					Stat		•	ment of T	•	tion					
SECTION:	ING ROADW	۸٧.		10000) (V (O) (O			STA [*]	TE ROUTE:	ENCINEED.		34	
STUDY PER		AT:	FROM	lifornia Ave 1/	2012			M.P. TO		2012	NA	ENGINEER: COUNTY:			
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		RIBUTING C EHICLE ONL	
1	6.483	04/14/12	Sat	1243		Angle		0	0	1	Day	Dry	Failed to	Yield Right	-Of-Way
2	6.483	10/03/12	Wed	1742		Angle		0	2	0	Day	Wet	No Co	ntributing <i>A</i>	Action
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
2	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0
Percent	0.00%	50.00%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	2	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Percent	100.00%	0.00%	50.00%	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

					Stat	te of Flori	da Depart	ment of Ti	ransporta	tion					
						(CRASH SI	JMMAR'	Y						
SECTION:			7222	0000						STA	TE ROUTE:		13	34	
INTERSECT	ING ROADW	AY:	SR 134/ Ca	lifornia Ave				M.P.	6.483	TO	NA	ENGINEER:	AECOM		
STUDY PER									12/	2013		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		RIBUTING C EHICLE ONL	
3	6.483	03/18/13	Mon	0105		Angle		0	1	0	Night	Dry	Failed to	o Yield Right	-Of-Way
4	6.483	08/22/13	Thu	1434		Angle		0	2	0	Day	Wet	Failed to	o Yield Right	-Of-Way
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0
Percent	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.	,			1	Careless	ET/DIA/	Improper Turn	Ran Red Light	Exceeded		Disreg Cntl	Erratic/	Ran off		Wrong
	could be seen a seen as a seen a								Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	1	1	1	1	0	2	0	0	0	0	0	0	0	0	0
Percent	50.00%	50.00%	50.00%	50.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

						State of F	lorida Dep	oartment (of Transpo	ortation					
							CRASI	H SUMM	ARY						
SECTION:			7222	.0000						STA	TE ROUTE:			134	
INTERSECT	ING ROADW	/AY:	SR 134/ Ca	lifornia Ave	!			M.P.	6.483	TO	NA	ENGINEER:	AECOM		
STUDY PER	IOD:		FROM	1/	2014			TO	12/	2014		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME	(CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		ITRIBUTING C <i>A</i> (VEHICLE ONLY	
5	6.483	04/23/14	Wed	1954		Angle		0	0	1	Night	Dry		Not Coded	
6	6.482	09/29/14	Mon	1707		Angle		0	0	1	Day	Wet		Not Coded	
										Backed				Ran into	
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Fixed Object	Water	Other
2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
Percent	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg	Erratic/			
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Cntl Dev	Aggress	Ran off Road	DUI	Wrong Way
Total	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Percent	50.00%	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

					Stat		•	ment of T	•	tion					
SECTION: INTERSECTI	ING ROADW	AY:		0000 lifornia Ave				M.P.	6.483	STA [*] TO	TE ROUTE: NA	ENGINEER:		34	
STUDY PER	IOD:		FROM	1/	2015			TO	12/	2015		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		RIBUTING C EHICLE ONL	
7	6.483	04/04/15	Sat	1605		Left-Turn		0	0	1	Day	Dry	Other (Contributing	Action
8	6.483	06/25/15	Thu	1640		Angle		0	1	0	Day	Wet		Not Coded	
9	6.487	09/17/15	Thu	0645		Angle		0	0	1	Night	Dry	Failed to	Yield Right	-Of-Way
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
3	0	1	2	0	0	2	1	0	0	0	0	0	0	0	0
Percent	0.00%	33.33%	66.67%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause									Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	2	1	1	2	0	1	0	0	0	0	0	0	0	0	0
Percent	66.67%	33.33%	33.33%	66.67%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

					Stat		•	ment of T JMMAR	ransporta Y	tion					
SECTION:			7222	.0000						STA	TE ROUTE:		13	34	
INTERSECT	ING ROADW	'AY:	SR 134/ Ca	lifornia Ave				M.P.	6.483	TO	NA	ENGINEER:	AECOM		
STUDY PER	IOD:		FROM	1/	2016			TO	12/	2016		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		RIBUTING C EHICLE ONL	
10	6.483	07/12/16	Tue	1600		Angle		0	3	0	Day	Wet	Failed to	Yield Right	-Of-Way
11	6.483	08/26/16	Fri	1455		Angle		0	1	0	Day	Dry	Careless	or Negligent	Manner
12	6.483	09/12/16	Mon	1732		Angle		0	1	0	Day	Dry		Not Coded	
13	6.483	12/25/16	Sun	1100		Angle		0	0	1	Day	Dry	F	Ran Stop Sigi	ı
										Backed			Fixed	Ran into	
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Object	Water	Other
4	0	3	1	0	0	4	0	0	0	0	0	0	0	0	0
Percent	0.00%	75.00%	25.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.									Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause								Light	Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	4	0	1	3	1	1	0	0	0	0	0	0	0	0	0
Percent	100.00%	0.00%	25.00%	75.00%	25.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

ESTIMATED CRASH REDUCTION SR 134 at California Avenue

IMPROVEMENT	CRF Source		NUMBER OF	CRASHES P		LY IMPACTED				AF	RF ^X				ESTIM	ATED REDU	JCTION IN (2-2016)	CRASHES		AVERAGE CRASH REDUCTION PER YR
		ANGLE	LEFT-TURN	SIDESWIPE	OTHER NON- FIXED	GUARDRAIL	NIGHT	ANGLE	LEFT-TURN	SIDESWIPE	OTHER NON- FIXED	GUARDRAIL	NIGHT	ANGLE	LEFT-TURN	SIDESWIPE	OTHER NON- FIXED	GUARDRAIL	NIGHT	
MODIFY MEDIAN OPENING BY RESTRICTING LEFT- TURN/THROUGH MOVEMENTS FROM MINOR ROAD	3	13.0						0.57						7.41						1.48
																				0.00
																				0.00
																				0.00

FHWA Desktop Reference for Crash Reduction Factors
 FDOT approved Technical Report "Update of
 CMFClearinghouse.org website
 Fingineering Judgement

NUMBER OF CRASHES (Per Year) THAT ARE LIKELY TO BE REDUCED WITH PROPOSED IMPROVEMENTS =

FORM	511	ST	ATE OF F				DF TRANSI BENEFIT COST							DRAFT
1. 2. 3. 4.	SUBMITTED BY DATE SUBMITTED PROJECT NO. ALTERNATIVE NO.				AECOM Mar-19					WPA NO.	<u>—</u>		SAFETY STUDY ENV. STUDY SKID (ID) SPEED	45 to 65 MPH
6.	DISTRICT 2							SECTION		72220000			SR 134 at (California Avenue
7.	BEGIN MILE POST	_	_	_	6.483		END MILE PO	OST		6.583	LENGTH	0.1	NODE	
8.	DESCRIPTION OF LOCATION/FACILITY TYPE													
	Unsignalized intersection (median opening)													
9.	CAUSE OF ACCIDENT PROBLEMS (LIST AND DISCUSS) Angle/left-turn crashes related to median opening													
	Allyteractum ordanos rotaco to mostas oposg													
10.	PROPOSED IMPROVEMENTS (LIST AND DISCUSS): Modify median opening by restricting left-turn/through	h movements	s from minor	road										
	YEAR	2012	2013	2014	2015	2016	AVG				14. CRASH INFORMAT	ION FOR F	ACILITY	
11. 12.	No. of Crashes No. of Crashes Potentially Reduced By Project	7	7	6 7.4	12	12	10.0 1.48	Ì			COST/CRASH \$ CRASH CLEANUP \$			123,598
13.	ТУРЕ	2012	2013	2014	2015	2016	Total	15.		ANNUAL COST OF IMP	ROVEMENTS			
1	ALL	7	7	6	12	12	44	_	Α.	TYPE UTILITY	COST	20		\$ -
								1	B. C.	LIGHTING SIGNALIZATION		15	0.1233	\$ - \$ -
								I	D. E.	SIGNING & PVMNT ROADWAY	\$ 3,790.3 \$ 89,761.7	70 20	0.0736	\$ 723.04 \$ 6,604.82
		+		-		-		I	F. G.	CONT MOT	\$ 5,556.9 \$ 9,355.2			\$ 408.89 \$ 688.37
							#	li	H.	MOB	\$ 8,232.5	58 20	0.0736	\$ 605.77
							\perp	I	I. J.	SUBTOTAL PE/CEI	\$ 70,018.0	06 20	0.0736	\$ 8,586.75 \$ 5,152.05
		<u> </u>			<u></u>	<u> </u>		[K. L. M.	RIGHT-OF-WAY CRASH CLEANUP TOTAL	\$ - \$ 186,714.8	15 32	0.0899	\$ - (\$148.00) \$ 22,621.70
								16.	BENEF					\$182,925
		\vdash				-	+	Ì						
								17.	BENEF	FIT / COST				8.09
	TOTAL	L 7	7	6	12	12	44		L					
PREPA AECON	ARED BY: M									OVED BY: gkon (Cody) Ko, P.E. (Distri	ict 2 Safety Engineer)		DATE: March 2019	
Cra 1. I 2. I 3. (MENTS/CRASH REDUCTION METHOD: ssh Reduction Factors from the following source were used FHWA Desktop Reference for Crash Reduction Factors EDOT approved Technical Report "Update of Florida Crash I EMFClearinghouse org website Engineering Judgement				es to improve	e the Develo	pment of Dis	trict Safety	/ Improvi	ement Projects"				
HIGH (CRASH LISTINGS:													
L														

PROJECT NET PRESENT VALUE (NPV)

Desired Manage	SR 134 at California Avenue	Manage B				- 0			- 0				40		401	40	- 44	451	40	4-7	40	40	00	04	- 00
Project Name	SR 134 at California Avenue	Year #	0	1	2	3	4	5	6	- /	8	9	10	11	12	13	14	15	16	1/	18	19	20	21	22
Current Year	2019	Calendar Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Project Completion	2022	Estimated Cost	\$186,715																						
Project Life	20	Estimated Benefits				182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925	182,925
Project Category	Corridor Improvements	Calculation																							
Discount Rate	0.04	Discount Factor	1.000	0.962	0.925	0.889	0.855	0.822	0.790	0.760	0.731	0.703	0.676	0.650	0.625	0.601	0.577	0.555	0.534	0.513	0.494	0.475	0.456	0.439	0.422
Project Ends	2041	Discounted Cost	-186,715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Discounted Benefits	0	0	0	162,620	156,365	150,351	144,568	139,008	133,662	128,521	123,578	118,825	114,254	109,860	105,635	101,572	97,665	93,909	90,297	86,824	83,485	80,274	77,186
	DRAFT	NPV	2,111,742																						

					Stat	e of Florio	da Depart	ment of T	ransporta	tion					
						(CRASH SU	JMMAR'	Υ						
SECTION:			7222	.0000						STA	TE ROUTE:		1;	34	
INTERSECT	ING ROADW	AY:	SR 134/ Kir	nkaid Rd				M.P.	6.103	TO	NA	ENGINEER:	AECOM		
STUDY PER	IOD:		FROM	1/	2012			TO	12/	2012		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		RIBUTING C EHICLE ONL	
1	6.101	11/22/12	Thu	1820		Angle		0	0	1	Night	Dry	lr	mproper Tur	'n
2	6.103	07/08/12	Sun	1430		Angle		0	0	1	Day	Dry	Careless	or Negligen	t Manner
3	6.103	10/27/12	Sat	1147		Angle		0	3	0	Day	Dry	Failed to	Yield Right	-Of-Way
4	6.103	09/21/12	Fri	1630		Angle		0	0	1	Day	Dry	Careless	or Negligen	t Manner
5	6.103	12/08/12	Sat	1511		Angle		0	1	0	Day	Dry	Failed to	Yield Right	-Of-Way
6	6.103	09/28/12	Fri	1635		Angle		0	0	1	Day	Dry	Failed to	yield Right	-Of-Way
										Backed			Fixed	Ran into	
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Object	Water	Other
7	0	2	4	0	0	6	0	0	0	0	0	0	0	0	0
Percent	0.00%	28.57%	57.14%	0.00%	0.00%	85.71%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	5	1	0	6	2	3	1	0	0	0	0	0	0	0	0
Percent	71.43%	14.29%	0.00%	85.71%	28.57%	42.86%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

					Stat		•	ment of T JMMAR		tion					
SECTION: INTERSECT	ING ROADW	AY:	7222 SR 134/ Kir	0000 nkaid Rd				M.P.	6.103	STA TO	TE ROUTE: NA	ENGINEER:		34	
STUDY PER	IOD:		FROM	1/	2013			ТО	12/	2013		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		TRIBUTING C EHICLE ONL	
7	6.103	02/13/13	Wed	2045		Angle		0	2	0	Night	Wet	Failed to	o Yield Right	-Of-Way
8	6.103	11/14/13	Thu	0840		Angle		0	1	0	Day	Dry	Failed to	o Yield Right	-Of-Way
9	6.103	02/13/13	Wed	2045		Angle		0	2	0	Night	Wet	Failed to	o Yield Right	-Of-Way
10	6.103	04/06/13	Sat	1306		Angle		0	0	1	Day	Dry		Not Coded	
11	6.103	08/07/13	Wed	1210		Angle		0	1	0	Day	Dry	Failed to	o Yield Right	-Of-Way
12	6.103	08/23/13	Fri	1800		Angle		0	2	0	Night	Wet	ll	mproper Tur	'n
13	6.103	10/20/13	Sun	1235		Head-On		0	3	0	Day	Dry		o Yield Right	,
14	6.103	04/29/13	Mon	1951		Angle		0	2	0	Night	Wet	Careless	or Negligen	t Manner
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
8	0	7	1	0	1	7	0	0	0	0	0	0	0	0	0
Percent	0.00%	87.50%	12.50%	0.00%	12.50%	87.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	4	4	4	4	1	5	1	0	0	0	0	0	0	0	0
Percent	50.00%	50.00%	50.00%	50.00%	12.50%	62.50%	12.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

						State of Fl		oartment of SUMM		ortation					
SECTION:			7222	0000						STA	TE ROUTE:			134	
INTERSECTI	NG ROADW	AY:	SR 134/ Kir	nkaid Rd				M.P.	6.103	TO	NA	ENGINEER:	AECOM		
STUDY PER	IOD:	•	FROM	1/	2014			TO	12/	2014		COUNTY:	Duval		
No.	MILE POST	DATE	DAY	TIME	(CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		ITRIBUTING CA (VEHICLE ONL)	
15	6.103	03/01/14	Sat	1947		Angle		0	5	0	Night	Dry	Failed	to Yield Right-	Of-Way
16	6.103	04/18/14	Fri	1021		Angle		0	3	0	Day	Wet		Ran Stop Sign	1
17	6.103	05/14/14	Wed	1817		Angle		0	1	0	Day	Dry		Ran Stop Sign	1
18	6.103	09/02/14	Tue	1622		Angle		0	0	1	Day	Wet		Not Coded	
19	6.103	08/02/14	Sat	1557		Angle		0	2	0	Day	Wet		to Yield Right-	,
20	6.103	08/16/14	Sat	0700		Angle		0	0	1	Day	Dry		to Yield Right-	
21	6.103	11/29/14	Sat	2308		Angle		0	2	0	Night	Dry		to Yield Right-	
22	6.103	12/07/14	Sun	1552		Angle		0	0	1	Day	Wet	Careles	s or Negligent	Manner
23	6.103	11/22/14	Sat	1240		Angle		0	1	0	Day	Dry		Not Coded	
										Backed				Ran into	
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Fixed Object	Water	Other
9	0	6	3	0	0	9	0	0	0	0	0	0	0	0	0
Percent	0.00%	66.67%	33.33%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.									Exceeded	Improper	Disreg	Erratic/			
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Cntl Dev	Aggress	Ran off Road	DUI	Wrong Way
Total	7	2	4	5	1	4	0	0	0	0	0	0	0	0	0
Percent	77.78%	22.22%	44.44%	55.56%	11.11%	44.44%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

					Stat		•	ment of T UMMAR	•	tion					
SECTION:				0000							TE ROUTE:			34	
INTERSECT STUDY PER	ING ROADW IIOD:	AY:	SR 134/ Kir FROM		2015			M.P. TO		TO 2015	NA	ENGINEER: COUNTY:			
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY		TRIBUTING C EHICLE ONL	
24	6.103	06/08/15	Mon	0810		Angle		0	0	1	Day	Dry	Failed to	o Yield Right	-Of-Way
25	6.103	05/24/15	Sun	1830		Angle		0	0	1	Day	Dry	Failed to	o Yield Right	-Of-Way
26	6.103	11/13/15	Fri	1250		Angle		0	0	1	Day	Dry	Failed to	o Yield Right	-Of-Way
27	6.103	12/12/15	Sat	1235		Angle		0	0	1	Day	Dry	Careless	or Negligen	Manner
										Backed			Fixed	Ran into	
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Object	Water	Other
4	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0
Percent	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Dev	Aggress	Road	DUI	Way
Total	4	0	0	4	1	3	0	0	0	0	0	0	0	0	0
Percent	100.00%	0.00%	0.00%	100.00%	25.00%	75.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

	State of Florida Department of Transportation CRASH SUMMARY																	
SECTION:			7222	.0000				STATE ROUTE: 134										
INTERSECTING ROADWAY: SR 134/ Kinkaid Rd								M.P.	6.103	TO	NA	ENGINEER:	AECOM					
STUDY PER	RIOD:		FROM	1/	2016			TO	12/	2016		COUNTY:	TY: Duval					
No.	MILE POST	DATE	DAY	TIME		CRASH TYPE		FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)					
28	6.103	12/30/16	Fri	1838		Angle		0	0	1	Day	Dry	Careless	Manner				
29	6.103	02/21/16	Sun	1337		Angle		0	2	0	Day	Dry	F	1				
30	6.103	06/30/16	Thu	1750		Angle		0	4	0	Day	Dry	Failed to Yield Right-Of-Wa					
31	6.103	06/21/16	Tue	0840		Sideswipe		0	2	0	Day	Dry	Careless or Negligent Manne					
32	6.103	09/21/16	Wed	1555		Left-Turn		0	0	1	Day	Dry	No Contributing Action					
33	6.103	11/15/16	Tue	1202		Angle		0	1	0	Day	Dry	Failed to Yield Right-Of-Way					
34	6.107	09/25/16	Sun	0257		Angle		0	1	0	Night	Dry		Not Coded				
										Backed			Fixed	Ran into				
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Into	Ped/Bike	Parked Car	Object	Water	Other			
7	0	5	2	0	0	5	1	0	1	0	0	0	0	0	0			
Percent	0.00%	71.43%	28.57%	0.00%	0.00%	71.43%	14.29%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
Contrib.					Careless		Improper	Ran Red	Exceeded	Improper	Disreg Cntl	Erratic/	Ran off		Wrong			
Cause	Day	Night	Wet	Dry	Driving	FTYRW	Turn	Light	Speed	Passing	Dev	Aggress	Road	DUI	Way			
Total	6	1	0	7	2	2	0	0	0	0	0	0	0	0	0			
Percent	85.71%	14.29%	0.00%	100.00%	28.57%	28.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			

ESTIMATED CRASH REDUCTION SR 134 at Kinkaid Road

IMPROVEMENT	CRF Source		NUMBER OF	OF CRASHES POTENTIALLY IMPACTED (2012-2016)				ARF ^x							ESTIM	AVERAGE CRASH REDUCTION PER YR				
		ANGLE	ANGLE LEFT-TURN SIDESWIPE FIXED GUAI		GUARDRAIL	NIGHT	ANGLE	LEFT-TURN	SIDESWIPE FIXED				ANGLE	LEFT-TURN	SIDESWIPE FIXED		GUARDRAIL	NIGHT	NEDOOTION EN IN	
MODIFY MEDIAN OPENING BY RESTRICTING LEFT- TURN/THROUGH MOVEMENTS FROM MINOR ROAD	3	33.0			1.0			0.57			0.57			18.81			0.57			3.88
																				0.00
																				0.00
																				0.00

FHWA Desktop Reference for Crash Reduction Factors
 FDOT approved Technical Report "Update of
 CMFClearinghouse.org website
 Fingineering Judgement

NUMBER OF CRASHES (Per Year) THAT ARE LIKELY TO BE REDUCED WITH PROPOSED IMPROVEMENTS =

FORM	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION D SAFETY OFFICE ANNUAL BENEFIT COST ANALYSIS													
1. 2. 3. 4.	SUBMITTED BY DATE SUBMITTED PROJECT NO. ALTERNATIVE NO.									WPA NO.			SAFETY STUDY ENV. STUDY SKID (ID) SPEED	45 to 65 MPH
6.	DISTRICT 2							SECTION		72220000			SR 134 a	at Kinkaid Road
7.	BEGIN MILE POST	_	_	_	6.103		END MILE P	OST		6.203	LENGTH	0.1	NODE	
8.	DESCRIPTION OF LOCATION/FACILITY TYPE													
	Unsignalized intersection (median opening)													
9.	CAUSE OF ACCIDENT PROBLEMS (LIST AND DISCUSS) [Angle/left-turn crashes related to median opening													
10.	PROPOSED IMPROVEMENTS (LIST AND DISCUSS): Modify median opening by restricting left-turn/through	n movements	s from minor	road										
	YEAR	2012	2013	2014	2015	2016	AVG				14. CRASH INFORMA		ACILITY	400.50
11. 12.	No. of Crashes No. of Crashes Potentially Reduced By Project	11	12	17 19.4	12	13	14.0 3.88	J			COST/CRASH S			123,598 -100
13.	ТУРЕ	2012	2013	2014	2015	2016	Total	15.		ANNUAL COST OF IMP	PROVEMENTS			
	ALL	11	12	17	12	13	65			TYPE	COST		AN'L FACTOR	
									A. B.	UTILITY LIGHTING		20 15		\$ - \$ -
						 			C. D.	SIGNALIZATION SIGNING & PVMNT	\$ 4,079.5	10 56 6		\$ - \$ 778.22
									E.	ROADWAY	\$ 75,702.9	92 20	0.0736	\$ 5,570.35
									F. G.	CONT MOT	\$ 4,739.0 \$ 7,978.2			\$ 348.71 \$ 587.05
		<u> </u>				-	<u> </u>		H. I.	MOB SUBTOTAL	\$ 7,020.8 \$ 99,520.6			\$ 516.61 \$ 7,322.90
									J.	PE/CEI	\$ 59,712.4	40 20	0.0736	\$ 4,393.74
									K. L.	RIGHT-OF-WAY CRASH CLEANUP	<u>\$</u> -		0.0899	\$ - (\$388.00)
								16.	М.	TOTAL	\$ 159,233.0)6		\$ 19,129.60
									BENEF	TIT				\$479,560
								17.						
	TOTAL	11	12	17	12	13	65		BENEF	FIT / COST				25.07
PREP/ AECO!	ARED BY:									OVED BY: Jkon (Cody) Ko, P.E. (Distr	rict 2 Safety Engineer)		DATE: March 2019	
Cra 1. 2. 3. 4.	MENTS/CRASH REDUCTION METHOD: ssh Reduction Factors from the following source were used HMVA Desktop Reference for Crash Reduction Factors DOT approved Technical Report "Update of Florida Crash I CMFClearinghouse org website inglineering Judgement CRASH LISTINGS:				es to improve	the Develop	pment of Dis	trict Safety	r Improve	ement Projects"				

PROJECT NET PRESENT VALUE (NPV)

E							- 1		-1		-1	-1													
Project Name	SR 134 at Kinkaid Road	Year #	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Current Year	2019	Calendar Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Project Completion	2022	Estimated Cost	\$159,233																						
Project Life	20	Estimated Benefits				479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560	479,560
Project Category	Corridor Improvements	Calculation																							
Discount Rate	0.04	Discount Factor	1.000	0.962	0.925	0.889	0.855	0.822	0.790	0.760	0.731	0.703	0.676	0.650	0.625	0.601	0.577	0.555	0.534	0.513	0.494	0.475	0.456	0.439	0.422
Project Ends	2041	Discounted Cost	-159,233	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Discounted Benefits	0	0	0	426,327	409,930	394,164	379,003	364,426	350,410	336,933	323,974	311,513	299,532	288,011	276,934	266,283	256,041	246,193	236,724	227,620	218,865	210,447	202,353
	DRAFT	NPV	5,866,451																						