

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLUME

INTERSECTION: **US 278 at Blue Heron Point**

MAJOR STREET: *US Highway 278*

MINOR STREET: *Blue Heron Point*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

NO OF LANES FOR MOVING TRAFFIC: *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*

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	3948	12	420	940%	105	11%	N	630	627%	53	23%	N	
0800-0900	4247	16	420	1011%	105	15%	N	630	674%	53	30%	N	
0900-1000	3733	11	420	889%	105	10%	N	630	593%	53	21%	N	
1000-1100	3573	16	420	851%	105	15%	N	630	567%	53	30%	N	
1100-1200	3674	13	420	875%	105	12%	N	630	583%	53	25%	N	
1200-1300	3778	12	420	900%	105	11%	N	630	600%	53	23%	N	
1300-1400	3791	6	420	903%	105	6%	N	630	602%	53	11%	N	
1400-1500	4003	13	420	953%	105	12%	N	630	635%	53	25%	N	
1500-1600	4554	17	420	1084%	105	16%	N	630	723%	53	32%	N	
1600-1700	4661	10	420	1110%	105	10%	N	630	740%	53	19%	N	
1700-1800	4792	18	420	1141%	105	17%	N	630	761%	53	34%	N	
1800-1900	3307	12	420	787%	105	11%	N	630	525%	53	23%	N	
							0						0
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS NOT SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLUME

INTERSECTION: **US 278 at Blue Heron Point**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Blue Heron Point*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0800-0900	4247	16	60	27%	N
1000-1100	3573	16	60	27%	N
1500-1600	4554	17	60	28%	N
1700-1800	4792	18	60	30%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS NOT SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLUME

INTERSECTION: **US 278 at Blue Heron Point**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Blue Heron Point*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1700-1800	4792	18	75	24%	N
					0
1 HOUR REQUIRED NOT SATISFIED					

REMARK: WARRANT 3 IS NOT SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - ONLY CONSIDERING LEFT-TURNING VOLUME

INTERSECTION: **US 278 at Gateway Dr./Crosstree Dr.**

MAJOR STREET: *US Highway 278*

MINOR STREET: *Crosstree Drive*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	3984	11	420	949%	105	10%	N	630	632%	53	21%	N	
0800-0900	4270	19	420	1017%	105	18%	N	630	678%	53	36%	N	
0900-1000	3693	36	420	879%	105	34%	N	630	586%	53	68%	N	
1000-1100	3573	29	420	851%	105	28%	N	630	567%	53	55%	N	
1100-1200	3648	26	420	869%	105	25%	N	630	579%	53	49%	N	
1200-1300	3755	32	420	894%	105	30%	N	630	596%	53	60%	N	
1300-1400	3756	29	420	894%	105	28%	N	630	596%	53	55%	N	
1400-1500	4023	26	420	958%	105	25%	N	630	639%	53	49%	N	
1500-1600	4531	23	420	1079%	105	22%	N	630	719%	53	43%	N	
1600-1700	4700	27	420	1119%	105	26%	N	630	746%	53	51%	N	
1700-1800	4818	21	420	1147%	105	20%	N	630	765%	53	40%	N	
1800-1900	3460	17	420	824%	105	16%	N	630	549%	53	32%	N	
							0						0
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS NOT SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - ONLY CONSIDERING LEFT-TURNING VOLUME

INTERSECTION: **US 278 at Gateway Dr./Crosstree Dr.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Crosstree Drive*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	3693	36	60	60%	N
1000-1100	3573	29	60	48%	N
1100-1200	3648	26	60	43%	N
1200-1300	3755	32	60	53%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS NOT SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - ONLY CONSIDERING LEFT-TURNING VOLUME

INTERSECTION: **US 278 at Gateway Dr./Crosstree Dr.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Crosstree Drive*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	3693	36	75	48%	N
					0
1 HOUR REQUIRED NOT SATISFIED					

REMARK: WARRANT 3 IS NOT SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLUME

INTERSECTION: **US 278 at Jenkins Rd.**

MAJOR STREET: *US Highway 278*
MINOR STREET: *Jenkins Rd.*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*
NO OF LANES FOR MOVING TRAFFIC: *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*

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	3968	12	420	945%	105	11%	N	630	630%	53	23%	N	
0800-0900	4283	15	420	1020%	105	14%	N	630	680%	53	28%	N	
0900-1000	3684	18	420	877%	105	17%	N	630	585%	53	34%	N	
1000-1100	3526	37	420	840%	105	35%	N	630	560%	53	70%	N	
1100-1200	3687	37	420	878%	105	35%	N	630	585%	53	70%	N	
1200-1300	3711	15	420	884%	105	14%	N	630	589%	53	28%	N	
1300-1400	3775	21	420	899%	105	20%	N	630	599%	53	40%	N	
1400-1500	4036	26	420	961%	105	25%	N	630	641%	53	49%	N	
1500-1600	4580	24	420	1090%	105	23%	N	630	727%	53	45%	N	
1600-1700	4687	28	420	1116%	105	27%	N	630	744%	53	53%	N	
1700-1800	4746	16	420	1130%	105	15%	N	630	753%	53	30%	N	
1800-1900	3465	25	420	825%	105	24%	N	630	550%	53	47%	N	
							0						0
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS NOT SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLIUME

INTERSECTION: **US 278 at Jenkins Rd.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Jenkins Rd.*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1000-1100	3526	37	60	62%	N
1100-1200	3687	37	60	62%	N
1400-1500	4036	26	60	43%	N
1600-1700	4687	28	60	47%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS NOT SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 1 : FOR EXISTING CONDITION - CONSIDERING 50% RIGHT-TURNING VOLIUME

INTERSECTION: **US 278 at Jenkins Rd.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Jenkins Rd.*

NO OF LANES FOR MOVING TRAFFIC: *1 (Minor St Left)*

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*

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1100-1200	3687	37	75	49%	N
					0
1 HOUR REQUIRED NOT SATISFIED					

REMARK: WARRANT 3 IS NOT SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 2 : FOR RELOCATED CROSSTREE DR. ACROSS FROM JENKINS RD.

INTERSECTION: **US 278 at relocated Crosstree Dr./Jenkins RD.**

MAJOR STREET: *US Highway 278*

MINOR STREET: *Crosstree Drive/Jenkind Rd.*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

NO OF LANES FOR MOVING TRAFFIC: *2*

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*

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	3984	29	420	949%	140	21%	N	630	632%	70	41%	N	
0800-0900	4270	47	420	1017%	140	34%	N	630	678%	70	67%	N	
0900-1000	3693	68	420	879%	140	49%	N	630	586%	70	97%	N	
1000-1100	3573	57	420	851%	140	41%	N	630	567%	70	81%	N	
1100-1200	3648	66	420	869%	140	47%	N	630	579%	70	94%	N	
1200-1300	3755	62	420	894%	140	44%	N	630	596%	70	89%	N	
1300-1400	3756	29	420	894%	140	21%	N	630	596%	70	41%	N	
1400-1500	4023	57	420	958%	140	41%	N	630	639%	70	81%	N	
1500-1600	4531	50	420	1079%	140	36%	N	630	719%	70	71%	N	
1600-1700	4700	48	420	1119%	140	34%	N	630	746%	70	69%	N	
1700-1800	4818	43	420	1147%	140	31%	N	630	765%	70	61%	N	
1800-1900	3460	32	420	824%	140	23%	N	630	549%	70	46%	N	
							0						0
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS NOT SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 2 : FOR RELOCATED CROSSTREE DR. ACROSS FROM JENKINS RD.

INTERSECTION: **US 278 at relocated Crosstree Dr./Jenkins Rd.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Crosstree Drive/Jenkind Rd.*

NO OF LANES FOR MOVING TRAFFIC: *2*

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*

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	3693	68	80	85%	N
1000-1100	3573	57	80	71%	N
1100-1200	3648	66	80	83%	N
1200-1300	3755	62	80	78%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS NOT SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 2 : FOR RELOCATED CROSSTREE DR. ACROSS FROM JENKINS RD.

INTERSECTION: **US 278 at relocated Crosstree Dr./Jenkins Rd.**

MAJOR STREET: *US Highway 278*

NO OF LANES FOR MOVING TRAFFIC: *2 OR MORE*

MINOR STREET: *Crosstree Drive/Jenkind Rd.*

NO OF LANES FOR MOVING TRAFFIC: *2*

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*

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST BOTH	MINOR ST HIGHEST	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	3693	68	100	68%	N
					0
1 HOUR REQUIRED NOT SATISFIED					

REMARK: WARRANT 3 IS NOT SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: **US 278 at Proposed Blue Heron Point**

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	1963	23	420	467%	105	22%	N	630	312%	53	43%	N	
0800-0900	2066	47	420	492%	105	45%	N	630	328%	53	89%	N	
0900-1000	1541	73	420	367%	105	70%	N	630	245%	53	138%	Y	
1000-1100	1422	88	420	339%	105	84%	N	630	226%	53	166%	Y	
1100-1200	1831	90	420	436%	105	86%	N	630	291%	53	170%	Y	
1200-1300	1839	68	420	438%	105	65%	N	630	292%	53	128%	Y	
1300-1400	1879	77	420	447%	105	73%	N	630	298%	53	145%	Y	
1400-1500	1946	80	420	463%	105	76%	N	630	309%	53	151%	Y	
1500-1600	2038	91	420	485%	105	87%	N	630	323%	53	172%	Y	
1600-1700	1858	98	420	442%	105	93%	N	630	295%	53	185%	Y	
1700-1800	1882	75	420	448%	105	71%	N	630	299%	53	142%	Y	
1800-1900	1529	78	420	364%	105	74%	N	630	243%	53	147%	Y	
							0						10
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED SATISFIED

REMARK: WARRANT 1 IS SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at Proposed Blue Heron Point*

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1000-1100	1422	88	60	147%	Y
1100-1200	1831	90	60	150%	Y
1500-1600	2038	91	60	152%	Y
1600-1700	1858	98	60	163%	Y
4					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at Proposed Blue Heron Point*

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1600-1700	1858	98	75	131%	Y
					1
1 HOUR REQUIRED SATISFIED					

REMARK: WARRANT 3 IS SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: **US 278 at New Median U-Turn East of Jenkins Rd.**

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING WB	MAJOR ST U-TURN WB U-Turn	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	1208	24	420	288%	105	23%	N	630	192%	53	45%	N	
0800-0900	1435	41	420	342%	105	39%	N	630	228%	53	77%	N	
0900-1000	1612	56	420	384%	105	53%	N	630	256%	53	106%	Y	
1000-1100	1715	49	420	408%	105	47%	N	630	272%	53	92%	N	
1100-1200	1319	50	420	314%	105	48%	N	630	209%	53	94%	N	
1200-1300	1470	54	420	350%	105	51%	N	630	233%	53	102%	Y	
1300-1400	1430	40	420	340%	105	38%	N	630	227%	53	75%	N	
1400-1500	1506	39	420	359%	105	37%	N	630	239%	53	74%	N	
1500-1600	2556	37	420	609%	105	35%	N	630	406%	53	70%	N	
1600-1700	2843	48	420	677%	105	46%	N	630	451%	53	91%	N	
1700-1800	2860	55	420	681%	105	52%	N	630	454%	53	104%	Y	
1800-1900	1861	32	420	443%	105	30%	N	630	295%	53	60%	N	
							0						3
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS NOT SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at New Median U-Turn East of Jenkins Rd.*

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING WB	MAJOR ST U-TURN WB U-Turn	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	1612	56	60	93%	N
1100-1200	1319	50	60	83%	N
1200-1300	1470	54	60	90%	N
1700-1800	2860	55	60	92%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at New Median U-Turn East of Jenkins Rd.*

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING SB	MAJOR ST U-TURN WB U-Turn	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	1612	56	75	75%	N
					0
					1 HOUR REQUIRED NOT SATISFIED

REMARK: WARRANT 3 IS NOT SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2020 PROJECTED TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: **US 278 at Proposed Blue Heron Point**

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	2002	23	420	477%	105	22%	N	630	318%	53	44%	N	
0800-0900	2107	48	420	502%	105	46%	N	630	334%	53	90%	N	
0900-1000	1572	74	420	374%	105	71%	N	630	249%	53	140%	Y	
1000-1100	1450	90	420	345%	105	85%	N	630	230%	53	169%	Y	
1100-1200	1868	92	420	445%	105	87%	N	630	296%	53	173%	Y	
1200-1300	1876	69	420	447%	105	66%	N	630	298%	53	131%	Y	
1300-1400	1917	79	420	456%	105	75%	N	630	304%	53	148%	Y	
1400-1500	1985	82	420	473%	105	78%	N	630	315%	53	154%	Y	
1500-1600	2079	93	420	495%	105	88%	N	630	330%	53	175%	Y	
1600-1700	1895	100	420	451%	105	95%	N	630	301%	53	189%	Y	
1700-1800	1920	77	420	457%	105	73%	N	630	305%	53	144%	Y	
1800-1900	1560	80	420	371%	105	76%	N	630	248%	53	150%	Y	
							0						10
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED SATISFIED

REMARK: WARRANT 1 IS SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at Proposed Blue Heron Point*

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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*

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1000-1100	1826	79	60	131%	Y
1100-1200	1803	73	60	122%	Y
1500-1600	1988	80	60	133%	Y
1600-1700	1848	80	60	133%	Y
4					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2015 EXISTING TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at Proposed Blue Heron Point*

MAJOR STREET: US Highway 278
MINOR STREET: Blue Heron Point

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING EB	MAJOR ST LT WBL+U	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
1600-1700	1848	80	75	106%	Y
					1
1 HOUR REQUIRED SATISFIED					

REMARK: WARRANT 3 IS SATISFIED

**TABLE 1
TRAFFIC SIGNAL WARRANT ANALYSIS
2020 PROJECTED TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at New Median U-Turn East of Jenkins Rd.*

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 1: EIGHT-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING WB	MAJOR ST U-TURN WB U-Turn	WARRANT 1, CONDITION A					WARRANT 1, CONDITION B					
			MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	MAJOR ST THRESHOLD VALUE	% MET	MINOR ST THRESHOLD VALUE	% MET	BOTH MET	
0700-0800	1232	24	420	293%	105	23%	N	630	196%	53	46%	N	
0800-0900	1464	42	420	349%	105	40%	N	630	232%	53	79%	N	
0900-1000	1644	57	420	391%	105	54%	N	630	261%	53	108%	Y	
1000-1100	1749	50	420	417%	105	48%	N	630	278%	53	94%	N	
1100-1200	1345	51	420	320%	105	49%	N	630	214%	53	96%	N	
1200-1300	1499	55	420	357%	105	52%	N	630	238%	53	104%	Y	
1300-1400	1459	41	420	347%	105	39%	N	630	232%	53	77%	N	
1400-1500	1536	40	420	366%	105	38%	N	630	244%	53	75%	N	
1500-1600	2607	38	420	621%	105	36%	N	630	414%	53	71%	N	
1600-1700	2900	49	420	690%	105	47%	N	630	460%	53	92%	N	
1700-1800	2917	56	420	695%	105	53%	N	630	463%	53	106%	Y	
1800-1900	1898	33	420	452%	105	31%	N	630	301%	53	62%	N	
							0						3
							8 HOURS REQUIRED NOT SATISFIED						8 HOURS REQUIRED NOT SATISFIED

REMARK: WARRANT 1 IS SATISFIED

**TABLE 2
TRAFFIC SIGNAL WARRANT ANALYSIS
2020 PROJECTED TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at New Median U-Turn East of Jenkins Rd.*

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 2: HOUR-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING WB	MAJOR ST U-TURN WB U-Turn	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	1644	57	60	95%	N
1100-1200	1345	51	60	85%	N
1200-1300	1499	55	60	92%	N
1700-1800	2917	56	60	94%	N
0					
4 HOURS REQUIRED NOT SATISFIED					

REMARK: WARRANT 2 IS SATISFIED

**TABLE 3
TRAFFIC SIGNAL WARRANT ANALYSIS
2020 PROJECTED TRAFFIC VOLUME**

SCENARIO 3 : FOR MODIFIED SUPER STREET

INTERSECTION: *US 278 at New Median U-Turn East of Jenkins Rd.*

MAJOR STREET: US Highway 278
MINOR STREET: Median U-Turn

NO OF LANES FOR MOVING TRAFFIC: 2 OR MORE
NO OF LANES FOR MOVING TRAFFIC: 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

WARRANT 3: PEAK-HOUR VEHICULAR VOLUME

HOUR	MAJOR ST OPPOSING WB	MAJOR ST U-TURN WB U-Turn	APPROX. MINOR ST THRESHOLD VALUE	% MET	MET
0900-1000	1644	57	75	76%	N
					0
					1 HOUR REQUIRED NOT SATISFIED

REMARK: WARRANT 3 IS NOT SATISFIED