



E.G. Miles Parkway SR 196 / SR 119

Corridor Study

Table of Contents

Introduction	4
Background and Purpose	4
Stakeholder Engagement.....	7
Existing Conditions	10
Site Visits and Field Observations	10
Traffic Data	13
Safety Analysis.....	20
Zoning and Land Use	27
Transportation Network and Operations	29
Traffic Capacity Analysis.....	29
Future Conditions	35
Transportation and Development Projects	35
Future Traffic Projections Methodology	36
Growth Rate	36
Trip Generation for U-Turns	37
Future No-Build Scenario	37
Observations	44
Future Build Scenario	44
Signal Warrant Summary.....	44
ICE Analysis Summary.....	58
Conclusions and Recommendations	62
Preferred Intersection Design	62
Priority Improvement Project Recommendations.....	64
General Recommendations and Conclusions.....	67



Table of Figures

Figure 1: E.G. Miles Corridor Reference Map.....	5
Figure 2: Stakeholder Survey Feedback (Existing Bicycle and Walking Conditions)*	8
Figure 3: Stakeholder Survey Feedback (Corridor Improvement Needs)*	8
Figure 4: Stakeholder Survey Feedback (Corridor Improvement Needs)*.....	9
Figure 5: E.G. Miles Pkwy at W 15th St Morning Peak Period Intersection Queuing	10
Figure 6: E.G. Miles Pkwy At W 15th St Evening Peak Period Intersection Queuing.....	11
Figure 7: E.G. Miles Pkwy At Veterans Pkwy Morning Peak Period Intersection Queuing	11
Figure 8: E.G. Miles Pkwy At Veterans Pkwy Evening Peak Period Intersection Queuing	12
Figure 9: E.G. Miles Pkwy At Gen Screven Way Morning Peak Period Intersection Queuing	12
Figure 10: E.G. Miles Pkwy At Gen Screven Way Evening Peak Period Intersection Queuing.....	13
Figure 11: Traffic Count Location Map	15
Figure 12: Existing Turning Movement Traffic Counts (2021)	16
Figure 13: Existing Bi-Directional Traffic Counts (2021)	17
Figure 14: Existing Bi-Directional Traffic Counts (2021)	18
Figure 15: Existing Bi-Directional Classification Counts (2021)	19
Figure 16: Existing Missing Pedestrian Crosswalk At E.G. Miles Parkway And General Screven Way ...	26
Figure 17: Weekly Speed Profile for Count Station 179-0121	26
Figure 18: Weekly Speed Profile for Count Station 179-0123	27
Figure 19: E.G. Miles Parkway Study Area Existing Zoning	28
Figure 20: Segment 2 (W 15th St to Veterans Pkwy) Existing Intersection Control with Lane Geometry	30
Figure 21: Segment 1 (Veterans Pkwy W Gen Screven Way) Existing Intersection Control With Lane Geometry	31
Figure 22: Existing LOS and Delay Results (W 15th St to Miles Crossing).....	32
Figure 23: Existing LOS And Delay Results (Live Oak Drive To Veterans Parkway)	33
Figure 24: Existing LOS And Delay Results (Deal Street To W General Screven Way).....	34
Figure 25: GDOT Projects Within The Study Area	35
Figure 26: GDOT Projects Within The Study Area	36
Figure 27: 2025 No Build LOS And Delay Results (W 15th St To Miles Crossing)	38
Figure 28: 2025 No Build LOS And Delay Results (Live Oak Dr To Veterans Pkwy)	39
Figure 29: 2025 No Build LOS And Delay Results (Deal St to W General Screven Way)	40
Figure 30: 2045 No Build LOS And Delay Results (W 15th St To Miles Crossing)	41
Figure 31: 2045 No Build LOS And Delay Results (Live Oak Dr To Veterans Pkwy)	42
Figure 32: 2045 No Build LOS And Delay Results (Deal St To W General Screven Way)	43
Figure 33: 2025 Build LOS And Delay Results (W 15 th St To Miles Crossing)	46
Figure 34: 2025 Build LOS And Delay Results (Live Oak Dr To Veterans Pkwy)	47
Figure 35: 2025 Build LOS And Delay Results (Deal St To W General Screven Way).....	48
Figure 36: 2045 Build LOS And Delay Results (W 15th St To Miles Crossing)	49
Figure 37: 2045 Build LOS And Delay Results (Live Oak Dr To Veterans Pkwy)	50
Figure 38: 2045 Build LOS And Delay Results (Deal St To W General Screven Way).....	51
Figure 39: Full Build Los And Delay Results (W 15th St To Miles Crossing)	52
Figure 40: Full Build Los And Delay Results (Live Oak Dr To Veterans Pkwy)	53
Figure 41: Full Build Los And Delay Results (Deal St To W General Screven Way).....	54
Figure 42: Proposed Center Median Openings (W 15th St To Miles Crossing)	55
Figure 43: Proposed Center Median Openings (Live Oak Dr To Veterans Pkwy)	56
Figure 44: Proposed Center Median Openings (Deal St To W General Screven Way)	57
Figure 45: Example Of A Conventional Minor Street/ Two-Way Stop Control (TWSC) Intersection	59



Figure 46: Example of a High-T Intersection	60
Figure 47: Example of A Reduced Conflict U-Turn (RCUT) Intersection.....	60
Figure 48: Example of a Conventional Traffic Signal Intersection	61
Figure 49: Example of a Continuous Green Intersection	61
Figure 50: Example of a Signalized RCUT Intersection.....	62

List of Tables

Table 1: Historical GDOT Count Station Data.....	14
Table 2: E.G. Miles Parkway Segment 1: Corridor vs State Crash Data.....	20
Table 3: E.G. Miles Parkway Segment 2: Corridor vs State Crash Data.....	20
Table 4: Airport Dr/W 15th St and E.G. Miles Parkway Crash Data	21
Table 5: Curtis Rd and E.G. Miles Parkway Crash Data.....	21
Table 6: Live Oak Church Rd and E.G. Miles Parkway Crash Data.....	21
Table 7: Miles Xing and E.G. Miles Parkway Crash Data	22
Table 8: Live Oak Dr and E.G. Miles Parkway Crash Data	22
Table 9: Pineland Ave and E.G. Miles Parkway Crash Data	22
Table 10: Willowbrook Dr/ Sharon St and E.G. Miles Parkway Crash Data	23
Table 11: Veterans Pkwy and E.G. Miles Parkway Crash Data.....	23
Table 12: Deal St and E.G. Miles Parkway Crash Data.....	23
Table 13: Arlington Dr/ Surrey Rd and E.G. Miles Parkway Crash Data	24
Table 14: Liberty Regional Medical Center and E.G. Miles Parkway Crash Data	24
Table 15: W General Screven Way and E.G. Miles Parkway Crash Data	24
Table 16: Liberty County Specific Zoning Districts.....	27
Table 17: City Of Hinesville Specific Zoning Districts	28
Table 18: GDOT Count Station Growth Rate	37
Table 19: Signal Warrant Analysis Summary.....	45
Table 20: ICE Results Summary.....	59
Table 21: Unsignalized Intersections Preferred Design.....	62
Table 22: Signalized Intersections Recommended Improvements	62
Table 23: Left Turn Phasing Recommendations	64
Table 24: Short Term Project Recommendations.....	65
Table 25: Mid-Term Project Recommendations	65
Table 26: Long-Term Project Recommendations	65

Appendix A: Traffic Counts

Appendix B: Synchro Analysis Results (Unsignalized Intersections)

Appendix C: Synchro Analysis Results (Signalized Intersections)

Appendix D: Synchro Analysis Results (Full Build Condition)

Appendix E: ICE and Signal Warrants

Appendix F: Intersection Analysis Memo – Deal Street at E.G. Miles Parkway

Appendix G: Detailed Concept



Appendix E:

ICE and Signal Warrants



GDOT PI#: Request By:

County: GDOT District: 5 - Jesup

Major Road: Road Class: Speed Limit:

Crossing Road: Road Class: Speed Limit:

Major Rd Direction: Area Type:

Intersection Control: Project ID:

Prepared By: Date:

Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 93%
Arlington Ave: 7%

2022 EXISTING YEAR VOLUMES

#

PEAK HR % TRUCKS:

EB	WB	NB	SB
2%	2%	0%	0%

Existing Data Year:

Project Opening Year:

Project Design Year:

Annual Growth Rate:

K Factor*:

* K Factor = Proportion of average annual daily traffic occurring in the highest one hour of the day

2022 OPENING YEAR VOLUMES

22	SB Arlington Ave	66 (54) [1700]							
22		(0)	(31)	(0)	(23)				
%		0	21	0	45				
%						WB EG Miles Pkwy			
		Peds	↶	↷	↷	Peds	0	(0)	1500 472.04 (773.7)
14800 996.1 (666.98)	(49)	19	↶	2022 Intersection Daily Entering Volume (est): 15,900	↶	9	(66)		
	(611)	974	↷		↷	461	(699)		
	(7)	3	↶		↶	2	(9)		
	(0)	0	Peds		↶	↷	↷	Peds	
EB EG Miles Pkwy				4	0	10	0	NB Arlington Ave	
Coach Volume				(5)	(0)	(4)	(0)		
Coach Volume				14 (9) [300]					

2022 DESIGN YEAR VOLUMES

SB Arlington Ave		66 (54) [1700]							
		(0)	(31)	(0)	(23)				
		0	21	0	45				
						WB EG Miles Pkwy			
		Peds	↶	↷	↶	Peds	0	(0)	517.24 (842.2) [16400]
		2022 Intersection Daily Entering Volume (est):				↶	9	(66)	
		17,300				↶	506	(767)	
						↶	2	(9)	
EB EG Miles Pkwy		Peds	↶	↷	↶	Peds	NB Arlington Ave		
				4	0	10	0		
				(5)	(0)	(4)	(0)		
				14 (9) [300]					
1091.6 (726.88) [16200]		(49)	19	↶	2022 Intersection Daily Entering Volume (est): 17,300	↶	9	(66)	517.24 (842.2) [16400]
		(671)	1,070	↷		↶	506	(767)	
		(7)	3	↶		↶	2	(9)	
		(0)	0	Peds		↶			

LEGEND:

- 000 = AM Peak Approach Volume
- (000) = PM Peak Approach Volume
- [000] = ADT Volume (Estimate)

Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: **1)** the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or **2)** the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

Two-Stage Process: A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

Stage 1: Screening Decision Record Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves as a screening effort meant to *eliminate* non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column.

Stage 2: Alternative Selection Decision Record Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation.

Documentation: A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 1 and Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.

GDOT PI #									
Project Location:		EG Miles Pkwy @ Arlington Ave							
Existing Control:		Conventional (Minor Stop)							
Prepared by:		Atlas Technical Consultants							
Date:		8/1/2022							
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project? 2. Does alternative improve safety performance in terms of reducing severe crashes? 3. Does alternative incorporate safety performance in operations (congestion, delay, or preserve) traffic characteristics, delay, reliability, etc.? 4. Does alternative appear feasible given the site respect to other project factors? 5. Does alternative appear feasible with respect to other project factors? 6. Does alternative appear feasible with respect to other project factors? 7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>							
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>		<p>Screening Decision Justification:</p>							
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Current Control
	Conventional (All-Way Stop)	No	No	No	No	No	No	No	Too many lanes on mainline
	Mini Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	Single Lane Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	Multilane Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	RCUT (stop control)	Yes	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	RIRO w/down stream U-Turn	No	No	No	No	No	No	No	U Turn restriction
	High-T (unsignalized)	No	No	No	No	No	No	No	U Turn restriction
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg Intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation
	Add LT Lanes on Arlington Ave	Yes	Yes	No	No	Yes	Yes	Yes	Potential Alternative
	No RT Lane Improvements								
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No	No signal warranted
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	No signal warranted
	RCUT (signalized)	No	No	No	No	No	No	No	No signal warranted
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	No signal warranted
	Continuous Green-T	No	No	No	No	No	No	No	No signal warranted
	Jughandle	No	No	No	No	No	No	No	No signal warranted
	Quadrant Roadway	No	No	No	No	No	No	No	No signal warranted
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	No signal warranted
	Diverging Diamond	No	No	No	No	No	No	No	No signal warranted
	Single Point Interchange	No	No	No	No	No	No	No	No signal warranted
	No LT Lane Improvements	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Arlington Ave
 Existing Intersection Control: Conventional (Minor Stop)
 Type of Analysis: Safety Funded Project

District: 5 - Jesup
 County: Liberty
 Area: Suburb/Transit

GDOT PI #:
 Prepared by: Atlas Technical Cons
 Date: 8/1/2022

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2022 Opening Yr No-Build Peak Hr Intersection Delay	28.9 sec	37.7 sec	
2022 Opening Yr No-Build Peak Hr Intersection V/C	0.33	0.23	
2022 Design Yr No-Build Peak Hr Intersection Delay	35.5 sec	30.3 sec	
2022 Design Yr No-Build Peak Hr Intersection V/C	0.33	0.29	

Crash Type	Crash Severity					Years:
	K*	A*	B*	C*	O	
Crash Data: Enter most recent 5 years of crash data						
Angle	0	1	0	4	5	26%
Head-On	0	0	0	1	0	3%
Rear End	0	0	0	4	19	61%
Sideswipe - same	0	0	0	2	1	8%
Sideswipe - opposite	0	0	0	0	0	0%
Not Collision w/Motor Veh	0	0	0	0	1	3%
TOTALS:	0	1	0	11	26	38

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

Construction Cost	\$0	\$299,000	\$114,000		
ROW Cost	\$0	\$253,000	\$0		
Environmental Cost	\$0	\$0	\$0		
Reimbursable Utility Cost	\$0	\$4,000	\$1,000		
Design & Contingency Cost	\$0	\$0	\$0		
Cost Adjustment (justification req'd)	0%	0%	0%		
Total Cost	\$0	\$556,000	\$115,000		

Traffic Operations:

	Synchro		Synchro		Synchro			
Traffic Analysis Software Used	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
Analysis Period	35.5 sec	30.3 sec	13.2 sec	11.8 sec	51.3 sec	49.1 sec		
2022 Design Yr Build Intersection Delay	0.33	0.29	0.10	0.10	0.05	0.24		
2022 Design Yr Build Intersection V/C								

Safety Analysis:

Predefined CRF: PDO	0%	31%	3%		
Predefined CRF: Fatal/Inj	0%	53%	2%		
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 270 / 274		
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None		
Archaeology Resources	None	None	None		
Graveyard	None	None	None		
Stream	None	None	None		
Underground Tank/Hazmat	None	None	None		
Park Land	None	None	None		
EJ Community	None	None	None		
Wooded Area	None	None	None		
Wetland	None	None	None		

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown		
GDOT Support	Unknown	Unknown	Unknown		

Final ICE Stage 2 Score:	4.4	6.3	6.0		
Rank of Control Type Alternatives:	3	1	2		
Final Intersection Control Selection:	1 - RCUT (stop control)				

Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy and Arlington Ave/ Surrey Dr

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
 MINOR STREET: Cross Street Arlington Ave/ Surrey Dr

OF APPROACH LANES: 2
 # OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

				MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3		
						MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B						
												MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET				
THRESHOLD VALUES								420	105		630	53		480	120		720	60			
06:00 AM	TO	07:00 AM	696	37	Y			Y			Y			Y							
07:00 AM	TO	08:00 AM	885	49	Y			Y			Y			Y							
08:00 AM	TO	09:00 AM	1,380	41	Y			Y			Y			Y							
09:00 AM	TO	10:00 AM	1,355	32	Y			Y			Y			Y							
10:00 AM	TO	11:00 AM	797	32	Y			Y			Y			Y							
11:00 AM	TO	12:00 PM	969	24	Y			Y			Y			Y							
12:00 PM	TO	01:00 PM	1,289	19	Y			Y			Y			Y							
01:00 PM	TO	02:00 PM	1,316	29	Y			Y			Y			Y							
02:00 PM	TO	03:00 PM	1,395	32	Y			Y			Y			Y							
03:00 PM	TO	04:00 PM	1,439	14	Y			Y			Y			Y							
04:00 PM	TO	05:00 PM	1,537	21	Y			Y			Y			Y							
05:00 PM	TO	06:00 PM	1,566	20	Y			Y			Y			Y							
06:00 PM	TO	07:00 PM	1,416	22	Y			Y			Y			Y							
07:00 PM	TO	08:00 PM	1,044	15	Y			Y			Y			Y							
08:00 PM	TO	09:00 PM	680	8	Y			Y			Y										
09:00 PM	TO	10:00 PM	558	3	Y						Y										
					0			0			00						0	0			
					8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED	1 HR NEEDED NOT SATISFIED			

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy at Curtis St

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
 MINOR STREET: Cross Street Curtis St

OF APPROACH LANES: 2
 # OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

			MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3	
					MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B					
											MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET			
THRESHOLD VALUES →					420	105		630	53		480	120		720	60				
06:00 AM	TO	07:00 AM	902	7	Y			Y			Y			Y					
07:00 AM	TO	08:00 AM	1,787	37	Y			Y			Y			Y					
08:00 AM	TO	09:00 AM	1,340	17	Y			Y			Y			Y					
09:00 AM	TO	10:00 AM	1,098	20	Y			Y			Y			Y					
10:00 AM	TO	11:00 AM	1,019	15	Y			Y			Y			Y					
11:00 AM	TO	12:00 PM	1,152	17	Y			Y			Y			Y					
12:00 PM	TO	01:00 PM	1,218	10	Y			Y			Y			Y					
01:00 PM	TO	02:00 PM	1,262	14	Y			Y			Y			Y					
02:00 PM	TO	03:00 PM	1,538	22	Y			Y			Y			Y					
03:00 PM	TO	04:00 PM	1,537	12	Y			Y			Y			Y					
04:00 PM	TO	05:00 PM	1,728	15	Y			Y			Y			Y					
05:00 PM	TO	06:00 PM	1,897	14	Y			Y			Y			Y					
06:00 PM	TO	07:00 PM	1,283	7	Y			Y			Y			Y					
07:00 PM	TO	08:00 PM	948	7	Y			Y			Y			Y					
08:00 PM	TO	09:00 PM	606	4	Y						Y								
09:00 PM	TO	10:00 PM	499	4	Y						Y								
			19,814	222	0			0			00						0	0	
						8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED	1 HR NEEDED NOT SATISFIED

GDOT PI#: Request By:

County: GDOT District: 5 - Jesup

Major Road: Road Class: Speed Limit:

Crossing Road: Road Class: Speed Limit:

Major Rd Direction: Area Type:

Intersection Control: Project ID:

Prepared By: Date:

Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 97%
 Curtis St: 3%

2022 EXISTING YEAR VOLUMES

ACH SPLITS:											
Pkwly: 97%											
Curtis St: 3%											

GDOT PI #		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project?</p> <p>2. Does alternative improve safety performance in terms of reducing severe crashes?</p> <p>3. Does alternative incorporate safety performance in operations (congestion, delay, reliability, etc.)?</p> <p>4. Does alternative improve (or preserve) convenience characteristics, delay, reliability, etc.?</p> <p>5. Does alternative appear feasible given the site respect to other project factors?</p> <p>6. Does alternative appear feasible with respect to other project factors?</p> <p>7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p> <p>Screening Decision Justification:</p>									
Project Location:										EG Miles Pkwy @ Curtis St	
Existing Control:										Conventional (Minor Stop)	
Prepared by:										Atlas Technical Consultants	
Date:										8/1/2022	
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>											
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>											
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Existing Conditions		
	Conventional (All-Way Stop)	No	Yes	Yes	No	Yes	No	No	Volume too high on the major street		
	Mini Roundabout	No	Yes	No	No	No	No	No	Non balance volumes		
	Single Lane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes		
	Multilane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes		
	RCUT (stop control)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative		
	RIRO w/down stream U-Turn	No	Yes	No	Yes	Yes	Yes	No	Potential Alternative		
	High-T (unsignalized)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative		
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg intersection		
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation		
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation		
	Add LT Lanes on Curtis St	No	No	No	No	No	No	Yes	Potential Alternative		
	No RT Lane Improvements	No	No	No	No	No	No	No			
	Other unsignalized (provide description):	No	No	No	No	No	No	No			
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No	Signal not warranted		
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Signal not warranted		
	RCUT (signalized)	No	No	No	No	No	No	No	Signal not warranted		
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	Signal not warranted		
	Continuous Green-T	No	No	No	No	No	No	No	Signal not warranted		
	Jughandle	No	No	No	No	No	No	No	Signal not warranted		
	Quadrant Roadway	No	No	No	No	No	No	No	Signal not warranted		
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	Signal not warranted		
	Diverging Diamond	No	No	No	No	No	No	No	Signal not warranted		
	Single Point Interchange	No	No	No	No	No	No	No	Signal not warranted		
	No LT Lane Improvements	No	No	No	No	No	No	No			
	No RT Lane Improvements	No	No	No	No	No	No	No			
	Other Signalized (provide description):	No	No	No	No	No	No	No			

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Curtis St
Existing Intersection Control: Conventional (Minor Stop)
Type of Analysis: Safety Funded Project

District: 5 - Jesup
County: Liberty
Area: Suburb/Transit

GDOT PI #:
Prepared by: Atlas Technical Cons
Date: 8/1/2022

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2025 Opening Yr No-Build Peak Hr Intersection Delay	43.7 sec	39.4 sec	
2025 Opening Yr No-Build Peak Hr Intersection V/C	0.49	0.36	
2045 Design Yr No-Build Peak Hr Intersection Delay	61.1 sec	53.2 sec	
2045 Design Yr No-Build Peak Hr Intersection V/C	0.60	0.46	

Crash Data: Enter most recent 5 years of crash data	Crash Severity					Years:
	K*	A*	B*	C*	O	5
Angle	0	0	0	2	0	14%
Head-On	0	0	0	0	0	0%
Rear End	0	0	0	0	1	7%
Sideswipe - same	0	0	0	0	4	29%
Sideswipe - opposite	0	0	0	0	1	7%
Not Collision w/Motor Veh	0	0	0	0	6	43%
TOTALS:	0	0	0	2	12	14

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Conventional (Minor Stop)	RCUT (stop control)	High-T (unsignalized)	Add Left Turn Lanes	N/A	
Project Cost: (From CostEst Worksheet)	Additional description here	Additional description here	Additional description here	Additional description here	
Construction Cost	\$0	\$333,000	\$165,000	\$127,000	
ROW Cost	\$0	\$226,000	\$42,000	\$0	
Environmental Cost	\$0	\$0	\$0	\$0	
Reimbursable Utility Cost	\$0	\$4,000	\$2,000	\$1,000	
Design & Contingency Cost	\$0	\$0	\$0	\$0	
Cost Adjustment (justification req'd)	0%	0%	0%	0%	
Total Cost	\$0	\$563,000	\$209,000	\$128,000	

Traffic Operations:

Traffic Analysis Software Used	Synchro		Synchro		Synchro		Synchro			
Analysis Period	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
2045 Design Yr Build Intersection Delay	61.1 sec	53.2 sec	11.6 sec	16.3 sec	16.6 sec	26.3 sec	44.1 sec	44.1 sec		
2045 Design Yr Build Intersection V/C	0.60	0.46	0.14	0.21	0.22	0.26	0.36	0.36		

Safety Analysis:

Predefined CRF: PDO	0%	31%	23%	1%	
Predefined CRF: Fatal/Inj	0%	53%	45%	1%	
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 2753 / 2755	FHWA Clearinghouse #s 270 / 274	
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None	None	
Archaeology Resources	None	None	None	None	
Graveyard	None	None	None	None	
Stream	None	None	None	None	
Underground Tank/Hazmat	None	None	None	None	
Park Land	None	None	None	None	
EJ Community	None	None	None	None	
Wooded Area	None	None	None	None	
Wetland	None	None	None	None	

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown	Unknown	
GDOT Support	Unknown	Unknown	Unknown	Unknown	

Final ICE Stage 2 Score:	5.3	6.2	7.3	4.8	
Rank of Control Type Alternatives:	3	2	1	4	
Final Intersection Control Selection:	1 - High-T (unsignalized)				

Note: Stage 2 score is not given (shown as ".") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy at Deal St

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
MINOR STREET: Cross Street Deal St

OF APPROACH LANES: 2
OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

			MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3	
					MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B					
											MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET			
THRESHOLD VALUES →					420	105		630	53		480	120		720	60				
06:00 AM	TO	07:00 AM	696	7	Y			Y			Y								
07:00 AM	TO	08:00 AM	885	11	Y			Y			Y			Y					
08:00 AM	TO	09:00 AM	1,380	11	Y			Y			Y			Y					
09:00 AM	TO	10:00 AM	1,355	16	Y			Y			Y			Y					
10:00 AM	TO	11:00 AM	797	19	Y			Y			Y			Y					
11:00 AM	TO	12:00 PM	969	20	Y			Y			Y			Y					
12:00 PM	TO	01:00 PM	1,289	24	Y			Y			Y			Y					
01:00 PM	TO	02:00 PM	1,316	25	Y			Y			Y			Y					
02:00 PM	TO	03:00 PM	1,395	22	Y			Y			Y			Y					
03:00 PM	TO	04:00 PM	1,439	26	Y			Y			Y			Y					
04:00 PM	TO	05:00 PM	1,537	41	Y			Y			Y			Y					
05:00 PM	TO	06:00 PM	1,566	34	Y			Y			Y			Y					
06:00 PM	TO	07:00 PM	1,416	34	Y			Y			Y			Y					
07:00 PM	TO	08:00 PM	1,044	15	Y			Y			Y			Y					
08:00 PM	TO	09:00 PM	680	13	Y			Y			Y								
09:00 PM	TO	10:00 PM	558	7	Y						Y								
			18,322	325	0			0			00						0	0	
						8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED	1 HR NEEDED NOT SATISFIED


GDOT PI#: Request By:
 County: GDOT District: 5 - Jesup
 Major Road: Road Class: Speed Limit:
 Crossing Road: Road Class: Speed Limit:
 Major Rd Direction: Area Type:
 Intersection Control: Project ID:
 Prepared By: Date:
 Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 95%

Deal St: 5%

2022 EXISTING YEAR VOLUMES

ACH SPLITS:													
Pkwy: 95%				27 (9) [400]								N	
real St: 5%													
SB Deal St								WB EG Miles Pkwy					
				Peds									

GDOT PI #		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project?</p> <p>2. Does alternative improve safety performance in terms of reducing severe crashes?</p> <p>3. Does alternative incorporate safety performance in operations (congestion, delay, or preserve) traffic characteristics, delay, reliability, etc.?</p> <p>4. Does alternative appear feasible given the site respect to other project factors?</p> <p>5. Does alternative appear feasible with respect to other project factors?</p> <p>6. Does alternative appear feasible with respect to other project factors?</p> <p>7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>								
Project Location:									EG Miles Pkwy @ Deal St	
Existing Control:									Conventional (Minor Stop)	
Prepared by:									Atlas Technical Consultants	
Date:										
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>										
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>										
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes		
	Conventional (All-Way Stop)	No	No	No	No	No	No	No		
	Mini Roundabout	No	No	No	No	No	No	No		
	Single Lane Roundabout	No	No	No	No	No	No	No		
	Multilane Roundabout	No	No	No	No	No	No	Yes		
	RCUT (stop control)	No	No	No	No	No	No	Yes		
	RIRO w/down stream U-Turn	No	No	No	No	No	No	No		
	High-T (unsignalized)	No	No	No	No	No	No	No		
	Offset-T Intersections	No	No	No	No	No	No	No		
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No		
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No		
	Add LT Lanes on Deal St	No	No	No	No	No	No	Yes		
	No RT Lane Improvements	No	No	No	No	No	No	Yes		
	Other unsignalized (provide description):	No	No	No	No	No	No	No		
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No		
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No		
	RCUT (signalized)	No	No	No	No	No	No	No		
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No		
	Continuous Green-T	No	No	No	No	No	No	No		
	Jughandle	No	No	No	No	No	No	No		
	Quadrant Roadway	No	No	No	No	No	No	No		
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No		
	Diverging Diamond	No	No	No	No	No	No	No		
	Single Point Interchange	No	No	No	No	No	No	No		
	No LT Lane Improvements	No	No	No	No	No	No	No		
	No RT Lane Improvements	No	No	No	No	No	No	No		
	Other Signalized (provide description):	No	No	No	No	No	No	No		

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Deal St
Existing Intersection Control: Conventional (Minor Stop)
Type of Analysis: Safety Funded Project

District: 5 - Jesup
County: Liberty
Area: Suburb/Transit

GDOT PI #:
Prepared by: Atlas Technical Cons
Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2022 Opening Yr No-Build Peak Hr Intersection Delay	27.9 sec	43.3 sec	
2022 Opening Yr No-Build Peak Hr Intersection V/C	0.26	0.53	
2022 Design Yr No-Build Peak Hr Intersection Delay	36.1 sec	71.9 sec	
2022 Design Yr No-Build Peak Hr Intersection V/C	0.34	0.71	

Crash Data: Enter most recent 5 years of crash data	Crash Severity					Years:
	K*	A*	B*	C*	O	5
Angle	0	0	3	5	14	37%
Head-On	0	0	1	0	0	2%
Rear End	0	0	3	8	13	41%
Sideswipe - same	0	0	0	0	6	10%
Sideswipe - opposite	0	0	1	0	2	5%
Not Collision w/Motor Veh	0	0	1	0	2	5%
TOTALS:	0	0	9	13	37	59

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Conventional (Minor Stop)	Multilane Roundabout	RCUT (stop control)	Add Left Turn Lanes	N/A	
Additional description here	Additional description here	Additional description here	Additional description here	Additional description here	
Construction Cost	\$0	\$1,569,000	\$642,000	\$127,000	
ROW Cost	\$0	\$468,000	\$506,000	\$0	
Environmental Cost	\$0	\$0	\$0	\$0	
Reimbursable Utility Cost	\$0	\$18,000	\$8,000	\$1,000	
Design & Contingency Cost	\$0	\$0	\$0	\$0	
Cost Adjustment (justification req'd)	0%	+200%	+100%	0%	
Total Cost	\$0	\$2,055,000	\$1,156,000	\$128,000	

Traffic Operations:

	Synchro		GDOT RAB Tool		Synchro		Synchro			
Traffic Analysis Software Used	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
Analysis Period	36.1 sec	71.9 sec	7.9 sec	8.7 sec	15.4 sec	14.2 sec	77.6 sec	107.1 sec		
2022 Design Yr Build Intersection Delay	0.34	0.71	0.57	0.59	0.15	0.18	0.23	0.62		
2022 Design Yr Build Intersection V/C										

Safety Analysis:

Predefined CRF: PDO	0%	32%	31%	2%	
Predefined CRF: Fatal/Inj	0%	71%	53%	2%	
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	FHWA Clearinghouse #s 236 / 237	NC/MO Table 4-7	FHWA Clearinghouse #s 270 / 274	
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None	None	
Archaeology Resources	None	None	None	None	
Graveyard	None	None	None	None	
Stream	None	None	None	None	
Underground Tank/Hazmat	None	None	None	None	
Park Land	None	None	None	None	
EJ Community	None	None	None	None	
Wooded Area	None	None	None	None	
Wetland	None	None	None	None	

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown	Unknown	
GDOT Support	Unknown	Unknown	Unknown	Unknown	

Final ICE Stage 2 Score:	4.0	6.4	7.2	4.2	
Rank of Control Type Alternatives:	4	2	1	3	
Final Intersection Control Selection:	1 - RCUT (stop control)				

Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

GDOT PI#: Request By:
 County: GDOT District: 5 - Jesup
 Major Road: Road Class: Speed Limit:
 Crossing Road: Road Class: Speed Limit:
 Major Rd Direction: Area Type:
 Intersection Control: Project ID:
 Prepared By: Date:
 Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 95%
 L Regional MC: 5%

2022 EXISTING YEAR VOLUMES

ACH SPLITS:									
Pkwy: 95%									
al MC: 5%									
SB L Regional MC				12 (21) [500]					
				(0)	(11)	(2)	(8)		
				0	3	1	8		
				Peds	↶	↵	↷	Peds	WB EG Miles Pkwy
								0	(0)
				2022 Intersection Daily Entering Volume (est):				17	(8)
				15,050				440	(735)
								6	(18)
				Peds	↶	↵	↷	Peds	
EB EG Miles Pkwy								NB L Regional MC	
				8	3	18	0		
				(32)	(6)	(24)	(0)		
				29 (62) [1000]					

GDOT PI #		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project?</p> <p>2. Does alternative improve safety performance in terms of reducing severe crashes?</p> <p>3. Does alternative incorporate safety performance in operations (congestion, delay, or preserve) traffic characteristics, delay, reliability, etc.?</p> <p>4. Does alternative appear feasible given the site respect to other project factors?</p> <p>5. Does alternative appear feasible with respect to other project factors?</p> <p>6. Does alternative appear feasible with respect to other project factors?</p> <p>7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p> <p>Screening Decision Justification:</p>							
Project Location:									
Existing Control:									
Prepared by:									
Date:									
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>									
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>									
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Current Control
	Conventional (All-Way Stop)	No	No	No	No	No	No	No	Too many lanes on mainline
	Mini Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	Single Lane Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	Multilane Roundabout	No	No	No	No	No	No	No	More than 90% of volume on Mainline
	RCUT (stop control)	Yes	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	RIRO w/down stream U-Turn	No	No	No	No	No	No	No	U Turn restriction
	High-T (unsignalized)	No	No	No	No	No	No	No	U Turn restriction
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg Intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation
	Add one LT Lane on L Regional MC No RT Lane Improvements	Yes	Yes	No	No	Yes	Yes	Yes	Potential Alternative
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
	Signalized Intersections	Traffic Signal	No	No	No	No	No	No	Yes
Median U-Turn (Indirect Left)		No	No	No	No	No	No	No	No signal warranted
RCUT (signalized)		No	No	No	No	No	No	No	No signal warranted
Displaced Left Turn (CFI)		No	No	No	No	No	No	No	No signal warranted
Continuous Green-T		No	No	No	No	No	No	No	No signal warranted
Jughandle		No	No	No	No	No	No	No	No signal warranted
Quadrant Roadway		No	No	No	No	No	No	No	No signal warranted
Diamond Interch (Signal Control)		No	No	No	No	No	No	No	No signal warranted
Diverging Diamond		No	No	No	No	No	No	No	No signal warranted
Single Point Interchange		No	No	No	No	No	No	No	No signal warranted
No LT Lane Improvements No RT Lane Improvements		No	No	No	No	No	No	No	
Other Signalized (provide description):		No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ L Regional MC
Existing Intersection Control: Conventional (Minor Stop)
Type of Analysis: Safety Funded Project

District: 5 - Jesup
County: Liberty
Area: Suburb/Transit

GDOT PI #:
Prepared by: Atlas Technical Cons
Date: 8/1/2022

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2022 Opening Yr No-Build Peak Hr Intersection Delay	24.3 sec	31.1 sec	
2022 Opening Yr No-Build Peak Hr Intersection V/C	0.11	0.31	
2022 Design Yr No-Build Peak Hr Intersection Delay	29.7 sec	38.8 sec	
2022 Design Yr No-Build Peak Hr Intersection V/C	0.14	0.38	

Crash Data: Enter most recent 5 years of crash data	Crash Severity					Years:
	K*	A*	B*	C*	O	5
Angle	0	0	0	2	3	26%
Head-On	0	0	0	0	0	0%
Rear End	0	0	0	3	5	42%
Sideswipe - same	0	0	0	0	2	11%
Sideswipe - opposite	0	0	0	0	1	5%
Not Collision w/Motor Veh	1	0	0	0	2	16%
TOTALS:	1	0	0	5	13	19

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Conventional (Minor Stop)	RCUT (stop control)	Add Left Turn Lanes	Traffic Signal	N/A	
Project Cost: (From CostEst Worksheet)	Additional description here	Additional description here	Additional description here	Add LT bays all approaches	
Construction Cost	\$0	\$321,000	\$70,000	\$201,000	
ROW Cost	\$0	\$253,000	\$0	\$0	
Environmental Cost	\$0	\$0	\$0	\$0	
Reimbursable Utility Cost	\$0	\$4,000	\$1,000	\$4,000	
Design & Contingency Cost	\$0	\$0	\$0	\$0	
Cost Adjustment (justification req'd)	0%	0%	0%	0%	
Total Cost	\$0	\$578,000	\$71,000	\$205,000	

Traffic Operations:

Traffic Analysis Software Used	Synchro		Synchro		Synchro		Synchro			
Analysis Period	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
2022 Design Yr Build Intersection Delay	29.7 sec	38.8 sec	13.2 sec	11.7 sec	51.5 sec	50.8 sec	0.0 sec	0.0 sec		
2022 Design Yr Build Intersection V/C	0.14	0.38	0.07	0.23	0.10	0.77	0.00	0.00		

Safety Analysis:

Predefined CRF: PDO	0%	31%	1%	39%	
Predefined CRF: Fatal/Inj	0%	53%	1%	40%	
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 270 / 274	FHWA Clearinghouse #s 7982 / 7984	
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None	None	
Archaeology Resources	None	None	None	None	
Graveyard	None	None	None	None	
Stream	None	None	None	None	
Underground Tank/Hazmat	None	None	None	None	
Park Land	None	None	None	None	
EJ Community	None	None	None	None	
Wooded Area	None	None	None	None	
Wetland	None	None	None	None	

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown	Unknown	
GDOT Support	Unknown	Unknown	Unknown	Unknown	

Final ICE Stage 2 Score:	4.5	5.1	4.2	-	
Rank of Control Type Alternatives:	2	1	3	-	
Final Intersection Control Selection:	1 - RCUT (stop control)				




























Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

GDOT PI#: Request By: HAMPO
 County: Liberty GDOT District: 5 - Jesup
 Major Road: EG Miles Pkwy Road Class: Minor Arterial Speed Limit: 45 mph
 Crossing Road: Live Oak Church Road Class: Local Speed Limit: 35 mph
 Major Rd Direction: East/West Area Type: Suburb/Transition
 Intersection Control: Conventional (Minor Stop) Project ID:
 Prepared By: Atlas Technical Consultants Date:
 Project Purpose:

APPROACH SPLITS:
 EG Miles Pkwy: 95%
 Live Oak Church: 5%

2022 EXISTING YEAR VOLUMES

ACH SPLITS:																	
Pkwy: 95%																	
Church: 5%																	
SB Live Oak Church				125 (85) [1900]													
				(0)		(51)		(0)		(34)							
				0		43		0		82							
				Peds								WB EG Miles Pkwy					
										Peds		0		(0)			
2022 Intersection Daily Entering Volume (est): 19,400										Peds		21		(24)			
										Peds		590		(1022)			
										Peds		0		(0)			
										Peds		0		(0)			
1176 (787) [18600]				(59)		40				2022 Intersection Daily Entering Volume (est): 19,400				21		(24)	
(728)				1,136								590		(1022)			
(0)				0								0		(0)			
(0)				0								0		(0)			
EB EG Miles Pkwy				0		0		0		0		NB Live Oak Church					
				(0)		(0)		(0)		(0)							
				0 (0) [0]													
TRUCKS:																	
B NB SB																	

PEAK HR % TRUCKS:
 EB WB NB SB
 0% 0% 0% 0%

2025 OPENING YEAR VOLUMES

25										
45										
%										
%										

SB Live Oak Church		125 (85) [1900]									
		(0)	(51)	(0)	(34)						
		0	43	0	82						
		Peds	↕	↕	↕	Peds	↔	0	(0)	WB EG Miles Pkwy 623 (1067) [18600]	
1199 (802) [19000]		↕	2025 Intersection Daily Entering Volume (est): 19,750			↕	21	(24)			
						↔	602	(1043)			
						↕	0	(0)			
		Peds	↕	↕	↕	Peds					
EB EG Miles Pkwy										NB Live Oak Church	
		0				0					
		(0)				(0)					
oach Volume											
oach Volume						0 (0) [0]					

2045 DESIGN YEAR VOLUMES

1320 (640) [20300]		SB Live Oak Church		125 (85) [1900]				WB EG Miles Pkwy				[00502] [20500] 686 (1176) [20300]
		(0) 40		(0)	(51)	(0)	(34)	Peds		0	(0)	
		(581) 1,280		↔	↙	↘	↙	↘	↔	21	(24)	
		(0) 0		↙	2045 Intersection Daily Entering Volume (est):				↔	665	(1152)	
(0) 0		↙	21,350				↙	0	(0)			
EB EG Miles Pkwy		↔ Peds		↙	↕	↘	↕ Peds	NB Live Oak Church				
		0		0	0	0						
		(0)		(0)	(0)	(0)						
		0 (0) [0]										

LEGEND:

000 = AM Peak Approach Volume
 (000) = PM Peak Approach Volume
 [000] = ADT Volume (Estimate)

Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: **1)** the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or **2)** the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

Two-Stage Process: A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

Stage 1: Screening Decision Record Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves as a screening effort meant to *eliminate* non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column.

Stage 2: Alternative Selection Decision Record Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation.

Documentation: A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 1 and Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.

GDOT PI #									
Project Location:		EG Miles Pkwy @ Live Oak Church							
Existing Control:		Conventional (Minor Stop)							
Prepared by:		Atlas Technical Consultants							
Date:									
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project? 2. Does alternative improve safety performance in terms of reducing severe crashes? 3. Does alternative incorporate safety performance in operations (congestion, delay, or preserve) traffic characteristics, delay, reliability, etc.? 4. Does alternative appear feasible given the site respect to other project factors? 5. Does alternative appear feasible with respect to other project factors? 6. Does alternative appear feasible with respect to other project factors? 7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>							
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>		<p>Screening Decision Justification:</p>							
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Existing Conditions
	Conventional (All-Way Stop)	No	Yes	Yes	No	Yes	No	No	Volume too high on the major street
	Mini Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Single Lane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Multilane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	RCUT (stop control)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	RIRO w/down stream U-Turn	No	Yes	No	Yes	Yes	Yes	No	Potential Alternative
	High-T (unsignalized)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation
	Add LT Lanes on Live Oak Church	No	No	No	No	No	No	Yes	Potential Alternative
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No	Signal not warranted
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Signal not warranted
	RCUT (signalized)	No	No	No	No	No	No	No	Signal not warranted
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	Signal not warranted
	Continuous Green-T	No	No	No	No	No	No	No	Signal not warranted
	Jughandle	No	No	No	No	No	No	No	Signal not warranted
	Quadrant Roadway	No	No	No	No	No	No	No	Signal not warranted
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	Signal not warranted
	Diverging Diamond	No	No	No	No	No	No	No	Signal not warranted
	Single Point Interchange	No	No	No	No	No	No	No	Signal not warranted
	No LT Lane Improvements	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Live Oak Church
 Existing Intersection Control: Conventional (Minor Stop)
 Type of Analysis: Safety Funded Project

District: 5 - Jesup
 County: Liberty
 Area: Suburb/Transit

GDOT PI #:
 Prepared by: Atlas Technical Cons
 Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2025 Opening Yr No-Build Peak Hr Intersection Delay	89.6 sec	62.0 sec	
2025 Opening Yr No-Build Peak Hr Intersection V/C	0.87	0.66	
2045 Design Yr No-Build Peak Hr Intersection Delay	140.0 sec	100.8 sec	
2045 Design Yr No-Build Peak Hr Intersection V/C	1.02	0.82	

Crash Type	Crash Severity					Years: 5
	K*	A*	B*	C*	O	
Crash Data: Enter most recent 5 years of crash data						
Angle	0	0	0	0	4	15%
Head-On	0	0	0	0	0	0%
Rear End	0	0	2	4	4	37%
Sideswipe - same	0	0	0	0	6	22%
Sideswipe - opposite	0	0	0	0	1	4%
Not Collision w/Motor Veh	0	0	0	2	4	22%
TOTALS:	0	0	2	6	19	27

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Conventional (Minor Stop)	RCUT (stop control)	High-T (unsignalized)	Add Left Turn Lanes	N/A	
Additional description here	Additional description here	Additional description here	Additional description here	Additional description here	
Construction Cost	\$0	\$330,000	\$164,000	\$127,000	
ROW Cost	\$0	\$226,000	\$0	\$0	
Environmental Cost	\$0	\$0	\$0	\$0	
Reimbursable Utility Cost	\$0	\$4,000	\$2,000	\$1,000	
Design & Contingency Cost	\$0	\$0	\$0	\$0	
Cost Adjustment (justification req'd)	0%	0%	0%	0%	
Total Cost	\$0	\$560,000	\$166,000	\$128,000	

Traffic Operations:

Traffic Analysis Software Used	Synchro		Synchro		Synchro		Synchro			
Analysis Period	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
2045 Design Yr Build Intersection Delay	140.0 sec	100.8 sec	12.4 sec	16.0 sec	21.1 sec	36.9 sec	95.2 sec	143.7 sec		
2045 Design Yr Build Intersection V/C	1.02	0.82	0.24	0.25	0.41	0.50	0.47	1.04		

Safety Analysis:

Predefined CRF: PDO	0%	31%	23%	2%	
Predefined CRF: Fatal/Inj	0%	53%	45%	2%	
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 2753 / 2755	FHWA Clearinghouse #s 270 / 274	
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None	None	
Archaeology Resources	None	None	None	None	
Graveyard	None	None	None	None	
Stream	None	None	None	None	
Underground Tank/Hazmat	None	None	None	None	
Park Land	None	None	None	None	
EJ Community	None	None	None	None	
Wooded Area	None	None	None	None	
Wetland	None	None	None	None	

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown	Unknown	
GDOT Support	Unknown	Unknown	Unknown	Unknown	

Final ICE Stage 2 Score:	4.6	6.1	7.2	3.3	
Rank of Control Type Alternatives:	3	2	1	4	
Final Intersection Control Selection:	1 - High-T (unsignalized)				

Note: Stage 2 score is not given (shown as ".") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy ar Live Oak Chruch Rd

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
MINOR STREET: Cross Street Live Oak Church Rd

OF APPROACH LANES: 2
OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

				MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3				
						MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B								
												MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET						
THRESHOLD VALUES					➔					420	105		630	53		480	120		720	60			
06:00 AM	TO	07:00 AM	902	37	Y				Y				Y			Y			Y		Y		
07:00 AM	TO	08:00 AM	1,787	82	Y				Y	Y	Y		Y			Y		Y	Y	Y	Y		Y
08:00 AM	TO	09:00 AM	1,340	56	Y				Y	Y	Y		Y			Y							
09:00 AM	TO	10:00 AM	1,098	48	Y				Y				Y			Y							
10:00 AM	TO	11:00 AM	1,019	37	Y				Y				Y			Y							
11:00 AM	TO	12:00 PM	1,152	31	Y				Y				Y			Y							
12:00 PM	TO	01:00 PM	1,218	39	Y				Y				Y			Y							
01:00 PM	TO	02:00 PM	1,262	34	Y				Y				Y			Y							
02:00 PM	TO	03:00 PM	1,538	47	Y				Y				Y			Y							
03:00 PM	TO	04:00 PM	1,537	35	Y				Y				Y			Y							
04:00 PM	TO	05:00 PM	1,728	32	Y				Y				Y			Y							
05:00 PM	TO	06:00 PM	1,897	35	Y				Y				Y			Y							
06:00 PM	TO	07:00 PM	1,283	22	Y				Y				Y			Y							
07:00 PM	TO	08:00 PM	948	23	Y				Y				Y			Y							
08:00 PM	TO	09:00 PM	606	14	Y								Y										
09:00 PM	TO	10:00 PM	499	12	Y								Y										
					0			2			01						1	1					
					8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED	1 HR NEEDED SATISFIED					

GDOT PI#: Request By:

County: GDOT District: 5 - Jesup

Major Road: Road Class: Speed Limit:

Crossing Road: Road Class: Speed Limit:

Major Rd Direction: Area Type:

Intersection Control: Project ID:

Prepared By: Date:

Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 94%
 Live Oak Dr: 6%

2022 EXISTING YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
2022 Intersection Daily Entering Volume (est):				WB EG Miles Pkwy			
19,800				0 (0)			
1176 (787) [18800]				585 (1040)			
636 (1148) [9400]				26 (70)			
106 (83) [2000]							

PEAK HR % TRUCKS:

EB	WB	NB	SB
0%	0%	0%	0%

2025 OPENING YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
2025 Intersection Daily Entering Volume (est):				WB EG Miles Pkwy			
20,400				0 (0)			
1206 (812) [19200]				597 (1061)			
636 (1148) [9400]				39 (87)			
106 (83) [2200]							

2045 DESIGN YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
2045 Intersection Daily Entering Volume (est):				WB EG Miles Pkwy			
22,700				0 (0)			
1352 (908) [21500]				673 (1196)			
712 (1283) [21700]				39 (87)			
106 (83) [2200]							

Existing Data Year:	2022
Project Opening Year:	2025
Project Design Year:	2045
Annual Growth Rate:	0.5%
K Factor*:	10%

* K Factor = Proportion of average annual daily traffic occurring in the highest one hour of the day

LEGEND:

- 000 = AM Peak Approach Volume
- (000) = PM Peak Approach Volume
- [000] = ADT Volume (Estimate)

Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: **1)** the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or **2)** the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

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GDOT PI #									
Project Location:		EG Miles Pkwy @ Live Oak Dr							
Existing Control:		Conventional (Minor Stop)							
Prepared by:		Atlas Technical Consultants							
Date:									
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project? 2. Does alternative improve safety performance in terms of reducing severe crashes? 3. Does alternative incorporate safety performance in operations (congestion, delay, reliability, etc.)? 4. Does alternative improve (or preserve) traffic characteristics, delay, reliability, etc.? 5. Does alternative appear feasible given the site respect to other project factors? 6. Does alternative appear feasible with respect to other project factors? 7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>							
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>		<p>Screening Decision Justification:</p>							
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Existing Conditions
	Conventional (All-Way Stop)	No	Yes	Yes	No	Yes	No	No	Volume too high on the major street
	Mini Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Single Lane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Multilane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	RCUT (stop control)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	RIRO w/down stream U-Turn	No	Yes	No	Yes	Yes	Yes	No	Potential Alternative
	High-T (unsignalized)	No	Yes	No	Yes	Yes	Yes	No	U-Turn Limitation
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation
	Add LT Lanes on Live Oak Dr	No	No	No	No	No	No	Yes	Potential Alternative
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No	Signal not warranted
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Signal not warranted
	RCUT (signalized)	No	No	No	No	No	No	No	Signal not warranted
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	Signal not warranted
	Continuous Green-T	No	No	No	No	No	No	No	Signal not warranted
	Jughandle	No	No	No	No	No	No	No	Signal not warranted
	Quadrant Roadway	No	No	No	No	No	No	No	Signal not warranted
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	Signal not warranted
	Diverging Diamond	No	No	No	No	No	No	No	Signal not warranted
	Single Point Interchange	No	No	No	No	No	No	No	Signal not warranted
	No LT Lane Improvements	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Live Oak Dr
 Existing Intersection Control: Conventional (Minor Stop)
 Type of Analysis: Safety Funded Project

District: 5 - Jesup
 County: Liberty
 Area: Suburb/Transit

GDOT PI #:
 Prepared by: Atlas Technical Cons
 Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2025 Opening Yr No-Build Peak Hr Intersection Delay	120.9 sec	125.8 sec	
2025 Opening Yr No-Build Peak Hr Intersection V/C	0.96	0.91	
2045 Design Yr No-Build Peak Hr Intersection Delay	221.4 sec	205.9 sec	
2045 Design Yr No-Build Peak Hr Intersection V/C	1.21	1.12	

Crash Type	Crash Severity					Years:
	K*	A*	B*	C*	O	
Crash Data: Enter most recent 5 years of crash data						
Angle		0	1	5	13	40%
Head-On		0	0	2	2	8%
Rear End		1	0	2	8	23%
Sideswipe - same		0	0	0	9	19%
Sideswipe - opposite		0	0	1	2	6%
Not Collision w/Motor Veh		0	0	0	2	4%
TOTALS:	0	1	1	10	36	48

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

Construction Cost	\$0	\$330,000	\$127,000		
ROW Cost	\$0	\$226,000	\$0		
Environmental Cost	\$0	\$0	\$0		
Reimbursable Utility Cost	\$0	\$4,000	\$1,000		
Design & Contingency Cost	\$0	\$0	\$0		
Cost Adjustment (justification req'd)	0%	0%	0%		
Total Cost	\$0	\$560,000	\$128,000		

Traffic Operations:

	Synchro		Synchro		Synchro			
Traffic Analysis Software Used	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
Analysis Period	221.4 sec	205.9 sec	21.1 sec	13.3 sec	95.2 sec	143.7 sec		
2045 Design Yr Build Intersection Delay	1.21	1.12	0.39	0.21	0.47	1.04		
2045 Design Yr Build Intersection V/C								

Safety Analysis:

Predefined CRF: PDO	0%	31%	2%		
Predefined CRF: Fatal/Inj	0%	53%	2%		
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 270 / 274		
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None		
Archaeology Resources	None	None	None		
Graveyard	None	None	None		
Stream	None	None	None		
Underground Tank/Hazmat	None	None	None		
Park Land	None	None	None		
EJ Community	None	None	None		
Wooded Area	None	None	None		
Wetland	None	None	None		

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown		
GDOT Support	Unknown	Unknown	Unknown		

Final ICE Stage 2 Score:	4.3	6.0	4.9		
Rank of Control Type Alternatives:	3	1	2		
Final Intersection Control Selection:	1 - RCUT (stop control)				

Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy at Live Oak Dr

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
MINOR STREET: Cross Street Live Oak Dr

OF APPROACH LANES: 2
OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

			MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3
					MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B				
											MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET		
THRESHOLD VALUES →					420	105		630	53		480	120		720	60			
06:00 AM	TO	07:00 AM	902	18	Y			Y			Y			Y				
07:00 AM	TO	08:00 AM	1,787	36	Y			Y			Y			Y				
08:00 AM	TO	09:00 AM	1,340	37	Y			Y			Y			Y				
09:00 AM	TO	10:00 AM	1,098	36	Y			Y			Y			Y				
10:00 AM	TO	11:00 AM	1,019	32	Y			Y			Y			Y				
11:00 AM	TO	12:00 PM	1,152	26	Y			Y			Y			Y				
12:00 PM	TO	01:00 PM	1,218	44	Y			Y			Y			Y				
01:00 PM	TO	02:00 PM	1,262	45	Y			Y			Y			Y				
02:00 PM	TO	03:00 PM	1,538	43	Y			Y			Y			Y				
03:00 PM	TO	04:00 PM	1,537	46	Y			Y			Y			Y				
04:00 PM	TO	05:00 PM	1,728	58	Y			Y	Y	Y	Y			Y				
05:00 PM	TO	06:00 PM	1,897	49	Y			Y			Y			Y				
06:00 PM	TO	07:00 PM	1,283	45	Y			Y			Y			Y				
07:00 PM	TO	08:00 PM	948	34	Y			Y			Y			Y				
08:00 PM	TO	09:00 PM	606	23	Y						Y							
09:00 PM	TO	10:00 PM	499	16	Y						Y							
			19,814	588	0			1			00						0	0
					8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED	1 HR NEEDED NOT SATISFIED

GDOT Pl#:		Request By:	HAMPO	
County:	Liberty	GDOT District:	5 - Jesup	
Major Road:	EG Miles Pkwy	Road Class:	Minor Arterial	Speed Limit: 45 mph
Crossing Road:	Miles Xing	Road Class:	Local	Speed Limit: 35 mph
Major Rd Direction:	East/West	Area Type:	Suburb/Transition	
Intersection Control:	Conventional (Minor Stop)		Project ID:	
Prepared By:	Atlas Technical Consultants		Date:	
Project Purpose:				

Existing Data Year:	2022
Project Opening Year:	2025
Project Design Year:	2045
Annual Growth Rate:	0.5%
K Factor*:	10%

* K Factor = Proportion of average annual daily traffic occurring in the highest one hour of the day

LEGEND:

- 000 = AM Peak Approach Volume
(000) = PM Peak Approach Volume
[000] = ADT Volume (Estimate)

2025 OPENING YEAR VOLUMES

25																					
45																					
%																					
%																					
SB Miles Xing		195 (118) [3200]																			
		(0)	(71)	(0)	(47)																
		0	68	0	127																
						WB EG Miles Pkwy															
		Peds				Peds	0	(0)	[19100]												
<table><tr><td>1219 (828) [19000]</td><td>(117)</td><td>101</td><td></td></tr><tr><td>(711)</td><td>1,118</td><td></td></tr><tr><td>(0)</td><td>0</td><td></td></tr><tr><td>(0)</td><td>0</td><td>Peds </td></tr></table>		1219 (828) [19000]	(117)	101		(711)	1,118				(0)	0		(0)	0	Peds	2025 Intersection Daily Entering Volume (est): 20,650			24	(50)
		1219 (828) [19000]	(117)	101																	
		(711)	1,118																		
(0)	0																				
(0)	0	Peds																			
	580	(996)																			
	65	(60)																			
		Peds				Peds	NB Miles Xing														
EB EG Miles Pkwy			0	0	0	0															
			(0)	(0)	(0)	(0)															
each Volume			0 (0) [0]																		
each Volume																					

2022 EXISTING YEAR VOLUMES

APPROACH SPLITS:

EG Miles Pkwy: 90%

Miles Xing: 10%

ACH SPLITS:

Pkwy: 90%

Xing: 10%

SB Miles Xing

195 (118) [3200]			
(0)	(71)	(0)	(47)
0	68	0	127

Peds

WB EG Miles Pkwy

	0	(0)
	24	(50)
	569	(544)
	65	(60)

1197 (814) [18300]

(117)	101		2022 Intersection Daily Entering Volume (est): 20,500		
(697)	1,096				
(0)	0				
(0)	0				

Peds

EB EG Miles Pkwy

0	0	0	0
(0)	(0)	(0)	(0)

% TRUCKS:

0	NB	SB
---	----	----

NB Miles Xing

0 (0) [700]

658 (654) [188000]

PEAK HR % TRUCKS:

EB	WB	NB	SB
0%	0%	0%	0%

2045 DESIGN YEAR VOLUMES

1336 [903] [20080]		101	<div><div></div></div>	195 (118) [3200]				WB EG Miles Pkwy				[00602] [0221] [36]		
				(0)	(71)	(0)	(47)							
				0	68	0	127							
				Peds <div><div></div></div>				Peds <div><div></div></div>						
		(786)	1,235	<div><div></div></div>	2045 Intersection Daily Entering Volume (est):				24				(50)	
		(0)	0	<div><div></div></div>	22,450				641				(1110)	
		(0)	0	<div><div></div></div>					65				(60)	
		Peds <div><div></div></div>			<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	Peds <div><div></div></div>				NB Miles Xing		
EB EG Miles Pkwy					0	0	0	0						
					(0)	(0)	(0)	(0)						
					0 (0) [0]									

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GDOT PI #									
Project Location:		EG Miles Pkwy @ Miles Xing							
Existing Control:		Conventional (Minor Stop)							
Prepared by:		Atlas Technical Consultants							
Date:									
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project? 2. Does alternative improve safety performance in terms of reducing severe crashes? 3. Does alternative incorporate safety performance in operations (congestion, delay, reliability, etc.)? 4. Does alternative improve (or preserve) traffic characteristics, delay, reliability, etc.? 5. Does alternative appear feasible given the site respect to other project factors? 6. Does alternative appear feasible with respect to other project factors? 7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>							
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	RIRO w/down stream U-Turn	No	Yes	No	Yes	Yes	Yes	No	Left turn Volumes too high
	High-T (unsignalized)	No	Yes	No	Yes	Yes	Yes	No	U Turn Volumes
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade seperation
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	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	Yes	Potential Alternative
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Left turn Volumes too high
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	Continuous Green-T	No	No	No	No	No	No	No	U Turn Volumes
	Jughandle	No	No	No	No	No	No	No	3 Leg intersection
	Quadrant Roadway	No	No	No	No	No	No	No	4 Leg intersection
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	No grade seperation
	Diverging Diamond	No	No	No	No	No	No	No	No grade seperation
	Single Point Interchange	No	No	No	No	No	No	No	No grade seperation
	No LT Lane Improvements	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Miles Xing
Existing Intersection Control: Conventional (Minor Stop)
Type of Analysis: Safety Funded Project

District: 5 - Jesup
County: Liberty
Area: Suburb/Transit

GDOT PI #:
Prepared by: Atlas Technical Cons
Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	Meets Signal Warrants		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2025 Opening Yr No-Build Peak Hr Intersection Delay	500.0 sec	314.0 sec	
2025 Opening Yr No-Build Peak Hr Intersection V/C	3.35	1.42	
2045 Design Yr No-Build Peak Hr Intersection Delay	500.0 sec	500.0 sec	
2045 Design Yr No-Build Peak Hr Intersection V/C	4.28	1.87	

Crash Type	Crash Severity					Years:
	K*	A*	B*	C*	O	
Angle	0	1	0	3	4	42%
Head-On	0	0	0	0	2	11%
Rear End	0	0	0	1	4	26%
Sideswipe - same	0	0	0	0	0	0%
Sideswipe - opposite	0	0	0	0	0	0%
Not Collision w/Motor Veh	0	0	0	0	4	21%
TOTALS:	0	1	0	4	14	19

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Conventional (Minor Stop)	Conventional (Minor Stop)	Add Left Turn Lanes	Traffic Signal	N/A	N/A
Additional description here	Additional description here	Additional description here	Add LT bay(s) on minor ST		
Construction Cost	\$0	\$114,000	\$136,000		
ROW Cost	\$0	\$0	\$0		
Environmental Cost	\$0	\$0	\$0		
Reimbursable Utility Cost	\$0	\$1,000	\$3,000		
Design & Contingency Cost	\$0	\$0	\$0		
Cost Adjustment (justification req'd)	0%	0%	0%		
Total Cost	\$0	\$115,000	\$139,000		

Traffic Operations:

	Synchro		Synchro		Synchro			
Traffic Analysis Software Used	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
Analysis Period	500.0 sec	500.0 sec	500.0 sec	247.4 sec	12.7 sec	12.8 sec		
2045 Design Yr Build Intersection Delay	4.28	1.87	4.12	1.70	0.76	0.84		
2045 Design Yr Build Intersection V/C								

Safety Analysis:

Predefined CRF: PDO	0%	4%	39%		
Predefined CRF: Fatal/Inj	0%	3%	40%		
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	FHWA Clearinghouse #s 270 / 274	FHWA Clearinghouse #s 7982 / 7984		
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None		
Archaeology Resources	None	None	None		
Graveyard	None	None	None		
Stream	None	None	None		
Underground Tank/Hazmat	None	None	None		
Park Land	None	None	None		
EJ Community	None	None	None		
Wooded Area	None	None	None		
Wetland	None	None	None		

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown		
GDOT Support	Unknown	Unknown	Unknown		

Final ICE Stage 2 Score:	1.9	1.1	5.2		
Rank of Control Type Alternatives:	2	3	1		
Final Intersection Control Selection:	1 - Traffic Signal				

Note: Stage 2 score is not given (shown as ".") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles at Miles Xing

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles
MINOR STREET: Cross Street Miles Xing

OF APPROACH LANES: 2
OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

			MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3
					MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B				
											MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET		
THRESHOLD VALUES →					420	105		630	53		480	120		720	60			
06:00 AM	TO	07:00 AM	902	62	Y			Y	Y	Y	Y			Y	Y	Y	Y	
07:00 AM	TO	08:00 AM	1,787	123	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
08:00 AM	TO	09:00 AM	1,340	118	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y
09:00 AM	TO	10:00 AM	1,098	62	Y			Y	Y	Y	Y			Y	Y	Y	Y	
10:00 AM	TO	11:00 AM	1,019	53	Y			Y	Y	Y	Y			Y				
11:00 AM	TO	12:00 PM	1,152	40	Y			Y			Y			Y				
12:00 PM	TO	01:00 PM	1,218	63	Y			Y	Y	Y	Y			Y	Y	Y	Y	
01:00 PM	TO	02:00 PM	1,262	47	Y			Y			Y			Y				
02:00 PM	TO	03:00 PM	1,538	55	Y			Y	Y	Y	Y			Y				
03:00 PM	TO	04:00 PM	1,537	35	Y			Y			Y			Y				
04:00 PM	TO	05:00 PM	1,728	44	Y			Y			Y			Y				
05:00 PM	TO	06:00 PM	1,897	44	Y			Y			Y			Y				
06:00 PM	TO	07:00 PM	1,283	29	Y			Y			Y			Y				
07:00 PM	TO	08:00 PM	948	25	Y			Y			Y			Y				
08:00 PM	TO	09:00 PM	606	24	Y						Y							
09:00 PM	TO	10:00 PM	499	11	Y						Y							
			19,814	835	2			7			1			5			5	2
					8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED SATISFIED	1 HR NEEDED SATISFIED

GDOT PI#: Request By:

County: GDOT District: 5 - Jesup

Major Road: Road Class: Speed Limit:

Crossing Road: Road Class: Speed Limit:

Major Rd Direction: Area Type:

Intersection Control: Project ID:

Prepared By: Date:

Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 89%
Pineland Ave: 11%

2022 EXISTING YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
1176 (787) [18400]	(0)	0	↗	2022 Intersection Daily Entering Volume (est): 20,650	↖	0	(0)
	(685)	1,096	→		←	569	(957)
	(102)	80	↘		↗	55	(170)
	(0)	0	↙		↖		
EB EG Miles Pkwy				59	0	112	0
				(91)	(0)	(61)	(0)
				171 (152) [4200]			
				NB Pineland Ave			

PEAK HR % TRUCKS:

EB	WB	NB	SB
2%	2%	0%	0%

Existing Data Year:

Project Opening Year:

Project Design Year:

Annual Growth Rate:

K Factor*:

* K Factor = Proportion of average annual daily traffic occurring in the highest one hour of the day

2025 OPENING YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
1205 0849 98885 (810.803092928125)	(10)	7	↗	2025 Intersection Daily Entering Volume (est): 21,050	↖	0	(0)
	(699)	1,118	→		←	580	(976)
	(102)	80	↘		↗	55	(170)
	(0)	0	↙		↖		
EB EG Miles Pkwy				59	0	112	0
				(91)	(0)	(61)	(0)
				171 (152) [4200]			
				NB Pineland Ave			

2045 DESIGN YEAR VOLUMES

0 (0) [0]							
(0)	(0)	(0)	(0)				
0	0	0	0				
1322 3671 1472111 (884.10446700691)	(10)	7	↗	2045 Intersection Daily Entering Volume (est): 22,750	↖	0	(0)
	(772)	1,235	→		←	641	(1079)
	(102)	80	↘		↗	55	(170)
	(0)	0	↙		↖		
EB EG Miles Pkwy				59	0	112	0
				(91)	(0)	(61)	(0)
				171 (152) [4200]			
				NB Pineland Ave			

LEGEND:

- 000 = AM Peak Approach Volume
- (000) = PM Peak Approach Volume
- [000] = ADT Volume (Estimate)

Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: **1)** the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or **2)** the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

Two-Stage Process: A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

Stage 1: Screening Decision Record Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves as a screening effort meant to *eliminate* non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column.

Stage 2: Alternative Selection Decision Record Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation.

Documentation: A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 1 and Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.

GDOT PI #									
Project Location:		EG Miles Pkwy @ Pineland Ave							
Existing Control:		Conventional (Minor Stop)							
Prepared by:		Atlas Technical Consultants							
Date:									
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project? 2. Does alternative improve safety performance in terms of reducing severe crashes? 3. Does alternative incorporate safety performance in operations (congestion, delay, reliability, etc.)? 4. Does alternative improve (or preserve) traffic characteristics, delay, reliability, etc.? 5. Does alternative appear feasible given the site respect to other project factors? 6. Does alternative appear feasible with respect to other project factors? 7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p>							
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>		<p>Screening Decision Justification:</p>							
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	Yes	Existing Conditions
	Conventional (All-Way Stop)	No	Yes	Yes	No	Yes	No	No	Volume too high on the major street
	Mini Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Single Lane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	Multilane Roundabout	No	Yes	No	No	No	No	No	Non balance volumes
	RCUT (stop control)	No	Yes	No	Yes	Yes	Yes	No	Left turn Volume too high
	RIRO w/down stream U-Turn	No	Yes	No	Yes	Yes	Yes	No	Left turn Volume too high
	High-T (unsignalized)	No	Yes	No	Yes	Yes	Yes	Yes	Potential Alternative
	Offset-T Intersections	No	No	No	No	No	No	No	3 Leg intersection
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No grade separation
	Add LT Lanes on Pineland Ave	No	No	No	No	No	No	Yes	Potential Alternative
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other unsignalized (provide description):	No	No	No	No	No	No	No	
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	Yes	Potential Alternative
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Left turn Volume too high
	RCUT (signalized)	No	No	No	No	No	No	No	Left turn Volume too high
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	Left turn Volume too high
	Continuous Green-T	No	No	No	No	No	No	Yes	Potential Alternative
	Jughandle	No	No	No	No	No	No	No	3 Leg intersection
	Quadrant Roadway	No	No	No	No	No	No	No	4 Leg intersection
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	No grade separation
	Diverging Diamond	No	No	No	No	No	No	No	No grade separation
	Single Point Interchange	No	No	No	No	No	No	No	No grade separation
	No LT Lane Improvements	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Pineland Ave
 Existing Intersection Control: Conventional (Minor Stop)
 Type of Analysis: Safety Funded Project

District: 5 - Jesup
 County: Liberty
 Area: Suburb/Transit

GDOT PI #:
 Prepared by: Atlas Technical Cons
 Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	Meets Signal Warrants		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2025 Opening Yr No-Build Peak Hr Intersection Delay	340.3 sec	500.0 sec	
2025 Opening Yr No-Build Peak Hr Intersection V/C	1.56	2.22	
2045 Design Yr No-Build Peak Hr Intersection Delay	500.0 sec	500.0 sec	
2045 Design Yr No-Build Peak Hr Intersection V/C	1.97	2.86	

Crash Type	Crash Severity					Years:
	K*	A*	B*	C*	O	
Crash Data: Enter most recent 5 years of crash data						
Angle	0	0	2	11	29	59%
Head-On	0	0	0	0	1	1%
Rear End	0	0	1	5	11	24%
Sideswipe - same	0	0	0	0	6	8%
Sideswipe - opposite	0	0	0	0	1	1%
Not Collision w/Motor Veh	0	0	0	0	4	6%
TOTALS:	0	0	3	16	52	71

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

Construction Cost	\$0	\$147,000	\$114,000	\$181,000	\$147,000
ROW Cost	\$0	\$0	\$0	\$0	\$0
Environmental Cost	\$0	\$0	\$0	\$0	\$0
Reimbursable Utility Cost	\$0	\$2,000	\$1,000	\$4,000	\$2,000
Design & Contingency Cost	\$0	\$0	\$0	\$0	\$0
Cost Adjustment (justification req'd)	0%	0%	0%	0%	0%
Total Cost	\$0	\$149,000	\$115,000	\$185,000	\$149,000

Traffic Operations:

Traffic Analysis Software Used	Synchro		Synchro		Synchro		Synchro		Synchro	
Analysis Period	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr
2045 Design Yr Build Intersection Delay	500.0 sec	500.0 sec	223.6 sec	146.6 sec	483.1 sec	500.0 sec	13.1 sec	6.4 sec	14.1 sec	7.3 sec
2045 Design Yr Build Intersection V/C	1.97	2.86	1.30	1.06	1.59	2.73	0.79	0.46	0.75	0.49

Safety Analysis:

Predefined CRF: PDO	0%	23%	4%	39%	39%
Predefined CRF: Fatal/Inj	0%	45%	4%	40%	49%
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	FHWA Clearinghouse #s 2753 / 2755	FHWA Clearinghouse #s 270 / 274	FHWA Clearinghouse #s 7982 / 7984	FHWA Clearinghouse #s 7982/8655 / 7984/8656
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None	None	None
Archaeology Resources	None	None	None	None	None
Graveyard	None	None	None	None	None
Stream	None	None	None	None	None
Underground Tank/Hazmat	None	None	None	None	None
Park Land	None	None	None	None	None
EJ Community	None	None	None	None	None
Wooded Area	None	None	None	None	None
Wetland	None	None	None	None	None

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown	Unknown	Unknown
GDOT Support	Unknown	Unknown	Unknown	Unknown	Unknown

Final ICE Stage 2 Score:	2.7	5.3	2.6	5.5	6.3
Rank of Control Type Alternatives:	4	3	5	2	1
Final Intersection Control Selection:	1 - Continuous Green-T				

Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles at Pineland Ave

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
MINOR STREET: Cross Street Pineland Ave

OF APPROACH LANES: 2
OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

			MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3	
					MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B					
											MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET			
THRESHOLD VALUES →					420	105		630	53		480	120		720	60				
06:00 AM	TO	07:00 AM	902	25	Y			Y			Y			Y					
07:00 AM	TO	08:00 AM	1,787	59	Y			Y	Y	Y	Y			Y					
08:00 AM	TO	09:00 AM	1,340	54	Y			Y	Y	Y	Y			Y					
09:00 AM	TO	10:00 AM	1,098	57	Y			Y	Y	Y	Y			Y					
10:00 AM	TO	11:00 AM	1,019	45	Y			Y			Y			Y					
11:00 AM	TO	12:00 PM	1,152	45	Y			Y			Y			Y					
12:00 PM	TO	01:00 PM	1,218	62	Y			Y	Y	Y	Y			Y	Y	Y	Y		
01:00 PM	TO	02:00 PM	1,262	56	Y			Y	Y	Y	Y			Y					
02:00 PM	TO	03:00 PM	1,538	58	Y			Y	Y	Y	Y			Y					
03:00 PM	TO	04:00 PM	1,537	78	Y			Y	Y	Y	Y			Y	Y	Y	Y	Y	
04:00 PM	TO	05:00 PM	1,728	84	Y			Y	Y	Y	Y			Y	Y	Y	Y	Y	
05:00 PM	TO	06:00 PM	1,897	89	Y			Y	Y	Y	Y			Y	Y	Y	Y	Y	
06:00 PM	TO	07:00 PM	1,283	71	Y			Y	Y	Y	Y			Y	Y	Y	Y		
07:00 PM	TO	08:00 PM	948	65	Y			Y	Y	Y	Y			Y	Y	Y	Y		
08:00 PM	TO	09:00 PM	606	49	Y						Y								
09:00 PM	TO	10:00 PM	499	30	Y						Y								
			19,814	927	0			11			0			6			6	3	
						8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED SATISFIED	1 HR NEEDED SATISFIED

GDOT PI#: Request By:
 County: GDOT District: 5 - Jesup
 Major Road: Road Class: Speed Limit:
 Crossing Road: Road Class: Speed Limit:
 Major Rd Direction: Area Type:
 Intersection Control: Project ID:
 Prepared By: Date:
 Project Purpose:

APPROACH SPLITS:

EG Miles Pkwy: 96%
 Willowbrook Rd: 4%

2022 EXISTING YEAR VOLUMES

		56 (34) [1000]									
		(0)	(19)	(2)	(13)						
		0	18	3	35						
SB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	19,450	603	(1065)	2	(8)	611	(1110)	18800		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(756)	1,163	↔	↔	↔	↔	↔	↔	↔		
EB EG Miles Pkwy	Peds	↔	↔	↔	↔	↔	↔	↔	↔	5	1
	2022 Intersection Daily Entering Volume (est):	19,450	603	(1065)	2	(8)	611	(1110)	18800		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(756)	1,163	↔	↔	↔	↔	↔	↔	↔		
NB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	19,450	603	(1065)	2	(8)	611	(1110)	18800		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(756)	1,163	↔	↔	↔	↔	↔	↔	↔		

PEAK HR % TRUCKS:

EB	WB	NB	SB
2%	2%	0%	0%

2022 OPENING YEAR VOLUMES

		56 (34) [1000]									
		(0)	(19)	(2)	(13)						
		0	18	3	35						
SB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	19,800	615	(1086)	2	(8)	623.06	(1131.3)	192		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(771)	1,186	↔	↔	↔	↔	↔	↔	↔		
EB EG Miles Pkwy	Peds	↔	↔	↔	↔	↔	↔	↔	↔	5	1
	2022 Intersection Daily Entering Volume (est):	19,800	615	(1086)	2	(8)	623.06	(1131.3)	192		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(771)	1,186	↔	↔	↔	↔	↔	↔	↔		
NB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	19,800	615	(1086)	2	(8)	623.06	(1131.3)	192		
	176 (787) [18800]	(25)	10	↔	↔	↔	↔	↔	↔		
	(771)	1,186	↔	↔	↔	↔	↔	↔	↔		

2022 DESIGN YEAR VOLUMES

		56 (34) [1000]									
		(0)	(19)	(2)	(13)						
		0	18	3	35						
SB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	21,650	675	(1193)	2	(8)	683.36	(1237.8)	210		
	1315.56 (877.72) [21000]	(25)	10	↔	↔	↔	↔	↔	↔		
	(847)	1,303	↔	↔	↔	↔	↔	↔	↔		
EB EG Miles Pkwy	Peds	↔	↔	↔	↔	↔	↔	↔	↔	5	1
	2022 Intersection Daily Entering Volume (est):	21,650	675	(1193)	2	(8)	683.36	(1237.8)	210		
	1315.56 (877.72) [21000]	(25)	10	↔	↔	↔	↔	↔	↔		
	(847)	1,303	↔	↔	↔	↔	↔	↔	↔		
NB Willowbrook Rd	Peds	↔	↔	↔	↔	↔	↔	↔	↔	0	(0)
	2022 Intersection Daily Entering Volume (est):	21,650	675	(1193)	2	(8)	683.36	(1237.8)	210		
	1315.56 (877.72) [21000]	(25)	10	↔	↔	↔	↔	↔	↔		
	(847)	1,303	↔	↔	↔	↔	↔	↔	↔		

LEGEND:

- 000 = AM Peak Approach Volume
- (000) = PM Peak Approach Volume
- [000] = ADT Volume (Estimate)

Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: **1)** the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or **2)** the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

Two-Stage Process: A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

Stage 1: Screening Decision Record Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves as a screening effort meant to *eliminate* non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column.

Stage 2: Alternative Selection Decision Record Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation.

Documentation: A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 1 and Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.

GDOT PI #		<p>Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project?</p> <p>2. Does alternative improve safety performance in terms of reducing severe crashes?</p> <p>3. Does alternative incorporate safety performance in operations (congestion, delay, or preserve) traffic characteristics, delay, reliability, etc.?</p> <p>4. Does alternative appear feasible given the site respect to other project factors?</p> <p>5. Does alternative appear feasible with respect to other project factors?</p> <p>6. Does alternative appear feasible with respect to other project factors?</p> <p>7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p> <p>Screening Decision Justification:</p>								
Project Location:										
Existing Control:										
Prepared by:										
Date:										
<p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p>										
<p>Intersection Alternative (see "Intersections" tab for detailed description of intersection/interchange type)</p>										
Unsignalized Intersections	Conventional (Minor Stop)	No	No	No	No	No	No	No	Yes	
	Conventional (All-Way Stop)	No	No	No	No	No	No	No	No	Multiple lanes on mainline
	Mini Roundabout	No	No	No	No	No	No	No	No	Over 90% on mainline
	Single Lane Roundabout	No	No	No	No	No	No	No	No	Over 90% on mainline
	Multilane Roundabout	No	No	No	No	No	No	No	No	Over 90% on mainline
	RCUT (stop control)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Potential Alternative
	RIRO w/down stream U-Turn	No	No	No	No	No	No	No	No	Limits access
	High-T (unsignalized)	No	No	No	No	No	No	No	No	4 approaches
	Offset-T Intersections	No	No	No	No	No	No	No	No	Not feasible
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	No	No grade separation
	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	No	No grade separation
	Add LT Lanes on Willowbrook Rd	No	No	No	No	Yes	Yes	Yes	Yes	
	No RT Lane Improvements	No	No	No	No	Yes	Yes	Yes	Yes	
	Other unsignalized (provide description):	No	No	No	No	No	No	No	No	No signal warranted
Signalized Intersections	Traffic Signal	No	No	No	No	No	No	No	No	No signal warranted
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	No	No signal warranted
	RCUT (signalized)	No	No	No	No	No	No	No	No	No signal warranted
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	No	No signal warranted
	Continuous Green-T	No	No	No	No	No	No	No	No	No signal warranted
	Jughandle	No	No	No	No	No	No	No	No	No signal warranted
	Quadrant Roadway	No	No	No	No	No	No	No	No	No signal warranted
	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	No	No signal warranted
	Diverging Diamond	No	No	No	No	No	No	No	No	No signal warranted
	Single Point Interchange	No	No	No	No	No	No	No	No	No signal warranted
	No LT Lane Improvements	No	No	No	No	No	No	No	No	
	No RT Lane Improvements	No	No	No	No	No	No	No	No	
	Other Signalized (provide description):	No	No	No	No	No	No	No	No	

☐ = Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: EG Miles Pkwy @ Willowbrook Rd
Existing Intersection Control: Conventional (Minor Stop)
Type of Analysis: Safety Funded Project

District: 5 - Jesup
County: Liberty
Area: Suburb/Transit

GDOT PI #:
Prepared by: Atlas Technical Cons
Date:

Opening / Design Year Traffic Operations

Intersection meets signal/AWS warrants?	None		Complete Streets Warrants Met? <input type="checkbox"/> PEDESTRIANS <input type="checkbox"/> BICYCLES <input type="checkbox"/> TRANSIT
Traffic Analysis Measure of Effectiveness	Intersection Delay		
Traffic Analysis Software Used	Synchro		
Analysis Time Period	AM Peak Hr	PM Peak Hr	
2022 Opening Yr No-Build Peak Hr Intersection Delay	27.9 sec	43.3 sec	
2022 Opening Yr No-Build Peak Hr Intersection V/C	0.26	0.53	
2022 Design Yr No-Build Peak Hr Intersection Delay	36.1 sec	71.9 sec	
2022 Design Yr No-Build Peak Hr Intersection V/C	0.34	0.71	

Crash Type	Crash Severity					Years:
	K*	A*	B*	C*	O	
Crash Data: Enter most recent 5 years of crash data						
Angle	0	0	3	5	14	37%
Head-On	0	0	1	0	0	2%
Rear End	0	0	3	8	13	41%
Sideswipe - same	0	0	0	0	6	10%
Sideswipe - opposite	0	0	1	0	2	5%
Not Collision w/Motor Veh	0	0	1	0	2	5%
TOTALS:	0	0	9	13	37	59

* Number of crashes resulting in injuries / fatalities, not number of persons

Alternatives Analysis:

Proposed Control Type/Improvement:

Project Cost: (From CostEst Worksheet)

Construction Cost	\$0	\$321,000	\$127,000		
ROW Cost	\$0	\$253,000	\$0		
Environmental Cost	\$0	\$0	\$0		
Reimbursable Utility Cost	\$0	\$4,000	\$1,000		
Design & Contingency Cost	\$0	\$0	\$0		
Cost Adjustment (justification req'd)	0%	0%	0%		
Total Cost	\$0	\$578,000	\$128,000		

Traffic Operations:

	Synchro		Synchro		Synchro			
Traffic Analysis Software Used	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr		
Analysis Period	36.1 sec	71.9 sec	15.4 sec	14.2 sec	162.5 sec	107.1 sec		
2022 Design Yr Build Intersection Delay	0.34	0.71	0.15	0.04	0.73	0.71		
2022 Design Yr Build Intersection V/C								

Safety Analysis:

Predefined CRF: PDO	0%	31%	2%		
Predefined CRF: Fatal/Inj	0%	53%	1%		
Predefined CRF Source:	CRF unavailable; provide user defined CRF below	NC/MO Table 4-7	FHWA Clearinghouse #s 270 / 274		
User Defined CRF: PDO					
User Defined CRF: Fatal/Inj					
User Defined CRF Source (write in if applicable):					

Environmental Impacts:¹

Historic District/Property	None	None	None		
Archaeology Resources	None	None	None		
Graveyard	None	None	None		
Stream	None	None	None		
Underground Tank/Hazmat	None	None	None		
Park Land	None	None	None		
EJ Community	None	None	None		
Wooded Area	None	None	None		
Wetland	None	None	None		

Note: If environmental impact is significant (RED), provide justification impact won't jeopardize project delivery using "Env" worksheet

¹ Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

Stakeholder Posture:

Local Community Support	Unknown	Unknown	Unknown		
GDOT Support	Unknown	Unknown	Unknown		

Final ICE Stage 2 Score:	4.0	6.3	5.0		
Rank of Control Type Alternatives:	3	1	2		
Final Intersection Control Selection:	1 - RCUT (stop control)				

Note: Stage 2 score is not given (shown as ".") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary):

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS

INTERSECTION NAME: EG Miles Pkwy at Willowbrook Dr/Sharon St

COUNT DATE: Typical Weekday

INTERSECTION CONDITION:

MAJOR STREET: Main Street EG Miles Pkwy
 MINOR STREET: Cross Street Willowbrook Dr/ Sharon St

OF APPROACH LANES: 2
 # OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

				MAJOR ST BOTH APPROACHES	MINOR ST HIGHEST APPROACH	WARRANT 1, Condition A			WARRANT 1, Condition B			WARRANT 1, Combination Warrant						WARRANT 2	WARRANT 3				
						MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	CONDITION A			CONDITION B								
												MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET						
THRESHOLD VALUES					→					420	105		630	53		480	120		720	60			
06:00 AM	TO	07:00 AM	616	11	Y							Y				Y							
07:00 AM	TO	08:00 AM	1,176	56	Y				Y	Y	Y	Y				Y							
08:00 AM	TO	09:00 AM	914	25	Y				Y			Y				Y							
09:00 AM	TO	10:00 AM	674	35	Y				Y			Y											
10:00 AM	TO	11:00 AM	566	27	Y							Y											
11:00 AM	TO	12:00 PM	640	32	Y				Y			Y											
12:00 PM	TO	01:00 PM	624	20	Y							Y											
01:00 PM	TO	02:00 PM	601	28	Y							Y											
02:00 PM	TO	03:00 PM	764	44	Y				Y			Y				Y							
03:00 PM	TO	04:00 PM	715	27	Y				Y			Y											
04:00 PM	TO	05:00 PM	680	37	Y				Y			Y											
05:00 PM	TO	06:00 PM	787	33	Y				Y			Y				Y							
06:00 PM	TO	07:00 PM	523	18	Y							Y											
07:00 PM	TO	08:00 PM	360	20																			
08:00 PM	TO	09:00 PM	210	11																			
09:00 PM	TO	10:00 PM	211	9																			
					10,061	433	0			1			00						0	0			
					8 HOURS NEEDED NOT SATISFIED			8 HOURS NEEDED NOT SATISFIED			8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED						4 HRS NEEDED NOT SATISFIED		1 HR NEEDED NOT SATISFIED				