dry
34	89399066	9/23/2021	Thursday	4:30 PM	-	-	Vehicle	No	Unknown	0	0	$1,000	Daylight	Dry
35	89399195	10/31/2021	Sunday	3:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$700	Daylight	Dry
36	87738660	4/6/2019	Saturday	1:35 PM	-	-	Vehicle	No	Other	0	3	$8,000	Daylight	Dry
37	87739126	9/5/2019	Thursday	6:56 PM	-	-	Vehicle	No	Rear End	0	2	$500	Dusk	Dry
38	87740395	10/7/2019	Monday	10:27 AM	-	-	Vehicle	No	Off Road	0	0	$1,700	Daylight	Wet
39	87738876	8/12/2019	Monday	6:50 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
40	87740975	1/22/2020	Wednesday	10:38 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
41	89398841	7/24/2021	Saturday	7:15 PM	-	-	Vehicle	No	Rear End	0	1	$15,000	Daylight	Dry
42	89398392	3/9/2021	Tuesday	10:10 AM	-	-	Vehicle	No	Unknown	0	0	$2,500	Daylight	Dry
43	89399290	11/22/2021	Monday	11:35 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,500	Daylight	Wet
44	87740520	10/26/2019	Saturday	2:58 AM	-	-	Vehicle	No	Off Road	1	0	$15,000	Dark - Not Lighted	Dry
45	24307342	6/2/2021	Wednesday	1:32 PM	-	-	Vehicle	No	Rear End	0	0	$15,000	Daylight	Dry
46	87510382	8/11/2019	Sunday	7:47 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Dark - Lighted	Dry
47	24032446	10/9/2020	Friday	1:00 AM	-	-	Vehicle	No	Off Road	0	1	$10,000	Dark - Lighted	Dry
48	87741115	3/4/2020	Wednesday	1:13 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
49	24032229	6/25/2020	Thursday	2:06 PM	-	-	Vehicle	No	Sideswipe	0	0	$600	Daylight	Dry
50	24032398	7/22/2020	Wednesday	4:36 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
51	87741403	6/6/2020	Saturday	11:54 AM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Wet
52	24032337	7/24/2020	Friday	12:37 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,100	Daylight	Dry
53	87739809	5/21/2019	Tuesday	7:24 PM	-	-	Vehicle	No	Angle	0	0	$17,000	Daylight	Dry
54	87740251	12/28/2019	Saturday	5:50 PM	-	-	Vehicle	No	Left Turn	0	2	$20,000	Dark - Lighted	Dry
55	87739112	7/18/2019	Thursday	4:35 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
56	87510484	1/31/2019	Thursday	5:30 AM	-	-	Vehicle	No	Rear End	0	1	$750	Dark - Lighted	Dry
57	87740012	10/12/2019	Saturday	9:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$700	Dark - Lighted	Dry
58	24032077	7/31/2020	Friday	3:02 PM	-	-	Vehicle	No	Right Turn	0	0	$6,000	Daylight	Dry
59	89398574	5/6/2021	Thursday	1:55 PM	-	-	Vehicle	No	Rollover	0	0	$11,000	Daylight	Wet
60	24032066	10/5/2020	Monday	1:57 PM	-	-	Vehicle	No	Left Turn	0	1	$18,000	Daylight	Dry
61	24032133	10/12/2020	Monday	1:00 PM	-	-	Vehicle	No	Rear End	0	2	$1,500	Daylight	Dry
62	24033284	1/8/2021	Friday	4:08 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
63	24033072	1/15/2021	Friday	8:20 PM	-	-	Vehicle	No	Rear End	0	3	$3,300	Dark - Lighted	Wet
64	89398750	6/19/2021	Saturday	8:34 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Dark - Not Lighted	Dry
65	89398775	6/25/2021	Friday	9:03 PM	-	-	Vehicle	No	Off Road	0	0	$8,000	Dark - Lighted	Wet
66	24032179	8/30/2020	Sunday	2:43 PM	-	-	Vehicle	No	Rear End	0	4	$15,500	Daylight	Wet
67	89399153	10/15/2021	Friday	10:35 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Dark - Lighted	Dry
68	87510648	4/26/2019	Friday	9:16 PM	-	-	Vehicle	No	Sideswipe	0	0	$800	Dark - Lighted	Dry
69	87740241	11/26/2019	Tuesday	6:02 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,750	Dusk	Dry
70	87739496	9/10/2019	Tuesday	6:00 AM	-	-	Vehicle	No	Angle	0	1	$4,000	Dark - Lighted	Dry
71	24033015	12/9/2020	Wednesday	12:36 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
72	89399283	11/19/2021	Friday	3:30 PM	-	-	Vehicle	No	Rear End	0	2	$1,000	Daylight	Dry
73	89399423	12/27/2021	Monday	10:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$600	Dark - Lighted	Dry
74	89398405	3/15/2021	Monday	1:25 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
75	89399095	10/1/2021	Friday	12:46 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
76	89399409	12/24/2021	Friday	9:20 AM	-	-	Vehicle	No	Rear End	0	0	$100	Daylight	Dry
77	89398960	8/26/2021	Thursday	3:44 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
78	87740745	12/26/2019	Thursday	2:54 PM	-	-	Vehicle	No	Angle	0	0	$7,000	Daylight	Dry
79	87739204	7/7/2019	Sunday	5:09 PM	-	-	Vehicle	No	Rear End	0	2	$2	Daylight	Wet
80	87740086	12/15/2019	Sunday	9:41 AM	-	-	Vehicle	No	Angle	0	0	$3,500	Daylight	Dry
81	87741208	5/8/2020	Friday	1:43 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
82	24032242	10/30/2020	Friday	7:24 PM	-	-	Vehicle	No	Sideswipe	0	1	$5,500	Dark - Not Lighted	Dry
83	87741099	2/11/2020	Tuesday	1:45 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
84	87741044	2/12/2020	Wednesday	8:26 AM	-	-	Vehicle	No	Rear End	0	2	$2,500	Daylight	Dry
85	89399088	9/30/2021	Thursday	11:55 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
86	89398816	7/19/2021	Monday	5:50 PM	-	-	Vehicle	No	Angle	0	2	$10,000	Daylight	Wet
87	89399006	9/9/2021	Thursday	8:30 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Dark - Lighted	Dry
88	24032451	2/15/2021	Monday	7:10 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Dark - Lighted	Dry
89	89399072	9/24/2021	Friday	12:02 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
90	89399225	11/5/2021	Friday	1:14 PM	-	-	Vehicle	No	Rear End	0	0	$1,250	Daylight	Wet
91	89398712	6/15/2021	Tuesday	3:05 PM	-	-	Vehicle	No	Off Road	0	0	$10,850	Daylight	Dry
92	87739797	9/26/2019	Thursday	5:00 PM	-	-	Vehicle	No	Rear End	0	1	$6,500	Daylight	Dry
93	87739363	3/19/2019	Tuesday	11:56 AM	-	-	Vehicle	No	Rear End	0	0	$6,500	Daylight	Wet
94	87740793	5/13/2020	Wednesday	6:52 AM	-	-	Vehicle	No	Left Turn	0	0	$10,000	Daylight	Dry
95	89399224	11/5/2021	Friday	12:44 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
96	87740317	12/17/2019	Tuesday	7:41 PM	-	-	Vehicle	No	Angle	0	0	$5,000	Dark - Lighted	Wet
97	87740195	9/10/2019	Tuesday	4:48 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
98	87739842	12/11/2019	Wednesday	7:19 PM	-	-	Vehicle	No	Rear End	0	0	$1,800	Dark - Lighted	Dry
99	87739437	6/14/2019	Friday	1:41 PM	-	-	Vehicle	No	Left Turn	0	0	$10,000	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Williamson Boulevard to Taylor Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
100	87738997	7/12/2019	Friday	1:04 PM	-	-	Vehicle	No	Rear End	0	2	$8,000	Daylight	Dry
101	24032300	8/25/2020	Tuesday	6:16 PM	-	-	Vehicle	No	Rear End	0	4	$3,000	Daylight	Wet
102	24032022	5/29/2020	Friday	12:10 PM	-	-	Vehicle	No	Rear End	0	0	$15,000	Daylight	Dry
103	89399215	11/4/2021	Thursday	7:15 AM	-	-	Bicycle	No	Bicycle	0	1	$500	Dark - Not Lighted	Dry
104	89399201	10/23/2021	Saturday	12:00 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
105	89398919	8/16/2021	Monday	6:12 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
106	89399108	10/3/2021	Sunday	1:25 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
107	87739205	8/12/2019	Monday	8:26 PM	-	-	Vehicle	No	Left Turn	0	2	$7,000	Dark - Lighted	Dry
108	87740906	1/15/2020	Wednesday	1:21 PM	-	-	Vehicle	No	Other	0	0	$200	Daylight	Dry
109	89398926	8/18/2021	Wednesday	6:42 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
110	87741248	5/19/2020	Tuesday	11:36 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,550	Daylight	Dry
111	89399216	11/3/2021	Wednesday	4:40 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
112	89398563	5/7/2021	Friday	4:58 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
113	89399234	11/3/2021	Wednesday	4:25 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
114	89399037	9/8/2021	Wednesday	11:30 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
115	87741086	2/25/2020	Tuesday	9:09 AM	-	-	Vehicle	No	Unknown	0	0	$6,000	Daylight	Dry
116	87741068	4/6/2020	Monday	9:03 AM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
117	87740561	10/30/2019	Wednesday	7:48 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
118	24033244	1/11/2021	Monday	8:58 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
119	24033346	1/15/2021	Friday	6:45 PM	-	-	Vehicle	No	Rear End	0	1	$16,000	Dark - Lighted	Wet
120	89398963	8/28/2021	Saturday	7:26 AM	-	-	Vehicle	No	Left Turn	0	1	$30,000	Daylight	Dry
121	87740516	12/17/2019	Tuesday	1:45 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
122	87740095	8/23/2019	Friday	6:41 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
123	87510399	7/6/2019	Saturday	10:50 PM	-	-	Vehicle	No	Angle	0	2	$9,500	Dark - Lighted	Wet
124	87739337	5/31/2019	Friday	11:32 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
125	24033052	11/25/2020	Wednesday	12:05 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
126	24032924	12/4/2020	Friday	6:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Dark - Lighted	Dry
127	24032427	10/14/2020	Wednesday	6:15 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
128	24032564	9/1/2020	Tuesday	2:07 PM	-	-	Vehicle	No	Rear End	0	2	$2,000	Daylight	Dry
129	24032517	8/16/2020	Sunday	11:59 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
130	24032559	2/19/2021	Friday	6:55 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Dark - Lighted	Wet
131	89398897	8/9/2021	Monday	8:30 AM	-	-	Vehicle	No	Rear End	0	0	$200	Daylight	Dry
132	89398406	3/16/2021	Tuesday	8:50 AM	-	-	Vehicle	No	Rear End	0	1	$4,000	Daylight	Dry
133	89398997	9/2/2021	Thursday	3:16 PM	-	-	Vehicle	No	Rear End	0	4	$22,000	Daylight	Dry
134	87740166	12/25/2019	Wednesday	11:31 PM	-	-	Vehicle	No	Sideswipe	0	0	$9,000	Dark - Lighted	Wet
135	89398956	8/25/2021	Wednesday	12:00 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
136	24033023	1/21/2021	Thursday	6:14 PM	-	-	Vehicle	No	Rear End	0	1	$1,100	Dark - Lighted	Dry
137	89399394	12/12/2021	Sunday	2:57 PM	-	-	Vehicle	No	Rear End	0	1	$17,000	Daylight	Dry
138	87739704	6/24/2019	Monday	4:41 PM	-	-	Vehicle	No	Rear End	0	0	$501	Daylight	Dry
139	24032556	11/24/2020	Tuesday	10:33 AM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
140	87741339	4/30/2020	Thursday	5:03 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
141	24033293	1/15/2021	Friday	1:12 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
142	89399400	12/23/2021	Thursday	1:45 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
143	87739559	7/18/2019	Thursday	1:10 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
144	87510486	3/9/2019	Saturday	11:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Dark - Lighted	Dry
145	87739458	3/5/2019	Tuesday	2:06 PM	-	-	Vehicle	No	Rear End	0	0	$1,100	Daylight	Dry
146	87740632	7/18/2020	Saturday	7:40 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,200	Daylight	Dry
147	24032129	10/5/2020	Monday	3:53 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,550	Daylight	Dry
148	24032773	10/16/2020	Friday	9:39 AM	-	-	Vehicle	No	Left Turn	0	2	$15,000	Daylight	Dry
149	24032020	7/27/2020	Monday	3:14 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
150	89398680	6/5/2021	Saturday	9:20 AM	-	-	Vehicle	No	Left Turn	0	0	$2,000	Daylight	Dry
151	89398730	6/20/2021	Sunday	8:33 AM	-	-	Vehicle	No	Right Turn	0	0	$10,000	Daylight	Dry
152	89399014	9/12/2021	Sunday	1:39 PM	-	-	Vehicle	No	Other	0	0	$750	Daylight	Dry
153	89398909	8/13/2021	Friday	12:31 PM	-	-	Vehicle	No	Rear End	0	0	$16,000	Daylight	Wet
154	87739311	3/5/2019	Tuesday	8:23 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
155	24032139	6/5/2020	Friday	11:08 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Dark - Not Lighted	Wet
156	87740894	1/23/2020	Thursday	4:23 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
157	89399249	11/11/2021	Thursday	6:08 PM	-	-	Vehicle	No	Other	0	0	$3,500	Dark - Lighted	Dry
158	89398722	6/18/2021	Friday	9:57 AM	-	-	Vehicle	No	Left Turn	0	0	$10,000	Daylight	Dry
159	89398495	4/15/2021	Thursday	8:30 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
160	87740064	10/23/2019	Wednesday	10:00 PM	-	-	Vehicle	No	Left Turn	0	0	$26,000	Dark - Lighted	Dry
161	89398657	5/28/2021	Friday	3:00 PM	-	-	Vehicle	No	Rear End	0	0	$9,000	Daylight	Dry
162	89399131	10/11/2021	Monday	6:05 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
163	24033021	11/22/2020	Sunday	5:10 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Dawn	Wet
164	89398761	6/28/2021	Monday	4:48 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
165	89398866	7/29/2021	Thursday	11:15 PM	-	-	Vehicle	No	Left Turn	0	1	$8,000	Dark - Lighted	Dry
166	87738583	3/3/2019	Sunday	11:39 AM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
167	87739317	3/4/2019	Monday	2:52 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
168	87739043	1/16/2019	Wednesday	8:31 AM	-	-	Vehicle	No	Sideswipe	0	1	$10,000	Daylight	Dry
169	87741231	3/11/2020	Wednesday	1:10 PM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
170	89399076	9/24/2021	Friday	9:37 PM	-	-	Vehicle	No	Rear End	0	2	$1,500	Dark - Not Lighted	Dry
171	89399380	12/16/2021	Thursday	12:23 PM	-	-	Vehicle	No	Right Turn	0	0	$9,500	Daylight	Dry
172	24033337	1/14/2021	Thursday	4:37 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Williamson Boulevard to Taylor Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
173	87739380	3/26/2019	Tuesday	7:30 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
174	87510566	2/15/2019	Friday	4:55 PM	-	-	Vehicle	No	Rear End	0	1	$2	Daylight	Dry
175	87739039	6/30/2019	Sunday	12:52 PM	-	-	Vehicle	No	Other	0	1	$500	Unknown	Unknown
176	87739770	5/7/2019	Tuesday	11:56 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
177	24033003	12/26/2020	Saturday	3:57 PM	-	-	Vehicle	No	Other	0	0	$5,500	Daylight	Dry
178	87741043	2/24/2020	Monday	3:45 PM	-	-	Vehicle	No	Angle	0	0	$4,000	Daylight	Dry
179	24032215	12/7/2020	Monday	8:55 AM	-	-	Vehicle	No	Rear End	0	1	$4,500	Daylight	Wet
180	89398688	6/7/2021	Monday	2:54 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
181	24033230	1/11/2021	Monday	7:35 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
182	24033280	3/16/2021	Tuesday	9:05 PM	-	-	Vehicle	No	Off Road	0	0	$3,000	Dark - Lighted	Dry
183	87739824	8/27/2019	Tuesday	3:06 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,550	Daylight	Dry
184	89399433	12/30/2021	Thursday	2:20 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
185	89399398	12/22/2021	Wednesday	3:44 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
186	89398765	6/30/2021	Wednesday	8:37 AM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
187	87739320	3/11/2019	Monday	8:46 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
188	87739781	6/28/2019	Friday	10:21 AM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
189	87739795	5/9/2019	Thursday	3:33 AM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
190	24032728	9/30/2020	Wednesday	4:47 PM	-	-	Vehicle	No	Rear End	0	1	$8,000	Daylight	Dry
191	87741229	5/4/2020	Monday	4:34 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
192	89398706	6/12/2021	Saturday	10:28 AM	-	-	Vehicle	No	Left Turn	0	3	$10,000	Daylight	Dry
193	24032980	1/19/2021	Tuesday	8:53 AM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
194	87740400	10/20/2019	Sunday	1:28 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
195	89398809	7/18/2021	Sunday	3:20 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
196	89398844	7/25/2021	Sunday	6:08 AM	-	-	Vehicle	No	Off Road	0	0	$19,000	Dawn	Dry
Total										1	83	$1,038,906		

CRASH DESCRIPTION														CRASH TYPE					
TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	TOTAL INJURIES	PROPERTY DAMAGE	PED/BIKE/ MOTORCYCLE		LIGHTING CONDITION					ROADWAY CONDITIONS		ANGLE	LEFT TURN	RIGHT TURN	REAR END	SIDE SWIPE	HEAD ON
							DAYLIGHT	DARK - LIGHTED	DARK - NOT LIGHTED	DUSK	DAWN	WET	DRY						
196	1	55	83	196	1		152	32	6	3	2	25	170	11	14	3	92	49	0
	1%	28%	42%	100%	1%		78%	16%	3%	2%	1%	13%	87%	6%	7%	2%	47%	25%	0%

CRASH TYPE																			
BACKED INTO	PARKED CAR	COLL. W/ MV ON ROAD	PEDESTRIAN	BIKE	BIKE IN BIKE LANE	MOTORCYCLE/ MOPED	TRAIN	ANIMAL	HIT SIGN/ SIGN POST	HIT GUARDRAIL	HIT UTILITY POLE	HIT FENCE	HIT CONC BARRIER WALL	HIT BR/PIER/ ABUTT	HIT TREE/ SHRUB	HIT CONST SIGN/BARR/ BR/ PIER	TRAFFIC GATE	CRASH ATTENUATOR	FIXED OBJECT
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CRASH TYPE													
OTHER FIXED OBJECT	MOVEABLE OBJECT	RAN INTO DITCH/ CULVERT	RAN OFF ROAD	OVERTURNED	OCCUPANT FELL FROM VEHICLE	TRACTOR TRAILER JACKKNIFED	FIRE	EXPLOSION	DOWNHILL RUNAWAY	CARGO LOSS OR SHIFT	SEPARATION OF UNITS	MEDIAN CROSSOVER	ALL OTHER
0	0	0	8	1	0	0	0	0	0	0	0	0	17
0%	0%	0%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	9%

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Taylor Road to Clyde Morris Boulevard **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
1	87739349	2/22/2019	Friday	1:58 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
2	87740107	10/11/2019	Friday	12:07 PM	-	-	Vehicle	No	Rear End	0	0	$200	Daylight	Dry
3	87740548	10/30/2019	Wednesday	7:22 AM	-	-	Vehicle	No	Left Turn	0	0	$14,000	Daylight	Dry
4	87740173	8/27/2019	Tuesday	12:03 PM	-	-	Vehicle	No	Sideswipe	0	0	$7,500	Daylight	Dry
5	87740243	12/4/2019	Wednesday	7:03 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Dusk	Dry
6	24032834	11/2/2020	Monday	2:50 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
7	24032276	6/20/2020	Saturday	12:52 PM	-	-	Vehicle	No	Rear End	0	4	$20,000	Daylight	Dry
8	24032849	11/1/2020	Sunday	11:58 AM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
9	89398586	5/14/2021	Friday	8:23 AM	-	-	Vehicle	No	Angle	0	1	$7,000	Daylight	Dry
10	88227985	5/4/2021	Tuesday	11:22 AM	-	-	Vehicle	No	Left Turn	0	2	$35,000	Daylight	Dry
11	89399418	12/27/2021	Monday	1:15 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
12	89398798	7/9/2021	Friday	4:15 PM	-	-	Vehicle	No	Rear End	0	0	$8,000	Daylight	Dry
13	24032698	2/11/2021	Thursday	9:12 PM	-	-	Vehicle	No	Other	0	0	$100	Dark - Lighted	Dry
14	87739825	8/28/2019	Wednesday	9:04 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
15	24032903	11/28/2020	Saturday	1:55 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,000	Daylight	Dry
16	24032295	9/4/2020	Friday	3:42 PM	-	-	Vehicle	No	Angle	0	0	$10,000	Daylight	Dry
17	24032531	12/19/2020	Saturday	1:40 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
18	24033169	12/22/2020	Tuesday	2:07 PM	-	-	Vehicle	No	Rear End	0	2	$2,000	Daylight	Dry
19	24032418	7/29/2020	Wednesday	12:18 PM	-	-	Vehicle	No	Rear End	0	1	$20,500	Daylight	Dry
20	89399347	12/8/2021	Wednesday	4:33 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry
21	89399064	9/23/2021	Thursday	7:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Dusk	Dry
22	89399209	11/2/2021	Tuesday	4:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
23	87739068	1/10/2019	Thursday	10:40 AM	-	-	Vehicle	No	Other	0	0	$7,000	Daylight	Dry
24	87740540	11/12/2019	Tuesday	5:37 PM	-	-	Vehicle	No	Rear End	0	0	$10,000	Dusk	Dry
25	87739587	4/30/2019	Tuesday	11:04 AM	-	-	Vehicle	No	Rear End	0	0	$12,000	Daylight	Dry
26	87739471	3/9/2020	Monday	2:51 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
27	24032402	8/4/2020	Tuesday	7:17 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
28	87740838	1/28/2020	Tuesday	7:54 AM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
29	89399180	10/20/2021	Wednesday	5:49 PM	-	-	Vehicle	No	Rear End	0	1	$16,000	Daylight	Dry
30	87738449	2/16/2019	Saturday	9:55 AM	-	-	Vehicle	No	Left Turn	0	1	$7,000	Daylight	Dry
31	87738844	1/17/2019	Thursday	5:26 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,400	Dusk	Dry
32	24032290	12/11/2020	Friday	12:32 PM	-	-	Vehicle	No	Left Turn	0	0	$12,000	Daylight	Dry
33	89399412	12/22/2021	Wednesday	4:09 PM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
34	89398823	7/16/2021	Friday	5:35 PM	-	-	Vehicle	No	Unknown	0	0	$7,000	Daylight	Dry
35	89399337	12/6/2021	Monday	5:45 PM	-	-	Vehicle	No	Rear End	0	0	$6,500	Dark - Lighted	Dry
36	89399038	9/5/2021	Sunday	4:04 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
37	89399020	9/8/2021	Wednesday	9:07 AM	-	-	Vehicle	No	Off Road	0	1	$13,000	Daylight	Dry
38	89398522	4/27/2021	Tuesday	1:42 PM	-	-	Vehicle	No	Angle	0	2	$9,000	Daylight	Dry
39	89398945	8/20/2021	Friday	2:17 PM	-	-	Vehicle	No	Other	0	0	$10,250	Daylight	Dry
40	89399340	12/6/2021	Monday	11:41 AM	-	-	Vehicle	No	Other	0	0	$0	Daylight	Dry
41	89399196	11/1/2021	Monday	5:00 PM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
42	87510377	8/6/2019	Tuesday	7:23 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Dusk	Wet
43	24032712	2/24/2021	Wednesday	1:21 PM	-	-	Vehicle	No	Other	0	0	$10,000	Daylight	Dry
44	24032933	2/13/2021	Saturday	11:20 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Dark - Not Lighted	Wet
45	89399282	11/19/2021	Friday	10:38 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
46	87739485	5/1/2019	Wednesday	5:30 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
47	87739623	4/20/2019	Saturday	4:45 PM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
48	87738420	2/23/2019	Saturday	8:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,900	Daylight	Dry
49	87739371	6/6/2019	Thursday	5:50 PM	-	-	Vehicle	No	Unknown	0	0	$6,500	Daylight	Dry
50	24032054	7/2/2020	Thursday	9:19 PM	-	-	Vehicle	No	Other	0	0	$1,000	Dark - Lighted	Dry
51	87740692	1/12/2020	Sunday	9:52 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
52	24032948	11/17/2020	Tuesday	3:48 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
53	87740921	4/24/2020	Friday	2:05 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Wet
54	24033137	12/14/2020	Monday	4:29 PM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
55	24032381	8/15/2020	Saturday	3:59 PM	-	-	Vehicle	No	Off Road	0	0	$300	Daylight	Wet
56	89399159	10/17/2021	Sunday	8:55 PM	-	-	Vehicle	No	Angle	0	0	$1,000	Dark - Lighted	Dry
57	24032653	2/24/2021	Wednesday	5:04 AM	-	-	Vehicle	No	Rear End	0	2	$4,000	Dark - Lighted	Dry
58	89399372	1/12/2021	Tuesday	9:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
59	87738660	4/6/2019	Saturday	1:35 PM	-	-	Vehicle	No	Other	0	3	$8,000	Daylight	Dry
60	87739126	9/5/2019	Thursday	6:56 PM	-	-	Vehicle	No	Rear End	0	2	$500	Dusk	Dry
61	87740395	10/7/2019	Monday	10:27 AM	-	-	Vehicle	No	Off Road	0	0	$1,700	Daylight	Wet
62	87738876	8/12/2019	Monday	6:50 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
63	87740975	1/22/2020	Wednesday	10:38 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
64	89398841	7/24/2021	Saturday	7:15 PM	-	-	Vehicle	No	Rear End	0	1	$15,000	Daylight	Dry
65	89398392	3/9/2021	Tuesday	10:10 AM	-	-	Vehicle	No	Unknown	0	0	$2,500	Daylight	Dry
66	87740800	11/25/2019	Monday	8:37 PM	-	-	Vehicle	No	Other	0	0	$200	Dark - Lighted	Dry
67	89399366	12/14/2021	Tuesday	3:55 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
68	89399199	10/28/2021	Thursday	7:24 PM	-	-	Vehicle	No	Head On	0	0	$10,000	Dark - Not Lighted	Wet
69	89399298	11/24/2021	Wednesday	11:56 AM	-	-	Vehicle	No	Rear End	0	0	$3,200	Daylight	Dry
70	89398503	4/16/2021	Friday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
71	89398898	8/10/2021	Tuesday	1:06 PM	-	-	Vehicle	No	Left Turn	0	0	$500	Daylight	Dry
72	89399070	9/24/2021	Friday	12:21 PM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
73	89398822	7/16/2021	Friday	3:17 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
74	89398920	8/17/2021	Tuesday	7:22 AM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
75	89398865	7/29/2021	Thursday	11:48 PM	-	-	Vehicle	Yes	Rear End	0	0	$50	Dark - Lighted	Dry
76	89399425	12/28/2021	Tuesday	12:25 PM	-	-	Vehicle	No	Sideswipe	0	1	$4,000	Daylight	Dry
77	24032051	5/30/2020	Saturday	2:56 PM	-	-	Vehicle	No	Head On	0	1	$6,000	Daylight	Wet
78	89399192	10/29/2021	Friday	11:31 AM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
79	89399074	9/24/2021	Friday	2:10 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
80	24033506	2/26/2021	Friday	3:47 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
81	89398661	6/1/2021	Tuesday	8:13 PM	-	-	Vehicle	No	Rear End	0	1	$200	Dusk	Dry
82	87739866	7/15/2019	Monday	3:36 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
83	87739032	3/25/2019	Monday	4:00 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
84	87739308	2/14/2019	Thursday	3:32 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
85	87741313	5/20/2020	Wednesday	10:38 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
86	24032941	11/10/2020	Tuesday	1:00 PM	-	-	Vehicle	No	Rear End	0	1	$7,000	Daylight	Wet
87	24033035	11/18/2020	Wednesday	12:00 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
88	24033463	2/11/2021	Thursday	4:35 PM	-	-	Vehicle	No	Rear End	0	1	$10,500	Daylight	Dry
89	89399013	9/11/2021	Saturday	2:57 PM	-	-	Vehicle	No	Off Road	0	1	$2,000	Daylight	Dry
90	24032066	10/5/2020	Monday	1:57 PM	-	-	Vehicle	No	Left Turn	0	1	$18,000	Daylight	Dry
91	24032133	10/12/2020	Monday	1:00 PM	-	-	Vehicle	No	Rear End	0	2	$1,500	Daylight	Dry
92	24033284	1/8/2021	Friday	4:08 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
93	87739070	8/24/2019	Saturday	4:50 PM	-	-	Vehicle	No	Other	0	0	$1,500	Daylight	Dry
94	24032223	8/25/2020	Tuesday	12:02 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
95	89398895	8/9/2021	Monday	9:37 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,100	Daylight	Dry
96	89398815	7/19/2021	Monday	5:37 PM	-	-	Vehicle	No	Rear End	0	0	$7,500	Daylight	Wet
97	89399262	11/15/2021	Monday	6:28 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Dark - Lighted	Dry
98	89399363	12/13/2021	Monday	8:04 AM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
99	89399016	9/13/2021	Monday	1:03 PM	-	-	Vehicle	No	Other	0	0	$300	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Taylor Road to Clyde Morris Boulevard **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
100	89398748	6/24/2021	Thursday	12:50 PM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
101	89398497	4/15/2021	Thursday	11:52 AM	-	-	Vehicle	No	Left Turn	0	0	$5,050	Daylight	Dry
102	89398929	8/18/2021	Wednesday	1:07 PM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
103	89399188	10/28/2021	Thursday	10:49 AM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Wet
104	89398958	8/26/2021	Thursday	12:40 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
105	89398419	3/22/2021	Monday	2:00 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
106	89399185	10/18/2021	Monday	12:15 PM	-	-	Vehicle	No	Angle	0	0	$2,501	Daylight	Dry
107	89399255	11/11/2021	Thursday	4:30 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
108	89399350	12/10/2021	Friday	1:20 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
109	87739567	5/6/2019	Monday	1:46 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Daylight	Dry
110	87739925	7/4/2019	Thursday	1:50 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
111	87740956	1/30/2020	Thursday	3:36 PM	-	-	Vehicle	No	Rear End	0	1	$2,250	Daylight	Dry
112	87740610	2/2/2020	Sunday	4:59 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
113	24032913	11/11/2020	Wednesday	6:14 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dusk	Wet
114	89398648	5/29/2021	Saturday	3:05 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
115	24033055	2/24/2021	Wednesday	6:20 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
116	24033026	2/15/2021	Monday	6:59 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Dark - Lighted	Wet
117	89399405	12/23/2021	Thursday	3:54 PM	-	-	Vehicle	No	Rear End	0	0	$8,500	Daylight	Dry
118	87740745	12/26/2019	Thursday	2:54 PM	-	-	Vehicle	No	Angle	0	0	$7,000	Daylight	Dry
119	87739204	7/7/2019	Sunday	5:09 PM	-	-	Vehicle	No	Rear End	0	2	$2	Daylight	Wet
120	87740086	12/15/2019	Sunday	9:41 AM	-	-	Vehicle	No	Angle	0	0	$3,500	Daylight	Dry
121	87741208	5/8/2020	Friday	1:43 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
122	24032242	10/30/2020	Friday	7:24 PM	-	-	Vehicle	No	Sideswipe	0	1	$5,500	Dark - Not Lighted	Dry
123	87741099	2/11/2020	Tuesday	1:45 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
124	87741044	2/12/2020	Wednesday	8:26 AM	-	-	Vehicle	No	Rear End	0	2	$2,500	Daylight	Dry
125	89399088	9/30/2021	Thursday	11:55 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
126	89398816	7/19/2021	Monday	5:50 PM	-	-	Vehicle	No	Angle	0	2	$10,000	Daylight	Wet
127	89399006	9/9/2021	Thursday	8:30 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Dark - Lighted	Dry
128	24032451	2/15/2021	Monday	7:10 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Dark - Lighted	Dry
129	87740102	12/7/2019	Saturday	1:57 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
130	87738685	2/24/2019	Sunday	10:17 AM	-	-	Vehicle	No	Other	0	0	$5,500	Daylight	Dry
131	87739711	5/3/2019	Friday	3:19 PM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
132	87738701	3/14/2019	Thursday	11:57 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
133	87739483	3/21/2019	Thursday	8:58 AM	-	-	Vehicle	No	Off Road	0	0	$1,000	Daylight	Dry
134	89398403	3/15/2021	Monday	10:24 AM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
135	89398893	8/9/2021	Monday	9:37 AM	-	-	Vehicle	No	Rear End	0	0	$800	Daylight	Dry
136	89398986	8/30/2021	Monday	5:03 PM	-	-	Vehicle	No	Sideswipe	0	1	$26,000	Daylight	Dry
137	24032616	2/27/2021	Saturday	7:10 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Dawn	Dry
138	89398966	8/30/2021	Monday	2:51 PM	-	-	Vehicle	No	Angle	0	0	$3,500	Daylight	Dry
139	89399236	10/31/2021	Sunday	2:15 PM	-	-	Bicycle	No	Pedestrian	0	1	$0	Daylight	Dry
140	24032828	2/27/2021	Saturday	3:44 PM	-	-	Vehicle	No	Rear End	0	0	$2	Daylight	Other
141	87739846	7/11/2019	Thursday	2:34 PM	-	-	Vehicle	No	Rear End	0	0	$100	Daylight	Dry
142	24032058	9/19/2020	Saturday	12:38 PM	-	-	Vehicle	Yes	Other	0	0	$1,300	Daylight	Wet
143	89399031	9/16/2021	Thursday	8:20 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
144	89398930	8/19/2021	Thursday	7:46 AM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
145	24032655	9/16/2020	Wednesday	5:00 PM	-	-	Vehicle	No	Angle	0	0	$5,000	Daylight	Wet
146	87741173	5/26/2020	Tuesday	1:44 PM	-	-	Vehicle	No	Off Road	0	0	$11,000	Daylight	Wet
147	87739379	2/26/2019	Tuesday	2:06 PM	-	-	Vehicle	No	Left Turn	0	0	$6,000	Daylight	Dry
148	87738846	4/25/2019	Thursday	11:52 AM	-	-	Vehicle	No	Rear End	0	0	$2,200	Daylight	Dry
149	87740288	10/1/2019	Tuesday	10:42 AM	-	-	Vehicle	No	Rear End	0	1	$400	Daylight	Dry
150	87739773	6/24/2019	Monday	1:49 PM	-	-	Vehicle	No	Rear End	0	0	$900	Daylight	Dry
151	87740611	11/5/2019	Tuesday	4:25 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Wet
152	87741188	3/5/2020	Thursday	12:33 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
153	87740954	1/14/2020	Tuesday	4:06 PM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
154	24032845	3/15/2021	Monday	7:57 PM	-	-	Vehicle	No	Right Turn	0	0	$1,100	Dark - Lighted	Dry
155	89399223	11/2/2021	Tuesday	5:03 PM	-	-	Vehicle	No	Rear End	0	0	$750	Daylight	Dry
156	87739205	8/12/2019	Monday	8:26 PM	-	-	Vehicle	No	Left Turn	0	2	$7,000	Dark - Lighted	Dry
157	87740906	1/15/2020	Wednesday	1:21 PM	-	-	Vehicle	No	Other	0	0	$200	Daylight	Dry
158	89398926	8/18/2021	Wednesday	6:42 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
159	87740098	10/25/2019	Friday	11:57 AM	-	-	Vehicle	No	Rear End	0	0	$2,600	Daylight	Dry
160	87510572	2/25/2019	Monday	1:39 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
161	87738843	1/17/2019	Thursday	1:35 PM	-	-	Vehicle	No	Rear End	0	1	$5,500	Daylight	Dry
162	87740129	10/19/2019	Saturday	5:21 PM	-	-	Vehicle	No	Other	0	0	$10,000	Daylight	Dry
163	87740171	8/21/2019	Wednesday	12:06 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
164	87739071	2/24/2019	Sunday	9:43 AM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
165	24032207	6/14/2020	Sunday	10:00 AM	-	-	Vehicle	No	Head On	0	0	$2,000	Daylight	Dry
166	24032530	12/16/2020	Wednesday	4:58 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,500	Dark - Lighted	Wet
167	24033078	12/3/2020	Thursday	1:31 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
168	24032083	6/1/2020	Monday	2:30 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
169	87740499	1/18/2020	Saturday	4:38 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
170	24032053	6/14/2020	Sunday	7:47 PM	-	-	Vehicle	No	Head On	0	0	$6,000	Daylight	Dry
171	89398595	5/17/2021	Monday	11:48 AM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
172	89399243	11/9/2021	Tuesday	12:50 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
173	89398896	8/9/2021	Monday	12:46 PM	-	-	Vehicle	No	Left Turn	0	0	$1,500	Daylight	Dry
174	89398430	3/26/2021	Friday	10:06 AM	-	-	Vehicle	No	Right Turn	0	0	$5,000	Daylight	Dry
175	89398832	7/21/2021	Wednesday	5:46 PM	-	-	Vehicle	No	Rear End	0	0	$9,000	Daylight	Dry
176	89399364	12/13/2021	Monday	12:18 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
177	89398773	7/3/2021	Saturday	9:30 AM	-	-	Vehicle	No	Angle	0	0	$1,000	Daylight	Wet
178	89398791	7/12/2021	Monday	2:15 PM	-	-	Vehicle	No	Other	0	0	$4,500	Daylight	Dry
179	89398552	4/30/2021	Friday	11:13 AM	-	-	Vehicle	No	Unknown	0	0	$6,000	Daylight	Dry
180	89398794	7/9/2021	Friday	12:25 PM	-	-	Vehicle	No	Rear End	0	2	$5,000	Daylight	Dry
181	87739026	1/2/2019	Wednesday	8:39 AM	-	-	Vehicle	No	Other	0	2	$15,000	Daylight	Dry
182	24032064	7/31/2020	Friday	12:23 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
183	24032658	9/15/2020	Tuesday	3:18 PM	-	-	Vehicle	No	Angle	0	1	$3,000	Daylight	Dry
184	89399263	11/15/2021	Monday	10:38 PM	-	-	Vehicle	No	Left Turn	0	2	$10,000	Dark - Lighted	Dry
185	89399313	11/29/2021	Monday	4:52 PM	-	-	Vehicle	No	Left Turn	0	1	$2,000	Daylight	Dry
186	89398525	4/27/2021	Tuesday	10:14 AM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
187	89398812	7/19/2021	Monday	1:08 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
188	24033364	1/22/2021	Friday	10:02 AM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
189	24033089	12/8/2020	Tuesday	4:01 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
190	87739420	4/26/2019	Friday	6:41 PM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
191	87740420	10/3/2019	Thursday	12:13 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
192	87739365	11/30/2019	Saturday	7:22 PM	-	-	Vehicle	No	Left Turn	0	1	$2,000	Dark - Lighted	Dry
193	87739538	5/30/2019	Thursday	3:01 PM	-	-	Vehicle	No	Angle	0	0	$2,000	Daylight	Dry
194	87739625	5/22/2019	Wednesday	2:20 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
195	87739506	4/22/2019	Monday	12:11 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,000	Daylight	Dry
196	87739786	5/3/2019	Friday	3:18 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
197	24032350	9/5/2020	Saturday	8:26 AM	-	-	Vehicle	No	Angle	0	1	$10,000	Daylight	Dry
198	87741145	3/5/2020	Thursday	12:08 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
199	24033467	2/10/2021	Wednesday	11:24 AM	-	-	Vehicle	No	Rear End	0	0	$550	Daylight	Dry
200	89399304	11/24/2021	Wednesday	4:30 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Taylor Road to Clyde Morris Boulevard **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
201	89399434	12/31/2021	Friday	12:45 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
202	89398406	3/16/2021	Tuesday	8:50 AM	-	-	Vehicle	No	Rear End	0	1	$4,000	Daylight	Dry
203	89398997	9/2/2021	Thursday	3:16 PM	-	-	Vehicle	No	Rear End	0	4	$22,000	Daylight	Dry
204	87739810	7/8/2019	Monday	8:00 PM	-	-	Vehicle	No	Rear End	0	0	$100	Dusk	Wet
205	87509877	7/22/2019	Monday	11:39 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
206	87740099	11/9/2019	Saturday	1:07 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
207	87740258	9/19/2019	Thursday	10:26 AM	-	-	Vehicle	No	Other	0	0	$100	Daylight	Dry
208	24032299	6/29/2020	Monday	12:58 PM	-	-	Vehicle	No	Other	0	0	$500	Daylight	Dry
209	24032890	11/9/2020	Monday	3:25 PM	-	-	Vehicle	No	Left Turn	0	0	$3,000	Daylight	Wet
210	89398836	7/21/2021	Wednesday	1:29 PM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
211	89399257	11/13/2021	Saturday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
212	89398724	6/18/2021	Friday	2:44 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
213	89399402	12/23/2021	Thursday	2:33 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
214	89399332	12/1/2021	Wednesday	6:08 AM	-	-	Vehicle	No	Off Road	0	0	$7,500	Dawn	Dry
215	89399406	12/23/2021	Thursday	6:16 PM	-	-	Vehicle	No	Other	0	0	$6,000	Dark - Not Lighted	Dry
216	89399106	9/30/2021	Thursday	2:16 PM	-	-	Vehicle	No	Angle	0	0	$3,500	Daylight	Dry
217	89398571	5/10/2021	Monday	9:42 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,100	Daylight	Dry
218	89398869	7/30/2021	Friday	12:54 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
219	89399177	10/25/2021	Monday	2:57 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Wet
220	89399046	9/17/2021	Friday	5:36 PM	-	-	Vehicle	No	Other	0	0	$10,000	Daylight	Wet
221	87739254	4/2/2019	Tuesday	1:50 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
222	87741219	4/11/2020	Saturday	2:00 PM	-	-	Vehicle	No	Off Road	0	0	$500	Daylight	Dry
223	87739400	5/18/2019	Saturday	3:29 PM	-	-	Vehicle	No	Other	0	2	$2,500	Daylight	Dry
224	24032268	6/29/2020	Monday	10:59 AM	-	-	Vehicle	No	Sideswipe	0	1	$2,500	Daylight	Dry
225	24032048	10/2/2020	Friday	10:34 AM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
226	89399193	10/29/2021	Friday	5:29 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Wet
227	89398846	7/22/2021	Thursday	10:32 PM	-	-	Vehicle	No	Right Turn	0	0	$8,000	Dark - Lighted	Dry
228	89399339	12/3/2021	Friday	3:12 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
229	89398796	7/13/2021	Tuesday	4:19 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
230	87510421	2/3/2019	Sunday	9:00 AM	-	-	Vehicle	No	Other	0	1	$30,000	Daylight	Dry
231	87510585	4/30/2019	Tuesday	5:00 PM	-	-	Vehicle	No	Rear End	0	0	$1,001	Daylight	Dry
232	87739874	7/4/2019	Thursday	2:30 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
233	87739246	4/6/2019	Saturday	3:19 PM	-	-	Vehicle	No	Rear End	0	1	$200	Daylight	Dry
234	87740370	11/22/2019	Friday	8:54 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
235	87739708	4/23/2019	Tuesday	3:01 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
236	24032947	11/17/2020	Tuesday	1:02 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
237	24033330	1/21/2021	Thursday	4:09 PM	-	-	Vehicle	No	Left Turn	0	1	$30,000	Daylight	Dry
238	89399057	9/21/2021	Tuesday	1:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,750	Daylight	Dry
239	89398452	3/31/2021	Wednesday	2:24 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
240	87739311	3/5/2019	Tuesday	8:23 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
241	24032139	6/5/2020	Friday	11:08 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Dark - Not Lighted	Wet
242	87740894	1/23/2020	Thursday	4:23 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
243	89399249	11/11/2021	Thursday	6:08 PM	-	-	Vehicle	No	Other	0	0	$3,500	Dark - Lighted	Dry
244	87740085	11/16/2019	Saturday	4:43 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,500	Dusk	Dry
245	87739927	7/11/2019	Thursday	11:34 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
246	24032056	8/29/2020	Saturday	4:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry
247	24033143	12/10/2020	Thursday	2:40 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
248	89399151	10/15/2021	Friday	11:15 AM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
249	89399017	9/13/2021	Monday	12:25 PM	-	-	Vehicle	No	Angle	0	0	$1,000	Daylight	Dry
250	89399344	12/6/2021	Monday	3:49 PM	-	-	Vehicle	No	Right Turn	0	0	$5,100	Daylight	Dry
251	89398764	6/26/2021	Saturday	1:29 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
252	89398985	9/3/2021	Friday	8:40 PM	-	-	Vehicle	No	Sideswipe	0	0	$100,000	Dark - Not Lighted	Dry
253	89399055	9/21/2021	Tuesday	7:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
254	87740492	10/4/2019	Friday	10:20 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Dark - Lighted	Dry
255	87741212	3/14/2020	Saturday	8:25 PM	-	-	Vehicle	No	Other	0	0	$10,000	Dark - Lighted	Dry
256	89398905	8/11/2021	Wednesday	8:55 PM	-	-	Vehicle	No	Rear End	0	0	$1,650	Dark - Lighted	Dry
257	24032844	2/19/2021	Friday	10:13 PM	-	-	Vehicle	No	Angle	0	0	$4,000	Dark - Lighted	Wet
258	87739634	6/6/2019	Thursday	11:56 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
259	87740049	8/1/2019	Thursday	2:16 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Dry
260	87740468	11/24/2019	Sunday	5:45 PM	-	-	Vehicle	No	Other	0	0	$750	Daylight	Dry
261	87740372	11/26/2019	Tuesday	12:31 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
262	24032584	9/24/2020	Thursday	2:30 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
263	87740078	3/7/2020	Saturday	11:10 PM	-	-	Vehicle	No	Angle	0	1	$10,000	Dark - Lighted	Dry
264	87740575	5/16/2020	Saturday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
265	87741236	5/18/2020	Monday	12:19 PM	-	-	Vehicle	No	Rear End	0	1	$0	Daylight	Dry
266	24032288	8/21/2020	Friday	11:20 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
267	24032930	12/19/2020	Saturday	3:19 PM	-	-	Vehicle	No	Unknown	0	0	$20,000	Daylight	Dry
268	89398805	7/16/2021	Friday	3:14 AM	-	-	Vehicle	No	Off Road	0	1	$75,200	Dark - Lighted	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue — **COUNTY: Volusia**

INTERSECTING ROUTE: Taylor Road to Clyde Morris Boulevard — **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 — **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
269	87739380	3/26/2019	Tuesday	7:30 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
270	87510566	2/15/2019	Friday	4:55 PM	-	-	Vehicle	No	Rear End	0	1	$2	Daylight	Dry
271	87739039	6/30/2019	Sunday	12:52 PM	-	-	Vehicle	No	Other	0	1	$500	Unknown	Unknown
272	87739770	5/7/2019	Tuesday	11:56 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
273	24033003	12/26/2020	Saturday	3:57 PM	-	-	Vehicle	No	Other	0	0	$5,500	Daylight	Dry
274	87741043	2/24/2020	Monday	3:45 PM	-	-	Vehicle	No	Angle	0	0	$4,000	Daylight	Dry
275	24032215	12/7/2020	Monday	8:55 AM	-	-	Vehicle	No	Rear End	0	1	$4,500	Daylight	Wet
276	89398688	6/7/2021	Monday	2:54 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Dry
277	24033230	1/11/2021	Monday	7:35 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
278	24033280	3/16/2021	Tuesday	9:05 PM	-	-	Vehicle	No	Off Road	0	0	$3,000	Dark - Lighted	Dry
279	89399093	10/1/2021	Friday	12:02 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,200	Daylight	Dry
280	89399024	9/14/2021	Tuesday	9:42 PM	-	-	Bicycle	No	Bicycle	0	0	$100	Dark - Not Lighted	Dry
281	89399145	10/13/2021	Wednesday	2:45 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
282	89399399	12/23/2021	Thursday	9:20 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
283	89398788	1/9/2021	Saturday	9:24 AM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
284	89399035	9/9/2021	Thursday	2:31 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
285	89398463	4/2/2021	Friday	2:15 PM	-	-	Vehicle	No	Sideswipe	0		$4,000	Daylight	Dry
286	89399349	12/10/2021	Friday	11:30 AM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
287	89398500	4/19/2021	Monday	12:53 PM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Wet
Total										0	92	$1,488,958		

CRASH DESCRIPTION

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	TOTAL INJURIES	PROPERTY DAMAGE	PED/BIKE/ MOTORCYCLE		LIGHTING CONDITION: DAYLIGHT	DARK - LIGHTED	DARK - NOT LIGHTED	DUSK	DAWN	ROADWAY CONDITIONS: WET	DRY
287	0	71	92	284	2		242	25	7	10	2	30	255
	0%	25%	32%	99%	1%		84%	9%	2%	3%	1%	10%	89%

CRASH TYPE

ANGLE	LEFT TURN	RIGHT TURN	REAR END	SIDE SWIPE	HEAD ON
19	16	4	127	52	4
7%	6%	1%	44%	18%	1%

CRASH TYPE

BACKED INTO	PARKED CAR	COLL. W/ MV ON ROAD	PEDESTRIAN	BIKE	BIKE IN BIKE LANE	MOTORCYCLE/ MOPED	TRAIN	ANIMAL	HIT SIGN/ SIGN POST	HIT GUARDRAIL	HIT UTILITY POLE	HIT FENCE	HIT CONC BARRIER WALL
0	0	0	0	1	0	0	0	0	0	0	0	0	0
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

HIT BR/PIER/ ABUTT	HIT TREE/ SHRUB	HIT CONST SIGN/BARR/ BR/ PIER	TRAFFIC GATE	CRASH ATTENUATOR	FIXED OBJECT
0	0	0	0	0	0
0%	0%	0%	0%	0%	0%

CRASH TYPE

OTHER FIXED OBJECT	MOVEABLE OBJECT	RAN INTO DITCH/ CULVERT	RAN OFF ROAD	OVERTURNED	OCCUPANT FELL FROM VEHICLE	TRACTOR TRAILER JACKKNIFED	FIRE	EXPLOSION	DOWNHILL RUNAWAY	CARGO LOSS OR SHIFT	SEPARATION OF UNITS	MEDIAN CROSSOVER	ALL OTHER
0	0	0	10	0	0	0	0	0	0	0	0	0	54
0%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue | **COUNTY: Volusia**

INTERSECTING ROUTE: Clyde Morris Boulevard to Nova Road | **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 | **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
1	87740705	1/6/2020	Monday	11:04 AM	-	-	Vehicle	No	Rear End	0	1	$4,000	Daylight	Dry
2	24033397	2/27/2021	Saturday	2:47 PM	-	-	Vehicle	No	Left Turn	0	3	$18,000	Daylight	Dry
3	89398837	7/22/2021	Thursday	8:30 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
4	24033110	12/7/2020	Monday	8:55 AM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Wet
5	89399431	12/20/2021	Monday	6:14 PM	-	-	Vehicle	No	Rear End	0	1	$8,000	Dark - Lighted	Wet
6	87740115	8/12/2019	Monday	4:50 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
7	87740146	8/26/2019	Monday	8:23 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
8	24032328	7/8/2020	Wednesday	10:59 AM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
9	87740845	4/25/2020	Saturday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
10	24032248	9/14/2020	Monday	5:32 PM	-	-	Vehicle	No	Other	0	0	$6,000	Daylight	Dry
11	24032865	11/9/2020	Monday	10:54 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
12	24032137	6/11/2020	Thursday	9:52 AM	-	-	Vehicle	No	Unknown	0	0	$10,000	Daylight	Dry
13	87741114	3/3/2020	Tuesday	11:00 AM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry
14	89398710	6/14/2021	Monday	6:25 PM	-	-	Vehicle	No	Rear End	0	1	$10,500	Daylight	Dry
15	89398457	4/1/2021	Thursday	3:54 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
16	24032745	10/27/2020	Tuesday	12:00 PM	-	-	Pedestrian	No	Pedestrian	0	1	$0	Daylight	Dry
17	87740572	3/26/2020	Thursday	12:55 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Daylight	Dry
18	87740859	5/24/2020	Sunday	4:20 PM	-	-	Vehicle	No	Other	0	0	$900	Daylight	Dry
19	87740300	1/20/2020	Monday	4:59 PM	-	-	Vehicle	No	Rear End	0	2	$15,500	Daylight	Dry
20	89399124	10/11/2021	Monday	11:24 AM	-	-	Vehicle	No	Rear End	0	1	$4,500	Daylight	Dry
21	87739825	8/28/2019	Wednesday	9:04 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
22	24032903	11/28/2020	Saturday	1:55 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,000	Daylight	Dry
23	24032295	9/4/2020	Friday	3:42 PM	-	-	Vehicle	No	Angle	0	0	$10,000	Daylight	Dry
24	24032531	12/19/2020	Saturday	1:40 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
25	24033169	12/22/2020	Tuesday	2:07 PM	-	-	Vehicle	No	Rear End	0	2	$2,000	Daylight	Dry
26	24032418	7/29/2020	Wednesday	12:18 PM	-	-	Vehicle	No	Rear End	0	1	$20,500	Daylight	Dry
27	89399347	12/8/2021	Wednesday	4:33 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry
28	89399064	9/23/2021	Thursday	7:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Dusk	Dry
29	89399209	11/2/2021	Tuesday	4:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
30	87739421	6/8/2019	Saturday	10:38 PM	-	-	Vehicle	No	Head On	0	1	$40,000	Dark - Not Lighted	Wet
31	24033237	12/31/2020	Thursday	8:43 PM	-	-	Bicycle	No	Bicycle	1	0	$4,000	Dark - Not Lighted	Dry
32	89399174	10/24/2021	Sunday	5:01 AM	-	-	Vehicle	No	Off Road	0	0	$500	Daylight	Wet
33	87740478	11/7/2019	Thursday	9:17 AM	-	-	Vehicle	No	Rear End	0	1	$7,500	Daylight	Dry
34	87739583	6/27/2019	Thursday	5:21 PM	-	-	Vehicle	No	Rear End	0	0	$9,000	Daylight	Dry
35	87739620	6/12/2019	Wednesday	3:24 PM	-	-	Vehicle	No	Rear End	0	0	$400	Daylight	Wet
36	24032931	12/29/2020	Tuesday	5:01 PM	-	-	Vehicle	No	Rear End	0	0	$31,000	Daylight	Dry
37	87740976	1/23/2020	Thursday	10:26 AM	-	-	Vehicle	No	Rear End	0	1	$7,000	Daylight	Wet
38	24032864	11/20/2020	Friday	6:26 PM	-	-	Bicycle	No	Bicycle	0	1	$5,000	Dark - Not Lighted	Wet
39	24032262	8/20/2020	Thursday	12:58 PM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
40	89398825	7/20/2021	Tuesday	9:19 PM	-	-	Vehicle	No	Other	0	0	$3,000	Dark - Lighted	Wet
41	89399251	11/2/2021	Tuesday	5:00 PM	-	-	Vehicle	No	Other	0	0	$700	Daylight	Dry
42	89399222	11/2/2021	Tuesday	5:16 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Dry
43	85315350	5/21/2019	Tuesday	12:20 AM	-	-	Vehicle	Yes	Right Turn	0	2	$9,000	Dark - Lighted	Dry
44	24032331	7/7/2020	Tuesday	8:22 AM	-	-	Vehicle	No	Unknown	0	0	$8,000	Daylight	Dry
45	87740817	11/28/2019	Thursday	5:20 AM	-	-	Vehicle	No	Angle	0	1	$16,300	Dark - Lighted	Wet
46	87740260	8/26/2019	Monday	8:35 PM	-	-	Vehicle	No	Rear End	0	0	$900	Dark - Lighted	Dry
47	87740602	10/25/2019	Friday	9:32 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
48	87740196	9/9/2019	Monday	12:30 PM	-	-	Vehicle	No	Rear End	0	1	$350	Daylight	Dry
49	87739375	8/14/2019	Wednesday	4:32 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Wet
50	87740368	11/21/2019	Thursday	4:18 PM	-	-	Vehicle	No	Rear End	0	1	$100	Daylight	Dry
51	87738980	3/14/2019	Thursday	7:55 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dark - Lighted	Dry
52	24032797	12/22/2020	Tuesday	8:35 PM	-	-	Vehicle	No	Left Turn	0	2	$6,000	Dark - Lighted	Dry
53	24032389	8/8/2020	Saturday	3:00 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Dry
54	24032940	11/11/2020	Wednesday	3:39 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
55	24032253	6/24/2020	Wednesday	12:39 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
56	24032172	6/12/2020	Friday	1:14 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
57	87741147	2/27/2020	Thursday	10:19 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
58	89399102	10/4/2021	Monday	8:45 PM	-	-	Vehicle	No	Rear End	0	0	$400	Dark - Lighted	Dry
59	24032521	4/7/2021	Wednesday	9:28 PM	-	-	Vehicle	No	Rear End	0	0	$15,000	Dark - Lighted	Dry
60	89398771	7/1/2021	Thursday	7:10 AM	-	-	Vehicle	No	Rear End	0	1	$200	Daylight	Dry
61	89398736	6/22/2021	Tuesday	2:01 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
62	24033382	2/18/2021	Thursday	8:21 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Wet
63	24033321	1/13/2021	Wednesday	1:41 PM	-	-	Vehicle	No	Rear End	0	0	$8,000	Daylight	Dry
64	87740557	10/29/2019	Tuesday	11:53 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,250	Daylight	Dry
65	87740491	5/20/2020	Wednesday	12:03 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
66	24032287	7/13/2020	Monday	10:05 PM	-	-	Vehicle	No	Rear End	0	1	$20,000	Dark - Lighted	Dry
67	87741010	2/3/2020	Monday	4:42 PM	-	-	Vehicle	No	Angle	0	1	$3,500	Daylight	Dry
68	89399200	10/27/2021	Wednesday	7:01 PM	-	-	Vehicle	No	Rear End	0	1	$3,500	Dark - Not Lighted	Dry
69	89398983	9/2/2021	Thursday	11:26 AM	-	-	Bicycle	No	Bicycle	0	1	$1,500	Daylight	Dry
70	87739485	5/1/2019	Wednesday	5:30 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
71	87739623	4/20/2019	Saturday	4:45 PM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
72	87738420	2/23/2019	Saturday	8:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,900	Daylight	Dry
73	87739371	6/6/2019	Thursday	5:50 PM	-	-	Vehicle	No	Unknown	0	0	$6,500	Daylight	Dry
74	24032054	7/2/2020	Thursday	9:19 PM	-	-	Vehicle	No	Other	0	0	$1,000	Dark - Lighted	Dry
75	87740692	1/12/2020	Sunday	9:52 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Daylight	Dry
76	24032948	11/17/2020	Tuesday	3:48 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
77	87740921	4/24/2020	Friday	2:05 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Wet
78	24033137	12/14/2020	Monday	4:29 PM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
79	24032381	8/15/2020	Saturday	3:59 PM	-	-	Vehicle	No	Off Road	0	0	$300	Daylight	Wet
80	89399159	10/17/2021	Sunday	8:55 PM	-	-	Vehicle	No	Angle	0	0	$1,000	Dark - Lighted	Dry
81	24032653	2/24/2021	Wednesday	5:04 AM	-	-	Vehicle	No	Rear End	0	2	$4,000	Dark - Lighted	Dry
82	89399372	1/12/2021	Tuesday	9:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
83	87739486	5/16/2019	Thursday	9:32 PM	-	-	Vehicle	No	Left Turn	0	1	$15,000	Dark - Lighted	Dry
84	24032265	8/20/2020	Thursday	4:23 PM	-	-	Vehicle	No	Left Turn	0	4	$25,000	Daylight	Dry
85	89399334	12/5/2021	Sunday	8:38 PM	-	-	Vehicle	No	Left Turn	0	1	$30,000	Dark - Lighted	Dry
86	89399089	9/30/2021	Thursday	9:25 AM	-	-	Pedestrian	No	Bicycle	0	1	$0	Daylight	Dry
87	87740524	10/23/2019	Wednesday	12:55 PM	-	-	Vehicle	No	Rear End	0	2	$20,000	Daylight	Dry
88	87739294	2/12/2019	Tuesday	2:31 PM	-	-	Vehicle	No	Rear End	0	0	$3,200	Daylight	Dry
89	87739214	2/12/2019	Tuesday	12:03 PM	-	-	Vehicle	No	Left Turn	0	0	$10,000	Daylight	Dry
90	87739698	4/18/2020	Saturday	9:55 PM	-	-	Vehicle	No	Rear End	0	2	$5,000	Dark - Lighted	Dry
91	24032412	11/3/2020	Tuesday	8:09 AM	-	-	Vehicle	No	Rear End	0	2	$11,000	Daylight	Dry
92	87741148	3/13/2020	Friday	4:58 PM	-	-	Vehicle	No	Unknown	0	0	$1,000	Daylight	Dry
93	87740690	3/4/2020	Wednesday	2:08 PM	-	-	Vehicle	No	Rear End	0	2	$10,000	Daylight	Dry
94	89399115	10/7/2021	Thursday	12:15 PM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
95	89399300	11/21/2021	Sunday	4:39 PM	-	-	Vehicle	No	Other	0	0	$100	Daylight	Dry
96	89399391	12/11/2021	Saturday	9:33 AM	-	-	Vehicle	No	Rear End	0	0	$8,500	Daylight	Dry
97	24033220	2/25/2021	Thursday	11:47 AM	-	-	Vehicle	No	Rollover	0	1	$2,000	Daylight	Dry
98	24032630	1/8/2021	Friday	6:18 PM	-	-	Vehicle	No	Rear End	0	1	$6,000	Dark - Not Lighted	Dry
99	24032776	3/1/2021	Monday	4:59 PM	-	-	Vehicle	No	Rear End	0	1	$7,500	Daylight	Dry
100	24032289	10/20/2020	Tuesday	4:09 PM	-	-	Vehicle	No	Left Turn	0	1	$7,000	Daylight	Dry
101	89398757	6/27/2021	Sunday	9:42 PM	-	-	Pedestrian	No	Pedestrian	1	0	$3,000	Dark - Not Lighted	Dry
102	87738624	2/10/2019	Sunday	10:27 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
103	87740028	7/7/2019	Sunday	10:59 PM	-	-	Bicycle	No	Other	0	1	$0	Dark - Lighted	Dry
104	87740180	8/29/2019	Thursday	4:13 PM	-	-	Vehicle	No	Sideswipe	0	0	$9,000	Daylight	Dry
105	87740010	9/1/2019	Sunday	3:18 PM	-	-	Vehicle	No	Rear End	0	1	$1,600	Daylight	Dry
106	24032060	10/3/2020	Saturday	3:24 PM	-	-	Vehicle	No	Rear End	0	0	$1,200	Daylight	Wet
107	24032218	9/10/2020	Thursday	6:10 PM	-	-	Vehicle	No	Unknown	0	0	$1,500	Daylight	Dry
108	87741249	6/1/2020	Monday	11:58 AM	-	-	Vehicle	No	Rear End	0	1	$6,500	Daylight	Dry
109	24032663	9/15/2020	Tuesday	2:56 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Clyde Morris Boulevard to Nova Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
110	24032741	10/9/2020	Friday	12:02 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
111	24032305	6/30/2020	Tuesday	12:57 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Daylight	Dry
112	24032088	6/3/2020	Wednesday	8:59 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
113	89398559	5/6/2021	Thursday	11:01 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
114	89398804	7/14/2021	Wednesday	10:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,400	Daylight	Dry
115	24032515	3/26/2021	Friday	9:40 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Dark - Lighted	Dry
116	24033297	3/19/2021	Friday	7:20 PM	-	-	Vehicle	No	Rear End	0	1	$3,000	Daylight	Dry
117	89398395	3/8/2021	Monday	3:16 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
118	89399205	10/27/2021	Wednesday	10:43 AM	-	-	Vehicle	No	Sideswipe	0	0	$0	Daylight	Dry
119	89398512	4/25/2021	Sunday	9:50 AM	-	-	Vehicle	No	Rear End	0	0	$5,300	Daylight	Wet
120	89399469	12/31/2021	Friday	4:05 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
121	89398955	8/26/2021	Thursday	5:52 PM	-	-	Vehicle	No	Off Road	0	3	$28,500	Daylight	Dry
122	24033200	12/29/2020	Tuesday	6:20 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Dark - Lighted	Dry
123	87741332	4/30/2020	Thursday	11:26 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
124	89398717	6/12/2021	Saturday	3:38 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Dry
125	89398998	9/2/2021	Thursday	12:00 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
126	89398673	6/3/2021	Thursday	2:10 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
127	87739866	7/15/2019	Monday	3:36 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
128	87739032	3/25/2019	Monday	4:00 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
129	87739308	2/14/2019	Thursday	3:32 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
130	87741313	5/20/2020	Wednesday	10:38 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
131	24032941	11/10/2020	Tuesday	1:00 PM	-	-	Vehicle	No	Rear End	0	1	$7,000	Daylight	Wet
132	24033035	11/18/2020	Wednesday	12:00 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
133	24033463	2/11/2021	Thursday	4:35 PM	-	-	Vehicle	No	Rear End	0	1	$10,500	Daylight	Dry
134	89399013	9/11/2021	Saturday	2:57 PM	-	-	Vehicle	No	Off Road	0	1	$2,000	Daylight	Dry
135	87739734	11/21/2019	Thursday	9:25 PM	-	-	Vehicle	No	Angle	0	0	$1,100	Dark - Lighted	Dry
136	87740226	9/11/2019	Wednesday	1:37 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
137	87739822	7/1/2019	Monday	4:11 PM	-	-	Vehicle	No	Rear End	0	0	$750	Daylight	Dry
138	87740487	10/24/2019	Thursday	1:15 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
139	87740041	8/1/2019	Thursday	1:41 PM	-	-	Vehicle	No	Rear End	0	0	$7,500	Daylight	Dry
140	87740229	9/18/2019	Wednesday	7:41 AM	-	-	Vehicle	No	Rear End	0	1	$3,000	Daylight	Dry
141	24032239	12/7/2020	Monday	11:28 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Wet
142	87739427	3/1/2019	Friday	3:38 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
143	87739769	8/16/2019	Friday	1:43 PM	-	-	Vehicle	No	Right Turn	0	0	$10,000	Daylight	Dry
144	89398835	7/22/2021	Thursday	1:00 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
145	24032611	10/30/2020	Friday	4:35 PM	-	-	Vehicle	No	Left Turn	0	1	$12,000	Daylight	Dry
146	24032503	8/19/2020	Wednesday	4:42 PM	-	-	Vehicle	No	Unknown	0	0	$4,000	Daylight	Dry
147	87739176	8/3/2019	Saturday	8:52 AM	-	-	Vehicle	No	Rear End	0	0	$4,500	Daylight	Dry
148	87510181	4/7/2019	Sunday	11:15 AM	-	-	Vehicle	No	Rear End	0	1	$600	Daylight	Dry
149	87739759	8/24/2019	Saturday	10:45 PM	-	-	Vehicle	No	Rear End	0	0	$10,000	Dark - Lighted	Dry
150	87740177	12/21/2019	Saturday	7:55 PM	-	-	Bicycle	No	Bicycle	0	1	$2,800	Dark - Lighted	Wet
151	87740342	10/1/2019	Tuesday	12:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry
152	87738949	7/27/2019	Saturday	3:45 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
153	87740559	11/15/2019	Friday	3:51 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
154	87739706	5/6/2019	Monday	12:28 PM	-	-	Vehicle	No	Rear End	0	3	$8,500	Daylight	Dry
155	87739568	5/7/2019	Tuesday	12:58 PM	-	-	Vehicle	No	Sideswipe	0	0	$400	Daylight	Dry
156	87739378	4/9/2019	Tuesday	11:40 AM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
157	24032659	10/14/2020	Wednesday	9:18 PM	-	-	Bicycle	No	Bicycle	0	1	$1,000	Dark - Lighted	Dry
158	24032065	10/4/2020	Sunday	8:28 PM	-	-	Pedestrian	No	Pedestrian	0	1	$5,000	Dark - Lighted	Dry
159	24033096	12/2/2020	Wednesday	5:49 AM	-	-	Vehicle	No	Left Turn	0	2	$40,000	Dark - Lighted	Dry
160	24032455	8/25/2020	Tuesday	6:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Wet
161	87741307	3/13/2020	Friday	11:00 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
162	24032123	6/9/2020	Tuesday	12:22 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
163	24032230	6/22/2020	Monday	10:48 AM	-	-	Vehicle	No	Left Turn	0	0	$4,800	Daylight	Dry
164	89398683	6/2/2021	Wednesday	1:12 AM	-	-	Vehicle	No	Angle	0	6	$13,000	Dark - Lighted	Dry
165	89398560	5/6/2021	Thursday	3:35 PM	-	-	Vehicle	No	Rear End	0	2	$5,000	Daylight	Dry
166	89399301	11/25/2021	Thursday	8:51 AM	-	-	Vehicle	No	Rear End	0	4	$6,000	Daylight	Dry
167	24032802	2/2/2021	Tuesday	6:50 PM	-	-	Vehicle	No	Left Turn	0	0	$5,500	Dark - Lighted	Dry
168	89399438	12/17/2021	Friday	10:30 AM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
169	89399430	12/26/2021	Sunday	2:42 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
170	87740199	11/22/2019	Friday	9:01 AM	-	-	Vehicle	No	Right Turn	0	0	$10,000	Daylight	Dry
171	87740167	12/31/2019	Tuesday	12:00 AM	-	-	Vehicle	No	Rear End	0	1	$10,001	Dark - Not Lighted	Dry
172	87740981	1/13/2020	Monday	7:08 PM	-	-	Vehicle	No	Unknown	0	0	$2,000	Dark - Lighted	Dry
173	24032438	8/3/2020	Monday	10:55 AM	-	-	Vehicle	No	Angle	0	2	$10,000	Daylight	Dry
174	24033140	12/15/2020	Tuesday	4:37 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
175	89398608	5/20/2021	Thursday	3:30 PM	-	-	Vehicle	No	Rear End	0	2	$10,000	Daylight	Dry
176	87739567	5/6/2019	Monday	1:46 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Daylight	Dry
177	87739925	7/4/2019	Thursday	1:50 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
178	87740956	1/30/2020	Thursday	3:36 PM	-	-	Vehicle	No	Rear End	0	1	$2,250	Daylight	Dry
179	87740610	2/2/2020	Sunday	4:59 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
180	24032913	11/11/2020	Wednesday	6:14 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dusk	Wet
181	89398648	5/29/2021	Saturday	3:05 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
182	24033055	2/24/2021	Wednesday	6:20 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
183	24033026	2/15/2021	Monday	6:59 PM	-	-	Vehicle	No	Sideswipe	0	0	$500	Dark - Lighted	Wet
184	89399405	12/23/2021	Thursday	3:54 PM	-	-	Vehicle	No	Rear End	0	0	$8,500	Daylight	Dry
185	87740607	12/11/2019	Wednesday	7:38 PM	-	-	Vehicle	No	Other	0	0	$200	Dark - Lighted	Wet
186	87740163	12/14/2019	Saturday	10:57 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
187	87740138	8/21/2019	Wednesday	2:15 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
188	87740090	8/6/2019	Tuesday	7:45 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
189	87738919	1/17/2019	Thursday	2:06 PM	-	-	Vehicle	No	Rear End	0	2	$17,000	Daylight	Dry
190	87739817	7/8/2019	Monday	8:28 AM	-	-	Vehicle	No	Other	0	0	$2,500	Daylight	Dry
191	87739479	3/7/2019	Thursday	2:24 PM	-	-	Vehicle	No	Angle	0	2	$3,000	Daylight	Dry
192	87739564	3/27/2020	Friday	4:45 PM	-	-	Vehicle	No	Rear End	0	0	$720	Daylight	Dry
193	87741203	3/6/2020	Friday	3:30 PM	-	-	Vehicle	No	Left Turn	0	0	$3,000	Daylight	Dry
194	24033243	1/3/2021	Sunday	6:37 PM	-	-	Vehicle	No	Other	0	1	$4,500	Dark - Lighted	Dry
195	89398440	3/29/2021	Monday	3:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,550	Daylight	Dry
196	87739851	5/23/2019	Thursday	7:18 PM	-	-	Vehicle	No	Other	0	0	$3,000	Dark - Lighted	Dry
197	89398533	4/29/2021	Thursday	11:26 AM	-	-	Vehicle	No	Angle	0	0	$4,000	Daylight	Dry
198	89399062	9/22/2021	Wednesday	12:18 PM	-	-	Vehicle	No	Unknown	0	0	$10,000	Daylight	Dry
199	89398453	3/31/2021	Wednesday	3:52 PM	-	-	Pedestrian	No	Pedestrian	0	1	$100	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Clyde Morris Boulevard to Nova Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
200	87739551	4/26/2019	Friday	2:52 PM	-	-	Vehicle	No	Rear End	0	0	$12,000	Daylight	Dry
201	87740384	10/3/2019	Thursday	7:37 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
202	87740214	9/11/2019	Wednesday	10:39 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
203	87510233	5/11/2019	Saturday	8:36 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Dark - Not Lighted	Dry
204	87739462	3/20/2019	Wednesday	11:28 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
205	87739007	1/12/2019	Saturday	1:36 PM	-	-	Vehicle	No	Rear End	0	0	$7,500	Daylight	Dry
206	87739052	6/19/2019	Wednesday	12:23 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
207	87739199	3/11/2019	Monday	8:35 PM	-	-	Vehicle	No	Other	0	1	$2,000	Dark - Lighted	Dry
208	87740201	8/29/2019	Thursday	1:28 PM	-	-	Vehicle	No	Angle	0	0	$6,000	Daylight	Dry
209	87739049	3/2/2019	Saturday	3:27 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
210	24032392	9/6/2020	Sunday	6:20 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
211	87741312	5/19/2020	Tuesday	10:08 AM	-	-	Vehicle	No	Left Turn	0	2	$20,000	Daylight	Dry
212	24033187	12/24/2020	Thursday	8:35 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Dark - Lighted	Wet
213	24032519	8/28/2020	Friday	8:53 PM	-	-	Vehicle	No	Rear End	0	2	$3,500	Dark - Lighted	Dry
214	24032907	11/11/2020	Wednesday	11:23 AM	-	-	Vehicle	No	Head On	0	1	$5,500	Daylight	Dry
215	87740957	1/16/2020	Thursday	1:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
216	24032414	7/21/2020	Tuesday	7:00 PM	-	-	Vehicle	No	Rear End	0	0	$1,800	Daylight	Dry
217	87740301	2/9/2020	Sunday	6:38 PM	-	-	Vehicle	No	Rear End	0	1	$11,000	Dark - Lighted	Dry
218	24032326	7/21/2020	Tuesday	11:36 AM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
219	24032143	7/23/2020	Thursday	2:46 PM	-	-	Vehicle	No	Unknown	0	0	$2,500	Daylight	Dry
220	89399420	12/27/2021	Monday	1:48 PM	-	-	Vehicle	No	Right Turn	0	0	$11,000	Daylight	Dry
221	89399428	12/28/2021	Tuesday	5:50 AM	-	-	Vehicle	No	Angle	0	0	$700	Dark - Lighted	Dry
222	89398627	5/24/2021	Monday	3:33 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
223	87740656	1/6/2020	Monday	8:19 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Daylight	Dry
224	24032269	7/20/2020	Monday	6:50 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,500	Daylight	Dry
225	87739379	2/26/2019	Tuesday	2:06 PM	-	-	Vehicle	No	Left Turn	0	0	$6,000	Daylight	Dry
226	87738846	4/25/2019	Thursday	11:52 AM	-	-	Vehicle	No	Rear End	0	0	$2,200	Daylight	Dry
227	87740288	10/1/2019	Tuesday	10:42 AM	-	-	Vehicle	No	Rear End	0	1	$400	Daylight	Dry
228	87739773	6/24/2019	Monday	1:49 PM	-	-	Vehicle	No	Rear End	0	0	$900	Daylight	Dry
229	87740611	11/5/2019	Tuesday	4:25 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Daylight	Wet
230	87741188	3/5/2020	Thursday	12:33 PM	-	-	Vehicle	No	Rear End	0	0	$5,500	Daylight	Dry
231	87740954	1/14/2020	Tuesday	4:06 PM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
232	24032845	3/15/2021	Monday	7:57 PM	-	-	Vehicle	No	Right Turn	0	0	$1,100	Dark - Lighted	Dry
233	89399223	11/2/2021	Tuesday	5:03 PM	-	-	Vehicle	No	Rear End	0	0	$750	Daylight	Dry
234	87739724	4/25/2019	Thursday	11:30 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
235	24033032	11/25/2020	Wednesday	10:47 AM	-	-	Vehicle	No	Other	0	1	$10,000	Daylight	Dry
236	24033038	2/7/2021	Sunday	5:50 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,001	Dusk	Dry
237	89398626	5/24/2021	Monday	4:20 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
238	89398749	6/24/2021	Thursday	12:58 PM	-	-	Vehicle	No	Rear End	0	1	$14,000	Daylight	Dry
239	87739061	1/8/2019	Tuesday	12:39 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
240	87739006	1/12/2019	Saturday	11:21 AM	-	-	Vehicle	No	Other	0	0	$1,600	Daylight	Dry
241	87740615	12/10/2019	Tuesday	5:43 PM	-	-	Vehicle	No	Angle	0	0	$10,000	Dark - Lighted	Dry
242	87740374	12/2/2019	Monday	8:40 AM	-	-	Vehicle	No	Other	0	0	$2,500	Daylight	Dry
243	87740477	10/23/2019	Wednesday	2:42 PM	-	-	Vehicle	No	Rear End	0	1	$1,050	Daylight	Dry
244	24032254	6/25/2020	Thursday	10:33 AM	-	-	Vehicle	No	Rear End	0	1	$6,000	Daylight	Dry
245	89398421	3/18/2021	Thursday	7:59 AM	-	-	Bicycle	No	Bicycle	0	1	$1,050	Daylight	Dry
246	89398944	8/20/2021	Friday	1:02 PM	-	-	Vehicle	No	Angle	0	2	$8,000	Daylight	Dry
247	89399181	10/22/2021	Friday	3:10 PM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
248	87740581	10/31/2019	Thursday	9:53 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
249	87739084	2/27/2019	Wednesday	11:00 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
250	87739894	9/5/2019	Thursday	4:45 PM	-	-	Vehicle	No	Rear End	0	1	$8,000	Daylight	Dry
251	87739713	12/30/2019	Monday	6:00 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dawn	Dry
252	87739878	7/11/2019	Thursday	2:57 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
253	87739153	1/25/2019	Friday	9:48 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
254	24032034	10/5/2020	Monday	2:45 PM	-	-	Vehicle	No	Rear End	0	0	$101	Daylight	Dry
255	24032754	11/21/2020	Saturday	10:40 AM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
256	24032457	8/11/2020	Tuesday	12:04 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
257	87740895	1/29/2020	Wednesday	3:51 PM	-	-	Vehicle	No	Right Turn	0	1	$7,500	Daylight	Dry
258	24032079	2/1/2021	Monday	9:33 AM	-	-	Vehicle	No	Angle	0	3	$10,000	Daylight	Dry
259	24033022	1/3/2021	Sunday	7:59 PM	-	-	Vehicle	No	Rear End	0	4	$7,000	Dark - Lighted	Dry
260	89398416	3/19/2021	Friday	10:36 AM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
261	24033231	1/4/2021	Monday	1:40 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Dry
262	24033395	1/21/2021	Thursday	6:46 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Dark - Lighted	Dry
263	87739420	4/26/2019	Friday	6:41 PM	-	-	Vehicle	No	Other	0	0	$5,000	Daylight	Dry
264	87740420	10/3/2019	Thursday	12:13 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
265	87739365	11/30/2019	Saturday	7:22 PM	-	-	Vehicle	No	Left Turn	0	1	$2,000	Dark - Lighted	Dry
266	87739538	5/30/2019	Thursday	3:01 PM	-	-	Vehicle	No	Angle	0	0	$2,000	Daylight	Dry
267	87739625	5/22/2019	Wednesday	2:20 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
268	87739506	4/22/2019	Monday	12:11 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,000	Daylight	Dry
269	87739786	5/3/2019	Friday	3:18 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
270	24032350	9/5/2020	Saturday	8:26 AM	-	-	Vehicle	No	Angle	0	1	$10,000	Daylight	Dry
271	87741145	3/5/2020	Thursday	12:08 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
272	24033467	2/10/2021	Wednesday	11:24 AM	-	-	Vehicle	No	Rear End	0	0	$550	Daylight	Dry
273	89399304	11/24/2021	Wednesday	4:30 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
274	89399434	12/31/2021	Friday	12:45 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
275	87740441	11/6/2019	Wednesday	11:05 AM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
276	87740285	9/26/2019	Thursday	6:56 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
277	87739181	4/5/2019	Friday	10:45 AM	-	-	Vehicle	No	Rear End	0	0	$4,500	Daylight	Dry
278	87739588	5/1/2019	Wednesday	8:00 AM	-	-	Vehicle	No	Other	0	0	$400	Daylight	Dry
279	87740463	10/8/2019	Tuesday	5:52 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
280	24033246	12/31/2020	Thursday	8:43 PM	-	-	Vehicle	No	Other	0	1	$31,000	Dark - Not Lighted	Dry
281	87741178	4/28/2020	Tuesday	1:12 PM	-	-	Vehicle	No	Sideswipe	0	1	$1,000	Daylight	Dry
282	87739543	4/15/2019	Monday	1:42 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry
283	87740413	10/14/2019	Monday	11:04 AM	-	-	Vehicle	No	Rear End	0	0	$8,500	Daylight	Dry
284	87740484	12/23/2019	Monday	11:07 AM	-	-	Pedestrian	No	Pedestrian	0	1	$0	Daylight	Dry
285	87739165	8/27/2019	Tuesday	5:15 PM	-	-	Vehicle	No	Rear End	0	1	$750	Daylight	Wet
286	24032746	10/28/2020	Wednesday	9:15 AM	-	-	Vehicle	Yes	Rear End	0	0	$11,000	Daylight	Dry
287	24032904	12/17/2020	Thursday	4:59 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Dusk	Dry
288	87740736	1/25/2020	Saturday	1:44 PM	-	-	Vehicle	No	Rear End	0	2	$6,000	Daylight	Dry
289	89399162	10/15/2021	Friday	2:21 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
290	89399183	10/22/2021	Friday	2:52 PM	-	-	Vehicle	No	Rear End	0	2	$9,000	Daylight	Dry
291	89399085	9/22/2021	Wednesday	5:10 PM	-	-	Vehicle	No	Rear End	0	0	$12,500	Daylight	Dry
292	89399250	11/11/2021	Thursday	8:45 PM	-	-	Vehicle	Yes	Rear End	0	0	$1,000	Dark - Lighted	Dry
293	87510001	3/23/2019	Saturday	6:30 AM	-	-	Vehicle	No	Rear End	0	0	$1,200	Dark - Lighted	Dry
294	89398526	4/27/2021	Tuesday	4:57 PM	-	-	Vehicle	No	Other	0	0	$10,000	Daylight	Dry
295	89399021	9/10/2021	Friday	3:38 PM	-	-	Vehicle	No	Left Turn	0	0	$9,000	Daylight	Dry
296	87738642	5/3/2019	Friday	11:34 PM	-	-	Vehicle	No	Left Turn	0	1	$4,000	Dark - Lighted	Dry
297	87740079	7/27/2019	Saturday	9:15 PM	-	-	Vehicle	No	Left Turn	0	2	$45,000	Dark - Lighted	Dry
298	24032563	8/27/2020	Thursday	8:20 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
299	24032527	8/27/2020	Thursday	11:42 AM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
300	24032767	10/14/2020	Wednesday	1:06 PM	-	-	Vehicle	No	Angle	0	0	$21,100	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue — **COUNTY: Volusia**

INTERSECTING ROUTE: Clyde Morris Boulevard to Nova Road — **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 — **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
301	88345272	6/6/2021	Sunday	3:20 PM	-	-	Vehicle	No	Angle	0	0	$4,500	Daylight	Dry
302	24032876	4/1/2021	Thursday	5:25 PM	-	-	Vehicle	No	Sideswipe	0	0	$200	Daylight	Dry
303	24033442	3/7/2021	Sunday	1:16 PM	-	-	Vehicle	No	Unknown	0	1	$10,000	Daylight	Dry
304	89398806	7/16/2021	Friday	2:54 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
305	89398783	7/7/2021	Wednesday	3:15 PM	-	-	Vehicle	No	Unknown	0	0	$6,000	Daylight	Dry
306	89398557	5/2/2021	Sunday	9:16 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
307	87740672	1/3/2020	Friday	12:54 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
308	24032183	12/16/2020	Wednesday	5:30 PM	-	-	Vehicle	No	Rear End	0	1	$6,500	Dark - Lighted	Wet
309	89398872	8/1/2021	Sunday	2:10 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Dry
310	89399023	9/14/2021	Tuesday	8:11 AM	-	-	Bicycle	No	Bicycle	0	1	$0	Daylight	Dry
311	87510421	2/3/2019	Sunday	9:00 AM	-	-	Vehicle	No	Other	0	1	$30,000	Daylight	Dry
312	87510585	4/30/2019	Tuesday	5:00 PM	-	-	Vehicle	No	Rear End	0	0	$1,001	Daylight	Dry
313	87739874	7/4/2019	Thursday	2:30 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
314	87739246	4/6/2019	Saturday	3:19 PM	-	-	Vehicle	No	Rear End	0	1	$200	Daylight	Dry
315	87740370	11/22/2019	Friday	8:54 AM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
316	87739708	4/23/2019	Tuesday	3:01 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
317	24032947	11/17/2020	Tuesday	1:02 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
318	24033330	1/21/2021	Thursday	4:09 PM	-	-	Vehicle	No	Left Turn	0	1	$30,000	Daylight	Dry
319	89399057	9/21/2021	Tuesday	1:15 PM	-	-	Vehicle	No	Rear End	0	0	$1,750	Daylight	Dry
320	89398452	3/31/2021	Wednesday	2:24 PM	-	-	Vehicle	No	Rear End	0	1	$500	Daylight	Dry
321	87739430	3/5/2019	Tuesday	10:46 AM	-	-	Vehicle	No	Right Turn	0	0	$15,000	Daylight	Dry
322	87739571	6/23/2019	Sunday	3:00 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
323	87739135	3/31/2019	Sunday	5:25 PM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
324	24032585	10/3/2020	Saturday	5:05 PM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Wet
325	24032526	8/25/2020	Tuesday	11:42 AM	-	-	Bicycle	No	Other	0	0	$125	Daylight	Dry
326	87740796	3/20/2020	Friday	5:15 PM	-	-	Vehicle	No	Left Turn	0	0	$12,000	Daylight	Dry
327	89398885	8/4/2021	Wednesday	10:45 AM	-	-	Vehicle	No	Rear End	0	3	$25,000	Daylight	Dry
328	24033024	1/21/2021	Thursday	6:43 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Dark - Not Lighted	Dry
329	87739190	4/7/2019	Sunday	9:23 PM	-	-	Vehicle	No	Off Road	0	2	$10,000	Dark - Lighted	Dry
330	87739117	2/5/2019	Tuesday	4:44 PM	-	-	Vehicle	No	Rear End	0	1	$11,000	Daylight	Dry
331	87739163	3/22/2019	Friday	10:59 AM	-	-	Vehicle	No	Rear End	0	0	$12,500	Daylight	Dry
332	87739129	1/24/2019	Thursday	2:22 PM	-	-	Vehicle	No	Rear End	0	1	$20,000	Daylight	Dry
333	87739350	2/26/2019	Tuesday	12:45 PM	-	-	Vehicle	No	Angle	0	0	$3,000	Daylight	Dry
334	87741052	4/3/2020	Friday	1:35 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
335	87740053	3/3/2020	Tuesday	5:00 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
336	89398614	5/22/2021	Saturday	10:25 AM	-	-	Vehicle	No	Rear End	0	2	$12,500	Daylight	Dry
337	89398799	7/15/2021	Thursday	10:56 AM	-	-	Vehicle	No	Rear End	0	3	$20,000	Daylight	Dry
338	87739626	7/8/2019	Monday	8:59 PM	-	-	Vehicle	No	Other	0	1	$10,000	Dark - Lighted	Dry
339	89398454	3/30/2021	Tuesday	12:45 PM	-	-	Vehicle	No	Left Turn	0	0	$8,000	Daylight	Dry
340	87739385	9/12/2019	Thursday	3:18 PM	-	-	Vehicle	No	Other	0	1	$300	Daylight	Dry
341	87739718	10/10/2019	Thursday	8:35 PM	-	-	Vehicle	No	Left Turn	0	2	$8,500	Dark - Lighted	Wet
342	87739805	8/16/2019	Friday	4:01 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
343	87738641	4/27/2019	Saturday	5:45 PM	-	-	Vehicle	Yes	Rear End	0	0	$1,000	Daylight	Dry
344	87739549	4/12/2019	Friday	2:43 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
345	87738517	3/19/2019	Tuesday	12:02 AM	-	-	Vehicle	No	Rear End	0	10	$47,000	Dark - Lighted	Dry
346	24032459	8/4/2020	Tuesday	11:12 AM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Wet
347	24032423	7/21/2020	Tuesday	6:40 PM	-	-	Vehicle	No	Rear End	0	1	$5,050	Daylight	Dry
348	24032256	6/19/2020	Friday	8:10 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Dusk	Wet
349	87740693	1/24/2020	Friday	4:52 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
350	24032109	6/5/2020	Friday	1:20 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
351	24032228	6/19/2020	Friday	5:26 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
352	24032529	10/22/2020	Thursday	10:35 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
353	24032226	6/18/2020	Thursday	11:47 AM	-	-	Vehicle	No	Rear End	0	0	$1,050	Daylight	Dry
354	89398380	3/2/2021	Tuesday	4:42 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Dawn	Dry
355	89399381	12/16/2021	Thursday	1:23 PM	-	-	Vehicle	No	Off Road	0	0	$5,000	Daylight	Dry
356	24032572	2/25/2021	Thursday	5:20 PM	-	-	Vehicle	No	Rear End	0	1	$600	Daylight	Dry
357	24032069	10/2/2020	Friday	10:53 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
358	89398840	7/24/2021	Saturday	6:37 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
359	87739634	6/6/2019	Thursday	11:56 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
360	87740049	8/1/2019	Thursday	2:16 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Dry
361	87740468	11/24/2019	Sunday	5:45 PM	-	-	Vehicle	No	Other	0	0	$750	Daylight	Dry
362	87740372	11/26/2019	Tuesday	12:31 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
363	24032584	9/24/2020	Thursday	2:30 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
364	87740078	3/7/2020	Saturday	11:10 PM	-	-	Vehicle	No	Angle	0	1	$10,000	Dark - Lighted	Dry
365	87740575	5/16/2020	Saturday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
366	87741236	5/18/2020	Monday	12:19 PM	-	-	Vehicle	No	Rear End	0	1	$0	Daylight	Dry
367	24032288	8/21/2020	Friday	11:20 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
368	24032930	12/19/2020	Saturday	3:19 PM	-	-	Vehicle	No	Unknown	0	0	$20,000	Daylight	Dry
369	89398805	7/16/2021	Friday	3:14 AM	-	-	Vehicle	No	Off Road	0	1	$75,200	Dark - Lighted	Dry
370	87740791	12/12/2019	Thursday	8:46 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Wet
371	87740222	12/5/2019	Thursday	3:51 PM	-	-	Vehicle	No	Sideswipe	0	0	$12,000	Daylight	Dry
372	87739403	5/3/2019	Friday	9:51 PM	-	-	Vehicle	No	Rear End	0	0	$7,000	Dark - Not Lighted	Wet
373	87740583	11/7/2019	Thursday	7:23 AM	-	-	Vehicle	No	Rear End	0	3	$5,000	Daylight	Dry
374	24032382	8/16/2020	Sunday	5:30 PM	-	-	Vehicle	No	Rear End	0	1	$400	Daylight	Dry
375	24032649	9/15/2020	Tuesday	1:36 PM	-	-	Vehicle	No	Left Turn	0	1	$7,000	Daylight	Dry
376	89399171	10/22/2021	Friday	5:23 PM	-	-	Vehicle	No	Left Turn	0	2	$2,000	Daylight	Dry
377	24033238	1/1/2021	Friday	10:00 AM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
378	87738523	1/31/2019	Thursday	10:56 AM	-	-	Vehicle	No	Rear End	0	0	$25,000	Daylight	Dry
379	87740393	10/2/2019	Wednesday	10:44 AM	-	-	Vehicle	No	Rear End	0	0	$9,000	Daylight	Dry
380	87740299	9/20/2019	Friday	8:03 AM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
381	87738673	4/11/2019	Thursday	5:15 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,800	Daylight	Dry
382	87739608	6/5/2019	Wednesday	5:07 PM	-	-	Pedestrian	No	Other	0	1	$0	Daylight	Dry
383	24032555	12/17/2020	Thursday	7:26 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Dark - Lighted	Dry
384	24032477	8/7/2020	Friday	3:08 AM	-	-	Vehicle	No	Other	0	3	$20,700	Dark - Lighted	Wet
385	89398420	3/22/2021	Monday	3:25 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
386	89399245	11/10/2021	Wednesday	4:10 PM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
387	89398443	3/29/2021	Monday	3:47 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,500	Daylight	Dry
388	89398889	8/6/2021	Friday	8:09 PM	-	-	Vehicle	No	Off Road	0	0	$2,000	Dusk	Wet
Total										2	215	$2,220,649		

CRASH DESCRIPTION

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	TOTAL INJURIES	PROPERTY DAMAGE	PED/BIKE/ MOTORCYCLE
388	2	151	215	380	20
	1%	39%	55%	98%	5%

LIGHTING CONDITION

DAYLIGHT	DARK - LIGHTED	DARK - NOT LIGHTED	DUSK	DAWN
311	58	11	6	2
80%	15%	3%	2%	1%

ROADWAY CONDITIONS

WET	DRY
37	351
10%	90%

CRASH TYPE

ANGLE	LEFT TURN	RIGHT TURN	REAR END	SIDE SWIPE	HEAD ON
20	26	7	214	54	2
5%	7%	2%	55%	14%	1%

CRASH TYPE

BACKED INTO	PARKED CAR	COLL. W/ MV ON ROAD	PEDESTRIAN	BIKE	BIKE IN BIKE LANE	MOTORCYCLE/ MOPED	TRAIN	ANIMAL	HIT SIGN/ SIGN POST	HIT GUARDRAIL	HIT UTILITY POLE	HIT FENCE	HIT CONC BARRIER WALL
0	0	0	0	8	0	0	0	0	0	0	0	0	0
0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

HIT BR/PIER/ ABUTT	HIT TREE/ SHRUB	HIT CONST SIGN/BARR/ BR/ PIER	TRAFFIC GATE	CRASH ATTENUATOR	FIXED OBJECT
0	0	0	0	0	0
0%	0%	0%	0%	0%	0%

CRASH TYPE

OTHER FIXED OBJECT	MOVEABLE OBJECT	RAN INTO DITCH/ CULVERT	RAN OFF ROAD	OVERTURNED	OCCUPANT FELL FROM VEHICLE	TRACTOR TRAILER JACKKNIFED	FIRE	EXPLOSION	DOWNHILL RUNAWAY	CARGO LOSS OR SHIFT	SEPARATION OF UNITS	MEDIAN CROSSOVER	ALL OTHER
0	0	0	8	1	0	0	0	0	0	0	0	0	48
0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Nova Road to Spruce Creek Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
1	87739065	1/10/2019	Thursday	8:53 AM	-	-	Vehicle	No	Left Turn	0	0	$9,000	Daylight	Dry
2	87739322	2/6/2019	Wednesday	12:43 PM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
3	89398426	3/19/2021	Friday	3:15 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
4	87739040	1/15/2019	Tuesday	10:12 AM	-	-	Vehicle	No	Angle	0	2	$15,500	Daylight	Dry
5	87740580	12/3/2019	Tuesday	1:51 PM	-	-	Vehicle	No	Unknown	0	0	$2,600	Daylight	Dry
6	87740891	1/13/2020	Monday	1:35 PM	-	-	Vehicle	No	Angle	0	0	$5,000	Daylight	Dry
7	87740115	8/12/2019	Monday	4:50 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
8	87740146	8/26/2019	Monday	8:23 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
9	24032328	7/8/2020	Wednesday	10:59 AM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
10	87740845	4/25/2020	Saturday	1:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
11	24032248	9/14/2020	Monday	5:32 PM	-	-	Vehicle	No	Other	0	0	$6,000	Daylight	Dry
12	24032865	11/9/2020	Monday	10:54 AM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Wet
13	24032137	6/11/2020	Thursday	9:52 AM	-	-	Vehicle	No	Unknown	0	0	$10,000	Daylight	Dry
14	87741114	3/3/2020	Tuesday	11:00 AM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry
15	89398710	6/14/2021	Monday	6:25 PM	-	-	Vehicle	No	Rear End	0	1	$10,500	Daylight	Dry
16	89398457	4/1/2021	Thursday	3:54 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
17	87739364	3/29/2019	Friday	1:15 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
18	89399271	11/16/2021	Tuesday	2:51 PM	-	-	Vehicle	No	Off Road	0	0	$7,500	Daylight	Dry
19	87740732	11/25/2019	Monday	6:28 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Dark - Unknown Lighting	Dry
20	24032100	6/4/2020	Thursday	10:55 AM	-	-	Vehicle	No	Left Turn	0	0	$5,000	Daylight	Wet
21	87739419	4/26/2019	Friday	5:28 PM	-	-	Vehicle	No	Rear End	0	0	$10,000	Daylight	Dry
22	86752409	1/30/2019	Wednesday	8:50 AM	-	-	Vehicle	No	Head On	0	1	$6,000	Daylight	Dry
23	87739132	2/1/2019	Friday	6:45 PM	-	-	Vehicle	Yes	Rear End	0	0	$1,500	Dark - Not Lighted	Dry
24	87740379	10/1/2019	Tuesday	1:15 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
25	24032413	11/4/2020	Wednesday	8:42 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
26	24032353	7/6/2020	Monday	10:39 PM	-	-	Vehicle	No	Other	0	0	$2,000	Dark - Not Lighted	Wet
27	89398754	6/24/2021	Thursday	1:55 PM	-	-	Vehicle	No	Left Turn	0	1	$10,500	Daylight	Dry
28	87738925	7/16/2019	Tuesday	4:59 PM	-	-	Vehicle	No	Right Turn	0	0	$5,000	Daylight	Dry
29	87740817	11/28/2019	Thursday	5:20 AM	-	-	Vehicle	No	Angle	0	1	$16,300	Dark - Lighted	Wet
30	87740260	8/26/2019	Monday	8:35 PM	-	-	Vehicle	No	Rear End	0	0	$900	Dark - Lighted	Dry
31	87740602	10/25/2019	Friday	9:32 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
32	87740196	9/9/2019	Monday	12:30 PM	-	-	Vehicle	No	Rear End	0	1	$350	Daylight	Dry
33	87739375	8/14/2019	Wednesday	4:32 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Wet
34	87740368	11/21/2019	Thursday	4:18 PM	-	-	Vehicle	No	Rear End	0	1	$100	Daylight	Dry
35	87738980	3/14/2019	Thursday	7:55 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dark - Lighted	Dry
36	24032797	12/22/2020	Tuesday	8:35 PM	-	-	Vehicle	No	Left Turn	0	2	$6,000	Dark - Lighted	Dry
37	24032389	8/8/2020	Saturday	3:00 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Dry
38	24032940	11/11/2020	Wednesday	3:39 PM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
39	24032253	6/24/2020	Wednesday	12:39 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
40	24032172	6/12/2020	Friday	1:14 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Dry
41	87741147	2/27/2020	Thursday	10:19 AM	-	-	Vehicle	No	Rear End	0	1	$2,500	Daylight	Dry
42	89399102	10/4/2021	Monday	8:45 PM	-	-	Vehicle	No	Rear End	0	0	$400	Dark - Lighted	Dry
43	24032521	4/7/2021	Wednesday	9:28 PM	-	-	Vehicle	No	Rear End	0	0	$15,000	Dark - Lighted	Dry
44	89398771	7/1/2021	Thursday	7:10 AM	-	-	Vehicle	No	Rear End	0	1	$200	Daylight	Dry
45	89398736	6/22/2021	Tuesday	2:01 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
46	24033382	2/18/2021	Thursday	8:21 AM	-	-	Vehicle	No	Rear End	0	0	$6,000	Daylight	Wet
47	24033321	1/13/2021	Wednesday	1:41 PM	-	-	Vehicle	No	Rear End	0	0	$8,000	Daylight	Dry
48	87740348	10/10/2019	Thursday	8:47 AM	-	-	Vehicle	No	Rear End	0	1	$3,000	Daylight	Wet
49	89399179	10/25/2021	Monday	1:36 PM	-	-	Vehicle	No	Other	0	0	$1,000	Daylight	Dry
50	87738537	6/21/2019	Friday	12:30 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
51	87739639	6/10/2019	Monday	10:00 AM	-	-	Vehicle	No	Off Road	0	1	$10,000	Daylight	Dry
52	87739286	2/18/2019	Monday	3:16 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
53	87740641	11/14/2019	Thursday	10:23 AM	-	-	Vehicle	No	Rear End	0	0	$2,600	Daylight	Dry
54	24032625	9/14/2020	Monday	10:23 AM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Wet
55	24032294	6/29/2020	Monday	12:07 PM	-	-	Vehicle	No	Rear End	0	0	$5,050	Daylight	Dry
56	87741360	3/22/2020	Sunday	1:39 PM	-	-	Vehicle	No	Rear End	0	2	$6,500	Daylight	Dry
57	89399175	10/19/2021	Tuesday	8:59 PM	-	-	Vehicle	No	Other	0	2	$40,000	Dark - Lighted	Dry
58	87738624	2/10/2019	Sunday	10:27 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
59	87740028	7/7/2019	Sunday	10:59 PM	-	-	Bicycle	No	Other	0	1	$0	Dark - Lighted	Dry
60	87740180	8/29/2019	Thursday	4:13 PM	-	-	Vehicle	No	Sideswipe	0	0	$9,000	Daylight	Dry
61	87740010	9/1/2019	Sunday	3:18 PM	-	-	Vehicle	No	Rear End	0	1	$1,600	Daylight	Dry
62	24032060	10/3/2020	Saturday	3:24 PM	-	-	Vehicle	No	Rear End	0	0	$1,200	Daylight	Wet
63	24032218	9/10/2020	Thursday	6:10 PM	-	-	Vehicle	No	Unknown	0	0	$1,500	Daylight	Dry
64	87741249	6/1/2020	Monday	11:58 AM	-	-	Vehicle	No	Rear End	0	1	$6,500	Daylight	Dry
65	24032663	9/15/2020	Tuesday	2:56 PM	-	-	Vehicle	No	Rear End	0	1	$2,000	Daylight	Dry
66	24032741	10/9/2020	Friday	12:02 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
67	24032305	6/30/2020	Tuesday	12:57 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Daylight	Dry
68	24032088	6/3/2020	Wednesday	8:59 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
69	89398559	5/6/2021	Thursday	11:01 AM	-	-	Vehicle	No	Rear End	0	0	$5,000	Daylight	Dry
70	89398804	7/14/2021	Wednesday	10:45 AM	-	-	Vehicle	No	Sideswipe	0	0	$2,400	Daylight	Dry
71	24032515	3/26/2021	Friday	9:40 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Dark - Lighted	Dry
72	24033297	3/19/2021	Friday	7:20 PM	-	-	Vehicle	No	Rear End	0	1	$3,000	Daylight	Dry
73	89398395	3/8/2021	Monday	3:16 PM	-	-	Vehicle	No	Rear End	0	0	$500	Daylight	Dry
74	89399205	10/27/2021	Wednesday	10:43 AM	-	-	Vehicle	No	Sideswipe	0	0	$0	Daylight	Dry
75	89398512	4/25/2021	Sunday	9:50 AM	-	-	Vehicle	No	Rear End	0	0	$5,300	Daylight	Wet
76	89399469	12/31/2021	Friday	4:05 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
77	89398955	8/26/2021	Thursday	5:52 PM	-	-	Vehicle	No	Off Road	0	3	$28,500	Daylight	Dry
78	87510084	2/3/2019	Sunday	3:53 PM	-	-	Vehicle	Yes	Other	0	0	$1,250	Daylight	Wet
79	87738640	3/31/2019	Sunday	4:48 PM	-	-	Vehicle	No	Angle	0	4	$9,000	Daylight	Dry
80	87741306	3/9/2020	Monday	9:20 AM	-	-	Vehicle	No	Sideswipe	0	1	$7,000	Daylight	Dry
81	24032487	1/9/2021	Saturday	11:30 AM	-	-	Vehicle	No	Left Turn	0	1	$4,000	Daylight	Dry
82	89398481	4/10/2021	Saturday	1:40 PM	-	-	Vehicle	No	Other	0	0	$2,000	Daylight	Dry
83	89399229	11/7/2021	Sunday	12:50 PM	-	-	Vehicle	No	Unknown	0	0	$2,000	Daylight	Dry
84	87739929	12/9/2019	Monday	9:08 AM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Dry
85	87739865	7/11/2019	Thursday	4:34 PM	-	-	Vehicle	No	Rear End	0	0	$0	Daylight	Wet
86	89399292	11/22/2021	Monday	10:04 AM	-	-	Vehicle	No	Right Turn	0	1	$5,000	Daylight	Wet
87	87510181	4/7/2019	Sunday	11:15 AM	-	-	Vehicle	No	Rear End	0	1	$600	Daylight	Dry
88	87739759	8/24/2019	Saturday	10:45 PM	-	-	Vehicle	No	Rear End	0	0	$10,000	Dark - Lighted	Dry
89	87740177	12/21/2019	Saturday	7:55 PM	-	-	Bicycle	No	Bicycle	0	1	$2,800	Dark - Lighted	Wet
90	87740342	10/1/2019	Tuesday	12:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,500	Daylight	Dry
91	87738949	7/27/2019	Saturday	3:45 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
92	87740559	11/15/2019	Friday	3:51 PM	-	-	Vehicle	No	Sideswipe	0	0	$4,000	Daylight	Dry
93	87739706	5/6/2019	Monday	12:28 PM	-	-	Vehicle	No	Rear End	0	3	$8,500	Daylight	Dry
94	87739568	5/7/2019	Tuesday	12:58 PM	-	-	Vehicle	No	Sideswipe	0	0	$400	Daylight	Dry
95	87739378	4/9/2019	Tuesday	11:40 AM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
96	24032659	10/14/2020	Wednesday	9:18 PM	-	-	Bicycle	No	Bicycle	0	1	$1,000	Dark - Lighted	Dry
97	24032065	10/4/2020	Sunday	8:28 PM	-	-	Pedestrian	No	Pedestrian	0	1	$5,000	Dark - Lighted	Dry
98	24033096	12/2/2020	Wednesday	5:49 AM	-	-	Vehicle	No	Left Turn	0	2	$40,000	Dark - Lighted	Dry
99	24032455	8/25/2020	Tuesday	6:30 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Wet
100	87741307	3/13/2020	Friday	11:00 AM	-	-	Vehicle	No	Sideswipe	0	0	$1,500	Daylight	Dry
101	24032123	6/9/2020	Tuesday	12:22 PM	-	-	Vehicle	No	Rear End	0	0	$2,100	Daylight	Dry
102	24032230	6/22/2020	Monday	10:48 AM	-	-	Vehicle	No	Left Turn	0	0	$4,800	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Nova Road to Spruce Creek Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
103	89398683	6/2/2021	Wednesday	1:12 AM	-	-	Vehicle	No	Angle	0	6	$13,000	Dark - Lighted	Dry
104	89398560	5/6/2021	Thursday	3:35 PM	-	-	Vehicle	No	Rear End	0	2	$5,000	Daylight	Dry
105	89399301	11/25/2021	Thursday	8:51 AM	-	-	Vehicle	No	Rear End	0	4	$6,000	Daylight	Dry
106	24032802	2/2/2021	Tuesday	6:50 PM	-	-	Vehicle	No	Left Turn	0	0	$5,500	Dark - Lighted	Dry
107	89399438	12/17/2021	Friday	10:30 AM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
108	89399430	12/26/2021	Sunday	2:42 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
109	87740142	10/8/2019	Tuesday	2:13 PM	-	-	Vehicle	No	Angle	0	1	$10,000	Daylight	Wet
110	24032038	10/1/2020	Thursday	12:06 PM	-	-	Vehicle	No	Rear End	0	0	$1,500	Daylight	Dry
111	87740417	10/21/2019	Monday	11:27 AM	-	-	Vehicle	No	Other	0	0	$4,000	Daylight	Dry
112	87739674	6/17/2019	Monday	8:24 AM	-	-	Vehicle	No	Off Road	0	0	$7,000	Daylight	Dry
113	89399210	11/2/2021	Tuesday	3:49 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
114	24033224	12/30/2020	Wednesday	8:09 AM	-	-	Vehicle	No	Unknown	0	0	$3,000	Daylight	Dry
115	89399025	9/14/2021	Tuesday	1:47 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Daylight	Dry
116	87739393	2/27/2019	Wednesday	4:11 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
117	87739633	6/5/2019	Wednesday	4:39 PM	-	-	Vehicle	No	Rear End	0	0	$3,500	Daylight	Dry
118	89398784	7/8/2021	Thursday	8:26 PM	-	-	Vehicle	No	Rear End	0	1	$300	Dusk	Dry
119	89398924	1/17/2021	Sunday	3:32 PM	-	-	Vehicle	No	Unknown	0	0	$1,500	Daylight	Dry
120	87739562	10/11/2019	Friday	12:30 PM	-	-	Vehicle	No	Sideswipe	0	1	$3,000	Daylight	Dry
121	89398447	3/31/2021	Wednesday	10:53 AM	-	-	Vehicle	No	Angle	0	1	$7,000	Daylight	Dry
122	87740384	10/3/2019	Thursday	7:37 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
123	87740214	9/11/2019	Wednesday	10:39 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
124	87510233	5/11/2019	Saturday	8:36 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Dark - Not Lighted	Dry
125	87739462	3/20/2019	Wednesday	11:28 AM	-	-	Vehicle	No	Rear End	0	1	$10,000	Daylight	Dry
126	87739007	1/12/2019	Saturday	1:36 PM	-	-	Vehicle	No	Rear End	0	0	$7,500	Daylight	Dry
127	87739052	6/19/2019	Wednesday	12:23 PM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
128	87739199	3/11/2019	Monday	8:35 PM	-	-	Vehicle	No	Other	0	1	$2,000	Dark - Lighted	Dry
129	87740201	8/29/2019	Thursday	1:28 PM	-	-	Vehicle	No	Angle	0	0	$6,000	Daylight	Dry
130	87739049	3/2/2019	Saturday	3:27 PM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
131	24032392	9/6/2020	Sunday	6:20 PM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
132	87741312	5/19/2020	Tuesday	10:08 AM	-	-	Vehicle	No	Left Turn	0	2	$20,000	Daylight	Dry
133	24033187	12/24/2020	Thursday	8:35 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Dark - Lighted	Wet
134	24032519	8/28/2020	Friday	8:53 PM	-	-	Vehicle	No	Rear End	0	2	$3,500	Dark - Lighted	Dry
135	24032907	11/11/2020	Wednesday	11:23 AM	-	-	Vehicle	No	Head On	0	1	$5,500	Daylight	Dry
136	87740957	1/16/2020	Thursday	1:14 PM	-	-	Vehicle	No	Sideswipe	0	0	$6,000	Daylight	Dry
137	24032414	7/21/2020	Tuesday	7:00 PM	-	-	Vehicle	No	Rear End	0	0	$1,800	Daylight	Dry
138	87740301	2/9/2020	Sunday	6:38 PM	-	-	Vehicle	No	Rear End	0	1	$11,000	Dark - Lighted	Dry
139	24032326	7/21/2020	Tuesday	11:36 AM	-	-	Vehicle	No	Sideswipe	0	0	$3,000	Daylight	Dry
140	24032143	7/23/2020	Thursday	2:46 PM	-	-	Vehicle	No	Unknown	0	0	$2,500	Daylight	Dry
141	89399420	12/27/2021	Monday	1:48 PM	-	-	Vehicle	No	Right Turn	0	0	$11,000	Daylight	Dry
142	89399428	12/28/2021	Tuesday	5:50 AM	-	-	Vehicle	No	Angle	0	0	$700	Dark - Lighted	Dry
143	89398627	5/24/2021	Monday	3:33 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
144	87740376	12/2/2019	Monday	12:10 PM	-	-	Vehicle	No	Left Turn	0	0	$5,000	Daylight	Dry
145	87738928	1/7/2019	Monday	12:05 PM	-	-	Vehicle	No	Rear End	0	1	$7,500	Daylight	Dry
146	87738958	7/12/2019	Friday	2:53 PM	-	-	Vehicle	No	Rollover	0	1	$0	Daylight	Dry
147	87740650	12/16/2019	Monday	12:16 PM	-	-	Vehicle	No	Angle	0	0	$5,000	Daylight	Dry
148	24032778	10/22/2020	Thursday	3:35 PM	-	-	Vehicle	No	Angle	0	0	$6,000	Daylight	Dry
149	87739988	9/5/2019	Thursday	4:17 PM	-	-	Vehicle	Yes	Rear End	0	1	$2,000	Daylight	Dry
150	89399395	12/21/2021	Tuesday	11:16 AM	-	-	Vehicle	No	Off Road	0	0	$6,500	Daylight	Wet
151	87738929	1/8/2019	Tuesday	11:49 AM	-	-	Vehicle	No	Sideswipe	0	0	$250	Daylight	Dry
152	89398868	7/29/2021	Thursday	11:18 AM	-	-	Vehicle	No	Left Turn	0	0	$20,000	Daylight	Dry
153	89399278	11/18/2021	Thursday	9:15 AM	-	-	Vehicle	No	Rear End	0	0	$4,000	Daylight	Dry
154	87739084	2/27/2019	Wednesday	11:00 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
155	87739894	9/5/2019	Thursday	4:45 PM	-	-	Vehicle	No	Rear End	0	1	$8,000	Daylight	Dry
156	87739713	12/30/2019	Monday	6:00 PM	-	-	Vehicle	No	Rear End	0	1	$4,000	Dawn	Dry
157	87739878	7/11/2019	Thursday	2:57 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
158	87739153	1/25/2019	Friday	9:48 AM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
159	24032034	10/5/2020	Monday	2:45 PM	-	-	Vehicle	No	Rear End	0	0	$101	Daylight	Dry
160	24032754	11/21/2020	Saturday	10:40 AM	-	-	Vehicle	No	Rear End	0	0	$2,500	Daylight	Dry
161	24032457	8/11/2020	Tuesday	12:04 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
162	87740895	1/29/2020	Wednesday	3:51 PM	-	-	Vehicle	No	Right Turn	0	1	$7,500	Daylight	Dry
163	24032079	2/1/2021	Monday	9:33 AM	-	-	Vehicle	No	Angle	0	3	$10,000	Daylight	Dry
164	24033022	1/3/2021	Sunday	7:59 PM	-	-	Vehicle	No	Rear End	0	4	$7,000	Dark - Lighted	Dry
165	89398416	3/19/2021	Friday	10:36 AM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
166	24033231	1/4/2021	Monday	1:40 PM	-	-	Vehicle	No	Rear End	0	1	$1,500	Daylight	Dry
167	24033395	1/21/2021	Thursday	6:46 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Dark - Lighted	Dry
168	24032573	10/28/2020	Wednesday	3:07 PM	-	-	Vehicle	No	Sideswipe	0	0	$1,000	Daylight	Dry
169	87739064	1/8/2019	Tuesday	12:04 PM	-	-	Vehicle	No	Other	0	0	$8,000	Daylight	Dry
170	89399264	11/15/2021	Monday	6:42 PM	-	-	Vehicle	No	Angle	0	1	$20,000	Dark - Lighted	Dry
171	89399165	10/20/2021	Wednesday	1:45 PM	-	-	Vehicle	No	Other	0	0	$3,000	Daylight	Dry
172	87741028	2/13/2020	Thursday	11:55 AM	-	-	Vehicle	No	Angle	0	0	$2,000	Daylight	Dry
173	89398470	1/6/2021	Wednesday	12:15 PM	-	-	Vehicle	No	Angle	0	1	$6,000	Daylight	Dry
174	89398821	7/15/2021	Thursday	9:06 AM	-	-	Vehicle	No	Sideswipe	0	0	$8,000	Daylight	Dry
175	87739303	2/7/2019	Thursday	12:45 PM	-	-	Vehicle	No	Off Road	0	0	$5,250	Daylight	Dry
176	87738642	5/3/2019	Friday	11:34 PM	-	-	Vehicle	No	Left Turn	0	1	$4,000	Dark - Lighted	Dry
177	87740079	7/27/2019	Saturday	9:15 PM	-	-	Vehicle	No	Left Turn	0	2	$45,000	Dark - Lighted	Dry
178	24032563	8/27/2020	Thursday	8:20 AM	-	-	Vehicle	No	Rear End	0	0	$2,000	Daylight	Dry
179	24032527	8/27/2020	Thursday	11:42 AM	-	-	Vehicle	No	Left Turn	0	0	$4,000	Daylight	Dry
180	24032767	10/14/2020	Wednesday	1:06 PM	-	-	Vehicle	No	Angle	0	0	$21,100	Daylight	Dry
181	88345272	6/6/2021	Sunday	3:20 PM	-	-	Vehicle	No	Angle	0	0	$4,500	Daylight	Dry
182	24032876	4/1/2021	Thursday	5:25 PM	-	-	Vehicle	No	Sideswipe	0	0	$200	Daylight	Dry
183	24033442	3/7/2021	Sunday	1:16 PM	-	-	Vehicle	No	Unknown	0	1	$10,000	Daylight	Dry
184	89398806	7/16/2021	Friday	2:54 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
185	89398783	7/7/2021	Wednesday	3:15 PM	-	-	Vehicle	No	Unknown	0	0	$6,000	Daylight	Dry

CRASH SUMMARY

MAJOR ROUTE: Dunlawton Avenue **COUNTY: Volusia**

INTERSECTING ROUTE: Nova Road to Spruce Creek Road **CITY: Port Orange**

STUDY PERIOD: 1/1/2019 to 12/31/2021 **ENGINEERS: VHB**

CRASH REF. NO.	HSMV NO.	DATE	DAY	TIME	DOB	AGE	PED /BIKE /MOTORCYCLE	ALCOHOL/ DRUGS	CRASH TYPE	FATAL	INJURY	PROPERTY DAMAGE	Lighting Conditions	PAVEMENT CONDITIONS
186	89398557	5/2/2021	Sunday	9:16 PM	-	-	Vehicle	No	Rear End	0	0	$1,300	Dark - Lighted	Dry
187	87740815	12/17/2019	Tuesday	12:02 PM	-	-	Vehicle	No	Unknown	0	1	$5,000	Daylight	Dry
188	89398531	4/29/2021	Thursday	12:22 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,500	Daylight	Dry
189	89399010	9/10/2021	Friday	4:55 PM	-	-	Vehicle	No	Sideswipe	0	0	$200	Daylight	Dry
190	88380165	3/5/2021	Friday	12:05 PM	-	-	Vehicle	No	Left Turn	0	3	$9,000	Daylight	Dry
191	89398597	5/12/2021	Wednesday	11:15 AM	-	-	Vehicle	No	Angle	0	1	$8,000	Daylight	Dry
192	87739062	1/9/2019	Wednesday	3:17 PM	-	-	Vehicle	No	Sideswipe	0	0	$7,000	Daylight	Dry
193	87740893	1/15/2020	Wednesday	11:20 AM	-	-	Vehicle	No	Other	0	0	$750	Daylight	Dry
194	24032775	10/15/2020	Thursday	10:29 PM	-	-	Vehicle	No	Rollover	0	0	$25,000	Dark - Lighted	Dry
195	87739385	9/12/2019	Thursday	3:18 PM	-	-	Vehicle	No	Other	0	1	$300	Daylight	Dry
196	87739718	10/10/2019	Thursday	8:35 PM	-	-	Vehicle	No	Left Turn	0	2	$8,500	Dark - Lighted	Wet
197	87739805	8/16/2019	Friday	4:01 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
198	87738641	4/27/2019	Saturday	5:45 PM	-	-	Vehicle	Yes	Rear End	0	0	$1,000	Daylight	Dry
199	87739549	4/12/2019	Friday	2:43 PM	-	-	Vehicle	No	Sideswipe	0	0	$10,000	Daylight	Dry
200	87738517	3/19/2019	Tuesday	12:02 AM	-	-	Vehicle	No	Rear End	0	10	$47,000	Dark - Lighted	Dry
201	24032459	8/4/2020	Tuesday	11:12 AM	-	-	Vehicle	No	Rear End	0	1	$1,000	Daylight	Wet
202	24032423	7/21/2020	Tuesday	6:40 PM	-	-	Vehicle	No	Rear End	0	1	$5,050	Daylight	Dry
203	24032256	6/19/2020	Friday	8:10 PM	-	-	Vehicle	No	Sideswipe	0	0	$2,000	Dusk	Wet
204	87740693	1/24/2020	Friday	4:52 PM	-	-	Vehicle	No	Rear End	0	0	$1,000	Daylight	Dry
205	24032109	6/5/2020	Friday	1:20 PM	-	-	Vehicle	No	Rear End	0	0	$3,000	Daylight	Dry
206	24032228	6/19/2020	Friday	5:26 PM	-	-	Vehicle	No	Rear End	0	1	$5,000	Daylight	Dry
207	24032529	10/22/2020	Thursday	10:35 AM	-	-	Vehicle	No	Sideswipe	0	0	$5,000	Daylight	Dry
208	24032226	6/18/2020	Thursday	11:47 AM	-	-	Vehicle	No	Rear End	0	0	$1,050	Daylight	Dry
209	89398380	3/2/2021	Tuesday	4:42 PM	-	-	Vehicle	No	Rear End	0	1	$1,000	Dawn	Dry
210	89399381	12/16/2021	Thursday	1:23 PM	-	-	Vehicle	No	Off Road	0	0	$5,000	Daylight	Dry
211	24032572	2/25/2021	Thursday	5:20 PM	-	-	Vehicle	No	Rear End	0	1	$600	Daylight	Dry
212	89398462	4/5/2021	Monday	4:20 PM	-	-	Vehicle	No	Unknown	0	0	$3,000	Daylight	Dry
213	89399362	12/13/2021	Monday	4:37 PM	-	-	Vehicle	No	Other	0	0	$2,500	Daylight	Dry
Total										0	120	$1,148,001		

CRASH DESCRIPTION

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	TOTAL INJURIES	PROPERTY DAMAGE	PED/BIKE/ MOTORCYCLE		LIGHTING CONDITION					ROADWAY CONDITIONS	
							DAYLIGHT	DARK - LIGHTED	DARK - NOT LIGHTED	DUSK	DAWN	WET	DRY
213	0	79	120	209	4		173	32	3	2	2	21	192
	0%	37%	56%	98%	2%		81%	15%	1%	1%	1%	10%	90%

CRASH TYPE

BACKED INTO	PARKED CAR	COLL. W/ MV ON ROAD	PEDESTRIAN	BIKE	BIKE IN BIKE LANE	MOTORCYCLE/ MOPED	TRAIN	ANIMAL	HIT SIGN/ SIGN POST	HIT GUARDRAIL	HIT UTILITY POLE	HIT FENCE	HIT CONC BARRIER WALL
0	0	0	0	2	0	0	0	0	0	0	0	0	0
0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CRASH TYPE

OTHER FIXED OBJECT	MOVEABLE OBJECT	RAN INTO DITCH/ CULVERT	RAN OFF ROAD	OVERTURNED	OCCUPANT FELL FROM VEHICLE	TRACTOR TRAILER JACKKNIFED	FIRE	EXPLOSION	DOWNHILL RUNAWAY	CARGO LOSS OR SHIFT	SEPARATION OF UNITS	MEDIAN CROSSOVER	ALL OTHER
0	0	0	7	2	0	0	0	0	0	0	0	0	28
0%	0%	0%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	13%

CRASH TYPE

ANGLE	LEFT TURN	RIGHT TURN	REAR END	SIDE SWIPE	HEAD ON
18	16	4	101	33	2
8%	8%	2%	47%	15%	1%

CRASH TYPE

HIT BR/PIER/ ABUTT	HIT TREE/ SHRUB	HIT CONST SIGN/BARR/ BR/ PIER	TRAFFIC GATE	CRASH ATTENUATOR	FIXED OBJECT
0	0	0	0	0	0
0%	0%	0%	0%	0%	0%

Appendix B: TAC (27) Warrants

TAC Warrant Evaluation: Dunlawton Avenue from Summer Trees Road to Williamson Boulevard

Form 750-020-20
TRAFFIC ENGINEERING
10/15

State of Florida Department of Transportation

LIGHTING GEOMETRIC AND OPERATIONAL FACTORS

Item No.	Classification Factor	Rating Factor "R" 1	2	3	4	5	Weight "W"	Enter "R" Here	Score "R"x"W"	
	Geometric Factors (See Note 6)									
1	Number of Lanes	≤4	5	6	7	≥8	0.15	1	0.15	
2	Lane Width (ft.)	>11.8	11.2 to 11.8	10.5 to 11.2	9.8 to 10.5	<9.8	0.35	3	1.05	
3	Median Openings/mile	<4 or 1-way	4 to 8	8 to 12	12 to 15	>15 or No Median	1.40	2	2.8	
4	Driveways and Entrances/mile	<32	32 to 64	64 to 97	97 to 129	>129	1.40	1	1.4	
5	Horizontal Curve Radius (ft.)	>1969	1476 to 1969	738 to 1476	574 to 738	<574	5.90	1	5.9	
6	Vertical Grades (%)	<3	3 to 4	4 to 5	5 to 7	>7	0.35	1	0.35	
7	Sight Distance (ft.)	>689	492 to 689	295 to 492	197 to 295	<197	0.15	1	0.15	
8	Parking	Prohibited	Loading	Off Peak	One Side	Both Sides	0.10	1	0.1	
								Subtotal Geometric Factors	11.9	G
	Operational Factors									
9	Signalized Intersections (%)	80 to 100	70 to 80	60 to 70	50 to 60	0 to 50	0.15	3	0.45	
10	Left Turn Lane	All Major Intersections or 1-way	Substantial Number of Major Intersections	Most Major Intersections	Half of the Intersections	Infrequent Number or TWTL (See Notes 1 & 3)	0.70	1	0.7	
11	Median Width (ft.)	> 32	20 to 32	10 to 20	4 to 10	0 to 4	0.35	1	0.35	
12	Operating or Posted Speed (mph) (See Note 5)	≤ 25	30	35	45	≥50	0.60	4	2.4	
13	Pedestrian Activity Level (See Note 2)			Low	Medium	High	3.15	4	12.6	
								Subtotal Environmental Factors	16.5	O
	Environmental Factors									
14	Percentage of Development Adjacent to Road (%) (See Note 4)	nil	nil to 30	30 to 60	60 to 90	>90	0.15	5	0.75	
15	Area Classification	Rural	Industrial	Residential	Commercial	Downtown	0.15	4	0.6	
16	Distance from Development to Roadway (ft) (See Note 4)	>200	150 to 200	100 to 150	50 to 100	<50	0.15	4	0.6	
17	Ambient (off Roadway) Lighting	Nil	Sparse	Moderate	Distracting	Intense	1.38	3	4.14	
18	Raised Curb Median	None	Continuous	At All Intersections (100%)	At Most Intersections (51% to 99%)	At Few Intersections (≤50%) (See Note 7)	0.35	3	1.05	
								Subtotal Environmental Factors	7.14	E
	Collision Factors									
19	Night-to-Day Collision Ratio	<1	1.0 to 1.2	1.2 to 1.5	1.5 to 2.0	>2.0 (See Note 1)	5.55	4	22.2	
								Subtotal Collision Factors	22.2	A

Notes:
1 Lighting Warranted
2 Pedestrian Activity Level
3 Two Way Left Turn Lane
4 Development defined as Commercial, Industrial or Residential Buildings
5 85th Percentile night speed should be used if available, otherwise posted Speed Limit shall be used
6 Worst case geometric factors for a segment of roadway shall apply
7 Also includes isolated medians (non-continuous) between intersections

G + O + E + A = Total Warranting Points	57.74	
Warranting Condition	60.00	
Difference ±	-2.26	D

TAC Warrant Evaluation: Dunlawton Avenue from Taylor Road to Clyde Morris Boulevard

Form 750-020-20
TRAFFIC ENGINEERING
10/15

State of Florida Department of Transportation

LIGHTING GEOMETRIC AND OPERATIONAL FACTORS

Item No.	Classification Factor	Rating Factor "R" 1	2	3	4	5	Weight "W"	Enter "R" Here	Score "R"x"W"	
	Geometric Factors (See Note 6)									
1	Number of Lanes	≤4	5	6	7	≥8	0.15	3	0.45	
2	Lane Width (ft.)	>11.8	11.2 to 11.8	10.5 to 11.2	9.8 to 10.5	<9.8	0.35	3	1.05	
3	Median Openings/mile	<4 or 1-way	4 to 8	8 to 12	12 to 15	>15 or No Median	1.40	2	2.8	
4	Driveways and Entrances/mile	<32	32 to 64	64 to 97	97 to 129	>129	1.40	1	1.4	
5	Horizontal Curve Radius (ft.)	>1969	1476 to 1969	738 to 1476	574 to 738	<574	5.90	1	5.9	
6	Vertical Grades (%)	<3	3 to 4	4 to 5	5 to 7	>7	0.35	1	0.35	
7	Sight Distance (ft.)	>689	492 to 689	295 to 492	197 to 295	<197	0.15	1	0.15	
8	Parking	Prohibited	Loading	Off Peak	One Side	Both Sides	0.10	1	0.1	
								Subtotal Geometric Factors	12.2	G
	Operational Factors									
9	Signalized Intersections (%)	80 to 100	70 to 80	60 to 70	50 to 60	0 to 50	0.15	1	0.15	
10	Left Turn Lane	All Major Intersections or 1-way	Substantial Number of Major Intersections	Most Major Intersections	Half of the Intersections	Infrequent Number or TWTL (See Notes 1 & 3)	0.70	1	0.7	
11	Median Width (ft.)	> 32	20 to 32	10 to 20	4 to 10	0 to 4	0.35	2	0.7	
12	Operating or Posted Speed (mph) (See Note 5)	≤ 25	30	35	45	≥50	0.60	5	3	
13	Pedestrian Activity Level (See Note 2)			Low	Medium	High	3.15	4	12.6	
								Subtotal Environmental Factors	17.15	O
	Environmental Factors									
14	Percentage of Development Adjacent to Road (%) (See Note 4)	nil	nil to 30	30 to 60	60 to 90	>90	0.15	5	0.75	
15	Area Classification	Rural	Industrial	Residential	Commercial	Downtown	0.15	4	0.6	
16	Distance from Development to Roadway (ft) (See Note 4)	>200	150 to 200	100 to 150	50 to 100	<50	0.15	4	0.6	
17	Ambient (off Roadway) Lighting	Nil	Sparse	Moderate	Distracting	Intense	1.38	4	5.52	
18	Raised Curb Median	None	Continuous	At All Intersections (100%)	At Most Intersections (51% to 99%)	At Few Intersections (≤50%) (See Note 7)	0.35	3	1.05	
								Subtotal Environmental Factors	8.52	E
	Collision Factors									
19	Night-to-Day Collision Ratio	<1	1.0 to 1.2	1.2 to 1.5	1.5 to 2.0	>2.0 (See Note 1)	5.55	2	11.1	
								Subtotal Collision Factors	11.1	A

Notes:
1 Lighting Warranted
2 Pedestrian Activity Level
3 Two Way Left Turn Lane
4 Development defined as Commercial, Industrial or Residential Buildings
5 85th Percentile night speed should be used if available, otherwise posted Speed Limit shall be used
6 Worst case geometric factors for a segment of roadway shall apply
7 Also includes isolated medians (non-continuous) between intersections

G + O + E + A = Total Warranting Points	48.97	
Warranting Condition	60.00	
Difference ±	-11.03	D

TAC Warrant Evaluation: Dunlawton Avenue from Clyde Morris Boulevard to Nova Road

Form 750-020-20
TRAFFIC ENGINEERING
10/15

State of Florida Department of Transportation

LIGHTING GEOMETRIC AND OPERATIONAL FACTORS

Item No.	Classification Factor	Rating Factor "R" 1	2	3	4	5	Weight "W"	Enter "R" Here	Score "R"x"W"	
	Geometric Factors (See Note 6)									
1	Number of Lanes	≤4	5	6	7	≥8	0.15	3	0.45	
2	Lane Width (ft.)	>11.8	11.2 to 11.8	10.5 to 11.2	9.8 to 10.5	<9.8	0.35	3	1.05	
3	Median Openings/mile	<4 or 1-way	4 to 8	8 to 12	12 to 15	>15 or No Median	1.40	2	2.8	
4	Driveways and Entrances/mile	<32	32 to 64	64 to 97	97 to 129	>129	1.40	1	1.4	
5	Horizontal Curve Radius (ft.)	>1969	1476 to 1969	738 to 1476	574 to 738	<574	5.90	2	11.8	
6	Vertical Grades (%)	<3	3 to 4	4 to 5	5 to 7	>7	0.35	1	0.35	
7	Sight Distance (ft.)	>689	492 to 689	295 to 492	197 to 295	<197	0.15	1	0.15	
8	Parking	Prohibited	Loading	Off Peak	One Side	Both Sides	0.10	1	0.1	
								Subtotal Geometric Factors	18.1	G
	Operational Factors									
9	Signalized Intersections (%)	80 to 100	70 to 80	60 to 70	50 to 60	0 to 50	0.15	1	0.15	
10	Left Turn Lane	All Major Intersections or 1-way	Substantial Number of Major Intersections	Most Major Intersections	Half of the Intersections	Infrequent Number or TWTL (See Notes 1 & 3)	0.70	1	0.7	
11	Median Width (ft.)	> 32	20 to 32	10 to 20	4 to 10	0 to 4	0.35	2	0.7	
12	Operating or Posted Speed (mph) (See Note 5)	≤ 25	30	35	45	≥50	0.60	5	3	
13	Pedestrian Activity Level (See Note 2)			Low	Medium	High	3.15	4	12.6	
								Subtotal Environmental Factors	17.15	O
	Environmental Factors									
14	Percentage of Development Adjacent to Road (%) (See Note 4)	nil	nil to 30	30 to 60	60 to 90	>90	0.15	5	0.75	
15	Area Classification	Rural	Industrial	Residential	Commercial	Downtown	0.15	4	0.6	
16	Distance from Development to Roadway (ft) (See Note 4)	>200	150 to 200	100 to 150	50 to 100	<50	0.15	4	0.6	
17	Ambient (off Roadway) Lighting	Nil	Sparse	Moderate	Distracting	Intense	1.38	3	4.14	
18	Raised Curb Median	None	Continuous	At All Intersections (100%)	At Most Intersections (51% to 99%)	At Few Intersections (≤50%) (See Note 7)	0.35	3	1.05	
								Subtotal Environmental Factors	7.14	E
	Collision Factors									
19	Night-to-Day Collision Ratio	<1	1.0 to 1.2	1.2 to 1.5	1.5 to 2.0	>2.0 (See Note 1)	5.55	4	22.2	
								Subtotal Collision Factors	22.2	A

Notes:
1 Lighting Warranted
2 Pedestrian Activity Level
3 Two Way Left Turn Lane
4 Development defined as Commercial, Industrial or Residential Buildings
5 85th Percentile night speed should be used if available, otherwise posted Speed Limit shall be used
6 Worst case geometric factors for a segment of roadway shall apply
7 Also includes isolated medians (non-continuous) between intersections

G + O + E + A = Total Warranting Points	64.59	
Warranting Condition	60.00	
Difference ±	4.59	D

TAC Warrant Evaluation: Dunlawton Avenue from Nova Road to Spruce Creek Road

Form 750-020-20
TRAFFIC ENGINEERING
10/15

State of Florida Department of Transportation

LIGHTING GEOMETRIC AND OPERATIONAL FACTORS

Item No.	Classification Factor	Rating Factor "R" 1	2	3	4	5	Weight "W"	Enter "R" Here	Score "R"x"W"	
	Geometric Factors (See Note 6)									
1	Number of Lanes	≤4	5	6	7	≥8	0.15	1	0.15	
2	Lane Width (ft.)	>11.8	11.2 to 11.8	10.5 to 11.2	9.8 to 10.5	<9.8	0.35	1	0.35	
3	Median Openings/mile	<4 or 1-way	4 to 8	8 to 12	12 to 15	>15 or No Median	1.40	2	2.8	
4	Driveways and Entrances/mile	<32	32 to 64	64 to 97	97 to 129	>129	1.40	1	1.4	
5	Horizontal Curve Radius (ft.)	>1969	1476 to 1969	738 to 1476	574 to 738	<574	5.90	1	5.9	
6	Vertical Grades (%)	<3	3 to 4	4 to 5	5 to 7	>7	0.35	1	0.35	
7	Sight Distance (ft.)	>689	492 to 689	295 to 492	197 to 295	<197	0.15	1	0.15	
8	Parking	Prohibited	Loading	Off Peak	One Side	Both Sides	0.10	1	0.1	
								Subtotal Geometric Factors	11.2	G
	Operational Factors									
9	Signalized Intersections (%)	80 to 100	70 to 80	60 to 70	50 to 60	0 to 50	0.15	5	0.75	
10	Left Turn Lane	All Major Intersections or 1-way	Substantial Number of Major Intersections	Most Major Intersections	Half of the Intersections	Infrequent Number or TWTL (See Notes 1 & 3)	0.70	1	0.7	
11	Median Width (ft.)	> 32	20 to 32	10 to 20	4 to 10	0 to 4	0.35	3	1.05	
12	Operating or Posted Speed (mph) (See Note 5)	≤ 25	30	35	45	≥50	0.60	4	2.4	
13	Pedestrian Activity Level (See Note 2)			Low	Medium	High	3.15	4	12.6	
								Subtotal Environmental Factors	17.5	O
	Environmental Factors									
14	Percentage of Development Adjacent to Road (%) (See Note 4)	nil	nil to 30	30 to 60	60 to 90	>90	0.15	5	0.75	
15	Area Classification	Rural	Industrial	Residential	Commercial	Downtown	0.15	4	0.6	
16	Distance from Development to Roadway (ft) (See Note 4)	>200	150 to 200	100 to 150	50 to 100	<50	0.15	4	0.6	
17	Ambient (off Roadway) Lighting	Nil	Sparse	Moderate	Distracting	Intense	1.38	3	4.14	
18	Raised Curb Median	None	Continuous	At All Intersections (100%)	At Most Intersections (51% to 99%)	At Few Intersections (≤50%) (See Note 7)	0.35	3	1.05	
								Subtotal Environmental Factors	7.14	E
	Collision Factors									
19	Night-to-Day Collision Ratio	<1	1.0 to 1.2	1.2 to 1.5	1.5 to 2.0	>2.0 (See Note 1)	5.55	4	22.2	
								Subtotal Collision Factors	22.2	A

Notes:
1 Lighting Warranted
2 Pedestrian Activity Level
3 Two Way Left Turn Lane
4 Development defined as Commercial, Industrial or Residential Buildings
5 85th Percentile night speed should be used if available, otherwise posted Speed Limit shall be used
6 Worst case geometric factors for a segment of roadway shall apply
7 Also includes isolated medians (non-continuous) between intersections

G + O + E + A = Total Warranting Points	58.04	
Warranting Condition	60.00	
Difference ±	-1.96	D

Appendix C: Present Worth Analysis

Form 750-020-21c
TRAFFIC ENGINEERING
September 2020

State of Florida Department of Transportation

Present Worth Analysis
Urban/Suburban Arterial - 4 Lane Divided
No-Build Alternative

General Information				Site Information			
Analyst:	VV	**Date:**	12/22/2022	**Location ID:**	Dunlawton Ave (Summer to Williamson)	**County:**	Volusia
Agency or Company:		VHB		**City:**	Port Orange	**M.P. - M.P.**	

Manual Input from Analysis

Growth Rate = 1.0%
Opening Year AADT = 15,300
Segment Length = 0.30
Crash Data Used = No
Current Year = 2022
Rate of Return = 4.0%
Segment Type = 4D
Segment = Segment1
Project Opening Year = 2023
Analysis Period = 20
E
0.647011405
Analyze

Default Distribution for Crash Severity Level (2010-2014 Florida HSM Crash Distribution)

Fatality = 0.8%
Incapacitating = 5.5%
Non-Incapacitating = 15.8%
Possible Injury = 23.9%
Property Damage Only = 54.0%
100.0%

			Annual Number of Crashes						Annual Cost						
	Year	AADT	Site Specific ($N_{predicted / expected}$)	Fatality	Incap.	Non-Inc.	Possible Injury	PDO	Fatality	Incap.	Non-Inc.	Possible Injury	PDO	Total Cost	Present Value
	2022	15,300		0.000	0.000	0.000	0.000	0.000	$0	$0	$0	$0	$0	$0	$0
1	2023	15,453	0.9	0.008	0.052	0.149	0.226	0.510	$77,353	$30,168	$23,471	$22,059	$3,879	$156,929	$150,893
2	2024	15,608	1.0	0.008	0.053	0.151	0.229	0.516	$78,253	$30,519	$23,744	$22,315	$3,924	$158,756	$146,779
3	2025	15,764	1.0	0.008	0.053	0.153	0.231	0.522	$79,165	$30,874	$24,021	$22,575	$3,970	$160,606	$142,778
4	2026	15,921	1.0	0.008	0.054	0.155	0.234	0.528	$80,088	$31,234	$24,301	$22,839	$4,016	$162,479	$138,888
5	2027	16,080	1.0	0.008	0.054	0.156	0.237	0.535	$81,023	$31,599	$24,585	$23,105	$4,063	$164,376	$135,105
6	2028	16,241	1.0	0.008	0.055	0.158	0.239	0.541	$81,970	$31,968	$24,872	$23,375	$4,111	$166,297	$131,427
7	2029	16,404	1.0	0.008	0.056	0.160	0.242	0.547	$82,929	$32,342	$25,163	$23,649	$4,159	$168,242	$127,850
8	2030	16,568	1.0	0.008	0.056	0.162	0.245	0.554	$83,900	$32,721	$25,458	$23,926	$4,207	$170,213	$124,373
9	2031	16,733	1.0	0.008	0.057	0.164	0.248	0.560	$84,884	$33,105	$25,756	$24,206	$4,257	$172,208	$120,991
10	2032	16,901	1.0	0.008	0.058	0.166	0.251	0.567	$85,880	$33,493	$26,059	$24,490	$4,307	$174,229	$117,703
11	2033	17,070	1.1	0.008	0.058	0.168	0.254	0.573	$86,889	$33,887	$26,365	$24,778	$4,357	$176,275	$114,505
12	2034	17,240	1.1	0.009	0.059	0.170	0.257	0.580	$87,910	$34,285	$26,675	$25,069	$4,408	$178,348	$111,396
13	2035	17,413	1.1	0.009	0.060	0.172	0.260	0.587	$88,945	$34,689	$26,989	$25,364	$4,460	$180,447	$108,372
14	2036	17,587	1.1	0.009	0.060	0.174	0.263	0.594	$89,993	$35,097	$27,307	$25,663	$4,513	$182,573	$105,431
15	2037	17,763	1.1	0.009	0.061	0.176	0.266	0.601	$91,054	$35,511	$27,629	$25,966	$4,566	$184,725	$102,571
16	2038	17,940	1.1	0.009	0.062	0.178	0.269	0.608	$92,129	$35,930	$27,955	$26,272	$4,620	$186,906	$99,790
17	2039	18,120	1.1	0.009	0.063	0.180	0.272	0.615	$93,217	$36,355	$28,285	$26,583	$4,675	$189,114	$97,086
18	2040	18,301	1.2	0.009	0.063	0.182	0.275	0.622	$94,319	$36,785	$28,619	$26,897	$4,730	$191,350	$94,456
19	2041	18,484	1.2	0.009	0.064	0.184	0.279	0.630	$95,436	$37,220	$28,958	$27,215	$4,786	$193,615	$91,898
20	2042	18,669	1.2	0.009	0.065	0.186	0.282	0.637	$96,566	$37,661	$29,301	$27,538	$4,842	$195,909	$89,410

Shaded cell indicates the AADT is outside the limits

Total Present Value **$2,351,702**

NOTES:

1. Present Value = Future Cash Flow / (1 + Required Rate of Return)$^{\text{Number of Years You Have To Wait For The Cash Flow}}$
2. Traffic Growth Rate = $[((ADT_f / ADT_i)^{(1/(F-I))})-1] \times 100$

where ADT_f = Average Daily Traffic for Future Year
ADT_i = Average Daily Traffic for Initial Year
I = Initial Year for ADT
F = Future Year for ADT

Form 750-020-21c
TRAFFIC ENGINEERING
September 2020

State of Florida Department of Transportation

Present Worth Analysis
Urban/Suburban Arterial - 4 Lane Divided
Build Alternative

General Information				Site Information			
Analyst:	VV	**Date:**	12/22/2022	**Location ID:**	Dunlawton Ave (Summer to Williamson)	**County:**	Volusia
Agency or Company:			VHB	**City:**	Port Orange	**M.P. - M.P.**	

Manual Input from Analysis

Growth Rate =	1.0%	**Current Year =**	2022	**Project Opening Year =**	2023
Opening Year AADT =	15,300	**Rate of Return =**	4.0%	**Analysis Period =**	20
Segment Length =	0.30	**Segment Type =**	4D		
Crash Data Used =	No	**Segment =**	Segment2		

Analyze

Default Distribution for Crash Severity Level (2010-2014 Florida HSM Crash Distribution)

Fatality =	0.8%	**Possible Injury =**	23.9%
Incapacitating =	5.5%	**Property Damage Only =**	54.0%
Non-Incapacitating =	15.8%		100.0%

			Annual Number of Crashes						Annual Cost						
	Year	**AADT**	**Site Specific ($N_{predicted / expected}$)**	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Total Cost**	**Present Value**
	2022	15,300		0.000	0.000	0.000	0.000	0.000	$0	$0	$0	$0	$0	$0	$0
1	2023	15,453	0.9	0.007	0.048	0.136	0.206	0.466	$70,691	$27,570	$21,450	$20,159	$3,545	$143,415	$137,899
2	2024	15,608	0.9	0.007	0.048	0.138	0.209	0.472	$71,514	$27,891	$21,700	$20,394	$3,586	$145,084	$134,139
3	2025	15,764	0.9	0.007	0.049	0.140	0.211	0.477	$72,347	$28,216	$21,953	$20,631	$3,628	$146,775	$130,482
4	2026	15,921	0.9	0.007	0.049	0.141	0.214	0.483	$73,191	$28,545	$22,209	$20,872	$3,670	$148,487	$126,927
5	2027	16,080	0.9	0.007	0.050	0.143	0.216	0.489	$74,046	$28,878	$22,468	$21,116	$3,713	$150,220	$123,470
6	2028	16,241	0.9	0.007	0.050	0.145	0.219	0.494	$74,911	$29,215	$22,730	$21,362	$3,757	$151,976	$120,109
7	2029	16,404	0.9	0.007	0.051	0.146	0.221	0.500	$75,788	$29,557	$22,996	$21,612	$3,800	$153,754	$116,840
8	2030	16,568	0.9	0.007	0.052	0.148	0.224	0.506	$76,675	$29,903	$23,266	$21,865	$3,845	$155,555	$113,662
9	2031	16,733	0.9	0.008	0.052	0.150	0.227	0.512	$77,574	$30,254	$23,538	$22,122	$3,890	$157,378	$110,572
10	2032	16,901	1.0	0.008	0.053	0.152	0.229	0.518	$78,484	$30,609	$23,815	$22,381	$3,936	$159,225	$107,567
11	2033	17,070	1.0	0.008	0.053	0.153	0.232	0.524	$79,406	$30,968	$24,094	$22,644	$3,982	$161,095	$104,644
12	2034	17,240	1.0	0.008	0.054	0.155	0.235	0.530	$80,340	$31,333	$24,378	$22,911	$4,029	$162,989	$101,803
13	2035	17,413	1.0	0.008	0.055	0.157	0.237	0.536	$81,285	$31,701	$24,665	$23,180	$4,076	$164,907	$99,039
14	2036	17,587	1.0	0.008	0.055	0.159	0.240	0.543	$82,243	$32,075	$24,955	$23,453	$4,124	$166,850	$96,352
15	2037	17,763	1.0	0.008	0.056	0.161	0.243	0.549	$83,213	$32,453	$25,249	$23,730	$4,173	$168,818	$93,738
16	2038	17,940	1.0	0.008	0.057	0.163	0.246	0.556	$84,195	$32,836	$25,547	$24,010	$4,222	$170,810	$91,197
17	2039	18,120	1.0	0.008	0.057	0.164	0.249	0.562	$85,189	$33,224	$25,849	$24,294	$4,272	$172,828	$88,725
18	2040	18,301	1.1	0.008	0.058	0.166	0.252	0.569	$86,197	$33,617	$26,155	$24,581	$4,322	$174,872	$86,322
19	2041	18,484	1.1	0.009	0.059	0.168	0.255	0.575	$87,217	$34,015	$26,464	$24,872	$4,374	$176,942	$83,984
20	2042	18,669	1.1	0.009	0.059	0.170	0.258	0.582	$88,250	$34,418	$26,778	$25,166	$4,425	$179,038	$81,711

Shaded cell indicates the AADT is outside the limits

Total Present Value **$2,149,182**

TWO WAY SEGMENTS

Dunlawton Avenue from Taylor Road to Clyde Morris Boulevard

Site-specific adjustment type:
Site-specific

FROM CRASH COST TOTALS TAB		FROM TOTAL TAB	
Opening Year =	2023	**Segment Type =**	6D
Analysis Period =	20	**Analysis Year AADT =**	52000
Growth Rate =	1%	**Segment Length (mi) =**	0.6
Rate of Return =	4%	**Analysis Year =**	2023

	Default Crash Distribution					
	K	A	B	C	O	Sum
%	0.60%	4.22%	12.72%	23.84%	58.62%	100%
Cost*	$ 10,670,000	$ 872,612	$ 174,018	$ 106,215	$ 7,700	
Use Val	$ 10,670,000	$ 872,612	$ 174,018	$ 106,215	$ 7,700	

*Values are the 2020 FDOT KABCO crash costs as laied out in the FDOT Design Manual

AADT / Year	
Year	**Major AADT**
2023	52000
2024	52520
2025	53045
2026	53576
2027	54111
2028	54653
2029	55199
2030	55751
2031	56309
2032	56872
2033	57440
2034	58015
2035	58595
2036	59181
2037	59773
2038	60370
2039	60974
2040	61584
2041	62200
2042	62822

Annual Number of Crashes - No Lighting					
Site Specific ($N_{p/e}$)	**Fatality**	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**
6.889	0.04	0.29	0.88	1.64	4.04
6.961	0.04	0.29	0.89	1.66	4.08
7.034	0.04	0.30	0.89	1.68	4.12
7.108	0.04	0.30	0.90	1.69	4.17
7.182	0.04	0.30	0.91	1.71	4.21
7.258	0.04	0.31	0.92	1.73	4.25
7.334	0.04	0.31	0.93	1.75	4.30
7.411	0.04	0.31	0.94	1.77	4.34
7.489	0.04	0.32	0.95	1.79	4.39
7.567	0.05	0.32	0.96	1.80	4.44
7.647	0.05	0.32	0.97	1.82	4.48
7.727	0.05	0.33	0.98	1.84	4.53
7.808	0.05	0.33	0.99	1.86	4.58
7.890	0.05	0.33	1.00	1.88	4.63
7.974	0.05	0.34	1.01	1.90	4.67
8.058	0.05	0.34	1.03	1.92	4.72
8.142	0.05	0.34	1.04	1.94	4.77
8.228	0.05	0.35	1.05	1.96	4.82
8.315	0.05	0.35	1.06	1.98	4.87
8.403	0.05	0.35	1.07	2.00	4.93

Annual Number of Crashes - With Lighting						
Lighting CMF	**Adjusted $N_{p/e}$**	**Fatality**	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**
0.94	6.476	0.038811386	0.27305275	0.82382659	1.543851028	3.796467533
0.94	6.544	0.039217336	0.27590876	0.83244345	1.559999031	3.836176913
0.94	6.612	0.039627744	0.27879613	0.84115494	1.576324361	3.876322357
0.94	6.681	0.04004266	0.28171522	0.84996212	1.592829013	3.916908771
0.94	6.751	0.040462135	0.28466639	0.85886607	1.609515007	3.957941118
0.94	6.822	0.040886219	0.28764998	0.86786787	1.626384381	3.999424417
0.94	6.894	0.041314966	0.29066638	0.87696862	1.643439202	4.041363744
0.94	6.966	0.041748428	0.29371594	0.88616945	1.660681556	4.083764233
0.94	7.039	0.042186656	0.29679905	0.89547148	1.678113556	4.126631077
0.94	7.113	0.042629707	0.29991607	0.90487585	1.695737337	4.169969528
0.94	7.188	0.043077632	0.3030674	0.9143837	1.713555059	4.213784898
0.94	7.263	0.043530488	0.30625341	0.92399622	1.731568907	4.258082559
0.94	7.340	0.043988331	0.3094745	0.93371456	1.749781091	4.302867945
0.94	7.417	0.044451215	0.31273107	0.94353994	1.768193846	4.348146552
0.94	7.495	0.044919198	0.31602351	0.95347355	1.786809431	4.39392394
0.94	7.574	0.045392338	0.31935223	0.96351661	1.805630134	4.440205729
0.94	7.654	0.045870693	0.32271763	0.97367037	1.824658267	4.486997607
0.94	7.735	0.046354321	0.32612014	0.98393606	1.843896169	4.534305324
0.94	7.816	0.046843282	0.32956016	0.99431494	1.863346204	4.582134697
0.94	7.899	0.047337636	0.33303813	1.00480831	1.883010766	4.630491611

Annual Cost						
Fatality	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**	**Total Cost**	**Present Value**
$ 440,551	$ 253,478	$ 152,511	$ 174,447	$ 31,099	$ 1,052,085	$ 1,011,620
$ 445,158	$ 256,129	$ 154,107	$ 176,272	$ 31,424	$ 1,063,090	$ 982,886
$ 449,817	$ 258,809	$ 155,719	$ 178,116	$ 31,753	$ 1,074,215	$ 954,973
$ 454,527	$ 261,519	$ 157,350	$ 179,981	$ 32,085	$ 1,085,462	$ 927,858
$ 459,288	$ 264,259	$ 158,998	$ 181,867	$ 32,421	$ 1,096,833	$ 901,517
$ 464,102	$ 267,029	$ 160,665	$ 183,773	$ 32,761	$ 1,108,329	$ 875,929
$ 468,969	$ 269,829	$ 162,349	$ 185,700	$ 33,105	$ 1,119,951	$ 851,071
$ 473,889	$ 272,660	$ 164,053	$ 187,648	$ 33,452	$ 1,131,702	$ 826,923
$ 478,863	$ 275,522	$ 165,775	$ 189,618	$ 33,803	$ 1,143,581	$ 803,465
$ 483,893	$ 278,415	$ 167,516	$ 191,609	$ 34,158	$ 1,155,591	$ 780,676
$ 488,977	$ 281,341	$ 169,276	$ 193,623	$ 34,517	$ 1,167,733	$ 758,537
$ 494,117	$ 284,298	$ 171,055	$ 195,658	$ 34,880	$ 1,180,009	$ 737,030
$ 499,314	$ 287,288	$ 172,854	$ 197,716	$ 35,247	$ 1,192,420	$ 716,137
$ 504,569	$ 290,312	$ 174,673	$ 199,796	$ 35,618	$ 1,204,968	$ 695,839
$ 509,881	$ 293,368	$ 176,512	$ 201,900	$ 35,993	$ 1,217,654	$ 676,120
$ 515,251	$ 296,458	$ 178,372	$ 204,027	$ 36,372	$ 1,230,479	$ 656,963
$ 520,681	$ 299,582	$ 180,251	$ 206,177	$ 36,755	$ 1,243,446	$ 638,352
$ 526,171	$ 302,741	$ 182,152	$ 208,350	$ 37,143	$ 1,256,557	$ 620,272
$ 531,721	$ 305,934	$ 184,073	$ 210,548	$ 37,535	$ 1,269,811	$ 602,706
$ 537,333	$ 309,163	$ 186,016	$ 212,770	$ 37,931	$ 1,283,212	$ 585,641
						$ 15,604,515

Annual Cost						
Fatality	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**	**Total Cost**	**Present Value**
$ 414,117	$ 238,269	$ 143,361	$ 163,980	$ 29,233	$ 988,960	$ 950,923
$ 418,449	$ 240,761	$ 144,860	$ 165,695	$ 29,539	$ 999,304	$ 923,913
$ 422,828	$ 243,281	$ 146,376	$ 167,429	$ 29,848	$ 1,009,762	$ 897,675
$ 427,255	$ 245,828	$ 147,909	$ 169,182	$ 30,160	$ 1,020,335	$ 872,186
$ 431,731	$ 248,403	$ 149,458	$ 170,955	$ 30,476	$ 1,031,023	$ 847,426
$ 436,256	$ 251,007	$ 151,025	$ 172,746	$ 30,796	$ 1,041,829	$ 823,373
$ 440,831	$ 253,639	$ 152,608	$ 174,558	$ 31,119	$ 1,052,754	$ 800,007
$ 445,456	$ 256,300	$ 154,209	$ 176,389	$ 31,445	$ 1,063,799	$ 777,308
$ 450,132	$ 258,990	$ 155,828	$ 178,241	$ 31,775	$ 1,074,966	$ 755,257
$ 454,859	$ 261,710	$ 157,465	$ 180,113	$ 32,109	$ 1,086,256	$ 733,835
$ 459,638	$ 264,460	$ 159,119	$ 182,005	$ 32,446	$ 1,097,669	$ 713,025
$ 464,470	$ 267,240	$ 160,792	$ 183,919	$ 32,787	$ 1,109,209	$ 692,808
$ 469,355	$ 270,051	$ 162,483	$ 185,853	$ 33,132	$ 1,120,875	$ 673,168
$ 474,294	$ 272,893	$ 164,193	$ 187,809	$ 33,481	$ 1,132,670	$ 654,089
$ 479,288	$ 275,766	$ 165,922	$ 189,786	$ 33,833	$ 1,144,594	$ 635,553
$ 484,336	$ 278,671	$ 167,669	$ 191,785	$ 34,190	$ 1,156,651	$ 617,545
$ 489,440	$ 281,607	$ 169,436	$ 193,806	$ 34,550	$ 1,168,840	$ 600,051
$ 494,601	$ 284,576	$ 171,223	$ 195,849	$ 34,914	$ 1,181,163	$ 583,055
$ 499,818	$ 287,578	$ 173,029	$ 197,915	$ 35,282	$ 1,193,622	$ 566,544
$ 505,093	$ 290,613	$ 174,855	$ 200,004	$ 35,655	$ 1,206,219	$ 550,503
						$ 14,668,244

TWO WAY SEGMENTS

Dunlawton Avenue from Clyde Morris Boulevard to Spurce Creek Road

Site-specific adjustment type:
Site-specific

FROM CRASH COST TOTALS TAB		FROM TOTAL TAB	
Opening Year =	2023	**Segment Type =**	6D
Analysis Period =	20	**Analysis Year AADT =**	39000
Growth Rate =	1%	**Segment Length (mi) =**	1.3
Rate of Return =	4%	**Analysis Year =**	2023

	Default Crash Distribution					
	K	A	B	C	O	Sum
%	0.60%	4.22%	12.72%	23.84%	58.62%	100%
Cost*	$ 10,670,000	$ 872,612	$ 174,018	$ 106,215	$ 7,700	
Use Val	$ 10,670,000	$ 872,612	$ 174,018	$ 106,215	$ 7,700	

*Values are the 2020 FDOT KABCO crash costs as laied out in the FDOT Design Manual

AADT / Year	
Year	**Major AADT**
2023	39000
2024	39390
2025	39784
2026	40182
2027	40584
2028	40989
2029	41399
2030	41813
2031	42231
2032	42654
2033	43080
2034	43511
2035	43946
2036	44386
2037	44829
2038	45278
2039	45731
2040	46188
2041	46650
2042	47116

Annual Number of Crashes - No Lighting					
Site Specific ($N_{p/e}$)	**Fatality**	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**
8.071	0.05	0.34	1.03	1.92	4.73
8.156	0.05	0.34	1.04	1.94	4.78
8.242	0.05	0.35	1.05	1.96	4.83
8.328	0.05	0.35	1.06	1.99	4.88
8.416	0.05	0.35	1.07	2.01	4.93
8.504	0.05	0.36	1.08	2.03	4.99
8.593	0.05	0.36	1.09	2.05	5.04
8.684	0.05	0.37	1.10	2.07	5.09
8.775	0.05	0.37	1.12	2.09	5.14
8.867	0.05	0.37	1.13	2.11	5.20
8.961	0.05	0.38	1.14	2.14	5.25
9.055	0.05	0.38	1.15	2.16	5.31
9.151	0.05	0.39	1.16	2.18	5.36
9.247	0.06	0.39	1.18	2.20	5.42
9.345	0.06	0.39	1.19	2.23	5.48
9.443	0.06	0.40	1.20	2.25	5.54
9.543	0.06	0.40	1.21	2.28	5.59
9.644	0.06	0.41	1.23	2.30	5.65
9.746	0.06	0.41	1.24	2.32	5.71
9.849	0.06	0.42	1.25	2.35	5.77

Annual Number of Crashes - With Lighting						
Lighting CMF	**Adjusted $N_{p/e}$**	**Fatality**	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**
0.94	7.587	0.045470745	0.31990385	0.9651809	1.808749011	4.447875326
0.94	7.667	0.045947417	0.32325742	0.97529895	1.827710237	4.494502673
0.94	7.747	0.046429335	0.32664789	0.98552833	1.846880087	4.541643046
0.94	7.828	0.046916556	0.33007567	0.99587028	1.866260912	4.589302226
0.94	7.911	0.04740914	0.33354119	1.00632609	1.885855091	4.637486061
0.94	7.994	0.047907149	0.33704487	1.01689703	1.905665029	4.686200468
0.94	8.078	0.048410643	0.34058714	1.0275844	1.92569316	4.735451428
0.94	8.163	0.048919684	0.34416843	1.03838951	1.945941943	4.785244994
0.94	8.249	0.049434334	0.3477892	1.0493137	1.966413868	4.835587286
0.94	8.335	0.049954658	0.35144987	1.0603583	1.987111452	4.886484495
0.94	8.423	0.050480718	0.3551509	1.07152468	2.008037242	4.937942881
0.94	8.512	0.05101258	0.35889275	1.0828142	2.029193813	4.989968777
0.94	8.602	0.051550309	0.36267588	1.09422827	2.050583769	5.042568589
0.94	8.692	0.052093972	0.36650075	1.10576827	2.072209745	5.095748796
0.94	8.784	0.052643635	0.37036784	1.11743565	2.094074406	5.149515949
0.94	8.877	0.053199366	0.37427762	1.12923183	2.116180447	5.203876676
0.94	8.971	0.053761234	0.37823057	1.14115827	2.138530593	5.258837681
0.94	9.065	0.054329308	0.38222718	1.15321644	2.161127602	5.314405744
0.94	9.161	0.054903657	0.38626795	1.16540782	2.183974262	5.370587722
0.94	9.258	0.055484354	0.39035337	1.17773393	2.207073394	5.42739055

Annual Cost						
Fatality	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**	**Total Cost**	**Present Value**
$ 516,141	$ 296,970	$ 178,680	$ 204,379	$ 36,435	$ 1,232,605	$ 1,185,197
$ 521,552	$ 300,083	$ 180,553	$ 206,522	$ 36,817	$ 1,245,526	$ 1,151,559
$ 527,022	$ 303,231	$ 182,446	$ 208,688	$ 37,203	$ 1,258,590	$ 1,118,882
$ 532,553	$ 306,413	$ 184,361	$ 210,878	$ 37,593	$ 1,271,797	$ 1,087,138
$ 538,144	$ 309,630	$ 186,297	$ 213,092	$ 37,988	$ 1,285,150	$ 1,056,300
$ 543,797	$ 312,882	$ 188,254	$ 215,330	$ 38,387	$ 1,298,650	$ 1,026,342
$ 549,512	$ 316,171	$ 190,232	$ 217,593	$ 38,790	$ 1,312,299	$ 997,239
$ 555,290	$ 319,495	$ 192,232	$ 219,881	$ 39,198	$ 1,326,097	$ 968,966
$ 561,132	$ 322,856	$ 194,255	$ 222,194	$ 39,611	$ 1,340,048	$ 941,500
$ 567,039	$ 326,255	$ 196,299	$ 224,533	$ 40,028	$ 1,354,153	$ 914,817
$ 573,010	$ 329,690	$ 198,367	$ 226,898	$ 40,449	$ 1,368,413	$ 888,895
$ 579,047	$ 333,164	$ 200,457	$ 229,288	$ 40,875	$ 1,382,831	$ 863,712
$ 585,151	$ 336,676	$ 202,570	$ 231,705	$ 41,306	$ 1,397,408	$ 839,247
$ 591,322	$ 340,227	$ 204,706	$ 234,149	$ 41,742	$ 1,412,145	$ 815,479
$ 597,561	$ 343,816	$ 206,866	$ 236,619	$ 42,182	$ 1,427,045	$ 792,387
$ 603,869	$ 347,446	$ 209,050	$ 239,117	$ 42,628	$ 1,442,110	$ 769,954
$ 610,247	$ 351,115	$ 211,258	$ 241,643	$ 43,078	$ 1,457,340	$ 748,160
$ 616,695	$ 354,826	$ 213,490	$ 244,196	$ 43,533	$ 1,472,740	$ 726,986
$ 623,215	$ 358,577	$ 215,747	$ 246,777	$ 43,993	$ 1,488,309	$ 706,415
$ 629,806	$ 362,369	$ 218,029	$ 249,388	$ 44,458	$ 1,504,050	$ 686,429
						$ 18,285,603

Annual Cost						
Fatality	**Incap.**	**Non-Inc.**	**Poss. Injury**	**PDO**	**Total Cost**	**Present Value**
$ 485,173	$ 279,152	$ 167,959	$ 192,116	$ 34,249	$ 1,158,649	$ 1,114,085
$ 490,259	$ 282,078	$ 169,720	$ 194,130	$ 34,608	$ 1,170,795	$ 1,082,466
$ 495,401	$ 285,037	$ 171,500	$ 196,166	$ 34,971	$ 1,183,075	$ 1,051,749
$ 500,600	$ 288,028	$ 173,299	$ 198,225	$ 35,338	$ 1,195,490	$ 1,021,909
$ 505,856	$ 291,052	$ 175,119	$ 200,306	$ 35,709	$ 1,208,041	$ 992,922
$ 511,169	$ 294,109	$ 176,958	$ 202,410	$ 36,084	$ 1,220,731	$ 964,761
$ 516,542	$ 297,200	$ 178,818	$ 204,537	$ 36,463	$ 1,233,561	$ 937,405
$ 521,973	$ 300,326	$ 180,698	$ 206,688	$ 36,846	$ 1,246,532	$ 910,828
$ 527,464	$ 303,485	$ 182,599	$ 208,863	$ 37,234	$ 1,259,646	$ 885,010
$ 533,016	$ 306,679	$ 184,521	$ 211,061	$ 37,626	$ 1,272,904	$ 859,928
$ 538,629	$ 309,909	$ 186,465	$ 213,284	$ 38,022	$ 1,286,309	$ 835,562
$ 544,304	$ 313,174	$ 188,429	$ 215,531	$ 38,423	$ 1,299,861	$ 811,889
$ 550,042	$ 316,475	$ 190,415	$ 217,803	$ 38,828	$ 1,313,563	$ 788,892
$ 555,843	$ 319,813	$ 192,424	$ 220,100	$ 39,237	$ 1,327,416	$ 766,550
$ 561,708	$ 323,187	$ 194,454	$ 222,422	$ 39,651	$ 1,341,422	$ 744,844
$ 567,637	$ 326,599	$ 196,507	$ 224,770	$ 40,070	$ 1,355,583	$ 723,757
$ 573,632	$ 330,049	$ 198,582	$ 227,144	$ 40,493	$ 1,369,900	$ 703,270
$ 579,694	$ 333,536	$ 200,680	$ 229,544	$ 40,921	$ 1,384,375	$ 683,367
$ 585,822	$ 337,062	$ 202,802	$ 231,971	$ 41,354	$ 1,399,010	$ 664,030
$ 592,018	$ 340,627	$ 204,947	$ 234,424	$ 41,791	$ 1,413,807	$ 645,243
						$ 17,188,467

State of Florida Department of Transportation

Present Worth Analysis
Urban/Suburban Arterial - 4 Lane Divided
No-Build Alternative

General Information				Site Information			
Analyst:	VV	**Date:**	12/22/2022	**Location ID:**	Dunlawton Ave (Nova Rd to Spruce Creek)	**County:**	Volusia
Agency or Company:		VHB		**City:**	Port Orange	**M.P. - M.P.**	

Manual Input from Analysis

Growth Rate =	1.0%	**Current Year =**	2022	**Project Opening Year =**	2023
Opening Year AADT =	32,000	**Rate of Return =**	4.0%	**Analysis Period =**	20
Segment Length =	0.90	**Segment Type =**	4D	E	Analyze
Crash Data Used =	No	**Segment =**	Segment1	0.24055681	

Default Distribution for Crash Severity Level (2010-2014 Florida HSM Crash Distribution)

Fatality =	0.8%	**Possible Injury =**	23.9%
Incapacitating =	5.5%	**Property Damage Only =**	54.0%
Non-Incapacitating =	15.8%		100.0%

			Annual Number of Crashes						Annual Cost						
	Year	**AADT**	**Site Specific ($N_{predicted / expected}$)**	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Total Cost**	**Present Value**
	2022	32,000		0.000	0.000	0.000	0.000	0.000	$0	$0	$0	$0	$0	$0	$0
1	2023	32,320	6.9	0.055	0.379	1.090	1.648	3.725	$564,484	$220,149	$171,283	$160,974	$28,307	$1,145,197	$1,101,151
2	2024	32,643	7.0	0.056	0.384	1.103	1.669	3.771	$571,456	$222,868	$173,398	$162,962	$28,657	$1,159,341	$1,071,876
3	2025	32,970	7.1	0.057	0.389	1.117	1.689	3.817	$578,518	$225,622	$175,541	$164,976	$29,011	$1,173,669	$1,043,387
4	2026	33,299	7.2	0.057	0.394	1.131	1.710	3.864	$585,673	$228,412	$177,712	$167,017	$29,370	$1,188,183	$1,015,663
5	2027	33,632	7.2	0.058	0.398	1.145	1.732	3.912	$592,920	$231,239	$179,911	$169,083	$29,733	$1,202,885	$988,684
6	2028	33,969	7.3	0.059	0.403	1.159	1.753	3.961	$600,261	$234,102	$182,138	$171,177	$30,101	$1,217,779	$962,429
7	2029	34,308	7.4	0.059	0.408	1.173	1.775	4.010	$607,698	$237,002	$184,395	$173,298	$30,474	$1,232,867	$936,877
8	2030	34,651	7.5	0.060	0.413	1.188	1.797	4.059	$615,232	$239,940	$186,681	$175,446	$30,852	$1,248,151	$912,011
9	2031	34,998	7.6	0.061	0.419	1.202	1.819	4.110	$622,863	$242,917	$188,997	$177,622	$31,234	$1,263,633	$887,812
10	2032	35,348	7.7	0.062	0.424	1.217	1.842	4.161	$630,594	$245,932	$191,342	$179,827	$31,622	$1,279,318	$864,261
11	2033	35,701	7.8	0.062	0.429	1.233	1.864	4.212	$638,426	$248,986	$193,719	$182,060	$32,015	$1,295,206	$841,341
12	2034	36,058	7.9	0.063	0.434	1.248	1.888	4.265	$646,360	$252,080	$196,126	$184,323	$32,413	$1,311,302	$819,035
13	2035	36,419	8.0	0.064	0.440	1.263	1.911	4.318	$654,397	$255,215	$198,565	$186,615	$32,816	$1,327,607	$797,326
14	2036	36,783	8.1	0.065	0.445	1.279	1.935	4.372	$662,539	$258,390	$201,035	$188,936	$33,224	$1,344,124	$776,198
15	2037	37,151	8.2	0.066	0.451	1.295	1.959	4.426	$670,787	$261,607	$203,538	$191,288	$33,638	$1,360,857	$755,636
16	2038	37,523	8.3	0.066	0.456	1.311	1.983	4.481	$679,142	$264,865	$206,073	$193,671	$34,057	$1,377,809	$735,623
17	2039	37,898	8.4	0.067	0.462	1.327	2.008	4.537	$687,606	$268,166	$208,642	$196,085	$34,481	$1,394,981	$716,146
18	2040	38,277	8.5	0.068	0.468	1.344	2.033	4.594	$696,181	$271,511	$211,244	$198,530	$34,911	$1,412,377	$697,189
19	2041	38,659	8.6	0.069	0.474	1.361	2.058	4.651	$704,868	$274,898	$213,879	$201,007	$35,347	$1,430,000	$678,739
20	2042	39,046	8.7	0.070	0.480	1.378	2.084	4.709	$713,668	$278,330	$216,550	$203,517	$35,788	$1,447,853	$660,781

Shaded cell indicates the AADT is outside the limits

Total Present Value **$17,262,166**

NOTES:

1. Present Value = Future Cash Flow / (1 + Required Rate of Return)$^{\text{Number of Years You Have To Wait For The Cash Flow}}$
2. Traffic Growth Rate = $[((ADT_f / ADT_i)^{(1/(F-I))}-1] \times 100$

where ADT_f = Average Daily Traffic for Future Year

ADT_i = Average Daily Traffic for Initial Year

I = Initial Year for ADT

F = Future Year for ADT

State of Florida Department of Transportation

Present Worth Analysis
Urban/Suburban Arterial - 4 Lane Divided
Build Alternative

General Information				**Site Information**			
Analyst:	VV	**Date:**	12/22/2022	**Location ID:**	Dunlawton Ave (Nova Rd to Spruce Creek)	**County:**	Volusia
Agency or Company:		VHB		**City:**	Port Orange	**M.P. - M.P.**	

Manual Input from Analysis

Growth Rate =	1.0%	**Current Year =**	2022	**Project Opening Year =**	2023
Opening Year AADT =	32,000	**Rate of Return =**	4.0%	**Analysis Period =**	20
Segment Length =	0.90	**Segment Type =**	4D	p	
Crash Data Used =	No	**Segment =**	Segment2		

Analyze

Default Distribution for Crash Severity Level (2010-2014 Florida HSM Crash Distribution)

Fatality =	0.8%	**Possible Injury =**	23.9%
Incapacitating =	5.5%	**Property Damage Only =**	54.0%
Non-Incapacitating =	15.8%		100.0%

	Year	**AADT**	**Annual Number of Crashes**						**Annual Cost**						
			Site Specific ($N_{predicted / expected}$)	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Fatality**	**Incap.**	**Non-Inc.**	**Possible Injury**	**PDO**	**Total Cost**	**Present Value**
	2022	32,000		0.000	0.000	0.000	0.000	0.000	$0	$0	$0	$0	$0	$0	$0
1	2023	32,320	6.3	0.050	0.347	0.996	1.507	3.404	$515,873	$201,190	$156,532	$147,112	$25,869	$1,046,577	$1,006,324
2	2024	32,643	6.4	0.051	0.351	1.008	1.525	3.446	$522,244	$203,675	$158,466	$148,929	$26,189	$1,059,503	$979,570
3	2025	32,970	6.5	0.052	0.355	1.021	1.544	3.488	$528,699	$206,192	$160,424	$150,769	$26,512	$1,072,597	$953,534
4	2026	33,299	6.5	0.052	0.360	1.033	1.563	3.532	$535,237	$208,742	$162,408	$152,634	$26,840	$1,085,861	$928,198
5	2027	33,632	6.6	0.053	0.364	1.046	1.582	3.575	$541,860	$211,325	$164,417	$154,522	$27,172	$1,099,297	$903,542
6	2028	33,969	6.7	0.054	0.369	1.059	1.602	3.620	$548,569	$213,942	$166,453	$156,436	$27,509	$1,112,908	$879,548
7	2029	34,308	6.8	0.054	0.373	1.072	1.622	3.664	$555,365	$216,592	$168,515	$158,374	$27,850	$1,126,697	$856,197
8	2030	34,651	6.9	0.055	0.378	1.085	1.642	3.710	$562,250	$219,278	$170,605	$160,337	$28,195	$1,140,664	$833,472
9	2031	34,998	7.0	0.056	0.383	1.099	1.662	3.756	$569,225	$221,998	$172,721	$162,326	$28,545	$1,154,814	$811,357
10	2032	35,348	7.0	0.056	0.387	1.113	1.683	3.802	$576,290	$224,753	$174,865	$164,341	$28,899	$1,169,147	$789,834
11	2033	35,701	7.1	0.057	0.392	1.126	1.704	3.850	$583,447	$227,544	$177,036	$166,382	$29,258	$1,183,668	$768,888
12	2034	36,058	7.2	0.058	0.397	1.140	1.725	3.898	$590,698	$230,372	$179,236	$168,449	$29,621	$1,198,377	$748,503
13	2035	36,419	7.3	0.058	0.402	1.155	1.746	3.946	$598,043	$233,237	$181,465	$170,544	$29,990	$1,213,278	$728,663
14	2036	36,783	7.4	0.059	0.407	1.169	1.768	3.995	$605,483	$236,138	$183,723	$172,666	$30,363	$1,228,373	$709,355
15	2037	37,151	7.5	0.060	0.412	1.183	1.790	4.045	$613,021	$239,078	$186,010	$174,815	$30,741	$1,243,665	$690,563
16	2038	37,523	7.6	0.061	0.417	1.198	1.813	4.095	$620,657	$242,056	$188,327	$176,993	$31,124	$1,259,157	$672,274
17	2039	37,898	7.7	0.061	0.422	1.213	1.835	4.146	$628,392	$245,073	$190,674	$179,199	$31,512	$1,274,850	$654,474
18	2040	38,277	7.8	0.062	0.428	1.228	1.858	4.198	$636,229	$248,129	$193,052	$181,434	$31,905	$1,290,748	$637,150
19	2041	38,659	7.9	0.063	0.433	1.244	1.881	4.250	$644,167	$251,225	$195,461	$183,697	$32,303	$1,306,853	$620,288
20	2042	39,046	8.0	0.064	0.438	1.259	1.905	4.303	$652,209	$254,362	$197,901	$185,991	$32,706	$1,323,169	$603,877

Shaded cell indicates the AADT is outside the limits

Total Present Value **$15,775,611**

Appendix D: AG132 Outputs

Roadway Optimizer - Layout 1

General:

6 Lane Section

Roadway Standard: IES RP-8-14
R-Table: R3 (Slightly Specular), Q0=0.07 Actual QO Value: 0.07

Roadway Layout:

Layout Type: Two Rows, Staggered, With Median; 2R_STG_w/M
Roadway Width: 42 ft
Median Width: 30 ft
Lanes In Direction Of Travel: 3
Driver's Side Of Roadway: Right

Luminaire Information:

ATB2_80BLEDE15_XXXXX_R3_3K
Description: ATB2 80BLEDE15 XXXXX R3 3K
File Name: ATB2_80BLEDE15_XXXXX_R3_3K.ies
Lumens Per Lamp: N.A.
Number Of Lamps: 1
Total Lamp Lumens: N.A.
Luminaire Lumens: 39489
Luminaire Watts: 388
Efficiency (%): N.A.
S/P Ratio: 1.00
Total Light Loss Factor: 1.000
Luminaire Arrangement: SINGLE
Arm Length: 15 ft
Offset: 0 ft

Luminaire Location Summary:
Coordinates in ft

Spacing - Row 1: 307
Spacing - Row 2: 307

Label	X-Coord	Y-Coord	Z-Coord	Orient	Tilt	Spin
ATB2_80BLEDE15_XXXX...	921	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	614	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	307	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	0	-20	45	90	0	0

Roadway Optimizer - Layout 1 - Cont.

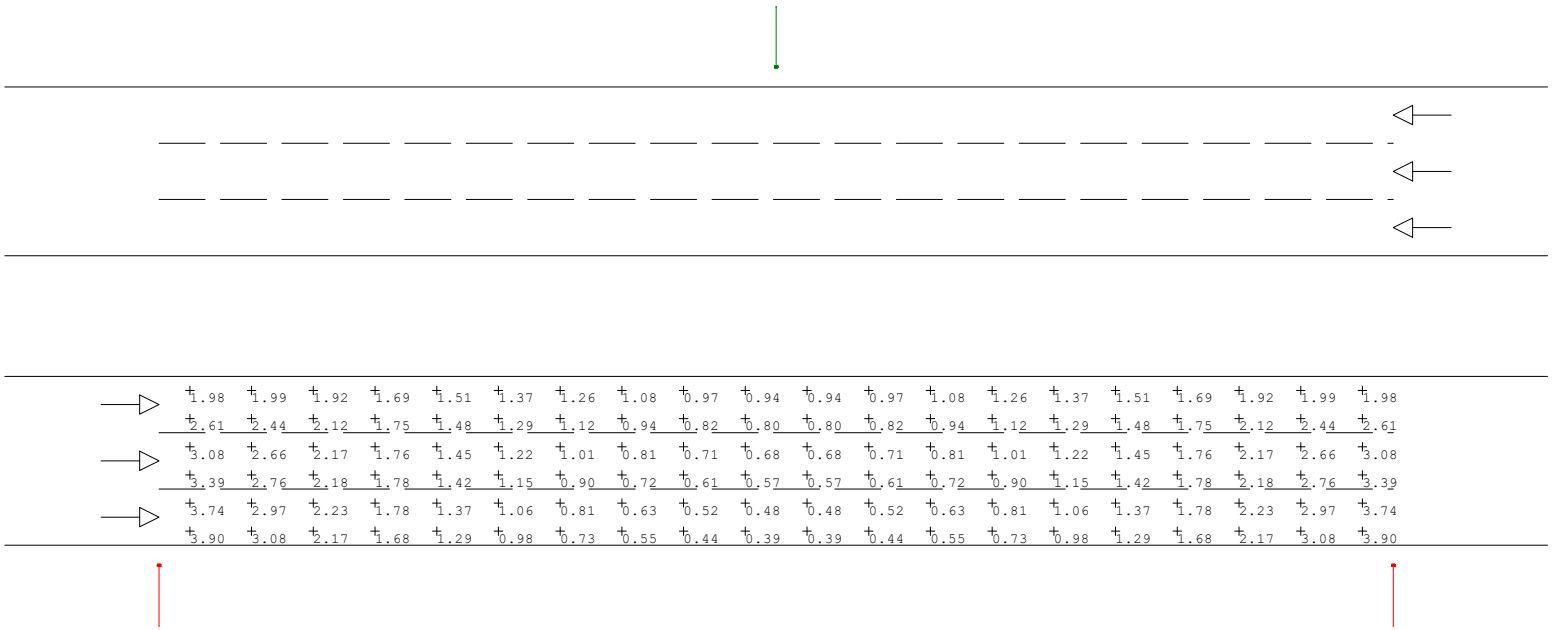
Luminaire Location Summary:
Coordinates in ft

ATB2_80BLEDE15_XXXX...	-307	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	1074.5	134	45	270	0	0
ATB2_80BLEDE15_XXXX...	767.5	134	45	270	0	0
ATB2_80BLEDE15_XXXX...	460.5	134	45	270	0	0
ATB2_80BLEDE15_XXXX...	153.5	134	45	270	0	0
ATB2_80BLEDE15_XXXX...	-153.5	134	45	270	0	0
ATB2_80BLEDE15_XXXX...	-460.5	134	45	270	0	0

Total Number of locations: 11

Roadway Optimizer - Layout 1

RoadOpt_1_Illum



Illuminance (Fc)
Average = 1.53
Maximum = 3.90
Minimum = 0.39
Avg/Min Ratio = 3.92
Max/Min Ratio = 10
Max/Avg Ratio = 2.55

Roadway Optimizer - Layout 2

General:

4 Lane Section

Roadway Standard: IES RP-8-14
R-Table: R3 (Slightly Specular), Q0=0.07 Actual QO Value: 0.07

Roadway Layout:

Layout Type: Two Rows, Staggered, With Median; 2R_STG_w/M
Roadway Width: 28 ft
Median Width: 40 ft
Lanes In Direction Of Travel: 2
Driver's Side Of Roadway: Right

Luminaire Information:

ATB2_80BLEDE15_XXXXX_R3_3K
Description: ATB2 80BLEDE15 XXXXX R3 3K
File Name: ATB2_80BLEDE15_XXXXX_R3_3K.ies
Lumens Per Lamp: N.A.
Number Of Lamps: 1
Total Lamp Lumens: N.A.
Luminaire Lumens: 39489
Luminaire Watts: 388
Efficiency (%): N.A.
S/P Ratio: 1.00
Total Light Loss Factor: 1.000
Luminaire Arrangement: SINGLE
Arm Length: 15 ft
Offset: 0 ft

Luminaire Location Summary:
Coordinates in ft

Spacing - Row 1: 355
Spacing - Row 2: 355

Label	X-Coord	Y-Coord	Z-Coord	Orient	Tilt	Spin
ATB2_80BLEDE15_XXXX...	1065	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	710	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	355	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	0	-20	45	90	0	0

Roadway Optimizer - Layout 2 - Cont.

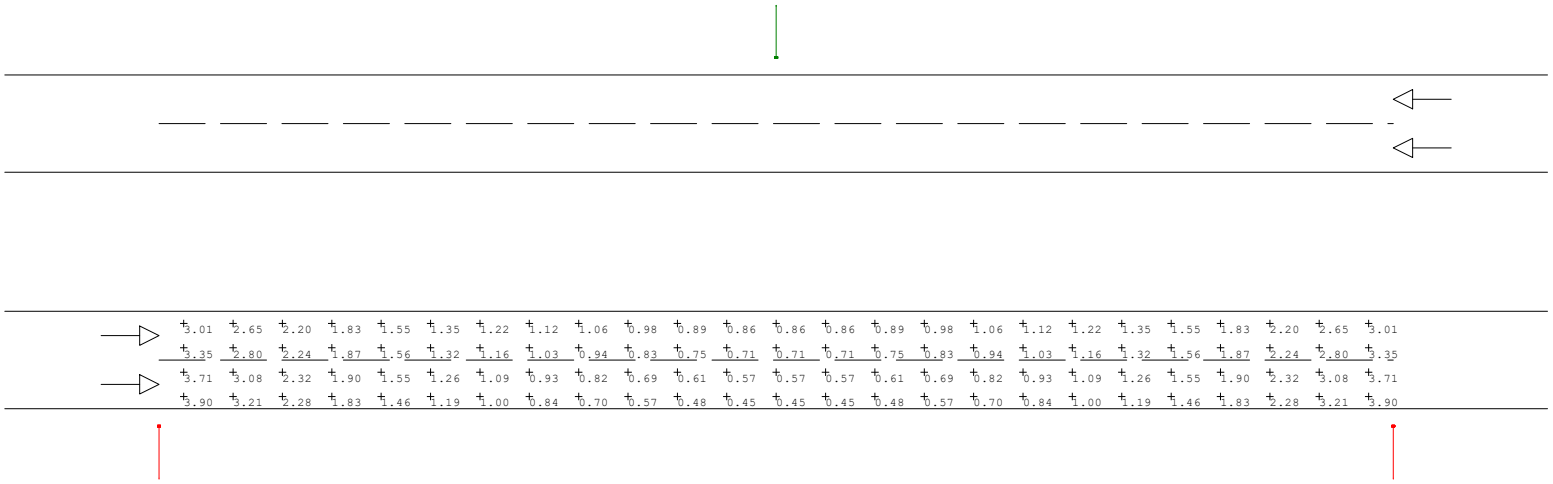
Luminaire Location Summary:
Coordinates in ft

ATB2_80BLEDE15_XXXX...	-355	-20	45	90	0	0
ATB2_80BLEDE15_XXXX...	1242.5	116	45	270	0	0
ATB2_80BLEDE15_XXXX...	887.5	116	45	270	0	0
ATB2_80BLEDE15_XXXX...	532.5	116	45	270	0	0
ATB2_80BLEDE15_XXXX...	177.5	116	45	270	0	0
ATB2_80BLEDE15_XXXX...	-177.5	116	45	270	0	0
ATB2_80BLEDE15_XXXX...	-532.5	116	45	270	0	0

Total Number of locations: 11

Roadway Optimizer - Layout 2

RoadOpt_1_Illum



Illuminance (Fc)
Average = 1.5
Maximum = 3.90
Minimum = 0.45
Avg/Min Ratio = 3.33
Max/Min Ratio = 8.67
Max/Avg Ratio = 2.6

Appendix E: Installation Costs

Installation Cost - SR 421 (Summer Tree Road to Williamson Boulevard)

Pay item	Description	Quantities	Unit Cost	Total Cost
715-4-11	LIGHT POLE COMPLETE, F&I- STD, 30'	10	$5,300.00	$53,000
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24	11	$640.00	$7,040
630-2-11	CONDUIT, F& I, OPEN TRENCH	0	$7.50	$0
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	3168	$21.00	$66,528
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	9504	$2.25	$21,384
715-7-11	LOAD CENTER F&I	1	$13,000.00	$13,000
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	10	$500.00	$5,000

Total Cost	**$165,952**

10% MOT	$16,595
10% Mobilization	$18,255
5% Unknown	$10,040

Project Cost	**$210,842**
Per mile	**$702,807**

Installation Cost - SR 421 (Taylor Road to Clyde Morris Boulevard)

Pay item	Description	Quantities	Unit Cost	Total Cost
715-4-11	LIGHT POLE COMPLETE, F&I- STD, 30'	20	$5,300.00	$106,000
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24	22	$640.00	$14,080
630-2-11	CONDUIT, F& I, OPEN TRENCH	0	$7.50	$0
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	6336	$21.00	$133,056
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	19008	$2.25	$42,768
715-7-11	LOAD CENTER F&I	1	$13,000.00	$13,000
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	20	$500.00	$10,000

Total Cost	**$318,904**

10% MOT	$31,890
10% Mobilization	$35,079
5% Unknown	$19,294

Project Cost	**$405,167**
Per mile	**$675,278**

Installation Cost - SR 421 (Clyde Morris Boulevard to Nova Road)

Pay item	Description	Quantities	Unit Cost	Total Cost
715-4-11	LIGHT POLE COMPLETE, F&I- STD, 30'	44	$5,300.00	$233,200
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24	48	$640.00	$30,720
630-2-11	CONDUIT, F& I, OPEN TRENCH	0	$7.50	$0
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	13728	$21.00	$288,288
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	41184	$2.25	$92,664
715-7-11	LOAD CENTER F&I	2	$13,000.00	$26,000
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	44	$500.00	$22,000

Total Cost	**$692,872**

10% MOT	$69,287
10% Mobilization	$76,216
5% Unknown	$41,919

Project Cost	**$880,294**
Per mile	**$677,149**

Installation Cost - SR 421 (Nova Road to Spurce Creek Road)

Pay item	Description	Quantities	Unit Cost	Total Cost
715-4-11	LIGHT POLE COMPLETE, F&I- STD, 30'	26	$5,300.00	$137,800
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24	29	$640.00	$18,560
630-2-11	CONDUIT, F& I, OPEN TRENCH	0	$7.50	$0
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	9504	$21.00	$199,584
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	28512	$2.25	$64,152
715-7-11	LOAD CENTER F&I	1	$13,000.00	$13,000
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	26	$500.00	$13,000

Total Cost	**$446,096**

10% MOT	$44,610
10% Mobilization	$49,071
5% Unknown	$26,989

Project Cost	**$566,766**
Per mile	**$629,740**

Appendix F: Responses to Comments on Draft Report

Memorandum

To: Stephan C. Harris,
Transportation Planner
River to Sea TPO

Date: 02/09/2023

Project #: 63308.08

From: Vinod Vishwanatha, P.E., PTOE

Re: SR 421/Dunlawton Avenue LJR – Responses to Comments

This Memorandum summarizes the responses to comments provided by various agencies on the Draft SR 421/Dunlawton Avenue/Taylor Road from Summer Trees Road to Spruce Creek Road – Lighting Justification Report provided to River to Sea Transportation Planning Organization (TPO) on December 29, 2022.

Comments from River to Sea TPO

Comment # 1

Add "SR 421" as an alternative name to Taylor Road/Dunlawton Avenue in the Title/Cover Page.

Response:

The title/cover page is updated as requested.

Comment # 2

Correct "Taylor Road" to "Taylor Branch Road" throughout the report. There are six instances, two on Page 2, one on page 6, two on page 7, and two on page 18.

Response:

"Taylor Road" is replaced to read as "Taylor Branch Road" throughout the report, including the tables contained within the report.

Comments from City of Port Orange

Comment # 1

Based on the recommendation on page 18 and 19, streets lights are recommended from Clyde Morris Blvd. to Spruce Creek Rd. and not recommended from Summer Trees Road to Williamson Blvd. but there is no recommendation for the segment from Taylor Road to Clyde Morris Blvd. The Appendix B TAC (27) score is 48.97 for the segment from Taylor Rd. to Clyde Morris Blvd., which would not warrant the lights on this segment but the NPV for this segment in Table 6 on PDF Page 17 indicates that lights are warranted on this segment. Please clarify.

Response:

The recommendations section is revised to recommend lighting along the segment of Dunlawton Avenue (SR 421) from Taylor Branch Road to Spruce Creek Road.

Memorandum

Comment #2

Sheet 18 - The numbering sequence in Section 4.0 that listed the five segments analyzed is 6 through 10 and should be 1 through 5.

Response:

The report is updated to address the numbering as requested.