

SCENARIO 3						
Intersection	Assumed Warrant 1	Warrant 3		Signalization		
Intersection	Satisfied? (Y/N)	Satisfie	d? (Y/N)	Assumption		
	Satisfied: (1/14)	AM	PM			
N. 9th St & Q St	N	Υ	Υ	Maintain		
N. 9th St & P St	Υ	Υ	Υ	Maintain		
N. 10th St & Q St	Υ	Υ	Υ	Maintain		
N. 10th St & P St	Υ	Υ	Υ	Maintain		
N. 12th St & Q St	N	N	N	Maintain		
N. 12th St & P St	N	N	N	Maintain		
N. 13th St & Q St	N	N	N	Maintain		
Centennial Mall & P St	N	N	N	Maintain		
N. 16th St & Q St	N	N	Υ	Maintain		
N. 16th St & P St	N	N	N	Maintain		
N. 16th St & O St	Υ	Υ	Υ	Maintain		
N. 16th St & L St	Υ	Υ	Υ	Maintain		
N. 16th St & K St	Υ	Υ	Υ	Maintain		
N. 16th St & J St (Ped)	N	N	N	Maintain		
N. 16th St & G St	N	N	N	Maintain		
N. 16th St & D St	N	N	N	Maintain		
N. 16th St & A St	Υ	N	Υ	Maintain		
N. 16th St & South St	Υ	Υ	Υ	Maintain		
N. 17th St & Q St	N	Υ	N	Maintain		
N. 17th St & P St	Υ	N	Υ	Maintain		
N. 17th St & O St	Υ	Υ	Υ	Maintain		
N. 17th St & L St	Υ	Υ	Υ	Maintain		
N. 17th St & K St	Υ	Υ	Υ	Maintain		
N. 17th St & J St (Ped)	N	N	N	Maintain		
N. 17th St & G St	N	N	N	Maintain		
N. 17th St & D St	N	N	N	Maintain		
N. 17th St & A St	Υ	Υ	Υ	Maintain		
N. 17th St & Washington St	N	N	N	Maintain		
N. 17th St & South St	Υ	Υ	Υ	Maintain		
Antelope Valley Pkwy & Q St	Υ	Υ	Υ	Maintain		
Antelope Valley Pkwy & P St	Υ	Υ	Υ	Maintain		

TRAF	FIC SIGNAL WARRANT SUMMARY
City: Linco County: District:	Engineer: John P Diediker Date: January 10, 2020
Major Street: Minor Street:	9th StLanes:5Major Approach Speed:25Q StLanes:1Minor Approach Speed:25
MUTCD Electronic Reference to Chapte	er 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
2. Is the intersection in a built-up a "70%" volume level may be used if	centile of major street > 40 mph (70 km/h)? □ Yes ☑ No area of an isolated community with a population < 10,000? □ Yes ☑ No □ 70% ☑ 100%
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the then the warrant is satisfied. Unusual condition justifying use of warrant:	ne plotted point lies above the appropriate line, Satisfied: Yes No Plot volume combination on the applicable figure below.
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.	FIGURE 4C-3: Criteria for "100%" Volume Level 2 OR MORE LANES & 2 OR MORE LANES 400 400 400
Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 2610 353 Peak Hour 70% Volume Time Major Vol. Minor Vol.	##O ## 500
Criteria 1. Delay on Minor Approach	*Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.
(vehicle-hours) Approach Lanes 1 2 Delay Criteria 4.0 5.0 Delay* Fulfilled?: Yes ✓ No	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 2 OR MORE LANES & 2 OR MORE LANES
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No	2 OR MORE LANES & 1 LANE 100 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume*	*Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and

	TRAF	FIC SIGNAL V	WARRAN	NT SUMMAR	RY	10
City: County: District:	Lincol	n		Engineer: Date:	John P Diedi January 13, 2	
Major Street:		9th St Q St		Lanes: 5 Lanes: 1	Major Approach Minor Approach	
MUTCD Electronic	Reference to Chapter	4: http://mutc	d.fhwa.dot.gov	<u>//pdfs/2009r1r2/part</u>	t4.pdf	
2. Is the inters	e <u>ria</u> ed speed or 85th-perd section in a built-up an level may be used if	rea of an isolated con	nmunity with a	population < 10,00		_
WARRANT 3 - F If all three crite then the warra Unusual condition warra	eria are fulfilled or the ant is satisfied. Justifying use of		Plot volume com	phate line, bination on the applic	Applicable: Yes Satisfied: Yes able figure below. 100%" Volume Leve	□ No
	ng delay or volume provided.	MINOR STREET MICH VOLUME APPROACH - VPH 200 100 100		2 OR MORE LANES &		-
	iteria nor Approach	* Note: 150 vph applies a	MAJOR STREE	ET - TOTAL OF BOTH APPR old volume for a minor stree		lanes and
Approach Lanes Delay Criteria* Delay* Fulfilled?:	1 2 4.0 5.0 Yes V No	500			%" Volume Level 70 km/hr (40 mph) on Majo	r Street)
2. Volume on M One-Direction *(ve Approach Lanes Volume Criteria* Volume* Fulfilled?:	1 2 100 150 Yes	MINOR STREET HIGH VOLUME APPROACH - VPH 100		2 OR MORE LA	NES & 1 LANE	*100
3. Total Interse Volume *(vehic No. of Approaches Volume Criteria* Volume* Fulfilled?:			MAJOR STREET as the lower thresho	- TOTAL OF BOTH APPROA		

City	in a a lin		Ганіва		aha D Diadikas	
City: I County:	incoln	_	Engineer Date		ohn P Diediker anuary 17, 2020	
District:			Date	. <u>J</u>	illuary 17, 2020	
Major Street:	9th St		Lanes:	5 Majo	r Approach Spee	d: 2
Minor Street:	P St		Lanes:		or Approach Spee	
	h 1					
MUTCD Electronic Reference to C	napter 4: <u>htt</u>	o://mutcd.thwa.d	lot.gov/pdfs/2009r1r	<u>2/part4.pdf</u>		
olume Level Criteria						
1. Is the posted speed or 85t	-				Yes ✓ N	
2. Is the intersection in a buil	t-up area of an isola	ited community	with a population <	10,000?	Yes ✓ N	No
"70%" volume level may be ເ	sed if Question 1 o	r 2 above is ans	wered "Yes"		70% 🗸 1	.00%
VARRANT 3 - PEAK HOUR						
				Applicable	e. ✓ Yes 🗌 N	lo
If all three criteria are fulfilled then the warrant is satisfied.	or the plotted poin	t lies above the	appropriate line,	Satisfied		lo
Unusual condition justifying use of		Plot volur	ne combination on the			
warrant:			RE 4C-3: Criteria	,,		
	600	FIGU	RE 4C-3. Criteria	101 100 /6 V	Julie Level	
			2 OR MORE L	ANES & 2 OR MORE LA	NES	
Record hour when criteria are fulfille	>					
and the corresponding delay or volun in boxes provided.	H 400					
·	— Rec			2 OR MORE LANE	S & 1 LANE	
Peak Hour 100% Volume				\longrightarrow	+ + + +	
Time Major Vol. Minor V	ol. Sign			\searrow	1 LANE & 1 LANE	
AM 2839 178	200					*15
Peak Hour 70% Volume	= 100					*10
Time Major Vol. Minor V	— 0	100 500 500 7	00 000 000 4000 4	100 1000 1000	4400 4500 4000 470	
			00 800 900 1000 1 R STREET - TOTAL OF BOT		1400 1500 1600 170 /PH	0 1800
Criteria	* Note: 150 vi		r threshold volume for a mir			and
1. Delay on Minor Approach	100 V	h applies as the lowe	r threshold volume threshol	d for a minor street a	approach with one lane.	
*(vehicle-hours)						
pproach Lanes 1 2	—		RE 4C-4: Criteria fo			
elay Criteria* 4.0 5.	500 г	(Community Le	ss than 10,000 population o	r above 70 km/hr (4	0 mph) on Major Street	:)
elay*	300					
ulfilled?: Yes Vo	E		2 OR MC	RE LANES & 2 OR MOR	E LANES	
2. Volume on Minor Approach	=					
One-Direction *(vehicles per hour	SOAC SOAC	\cdot	2 OR	MORE LANES & 1 LANE		
pproach Lanes 1 2	APPR 300					
olume Criteria* 100 15	O NOR.			1 LANE	E & 1 LANE	
olume*	■ No 200	\rightarrow		\checkmark		
ulfilled?:	MINOR STREET MINOR STREET O O O O O O O O O O O O O			/		
3. Total Intersection Entering	100		\rightarrow			*10
Volume *(vehicles per hour)						*75
o. of Approaches 3 4	= ,					
olume Criteria* 650 80	— 30		600 700 80			1300
		MA IOD	STREET - TOTAL OF BOTH A			

TRA	FFIC SIGNAL WARRANT SUMMARY	10/1
City: Line County: District:	Engineer: John P Diediker Date: January 17, 2020	
Major Street: Minor Street:	P St Lanes: 2 Minor Approach Speed: 2	25 25
MUTCD Electronic Reference to Chap	ter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf	
2. Is the intersection in a built-up "70%" volume level may be used	ercentile of major street > 40 mph (70 km/h)? area of an isolated community with a population < 10,000? Yes V No Yes V No if Question 1 or 2 above is answered "Yes" 70% V 100%	
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or then the warrant is satisfied. Unusual condition justifying use of warrant:	the plotted point lies above the appropriate line, Satisfied: Plot volume combination on the applicable figure below. FIGURE 4C-3: Criteria for "100%" Volume Level	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 2717 357 Peak Hour 70% Volume Time Major Vol. Minor Vol.	*1 0 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800	150 100
Criteria 1. Delay on Minor Approach *(vehicle-hours)	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.	
Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes V No	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 2 OR MORE LANES & 2 OR MORE LANES	
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes V No	TIANE & 1 LANE 2 OR MORE LANES 2 OR MORE LANES 2 OR MORE LANES 1 LANE & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* Fulfilled?: Yes V No		100 75

City: _ County: _ District:	Linco	oin			Engineer: Date:	John P Die January 17		
Major Street: Minor Street:		10th St Q St	_		_anes:5 _anes:4	Major Approac	_	2
-	Reference to Chapte	er 4: <u>ht</u>	tp://mutcd.fhwa	 .dot.gov/pdf:	<u></u> s/2009r1r2/part		. –	
Volume Level Crite	eria							
1. Is the poste	ed speed or 85th-per	centile of ma	jor street > 40 n	nph (70 km/l	n)?	Y	es 🗸 No	
2. Is the inters	section in a built-up a	area of an iso	lated communit	y with a por	oulation < 10,00	00? Y	es 🗸 No	
								,
"70%" volume	level may be used i	f Question 1 (or 2 above is ar	iswered "Ye	s"	/\(0% 🔽 100%	o
VARRANT 3 - P	EAK HOUR							
If all three crite	eria are fulfilled <u>or</u> ti	he plotted poi	nt lies above th	e annronriat	e line A	applicable: 🗸 Yo	es No	
then the warra		io piotica poi	in nee above an	зарргорнак	o mio,	Satisfied:	es No	
Unusual condition	justifying use of		Plot volu	ıme combinat	ion on the applic	able figure below.		
warra			FIG	URF 4C-3	Criteria for "1	00%" Volume Le	vel	
		60	°	JRE 40 0.		Volume Le	101	Ī
		T 50			2 OR MORE LANES & 2	OR MORE LANES		
Record hour when o		HA 50	° .					1
and the correspondir in boxes p		₽ 40 10	,		\searrow			
		REE PRO/			20	R MORE LANES & 1 LANE		
Peak Hour 10	00% Volume	R SI IAPI 30	0		\searrow	\leftarrow	+ + + -	+
Time Maj	or Vol. Minor Vol.	S S S				1 LANE 8	: 1 LANE	
AM 2	129 604	20 ≥ 20	0			\times	$\downarrow \downarrow$	*1:
Peak Hour 7	09/ Valuma	MINOR STREET HIGH VOLUME APPROACH - VPH 70 70 70 70 70 70 70 70 70 70 70 70 70	0					*1
Time Maj	or Vol. Minor Vol.		0]
			400 500 600	700 800 90 OR STREET - TO	00 1000 1100 120 TAL OF BOTH APPR		1600 1700 18	800
Cr	iteria	* Note: 150				t approach with two or mo	ore lanes and	
1. Delay on Mi						ninor street approach with		
*(vehicle	-hours)							
pproach Lanes	1 2		FIGU	RE 4C-4: C	riteria for "70	%" Volume Leve	i	
elay Criteria*	4.0 5.0	500	(Community L	ess than 10,000.	population or above	70 km/hr (40 mph) on Ma	ajor Street)	
Delay*		500						
ulfilled?:	Yes 🗸 No	₹			2 OR MORE LANES	S & 2 OR MORE LANES		
2. Volume on M	inor Approach	₹ 400						
One-Direction *(ve		COAC			2 OR MORE LAN	NES & 1 LANE		
pproach Lanes	1 2	STR 300						
olume Criteria*	100 150	MOR			^_	1 LANE & 1 LANE		
olume*		■ 200 200	\vdash		\leftarrow	\checkmark		
ulfilled?:	Yes 🗸 No	MINOR STREET HIGH VOLUME APPROACH - VPH 000 000		<u> </u>	$\downarrow \uparrow \downarrow \downarrow$			
9 Tat-11-4-	otion Enterior	100			+			*1
3. Total Interse Volume *(vehice	- II							*7
	3 4	0						
IO OI ADDIDACDAS								
lo. of Approaches /olume Criteria*	650 800	3	00 400 50		700 800 9	900 1000 1100 CHES VBH	1200 13	800

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: 10th St Major Approach Speed: Lanes: 25 Q St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time РМ 2931 1076 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Yes 🗸 No Fulfilled?: 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour) 0 No. of Approaches 4 300 600 1300 650 800 Volume Criteria* MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and

75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

Volume*

Fulfilled?:

Yes

✓ No

	TRAFFIC SIGN	NAL WARRANT	SUMMAR	Y	
City:	Lincoln		Engineer:	John P Diediker	
County:			Date:	January 17, 2020	
District:					
Major Street:	10th St	L	anes: 4	Major Approach Speed:	2
Minor Street:	P St		anes: 2	Minor Approach Speed:	2
MUTCD Electronic Reference	to Chapter 4: http	o://mutcd.fhwa.dot.gov/pdfs	/2009r1r2/part	4.pdf	
/olume Level Criteria	<u> </u>		•		
	r 85th-percentile of majo	or street > 40 mph (70 km/h)?	Yes V No	
		ited community with a popu		0?	
"70%" volume level may	be used if Question 1 of	r 2 above is answered "Yes	;" 	70% 🗸 100)%
WARRANT 3 - PEAK HO	<u>UR</u>				
If all three criteria are ful	filled or the plotted poin	t lies above the appropriate	line. A	pplicable: Yes No	
then the warrant is satisf		,	,	Satisfied: Yes No	
Unusual condition justifying u	se of	Plot volume combination	on on the applica	able figure below.	
warrant:	600	FIGURE 4C-3: (Criteria for "1	00%" Volume Level	_
			2 OR MORE LANES & 2	LOD MODE LANES	Ī
Record hour when criteria are f	ulfilled 풀 500		2 OR MORE LAINES & 2	OR WORE LANES	-
and the corresponding delay or in boxes provided.	volume				
<u> </u>			2 OF	R MORE LANES & 1 LANE	
Peak Hour 100% Volun	ue R A 300				-
	nor Vol.			1 LANE & 1 LANE	
AM 2001	718				*15
Peak Hour 70% Volum	ie				*1
Time Major Vol. Mi	nor Vol.				
	0	100 500 600 700 800 900	1000 1100 120	00 1300 1400 1500 1600 1700	1800
0.11	I	MAJOR STREET - TO			
Criteria 1. Delay on Minor Approa		oh applies as the lower threshold volui oh applies as the lower threshold volui		t approach with two or more lanes and ninor street approach with one lane.	
*(vehicle-hours)	,	.,			
Approach Lanes 1	2	FIGURE 4C-4: Ci	riteria for "70	%" Volume Level	
Pelay Criteria* 4.0	5.0	(Community Less than 10,000 p	oopulation or above	70 km/hr (40 mph) on Major Street)	_
Delay*	-				
ulfilled?: Yes ✓	No # 400		2 OR MORE LANES	S & 2 OR MORE LANES	
2. Volume on Minor Appro	ach ±		2 OR MORE LAN	NES & 1 LANE	
One-Direction *(vehicles per	hour) Hour				
pproach Lanes 1 olume Criteria* 100	2 88 89 150 Ls Had 300		$\langle \ \ $, 1 LANE & 1 LANE	
olume*	200 -			T EANLE & TEANLE	
ulfilled?: Yes 🗸	NO HIGH NOR STREET HIGH				
	100				*1
3. Total Intersection Enter Volume *(vehicles per ho	- 1				*75
No. of Approaches 3	1 4				
/olume Criteria* 650	800	0 400 500 600 7 MAJOR STREET - TOTAL			1300
/olume*	* Note: 100 vp			t approach with two or more lanes and	
Fulfilled?: Yes	No 75 vpt	applies as the lower threshold volum	e threshold for a mi	nor street approach with one lane.	

TRAF	FIC SIGNAL	WARRAN	IT SUMMAR	Υ	10/1
City: Lincol County: District:	n		Engineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:	10th St P St		Lanes: 4 Lanes: 2	Major Approach Spe	
MUTCD Electronic Reference to Chapte	r 4: <u>http://mutc</u>	<u>cd.fhwa.dot.gov</u>	<u>/pdfs/2009r1r2/part</u>	<u>4.pdf</u>	
1. Is the posted speed or 85th-percent 2. Is the intersection in a built-up a "70%" volume level may be used if	rea of an isolated cor	mmunity with a	population < 10,00		No No 100%
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the then the warrant is satisfied. Unusual condition justifying use of warrant:		Plot volume com	bination on the applica	pplicable: Yes Satisfied: Yes sable figure below. 7 Yes sable figure below. 7 Yes sable figure below.	No No
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 2378 803 Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach		MAJOR STREE as the lower thresho	2 OR MORE LANES & 2 2 OR MORE LANES & 2 2 O 2 O 2 O 100 1100 12: T - TOTAL OF BOTH APPR Id volume for a minor stree	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 00 1300 1400 1500 1600 1	s and
(vehicle-hours) Approach Lanes 1 2 Delay Criteria 4.0 5.0 Delay* Fulfilled?: Yes ✓ No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4	MINOR STREET HIGH VOLUME APPROACH - VPH 100 100 100 100 100 100 100 100 100 10	mmunity Less than 1	2 OR MORE LANE	70 km/hr (40 mph) on Major Stre	*100
Volume Criteria* 650 800 Volume*	* Note: 100 vph applies	MAJOR STREET as the lower threshold			s and

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 12th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled or the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Plot volume combination on the applicable figure below. Unusual condition justifying use of

warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume					
Time Major Vol. Minor Vol					
AM	691	126			

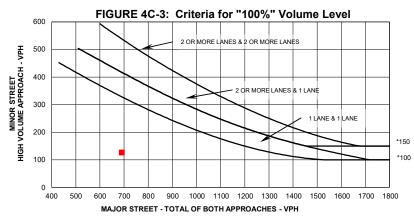
Peak Hour 70% Volume					
Time Major Vol. Minor Vol.					

Criteria

1. Delay on Minor Approach					
*(vehicle-hours)					
Approach Lanes 1 2					
Delay Criteria*	4.0	5.0			
Delay*					
Fulfilled?: Yes V No					

2. Volume on Minor Approach					
One-Direction *(vehicles per hour)					
Approach Lanes 1 2					
Volume Criteria*	100	150			
Volume*					
Fulfilled?: Yes V No					

Total Intersection Entering Volume *(vehicles per hour)			
No. of Approaches		3	4
Volume Criteria*	650	800	
Volume*			
Fulfilled?:	□ \	′es 🔽	No



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

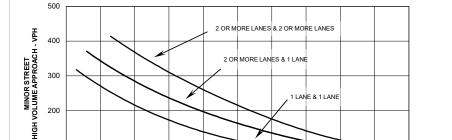


FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)

300 400 500 600 700 800 900 1000 1100 1200 1300

MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and

75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

100

*100

*75

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 12th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled or the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Plot volume combination on the applicable figure below. Unusual condition justifying use of warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume			
Time Major Vol. Minor Vol.			
PM	847	103	

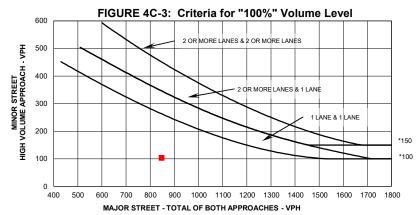
Peak Hour 70% Volume			
Time Major Vol. Minor Vol.			

Criteria

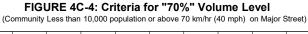
1. Delay on Minor Approach			
*(vehicle-hours)			
Approach Lanes	1	2	
Delay Criteria* 4.0 5.0			
Delay*			
Fulfilled?: Yes V No			

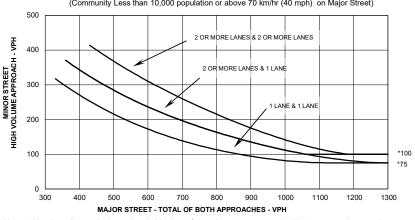
Volume on Minor Approach One-Direction *(vehicles per hour)			
Approach Lanes	1	2	
Volume Criteria*	/olume Criteria* 100 150		
Volume*			
Fulfilled?: Yes V No			

Total Intersection Entering Volume *(vehicles per hour)			
No. of Approaches	i	3	4
Volume Criteria*	riteria* 650 800		
Volume*			
Fulfilled?: Yes Vo			



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.





* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

TRA	AFFIC SIGNAL WARRANT SUMMARY
City: Line County: District:	Engineer: John P Diediker Date: January 17, 2020
Major Street: Minor Street:	P StLanes:3Major Approach Speed:2512th StLanes:1Minor Approach Speed:25
MUTCD Electronic Reference to Chap	pter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
2. Is the intersection in a built-up	percentile of major street > 40 mph (70 km/h)? p area of an isolated community with a population < 10,000? ☐ Yes ☑ No ☐ Yes ☑ No ☐ 70% ☑ 100%
	the plotted point lies above the appropriate line, Satisfied: Yes No Plot volume combination on the applicable figure below. FIGURE 4C-3: Criteria for "100%" Volume Level
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.	2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 2 OR MORE LANES & 1 LANE
Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 570 88 Peak Hour 70% Volume	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 100 1 100
Time Major Vol. Minor Vol. Criteria	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 150 yph applies as the lower threshold volume for a minor street approach with two or more lanes and
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes V No	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes V No	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches Volume Criteria* Volume* Fulfilled?: Yes Volume*	*Note: 100 vph applies as the lower threshold volume for a minor street approach with one lane.

City: Lir	oln	Engineer:	John P Diediker	
County:	<u> </u>	Date:	January 17, 2020	
District:		Dato .	oundary 17, 2020	
Major Street:	P St	Lanes: 3	Major Approach Speed:	2
Minor Street:	12th St	Lanes: 1	Minor Approach Speed:	_ <u>-</u>
MUTCD Electronic Reference to Cha	ter 4: http://mutcd.fhwa.dot.gov	<u>/pdfs/2009r1r2/par</u>	t4.pdf	
olume Level Criteria				
 Is the posted speed or 85th- 	ercentile of major street > 40 mph (70	km/h)?	Yes Vo	
2. Is the intersection in a built-u	area of an isolated community with a	population < 10,00	00?	
# 7 00/#	if Overation 4 and above in an arrange	UN / U	700/ 1000/	
"70%" volume level may be use	if Question 1 or 2 above is answered	"Yes"	70% 🔽 100%	
VARRANT 3 - PEAK HOUR				
If all three criteria are fulfilled o	the plotted point lies above the approp	priate line	Applicable:	
then the warrant is satisfied.	are proteed point need above the approp	oriate iirie,	Satisfied: Yes Vo	
Unusual condition justifying use of	Plot volume com	bination on the applic		
warrant:			100%" Volume Level	
	600 FIGURE 40	-5. Criteria for	100 /0 VOIUIIIE LEVEI	
		2 OR MORE LANES &:	2 OR MORE LANES	
Record hour when criteria are fulfilled	MINOR STREET HIGH VOLUME APPROACH - VPH 200 100 100 100 100 100 100 100 100 100			
and the corresponding delay or volume in boxes provided.	H 400			
III boxes provided.	ROA SEE	20	R MORE LANES & 1 LANE	
Peak Hour 100% Volume	APP 300			
Time Major Vol. Minor Vol.	UME	\downarrow	1 LANE & 1 LANE	
PM 684 163	≥ o 200			*15
	ਲ			*10
Peak Hour 70% Volume	100			
Time Major Vol. Minor Vol.	0			
	400 500 600 700 800			00
Criteria		T - TOTAL OF BOTH APPR		
Delay on Minor Approach	* Note: 150 vph applies as the lower thresho 100 vph applies as the lower thresho			
*(vehicle-hours)	,			
pproach Lanes 1 2	FIGURE 4C-	4: Criteria for "70	%" Volume Level	
elay Criteria* 4.0 5.0	(Community Less than 1		70 km/hr (40 mph) on Major Street)	
elay*	500			
ulfilled?: Yes Vo		2 OR MORE LANE	S & 2 OR MORE LANES	
O Malana an Minan Annuarah	<u>+</u> 400	$\overline{}$		
2. Volume on Minor Approach One-Direction *(vehicles per hour)) aver	2 OR MORE LA	NES & 1 LANE	
pproach Lanes 1 2	300 A 300			
olume Criteria* 100 150	MINOR STREET 400 700 700 700 700 700 700 700 700 700		. 1 LANE & 1 LANE	
olume*	OP 200	\searrow	1	
ulfilled?: Yes ✓ No) He			
	呈 100	7		*10
3. Total Intersection Entering				*75
Volume *(vehicles per hour)				
o of Approaches 3 4	0			
lo. of Approaches 3 4 folume Criteria* 650 800	300 400 500 600	700 800	900 1000 1100 1200 130	U

TRAI	FFIC SIGNAL WARRANT SUMMARY
City: Linco County: District:	Engineer: John P Diediker Date: January 17, 2020
Major Street: Minor Street:	Q St Lanes: 4 Major Approach Speed: 25 13th St Lanes: 2 Minor Approach Speed: 25
MUTCD Electronic Reference to Chapt	ter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
2. Is the intersection in a built-up	ercentile of major street > 40 mph (70 km/h)? The area of an isolated community with a population < 10,000? The individual of the image of the ima
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or then the warrant is satisfied. Unusual condition justifying use of warrant:	the plotted point lies above the appropriate line, Satisfied: Plot volume combination on the applicable figure below. FIGURE 4C-3: Criteria for "100%" Volume Level
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.	2 OR MORE LANES & 2 OR MORE LANES
Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 745 52 Peak Hour 70% Volume	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE 1 100
Time Major Vol. Minor Vol. Criteria	MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes ✓ No	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No	2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* Fulfilled?: Yes ✓ No	*100 300 400 500 600 700 800 900 1000 1100 1200 1300 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020

District:

Major Street:

Q St
Lanes:
4 Major Approach Speed:
25
Minor Street:
13th St
Lanes:
2 Minor Approach Speed:
25

MUTCD Electronic Reference to Chapter 4: http

http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf

Volume Level Criteria

- 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?
- 2. Is the intersection in a built-up area of an isolated community with a population < 10,000?

"70%" volume level **may** be used if Question 1 or 2 above is answered "Yes"

Yes	✓ No
Yes	✓ No

70% 🗸 100%

WARRANT 3 - PEAK HOUR

If all three criteria are fulfilled <u>or</u> the plotted point lies above the appropriate line, then the warrant is satisfied.

Applicable: Yes No
Satisfied: Yes No

Unusual condition justifying use of warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume			
Time Major Vol. Minor Vol.			
PM	964	92	

Peak Hour 70% Volume			
Time	Major Vol.	Minor Vol.	

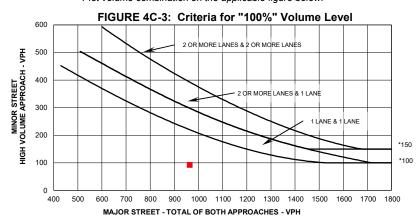
Criteria

1. Delay on Minor Approach				
*(vehicle-hours)				
Approach Lanes	1	2		
Delay Criteria*	4.0	5.0		
Delay*				
Fulfilled?: Yes V No				

Volume on Minor Approach One-Direction *(vehicles per hour)			
Approach Lanes	1	2	
Volume Criteria*	100	150	
Volume*			
Fulfilled?: Yes V No			

3. Total Intersection Entering			
Volume *(vehicles per hour)			
No. of Approaches	3	4	
Volume Criteria*	650	800	
Volume*			
Fulfilled?: Yes Vo			

Plot volume combination on the applicable figure below.



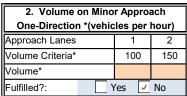
* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

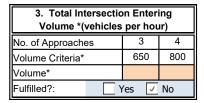
FIGURE 4C-4: Criteria for "70%" Volume Level

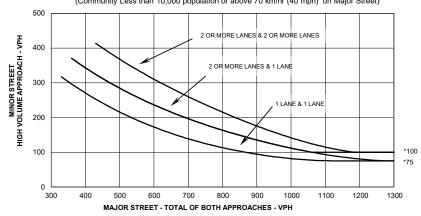
(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2 OR MORE LANES & 1 LANE 300 200 *100 100 *75 0 300 600 1300 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 10, 2020 District: Major Street: Major Approach Speed: Lanes: 25 13th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time AM 485 86 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Yes 🗸 No Fulfilled?: 2 OR MORE LANES & 2 OR MORE LANES 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes







* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

	TRAF	FIC SIGNAL W	ARRANT SUMM	IARY	10/
City: _ County: _ District: _	Lincol	n	Engineer Date		
Major Street: _ Minor Street: _		P St 13th St	Lanes:	Major Appro	
MUTCD Electronic	Reference to Chapter	4: http://mutcd.f	hwa.dot.gov/pdfs/2009r1r	2/part4.pdf	
2. Is the inters	ed speed or 85th-perc section in a built-up ar	entile of major street > rea of an isolated comm Question 1 or 2 above	nunity with a population <		Yes
WARRANT 3 - P If all three crite then the warra Unusual condition warra	eria are fulfilled or the nt is satisfied. justifying use of		t volume combination on the	Satisfied: applicable figure below.	Yes No
PM 9	ng delay or volume rovided. 10% Volume or Vol. Minor Vol. 1069 279	MINOR STREET HIGH VOLUME APPROACH - VPH 100 000 000 000 000 000 000 000 000 00	600 700 800 900 1000 11	ANES & 2 OR MORE LANES & 1 LANE 1 LAN	NE & 1 LANE *150 *100
1. Delay on Min *(vehicle Approach Lanes Delay Criteria* Delay* Fulfilled?:	-hours) 1 2 4.0 5.0 Yes V No	100 vph applies as t	the lower threshold volume for a min the lower threshold volume threshold the lower threshold volume threshold FIGURE 4C-4: Criteria fo unity Less than 10,000 population of	or street approach with two or d for a minor street approach w	vith one lane.
2. Volume on M One-Direction *(ve Approach Lanes Volume Criteria* Volume* Fulfilled?:	hicles per hour) 1 2 100 150 Yes V No ction Entering	MINOR STREET HIGH VOLUME APPROACH - VPH 100 100 100 100 100 100 100 100 100 10	2081	MORE LANES & 1 LANE 1 LANE & 1 LANE	*100
No. of Approaches Volume Criteria* Volume* Fulfilled?:	3 4 650 800 Yes No		500 600 700 800 MAJOR STREET - TOTAL OF BOTH A the lower threshold volume for a min te lower threshold volume threshold	APPROACHES - VPH nor street approach with two or	more lanes and

City: Linc		
County:	Date: January 17, 2020	
District:		
Major Street:	P St Lanes: 3 Major Approach Spee	ed: 2
	Centennial Mall Lanes: 1 Minor Approach Spec	
Willion Gueet.	Lanes. 1 Willow Approach Spee	su
UTCD Electronic Reference to Chapt	er 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf	
olume Level Criteria		
1. Is the posted speed or 85th-pe	rcentile of major street > 40 mph (70 km/h)?	No
	area of an isolated community with a population < 10,000?	No
	, , , , , , , , , , , , , , , , , , , ,	
"70%" volume level may be used	f Question 1 or 2 above is answered "Yes"	100%
/ARRANT 3 - PEAK HOUR		
	the plotted point lies above the appropriate line Applicable:	No
	he plotted point lies above the appropriate line,	No
then the warrant is satisfied.		INO
Unusual condition justifying use of	Plot volume combination on the applicable figure below.	
warrant:	FIGURE 4C-3: Criteria for "100%" Volume Level	
Record hour when criteria are fulfilled	₹ 500 2 OR MORE LANES & 2 OR MORE LANES	
nd the corresponding delay or volume		
in boxes provided.	ш й 400	
Peak Hour 100% Volume	HONOR STREET 400 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE	
	8 H 300	
Time Major Vol. Minor Vol.	1 LANE & 1 LANE	
AM 324 29	§ 200	*1:
Peak Hour 70% Volume	<u>♥</u> 100	*1
Time Major Vol. Minor Vol.	0	
	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 17 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH	00 1800
Criteria	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes	and
1. Delay on Minor Approach	100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.	
*(vehicle-hours)		
proach Lanes 1 2	FIGURE 4C-4: Criteria for "70%" Volume Level	
elay Criteria* 4.0 5.0	(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Stree	et)
elay*	500	
lfilled?: Yes ✓ No	± 2 OR MORE LANES & 2 OR MORE LANES	
	\$ 400	
2. Volume on Minor Approach	2 OR MORE LANES & 1 LANE	
One-Direction *(vehicles per hour)	# 300 X 4 300	
proach Lanes 1 2	E E A P S C A	
lume Criteria* 100 150	ON 1 LANE & 1 LANE	
olume*	TILANE & 1 LANE 2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE	
lfilled?:		
3. Total Intersection Entering	100	*1
- II		'
Volume *(vehicles per hour)		
Volume *(vehicles per hour) o. of Approaches 3 4	300 400 500 600 700 800 900 1000 1100 1200	1300

City: Li	ncoln	Engineer:	John P Diediker
County:	ICOIII	Date:	January 17, 2020
District:			oaaay, 2020
Major Street:	P St	Lanes: 3	Major Approach Speed:
Minor Street:	Centennial Mall	Lanes: 1	Minor Approach Speed:
MUTCD Electronic Reference to Cha	apter 4: http://mutcd.	fhwa.dot.gov/pdfs/2009r1r2/part	<u>4.pdf</u>
olume Level Criteria			F., F.,
1. Is the posted speed or 85th-	-		Yes _✓ No
2. Is the intersection in a built-	up area of an isolated comi	munity with a population < 10,00	00?
"70%" volume level may be use	ed if Question 1 or 2 above	is answered "Yes"	70% 🔽 100%
VARRANT 3 - PEAK HOUR			
If all three criteria are fulfilled	or the plotted point lies abo	ve the appropriate line	Applicable: Yes No
then the warrant is satisfied.	rie piotted point lies abo	ve the арргорнаte ilie,	Satisfied: Yes Vo
Unusual condition justifying use of	Pl	ot volume combination on the applic	able figure below.
warrant:		FIGURE 4C-3: Criteria for "1	00%" Volume Level
	600		
Record hour when criteria are fulfilled	五 500	2 OR MORE LANES & 2	2 OR MORE LANES
and the corresponding delay or volume	7	\downarrow	
in boxes provided.	OPC 400		
Peak Hour 100% Volume	MINOR STREET MINOR STREET HIGH VOLUME APPROACH - VPH 100	20	R MORE LANES & 1 LANE
Time Major Vol. Minor Vol	ME AN SON SON SON SON SON SON SON SON SON SO		1 LANE & 1 LANE
PM 846 38	200 E		
Peak Hour 70% Volume			
Time Major Vol. Minor Vol		•	
	400 500	600 700 800 900 1000 1100 12	
Cuitouio	_	MAJOR STREET - TOTAL OF BOTH APPR	
Criteria 1. Delay on Minor Approach	= ' ' ''	the lower threshold volume for a minor stree the lower threshold volume threshold for a n	• •
*(vehicle-hours)			
pproach Lanes 1 2	1 ∣	FIGURE 4C-4: Criteria for "70	%" Volume Level
Pelay Criteria* 4.0 5.0	(Comn	nunity Less than 10,000 population or above	
Pelay*	500		
ulfilled?: Yes Vo	<u></u>	2 OR MORE LANE	S & 2 OR MORE LANES
2. Volume on Minor Approach	☐		
One-Direction *(vehicles per hour)	. CEET	2 OR MORE LAI	NES & 1 LANE
pproach Lanes 1 2	AR 300		
olume Criteria* 100 150	INOR INOR		1 LANE & 1 LANE
olume*	200		
ulfilled?: Yes V No	MINOR STREET HIGH VOLUME APPROACH - VPH 700		
3. Total Intersection Entering	100		
Volume *(vehicles per hour)			
(comments per mean)			
lo. of Approaches 3 4	300 400	500 600 700 800 9	900 1000 1100 1200 1300

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 N 16th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time AM 1172 151 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Fulfilled?: Yes ✓ No 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour)

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

600

0

300

4

800

650

✓ No

Yes

No. of Approaches

Volume Criteria*

Volume*

Fulfilled?:

1300

City: Line	coln Engineer: John P Diediker
	<u> </u>
County: District:	Date: January 17, 2020
Major Street:	Q St Lanes: 4 Major Approach Speed:
Minor Street:	N 16th St Lanes: 2 Minor Approach Speed:
UTCD Electronic Reference to Chap	ter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
olume Level Criteria	
1. Is the posted speed or 85th-pe	ercentile of major street > 40 mph (70 km/h)?
	area of an isolated community with a population < 10,000?
"70%" volume level may be used	if Question 1 or 2 above is answered "Yes" 70% 100%
/ARRANT 3 - PEAK HOUR	
If all three criteria are fulfilled or	the plotted point lies above the appropriate line, Applicable:
then the warrant is satisfied.	Satisfied: Yes No
Unusual condition justifying use of	Plot volume combination on the applicable figure below.
warrant:	
	FIGURE 4C-3: Criteria for "100%" Volume Level
	2 OR MORE LANES & 2 OR MORE LANES
Record hour when criteria are fulfilled	H ₂ 500
and the corresponding delay or volume in boxes provided.	± 400
III boxes provided.	2 OR MORE LANES & 1 LANE
Peak Hour 100% Volume	HON STREET TO THE STATE OF THE
Time Major Vol. Minor Vol.	YOUNG & I LANE & I LANE
PM 999 370	§ d 200 .
	<u> </u>
Peak Hour 70% Volume	Ī 100
Time Major Vol. Minor Vol.	
	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800
Cuitouio	MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH
Criteria 1. Delay on Minor Approach	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.
*(vehicle-hours)	100 vpn applied ad the lower threatista volume threatista for a minor about approach with one fame.
pproach Lanes 1 2	FIGURE 4C-4: Criteria for "70%" Volume Level
elay Criteria* 4.0 5.0	(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
elay*	500
ılfilled?: Yes ✓ No	± 2 OR MORE LANES & 2 OR MORE LANES
	\$ 400
2. Volume on Minor Approach	2 OR MORE LANES & 1 LANE
One-Direction *(vehicles per hour) pproach Lanes 1 2	₩ 2 300
olume Criteria* 100 150	2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
olume*	LANE & 1 LANE
ulfilled?: Yes ✓ No	
165 0 100	
3. Total Intersection Entering	100
Volume *(vehicles per hour)	
Volume (Verneles per mour)	
o. of Approaches 3 4 Dlume Criteria* 650 800	300 400 500 600 700 800 900 1000 1100 1200 1300

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 N 16th St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled or the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Plot volume combination on the applicable figure below. Unusual condition justifying use of warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. Time 200 AM 309 235 *150 *100

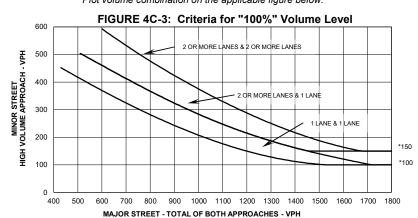
Peak Hour 70% Volume				
Time	Major Vol.	Minor Vol.		

Criteria

1. Delay on Minor Approach			
*(vehicle-hours)			
Approach Lanes	1	2	
Delay Criteria*	4.0	5.0	
Delay*			
Fulfilled?: Yes Vo			

2. Volume on Minor Approach				
One-Direction *(vehicles per hour)				
Approach Lanes	1	2		
Volume Criteria*	100	150		
Volume*				
Fulfilled?: Yes V No				

3. Total Intersection Entering			
Volume *(vehicles per hour)			
No. of Approaches	3	4	
Volume Criteria*	650	800	
Volume*			
Fulfilled?: Yes Vo			



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)

500 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2 OR MORE LANES & 1 LANE 300 200 *100 100 *75 0 300 600 1300 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 N 16th St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR**

If all three criteria are fulfilled or the plotted point lies above the appropriate line, then the warrant is satisfied.

500

0 300

✓ Yes No Applicable: Yes V No Satisfied:

Unusual condition justifying use of warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume				
Time	Major Vol.	Minor Vol.		
PM	599	553		

Peak Hour 70% Volume					
Time	Major Vol.	Minor Vol.			

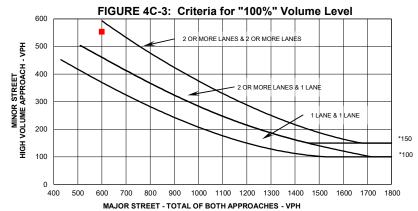
Criteria

Delay on Minor Approach						
*(vehicle-hours)						
Approach Lanes	1	2				
Delay Criteria*	4.0	5.0				
Delay*						
Fulfilled?:						

2. Volume on Mino						
One-Direction *(vehicles per hour)						
Approach Lanes	1	2				
Volume Criteria*	100	150				
Volume*						
Fulfilled?:	∕es ✓	No				

Total Intersection Entering Volume *(vehicles per hour)					
No. of Approaches		3	4		
Volume Criteria*		650	800		
Volume*					
Fulfilled?:	\	′es 🔽	No		

Plot volume combination on the applicable figure below.



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)

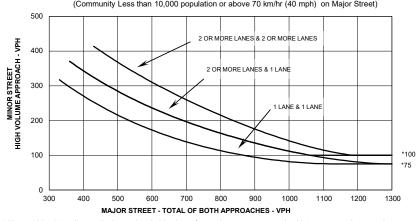
2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2 OR MORE LANES & 1 LANE 300 200 *100 100 *75

MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

600

1300

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 16th St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. Time AM 1662 333 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Fulfilled?: Yes ✓ No 2 OR MORE LANES & 2 OR MORE LANES 400 2. Volume on Minor Approach



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

3. Total Intersection Entering

One-Direction *(vehicles per hour)

100

Yes

150

Approach Lanes Volume Criteria*

Volume*

Fulfilled?:

TRA	AFFIC SIGNAL	. WARRAN	TSUMMAR	Y	10/1
City: Lin County: District:	coln		Engineer: Date:	John P Diediker January 17, 2020	
Major Street:	O St 16th St		Lanes: 2 Lanes: 4	Major Approach Speed: _ Minor Approach Speed: _	25 25
MUTCD Electronic Reference to Cha	pter 4: <u>http://mu</u>	tcd.fhwa.dot.gov/p	odfs/2009r1r2/part	<u>4.pdf</u>	
1. Is the posted speed or 85th- 2. Is the intersection in a built-u "70%" volume level may be use WARRANT 3 - PEAK HOUR	p area of an isolated c	ommunity with a	oopulation < 10,00	70% 🔽 100%	⁄ o
If all three criteria are fulfilled on then the warrant is satisfied. Unusual condition justifying use of warrant:	the plotted point lies a	Plot volume combi	nation on the applic	Applicable:	•
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 1866 623	MINOR STREET 400 400 000 000 000 000 000 000 000 000		2 OR MORE LANES & 2	R MORE LANES & 1 LANE 1 LANE & 1 LANE	-
Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria	0 400 5		900 1000 1100 12 TOTAL OF BOTH APPR	OACHES - VPH	*150 *100
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes V No	100 vph applie	FIGURE 4C-4	: Criteria for "70 000 population or above	wit approach with two or more lanes and ninor street approach with one lane. W" Volume Level 70 km/hr (40 mph) on Major Street)	
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes V No	MINOR STREET HIGH VOLUME APPROACH - VPH		2 OR MORE LA	NES & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* Fulfilled?: Yes ✓ No	100 0 300 4	es as the lower threshold	OTAL OF BOTH APPROA volume for a minor stree		*100 *75

City: Lincoln		
County:	Engineer: John P Diediker Date: January 17, 2020	
District:	Date. Salidary 17, 2020	
Major Street:	L St Lanes: 4 Major Approach Speed:	2
Minor Street:	16th St Lanes: 4 Minor Approach Speed:	2
UTCD Electronic Reference to Chapter	4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf	
olume Level Criteria		
1. Is the posted speed or 85th-perce	entile of major street > 40 mph (70 km/h)?	
	ea of an isolated community with a population < 10,000?	
"70%" volume level may be used if C	Question 1 or 2 above is answered "Yes"	Ó
ARRANT 3 - PEAK HOUR		
If all three criteria are fulfilled or the	plotted point lies above the appropriate line, Applicable: Yes No	
then the warrant is satisfied.	Satisfied: Yes No	
Unusual condition justifying use of	Plot volume combination on the applicable figure below.	
warrant:	FIGURE 4C-3: Criteria for "100%" Volume Level	
	600 TIGORE 40-3. Criteria foi 100 % Volume Level	1
	¥ 500 2 OR MORE LANES & 2 OR MORE LANES	
Record hour when criteria are fulfilled nd the corresponding delay or volume	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE	•
in boxes provided.	± 400	
	2 OR MORE LANES & 1 LANE	
Peak Hour 100% Volume	200 × 300	1
Time Major Vol. Minor Vol.	Y LANE & 1 LANE	
AM 2034 488	= 0 200 = 200	*15
Peak Hour 70% Volume	Ö 100	*10
Time Major Vol. Minor Vol.		
Time Wajor voi. Willor voi.	0 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1] 300
	MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH	500
Criteria	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	
1. Delay on Minor Approach	100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.	
*(vehicle-hours)		
proach Lanes 1 2	FIGURE 4C-4: Criteria for "70%" Volume Level	
elay Criteria* 4.0 5.0	(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)	
elay*		
Ifilled?: Yes 🗸 No	2 OR MORE LANES & 2 OR MORE LANES	
2. Volume on Minor Approach	± 400	
One-Direction *(vehicles per hour)	2 OR MORE LANES & 1 LANE	
proach Lanes 1 2	RI SA	
lume Criteria* 100 150	1 LANE & 1 LANE	
lume*	200 200	
Ifilled?: Yes V No	TANE & TLANE 2 OR MORE LANES 2 OR MORE LANES 1 LANE & 1 LANE 1 LANE & 1 LANE	
3. Total Intersection Entering	100	*10
Volume *(vehicles per hour)		*75
o. of Approaches 3 4	300 400 500 600 700 800 900 1000 1100 1200 13	00

Minor Street: MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs Volume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h 2. Is the intersection in a built-up area of an isolated community with a pop "70%" volume level may be used if Question 1 or 2 above is answered "Yes WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	n)? pulation < 10,0 s" e line, ion on the appl	Minor Applicable: Satisfied:		29
Minor Street: MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs /olume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h 2. Is the intersection in a built-up area of an isolated community with a pope "70%" volume level may be used if Question 1 or 2 above is answered "Yes //ORRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3: 600	anes: 4 s/2009r1r2/pa n)? pulation < 10,0 s" e line, ion on the appli	Minor Applicable: Satisfied:	Yes ✓ No Yes ✓ No	29
### MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs #### MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs ###################################	n)? pulation < 10,0 s" e line, ion on the appli	Applicable: Satisfied:	☐ Yes ☑ No ☐ Yes ☑ No ☐ 70% ☑ 100 ☑ Yes ☐ No ☑ Yes ☐ No ☑ Yes ☐ No below.	0%
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h 2. Is the intersection in a built-up area of an isolated community with a pope "70%" volume level may be used if Question 1 or 2 above is answered "Yes NARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	n)? pulation < 10,0 s" e line, ion on the appl	000? Applicable: Satisfied: licable figure b	Yes No Yes No Yes No Yes No Ves No	0%
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h 2. Is the intersection in a built-up area of an isolated community with a pope "70%" volume level may be used if Question 1 or 2 above is answered "Yes VARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	e line,	Applicable: Satisfied: licable figure b	Yes No Yes No Yes No Yes No Ves No	0%
2. Is the intersection in a built-up area of an isolated community with a popular policy of the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: 2. Is the intersection in a built-up area of an isolated community with a popular popul	e line,	Applicable: Satisfied: licable figure b	Yes No Yes No Yes No Yes No Ves No	0%
"70%" volume level may be used if Question 1 or 2 above is answered "Yes VARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	e line,	Applicable: Satisfied: licable figure b	✓ Yes ☐ No ✓ Yes ☐ No below.	0%
VARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	e line, ion on the appi	Satisfied: licable figure b	✓ Yes ☐ No ✓ Yes ☐ No below.	
If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	ion on the appi	Satisfied: licable figure b	✓ Yes No	
If all three criteria are fulfilled or the plotted point lies above the appropriate then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	ion on the appi	Satisfied: licable figure b	✓ Yes No	
then the warrant is satisfied. Unusual condition justifying use of warrant: FIGURE 4C-3:	ion on the appi	licable figure b	below.	
warrant: FIGURE 4C-3: 600		_		
600 FIGURE 4C-3: 0	Criteria for	"100%" Vol		
			ume Level	
Pagard hour when exitoria are fulfilled	1 1			
Record hour when criteria are fulfilled	2 OR MORE LANES	& 2 OR MORE LANES	S	_
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 1108 1209 100				
in boxes provided.		2 OR MORE LANES &	\$ 1 I ANE	
Peak Hour 100% Volume				
Time Major Vol. Minor Vol.			1 LANE & 1 LANE	
PM 1108 1209				*150
Peak Hour 70% Volume				*10
Time Major Vol. Minor Vol.				
400 500 600 700 800 900	0 1000 1100	1200 1300 140	00 1500 1600 1700	 1800
MAJOR STREET - TO	TAL OF BOTH API	PROACHES - VPH	4	
Criteria * Note: 150 vph applies as the lower threshold volume				Į.
Delay on Minor Approach *(vehicle-hours) 100 vph applies as the lower threshold volume.	ime threshold for a	a minor street app	oroach with one lane.	
pproach Lanes 1 2 FIGURE 4C-4: C	ritoria for "7	70%" Volum	ne I evel	
elay Criteria* 4.0 5.0 (Community Less than 10,000				
elay*				7
ulfilled?: ☐ Yes ☑ No 표	2 OR MORE LA	NES & 2 OR MORE L	ANES	
2. Volume on Minor Approach				7
One-Direction *(vehicles per hour)	2 OR MORE	LANES & 1 LANE		
pproach Lanes 1 2				7
olume Criteria* 100 150		1 LANE &	1 LANE	
2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* ulfilled?: Yes / No		\times		7
	+			*100
3. Total Intersection Entering				*75
Volume *(vehicles per hour)				
	700 800	900 1000	1100 1200	1300

	TRAFF	IC SIGNAL	WARRA	NT SUMMAR	Υ	10/1:
City: County: District:	Lincoln			Engineer: Date:	John P Diediker January 17, 2020	
Major Street:		K St 16th St		Lanes: 4	Major Approach Spe Minor Approach Spe	
MUTCD Electronic Re	eference to Chapter	4: <a 10,000="" 70°="" above<="" href="http://muto</td><td>d.fhwa.dot.go</td><td>v/pdfs/2009r1r2/part</td><td>4.pdf</td><td></td></tr><tr><td>2. Is the interse</td><td>speed or 85th-percection in a built-up arection in a built-up arectivel may be used if 0</td><td>ea of an isolated cor</td><td>mmunity with a</td><td>a population < 10,00</td><td></td><td></td></tr><tr><td>WARRANT 3 - PE If all three criteri then the warrant Unusual condition ju warran</td><td>a are fulfilled <u>or</u> the
t is satisfied.
stifying use of</td><td></td><td>Plot volume con</td><td>nbination on the applica</td><td>editorica:</td><td>No
No</td></tr><tr><td>Record hour when crit
and the corresponding
in boxes pro Peak Hour 100 Time Major AM 149</td><td>delay or volume vided. % Volume Vol. Minor Vol.</td><td>MINOR STREET HIGH VOLUME APPROACH - VPH 200 200 200 200 200 200 200 200 200 20</td><td></td><td>2 OR MORE LANES & 2</td><td>OR MORE LANES R MORE LANES & 1 LANE 1 LANE & 1 LANE</td><td></td></tr><tr><td>Peak Hour 70% Time Major Crite</td><td>% Volume Vol. Minor Vol.</td><td>400 500</td><td>MAJOR STRE</td><td>ET - TOTAL OF BOTH APPRO</td><td></td><td></td></tr><tr><td>1. Delay on Mino *(vehicle-h Approach Lanes Delay Criteria* Delay* Fulfilled?:</td><td>· ·</td><td>500 (Co</td><td>FIGURE 40</td><td>-4: Criteria for " or="" population="" td=""><td>%" Volume Level 70 km/hr (40 mph) on Major Stre</td><td></td>	%" Volume Level 70 km/hr (40 mph) on Major Stre			
2. Volume on Min One-Direction *(veh Approach Lanes Volume Criteria* Volume* Fulfilled?:		MINOR STREET HIGH VOLUME APPROACH -		2 OR MORE LAN	1 LANE & 1 LANE	
3. Total Intersect Volume *(vehicle No. of Approaches Volume Criteria* Volume* Fulfilled?:			MAJOR STREET as the lower thresh	r - TOTAL OF BOTH APPROAG old volume for a minor street	100 1000 1100 1200 CHES - VPH It approach with two or more lanes for street approach with one lane.	

TRA	AFFIC SIGN	AL WARRAN	IT SUMMAR	Υ	10/1
City: Lin County: District:	coln		Engineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:	K St 16th St		Lanes: 4 Lanes: 4	Major Approach Speed Minor Approach Speed	
MUTCD Electronic Reference to Cha	pter 4: <u>http:/</u>	//mutcd.fhwa.dot.gov	/pdfs/2009r1r2/part	4.pdf	
1. Is the posted speed or 85th- 2. Is the intersection in a built-u "70%" volume level may be use WARPANT 3 - PEAK HOUR	p area of an isolate	ed community with a	population < 10,00	☐ Yes ☑ No ☐ Yes ☑ No ☐ 70% ☑ 10)
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled on then the warrant is satisfied. Unusual condition justifying use of warrant:	the plotted point i	Plot volume com	bination on the applic	pplicable: Yes No Satisfied: Yes No able figure below. Oo%" Volume Level	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 1930 1120 Peak Hour 70% Volume	MINOR STREET HIGH VOLUME APPROACH - VPH 100 - 000		2 OR MORE LANES & 2	P OR MORE LANES R MORE LANES & 1 LANE 1 LANE & 1 LANE	*150
Time Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2	=	MAJOR STREE applies as the lower thresho applies as the lower thresho	T - TOTAL OF BOTH APPR Id volume for a minor stree Id volume threshold for a n	OACHES - VPH t approach with two or more lanes and ninor street approach with one lane.	1800
Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes No	MINOR STREET MINOR STREET 400 700 700 700 700 700 700 700 700 700			70 km/hr (40 mph) on Major Street)	
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* Fulfilled?: Yes V No	100 0 300 * Note: 100 vph	applies as the lower thresho	- TOTAL OF BOTH APPROA Id volume for a minor stree	000 1000 1100 1200 CHES - VPH t approach with two or more lanes and nor street approach with one lane.	*100 *75

	TRAFFIC	SIGN	AL WAF	RRANT	SUMMAF	RY	
City:	Lincoln				Engineer:	John P Die	ediker
County:					Date:	January 17	
District:							,
Major Street:	16ti	h St			Lanes: 3	Major Approac	ch Speed: 2
Minor Street:	G	St			Lanes: 1	Minor Approac	ch Speed: 2
MUTCD Electronic Refere	ence to Chapter 4:	http://	mutcd.fhwa.	dot.gov/pd	fs/2009r1r2/par	rt4.pdf	
/olume Level Criteria	<u></u>						
	ed or 85th-percentile	of major s	treet > 40 n	nph (70 km	/h)?	Y	'es ✓ No
	n in a built-up area of a	-			•	00?Y	'es ✓ No
	may be used if Questi						0% 🗸 100%
VARRANT 3 - PEAK							_
		ad naint li	aa ahaya th		oto lino	Applicable: V	es No
then the warrant is s	e fulfilled <u>or</u> the plotte satisfied.	ea point ile	es above the	е арргорпа	ite iine,		'es ✓ No
Unusual condition justify	ing use of		Plot volu	me combina	ation on the applic	cable figure below.	
warrant:		600 —	FIGI	JRE 4C-3:	Criteria for "	100%" Volume Le	evel
		500		\downarrow \mid \mid	2 OR MORE LANES &	2 OR MORE LANES	
Record hour when criteria	are fulfilled	₹ 500			2 OR MORE LANES &	2 OR MORE LANES	
and the corresponding dela in boxes provide	y or volume	400 K	$\backslash \backslash$		\downarrow		
·	<u>. </u>	HIGH VOLUME APPROACH VPH 100 -			20	OR MORE LANES & 1 LANE	
Peak Hour 100% V	olume မ်ာ	300					
Time Major Vol.	Minor Vol.	200		`	$\downarrow\downarrow\uparrow$	1 LANE	& 1 LANE
AM 792	179	0 200 T		•		X	*15
Peak Hour 70% Vo	olume	<u>9</u> 100					*10
Time Major Vol.	Minor Vol.						
		400	500 600	700 800 9	900 1000 1100 1	200 1300 1400 1500	1600 1700 1800
2.4					OTAL OF BOTH APPI		
Criteria 1. Delay on Minor Ap						et approach with two or m minor street approach with	
*(vehicle-hours	· II -						
pproach Lanes	1 2		FIGU	RE 4C-4:	Criteria for "70	0%" Volume Leve	d.
,	4.0 5.0	500	(Community L	ess than 10,00	0 population or above	e 70 km/hr (40 mph) on M	lajor Street)
elay*		000					
ulfilled?: Yes	V No ₽	400			2 OR MORE LANI	ES & 2 OR MORE LANES	
2. Volume on Minor A	pproach _ j				2 OR MORE LA	ANES & 1 LANE	
One-Direction *(vehicles	<u> </u>	300		\rightarrow			
pproach Lanes olume Criteria*	1 2 5 4 100 150				\times	1 I ANE 9 4 I ANE	
olume*	NING ISO	200	\rightarrow	\searrow		1 LANE & 1 LANE	
ulfilled?: Yes							
		100					*10
3. Total Intersection E Volume *(vehicles pe	- 1						*75
lo. of Approaches	3 4	0					
	650 800	300	400 500 MAJO		700 800 TAL OF BOTH APPROA	900 1000 1100 ACHES - VPH	1200 1300
olume*		e: 100 vph a				et approach with two or m	ore lanes and
ulfilled?: Yes	✓ No	75 vph ap	plies as the lowe	er threshold vol	ume threshold for a m	ninor street approach with	one lane.

County: District: Major Street: Minor Street: Minor Street: G St Lanes: 3 Major Approach Speed: 2 Minor Approach Speed: 2 Minor Approach Speed: 2 Minor Street: WUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf //olume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000?	City:	incoln		Engineer:	John P Diediker	
District: Major Street: Major Street: Major Street: Major Street: Multicompose the street of th		incom				
Minor Street:				Duto .	oundary 17, 2020	
Minor Street:	Major Street:	16th St		Lanes: 3	Maior Approach Speed:	2
### AUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dol.gov/pdfs/2009r1r2/part4.pdf ### Autor Dispression of the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?					_	2
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?		bantan Araban			_	
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes"		napter 4: <u>ntt</u>	p://mutcd.fhwa.dot.g	ov/pdfs/2009r1r2/part	<u>(4.pdf</u>	
2. Is the intersection in a built-up area of an isolated community with a population < 10,000? Yes ✓ No "70%" volume level may be used if Question 1 or 2 above is answered "Yes" 70% ✓ 100% **NARRANT 3 - PEAK HOUR** If all three criteria are fulfilled or the plotted point lies above the appropriate line, Satisfied: Yes ✓ No Satisfied: Yes ✓ No Time Major Vol. Minor Vol. PM 816 128 Peak Hour 70% Volume Time Major Vol. Minor Vol. PM 816 128 Peak Hour 70% Volume Time Major Vol. Minor Vol. Phy Major Street Total of Both Approach (vehicle-hours) Peak Hour 70% Volume Time Major Vol. Minor Vol. Pime Major Vol. Minor Vol. Peak Hour 70% Volume Time Major Vol. Minor Vol. Pime Major Vol. Minor Vol. Poproach Lanes 1. Delay on Minor Approach (vehicle-hours) Peak Hour 70% Volume Time Major Vol. Minor Vol. Population of the applicable figure below. **Note: 150 vph applies as the lower threshold volume for a minor street approach with nor						
## VARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate line, Satisfied: Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol.		-		•		
## Applicable:	2. Is the intersection in a buil	t-up area of an isol	ated community with	a population < 10,00	00?	
If all three criteria are fulfilled or the plotted point lies above the appropriate line, Applicable: Ves No Satisfied: Yes No No Note: 15 acts of the warrant is satisfied. Unusual condition justifying use of warrant: Peak Hour for the warrant is satisfied. Piot volume combination on the applicable figure below.	"70%" volume level may be u	sed if Question 1 c	r 2 above is answer	ed "Yes"	70% 🔽 100%	6
If all three criteria are fulfilled or the plotted point lies above the appropriate line, Applicable: Ves No Satisfied: Yes No No Note: 1 Satisfied: Yes No Note: 1 Satisfied: Note: 1 Satisfied: Note:	VARRANT 3 - PEAK HOUR					
then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 816 128 Peak Hour 70% Volume Time Major Vol. Minor Vol. Time Major Vol. Minor Approach "(vehicle-hours) Proach Lanes 1 2 2 Noune on Minor Approach "(vehicle-hours) Peak To Volume on Minor Approach "(vehicle-hours) Proach Lanes 1 2 2 Noune on Minor Approach Time Major Vol. Minor Vol. Time Major Vol. Minor Approach "(vehicle-hours) Time Major Vol. Minor Vol. Time Majo		or the plotted nois	at lies above the ann	ronriate line A	Applicable:	
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Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 816 128 Peak Hour 70% Volume Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Phy 816 128 Peak Hour 70% Volume Time Major Vol. Minor Vol. Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with one lane. FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 2. Volume on Minor Approach One-Direction "(vehicles per hour) proach Lanes 1 2 2 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 3. Total Intersection Entering Volume "(vehicles per hour) output "vehicles per hour) outpu		600				7
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol.	Record hour when criteria are fulfilled	¥ 500		2 OR MORE LANES &	2 OR MORE LANES	
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol.		e ±		\searrow		
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol.		₽ 2 400				-
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol.	Peak Hour 100% Volume			20	R MORE LANES & 1 LANE	
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol.		ME A 300			1 I ANE & 1 I ANE	
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach	,	OI. N			TENNE UTENNE	
Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach	1 101 120	<u>ᆗ</u>				*150
Criteria 1. Delay on Minor Approach *(vehicle-hours) *(v	Peak Hour 70% Volume	<u> </u>		-		*10
A00 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800	Time Major Vol. Minor V					
*Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold				800 900 1000 1100 12	00 1300 1400 1500 1600 1700 1	800
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(vehicle-hours) Approach Lanes 1 2 Alelay Criteria 4.0 5.0 Alelay* Idiffiled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Approach Lanes 1 2 Aloume Criteria* 100 150 Aloume *(vehicles per hour) Aloume *(vehicles per hou					• •	
FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) Polacy Criteria* 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* 3. Total Intersection Entering Volume *(vehicles per hour) No of Approaches 3 4 No 100 of Approaches 3 10 of Approaches 4 00 of Approaches		700 (pri applies as trie lower trire	snoid volume unesnoid for a m	піног ѕігеет арргоасті міні опе іапе.	
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2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 folume Criteria* 100 150 folume* ulfilled?: Yes Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Oriteria* 650 890	Delay*	500]
3. Total Intersection Entering Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Optimize SEO 800)	ulfilled?: Yes V No	Ŧ		2 OR MORE LANE	S & 2 OR MORE LANES	
3. Total Intersection Entering Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Optimize SEO 800)	O Valuma on Minar Annuach	<u>\$</u> 400				
3. Total Intersection Entering Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Optimize SEO 800)) Act	\mathcal{A}	2 OR MORE LA	NES & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Optimize SEO 800)	, ,	300 R 8				
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 (Above Objective 1990)	''	ME A			, 1 LANE & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) lo. of Approaches 3 4 (Above Ordering to the content of the conte		■ □ 200	\rightarrow			-
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 (Above Objective 1990)	ulfilled?: Yes Vo	T DE				
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lo. of Approaches 3 4 300 400 500 600 700 800 900 1000 1100 1200 1300	•					*75
300 400 500 600 700 800 900 1000 1100 1200 1300]
MA IND STREET - TOTAL OF BOTH ADDONABLES - VOL		 30				300

City: Lin	coln		Engineer:	John P Diediker	
County:	COIII	-	Date:	January 17, 2020	
District:				oundary 17, 2020	
Major Street:	16th St		Lanes: 3	Major Approach Speed:	2
Minor Street:	D St		Lanes: 1	Minor Approach Speed:	2
	- A A	//			
MUTCD Electronic Reference to Cha	oter 4: <u>nttp:</u>	//mutcd.fhwa.dot.gov	//pdfs/2009r1r2/part	<u>4.par</u>	
olume Level Criteria					
1. Is the posted speed or 85th-p	_		•	Yes ✓ No	
2. Is the intersection in a built-u	o area of an isolat	ed community with a	population < 10,00	00?	
"70%" volume level may be use	d if Question 1 or	2 above is answered	"Yes"	70% 🗸 100	%
VARRANT 3 - PEAK HOUR					
If all three criteria are fulfilled on	the plotted point	lies above the appro	nriate line A	pplicable: Yes No	
then the warrant is satisfied.	the plotted point	neo above the approp	oriate iirio,	Satisfied: Yes Vo	
Unusual condition justifying use of		Plot volume com	bination on the applic	able figure below.	
warrant:		FIGURE 40	3-3: Criteria for "1	00%" Volume Level	
	600				
Record hour when criteria are fulfilled	₹ 500		2 OR MORE LANES & 2	OR MORE LANES	
and the corresponding delay or volume	> -		\searrow		
in boxes provided.	OACI	\mathcal{N}			
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Time Major Vol. Minor Vol.	MEA 300			1 LANE & 1 LANE	
AM 666 64	0 200 P				
	<u> </u>				*150
Peak Hour 70% Volume					*10
Time Major Vol. Minor Vol.	0				
	40				1800
Criteria			T - TOTAL OF BOTH APPR		
Delay on Minor Approach	a	• •		t approach with two or more lanes and ninor street approach with one lane.	
*(vehicle-hours)					
pproach Lanes 1 2		FIGURE 4C-	4: Criteria for "70	%" Volume Level	
Delay Criteria* 4.0 5.0				70 km/hr (40 mph) on Major Street)	
Delay*	500]
ulfilled?: Yes V No	 		2 OR MORE LANES	S & 2 OR MORE LANES	
2. Volume on Minor Approach	\$ 400 <u></u>				1
One-Direction *(vehicles per hour)	OAC		2 OR MORE LAI	NES & 1 LANE	
pproach Lanes 1 2	APPR 300	$\langle \langle \rangle \rangle$			1
olume Criteria* 100 150	UME,			1 LANE & 1 LANE	
/olume*	■ NO 200 —				1
ulfilled?: Yes V No	MINOR STREET HIGH VOLUME APPROACH - VPH 000		\		
3. Total Intersection Entering	100				*100
Volume *(vehicles per hour)					*75
<u>, , , , , , , , , , , , , , , , , , , </u>					_
lo. of Approaches 3 4	300	400 500 600	700 800 9	900 1000 1100 1200 1	300

City:	coln		Engineer	John P Diediker		
City: Lin County:	coln	_	Engineer: Date:	January 17, 2020		
District:			Date.	January 17, 2020		
Major Street:	16th St		Lanes: 3	Major Approach Speed:	2	
Minor Street:	D St		Lanes: 1	Minor Approach Speed:	2	
IUTCD Electronic Reference to Cha	oter 4: <a 70%"="" <b="" href="http://http://http.</td><td>://mutcd.fhwa.d</td><td>ot.gov/pdfs/2009r1r2/part</td><td>4.pdf</td><td></td></tr><tr><td>olume Level Criteria</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1. Is the posted speed or 85th-p</td><td>ercentile of majo</td><td>r street > 40 mp</td><td>h (70 km/h)?</td><td>☐ Yes ✓ No</td><td></td></tr><tr><td>2. Is the intersection in a built-up</td><td>area of an isola</td><td>ted community</td><td>with a population < 10.00</td><td>00?</td><td></td></tr><tr><td></td><td></td><td>-</td><td></td><td></td><td>101</td></tr><tr><td>" level="" volume="">may be used	if Question 1 or	2 above is ansi	wered "Yes"	70% 🗸 100	1%
VARRANT 3 - PEAK HOUR						
If all three criteria are fulfilled or	the plotted point	lies above the a	appropriate line.	Applicable: Yes No		
then the warrant is satisfied.			,	Satisfied: Yes Vo No		
Unusual condition justifying use of		Plot volum	e combination on the applic	able figure below.		
warrant:		FIGUE	RE 4C-3: Criteria for "1	00%" Volume Level		
	600					
Record hour when criteria are fulfilled	₹ 500		2 OR MORE LANES & 2	2 OR MORE LANES		
and the corresponding delay or volume	>					
in boxes provided.	H 400				4	
Peak Hour 100% Volume	MINOR STREET MINOR STREET 300 500 700 700 700 700 700 700 700 700 7		20	R MORE LANES & 1 LANE		
	S A 300					
Time Major Vol. Minor Vol.	L CE			1 LANE & 1 LANE		
PM 1097 69				*	*15	
Peak Hour 70% Volume	≌ 100				*10	
Time Major Vol. Minor Vol.						
,	0 4	00 500 600 70	0 800 900 1000 1100 12	00 1300 1400 1500 1600 1700	 1800	
		MAJOR	STREET - TOTAL OF BOTH APPR	OACHES - VPH		
Criteria	* Note: 150 vp	h applies as the lower	threshold volume for a minor stree	t approach with two or more lanes and		
1. Delay on Minor Approach	100 vp	h applies as the lower	threshold volume threshold for a n	ninor street approach with one lane.		
*(vehicle-hours)						
pproach Lanes 1 2 elay Criteria* 4.0 5.0			E 4C-4: Criteria for "70 s than 10 000 population or above	%" Volume Level 70 km/hr (40 mph) on Major Street)		
elay Criteria* 4.0 5.0 elay*	500 _	(Community Eco	o than 10,000 population of above	To latiful (40 mph) on Major Guosty	_	
			O OD MODEL AND	S & 2 OR MORE LANES		
ulfilled?: Yes 🛂 No	품 400		2 OR MORE LANE.	S& 2 OR MORE LANES		
2. Volume on Minor Approach	Ę		2 OR MORE LAI	NES 2 1 I ANIE		
One-Direction *(vehicles per hour)	PROA 300 -		2 ON WORE LA	THE STATE OF THE S	╛	
pproach Lanes 1 2	RST					
olume Criteria* 100 150	NINO LUME			1 LANE & 1 LANE		
olume*	MINOR STREET HIGH VOLUME APPROACH - VPH			K	7	
ulfilled?:						
3. Total Intersection Entering	100				*10 *75	
Volume *(vehicles per hour)					"	
	I .					
o. of Approaches 3 4	300	400 500	600 700 800 9	900 1000 1100 1200	1300	

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 22, 2020 District: Major Street: Major Approach Speed: Lanes: 25 16th St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time AM 876 583 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Fulfilled?: Yes ✓ No 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour)

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

600

0

300

4

800

650

✓ No

Yes

No. of Approaches

Volume Criteria*

Volume*

Fulfilled?:

1300

City: Line	coln Engineer: John P Diediker
County:	Date: January 22, 2020
District:	Date. Outland 122, 2020
Maion Chroat	A St Lanes: 2 Major Approach Speed:
Major Street:	
Minor Street:	16th St Lanes: 3 Minor Approach Speed:
UTCD Electronic Reference to Chap	oter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
olume Level Criteria	
1. Is the posted speed or 85th-p	ercentile of major street > 40 mph (70 km/h)?
2 Is the intersection in a built-ur	o area of an isolated community with a population < 10,000?
"70%" volume level may be used	d if Question 1 or 2 above is answered "Yes" □ 70% □ 100%
/ARRANT 3 - PEAK HOUR	
_	the plotted point lies above the appropriate line, Applicable: Yes No
then the warrant is satisfied.	Satisfied: Ves No
Unusual condition justifying use of	Plot volume combination on the applicable figure below.
warrant:	FIGURE 4C-3: Criteria for "100%" Volume Level
	600 FIGURE 4C-3: Criteria for 100% Volume Level
	2 OR MORE LANES & 2 OR MORE LANES
Record hour when criteria are fulfilled	## 500 WIND A VOID A V
nd the corresponding delay or volume in boxes provided.	H 400
III boxes provided.	2 OR MORE LANES & 1 LANE
Peak Hour 100% Volume	# S & S & S & S & S & S & S & S & S & S
Time Major Vol. Minor Vol.	1 LANE & 1 LANE
PM 911 458	
	₩ ± 100
Peak Hour 70% Volume	2 100
Time Major Vol. Minor Vol.	
	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800
Criteria	MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH
1. Delay on Minor Approach	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.
*(vehicle-hours)	
oproach Lanes 1 2	FIGURE 4C-4: Criteria for "70%" Volume Level
elay Criteria* 4.0 5.0	(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
elay*	500
ılfilled?:	₹ 2 OR MORE LANES & 2 OR MORE LANES
O Valuma an Minara Annuara la	400
2. Volume on Minor Approach One-Direction *(vehicles per hour)	2 OR MORE LANES & 1 LANE
oproach Lanes 1 2	Keg 300
olume Criteria* 100 150	MES 1 LANE & 1 LANE
olume*	No of the state of
ulfilled?: Yes ✓ No	2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
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3. Total Intersection Entering	
Valuma */vahialaa nar haur)	
Volume *(vehicles per hour)	
b. of Approaches 3 4 blume Criteria* 650 800	300 400 500 600 700 800 900 1000 1100 1200 1300

TI	RAFFIC SIGN	AL WARRAN	IT SUMMAR	Υ
City:	_incoln		Engineer:	John P Diediker
County:			Date:	January 22, 2020
District:				
Major Street:	South St		Lanes: 2	Major Approach Speed: 2
Minor Street:	16th St		Lanes: 2	Minor Approach Speed: 2
Million October	10 0.			Miller 7 Approach opeou.
MUTCD Electronic Reference to C	hapter 4: <u>http:</u>	//mutcd.fhwa.dot.gov/	/pdfs/2009r1r2/part	<u>4.pdf</u>
/olume Level Criteria				
1. Is the posted speed or 85	h-percentile of major	street > 40 mph (70 l	km/h)?	Yes V No
2. Is the intersection in a bui	t-up area of an isolate	ed community with a	population < 10,00	00?
"70%" volume level may be u	sed if Question 1 or	2 above is answered	"Yes"	70% 🗸 100%
•				
WARRANT 3 - PEAK HOUR				
If all three criteria are fulfilled	or the plotted point	lies above the approp	oriate line, A	Applicable: Yes No
then the warrant is satisfied.				Satisfied: Yes No
Unusual condition justifying use of		Plot volume comb	oination on the applic	able figure below.
warrant:	600 г	FIGURE 4C	-3: Criteria for "1	00%" Volume Level
Record hour when criteria are fulfille	d		2 OR MORE LANES &	2 OR MORE LANES
and the corresponding delay or volur	ne		\searrow	
in boxes provided.	OAC COAC			R MORE LANES & 1 LANE
Peak Hour 100% Volume	MINOR STREET OI.		20	R MORE LAINES & I LAINE
Time Major Vol. Minor \	ol.		4 M	1 LANE & 1 LANE
AM 1889 164	∑ 200 -			*150
	=			*10
Peak Hour 70% Volume				
Time Major Vol. Minor \	— 0 L			
	40		900 1000 1100 12 F - TOTAL OF BOTH APPR	
Criteria	* Note: 150 yph			t approach with two or more lanes and
1. Delay on Minor Approach		• •		ninor street approach with one lane.
*(vehicle-hours)				
pproach Lanes 1	— II			%" Volume Level
Pelay Criteria* 4.0 5	500	(Community Less than 10	0,000 population or above	70 km/hr (40 mph) on Major Street)
Jelay*				
ulfilled?: Yes V No	<u> </u>		2 OR MORE LANE	S & 2 OR MORE LANES
2. Volume on Minor Approach	MINOR STREET 00 300 700 700 700 700 700 700 700 700		2 OR MORE LAI	NES & 1 LANE
One-Direction *(vehicles per hou	MA 300		2 ON WORE LA	NEO G. I EMNE
pproach Lanes 1 2	E APF	+	\times	
olume Criteria* 100 15	O NIW 200	\bot		1 LANE & 1 LANE
olume* ulfilled?: Yes ✓ No	9 ²⁰⁰			\leftarrow
unified!. Tes V NO	100 E		***	*10
3. Total Intersection Entering	100			*75
Volume *(vehicles per hour)				
lo. of Approaches 3	— 3 00	400 500 600		900 1000 1100 1200 1300
'olume Criteria* 650 80			TOTAL OF BOTH APPROA	
olume*				t approach with two or more lanes and nor street approach with one lane.

	TRAFFIC	C SIGNAL WA	RRANT SUMMAR	2Y	10/1
City: County: District:	Lincoln		Engineer: Date:	John P Diediker January 22, 2020	
Major Street: Minor Street:		outh St 6th St	Lanes: 2 Lanes: 2	Major Approach Speed: Minor Approach Speed:	25 25
MUTCD Electronic Refe	erence to Chapter 4:	http://mutcd.fhw	va.dot.gov/pdfs/2009r1r2/part	4.pdf	
2. Is the intersection "70%" volume leve	on in a built-up area o	le of major street > 40 of an isolated commur estion 1 or 2 above is	nity with a population < 10,00	Yes ✓ No Yes ✓ No 70% ✓ 100	%
then the warrant is Unusual condition justi warrant: Record hour when criteri and the corresponding de	are fulfilled or the place satisfied. fying use of a are fulfilled blay or volume	600 FIG	the appropriate line, Application on the application of the applicati	100%" Volume Level	
Peak Hour 100% Time Major Vo PM 1900 Peak Hour 70% V Time Major Vo	Volume ol. Minor Vol. 428 Volume ol. Minor Vol.	MINOR STREET HIGH VOLUME APPROACH - VPH 100 70 70 70 70 70 70 70 70 70 70 70 70 7			*150 *100
Approach Lanes Delay Criteria* Delay* Fulfilled?: Criteria *(vehicle-hou	Approach rs) 1 2 4.0 5.0	FIG (Communit	lower threshold volume for a minor stree lower threshold volume threshold for a n GURE 4C-4: Criteria for "70 y Less than 10,000 population or above	ninor street approach with one lane. %" Volume Level	
2. Volume on Minor One-Direction *(vehicle Approach Lanes Volume Criteria* Volume* Fulfilled?: Ye		MINOR STREET HIGH VOLUME APPROACH - VPH 200 200 200 200 200 200 200 200 200 20	2 OR MORE LAI	NES & 1 LANE 1 LANE & 1 LANE	*100
3. Total Intersection Volume *(vehicles p No. of Approaches Volume Criteria* Volume* Fulfilled?:	3 4 650 800	300 400 MA Note: 100 vph applies as the	500 600 700 800 9 JOR STREET - TOTAL OF BOTH APPROA lower threshold volume for a minor stree ower threshold volume threshold for a minor	CHES - VPH et approach with two or more lanes and	*75 1300

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 N 17th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled or the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Plot volume combination on the applicable figure below. Unusual condition justifying use of warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume					
Time	Major Vol.	Minor Vol.			
AM	621	738			

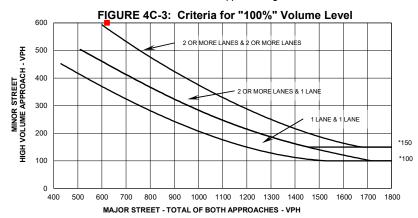
Peak Hour 70% Volume						
Time	Major Vol.	Minor Vol.				

Criteria

	_				
1. Delay on Minor Approach					
*(vehicle-ho	urs)				
Approach Lanes	1	2			
Delay Criteria*	4.0	5.0			
Delay*					
Fulfilled?:	∕es ✓	No			

2. Volume on Minor Approach				
One-Direction *(vehicles per hour)				
Approach Lanes	1	2		
Volume Criteria*	100	150		
Volume*				
Fulfilled?:	∕es ✓	No		

Total Intersection Entering Volume *(vehicles per hour)				
No. of Approaches	6	3	4	
Volume Criteria*		650	800	
Volume*				
Fulfilled?:	\	′es 🔽	No	



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

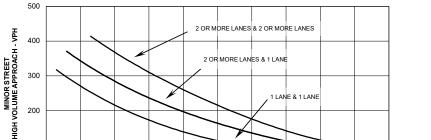


FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)

300 400 500 600 700 800 900 1000 1100 1200 1300

MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

100

0

*100

*75

•	TRAFFIC SIGNA	AL WARRANT S	UMMAR	Y	10/1
City: County: District:	Lincoln	E	ngineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:	Q St N 17th St	La	nes: 4	Major Approach Speed Minor Approach Speed	
MUTCD Electronic Reference to	Chapter 4: http://	mutcd.fhwa.dot.gov/pdfs/	2009r1r2/part4	<u>.pdf</u>	
1. Is the posted speed or 8 2. Is the intersection in a b "70%" volume level may be	ouilt-up area of an isolate	d community with a popu	lation < 10,000	Yes ✓ N Yes ✓ N 70% ✓ 10	0
WARRANT 3 - PEAK HOU If all three criteria are fulfill then the warrant is satisfied Unusual condition justifying use	ed <u>or</u> the plotted point li d.	es above the appropriate Plot volume combinatio	iiiie,	plicable:	
warrant:	600 —	FIGURE 4C-3: C	riteria for "10	0%" Volume Level	
PM 597 5 Peak Hour 70% Volume	Wote: 150 vph a		1000 1100 1200 AL OF BOTH APPRO e for a minor street a	MORE LANES & 1 LANE 1 LANE & 1 LANE 1 1300 1400 1500 1600 1700 ACHES - VPH approach with two or more lanes an	
Approach Lanes 1 Delay Criteria* 4.0 Delay*	5.0	FIGURE 4C-4: Cri (Community Less than 10,000 pc		b" Volume Level 0 km/hr (40 mph) on Major Street)	
3. Total Intersection Enterin Volume *(vehicles per hour	# HOW WINDS STREET 150 150 100 100 100 100 100 10		2 OR MORE LANES (2 OR MORE LANE	3 2 OR MORE LANES S & 1 LANE 1 LANE & 1 LANE	*100
No. of Approaches 3 Volume Criteria* 650	4 800	400 500 600 70			1300
Volume*	* Note: 100 vph a	MAJOR STREET - TOTAL applies as the lower threshold volume applies as the lower threshold volume	e for a minor street a	approach with two or more lanes ar	nd

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: N 17th St Major Approach Speed: Lanes: 25 P St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time AM 919 190 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Yes 🗸 No Fulfilled?: 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100

MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

600

0

300

3. Total Intersection Entering

Volume *(vehicles per hour)

4

650

Yes

No. of Approaches

Volume Criteria*

Volume*

Fulfilled?:

*75

1300

TRA	AFFIC SIGNAL WARRA	NT SUMMAR	Y	10/1
City: Lin County: District:	coln	Engineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:	N 17th St P st	Lanes: 3 Lanes: 3	Major Approach Speed:	25 25
2. Is the intersection in a built-up	pter 4: http://mutcd.fhwa.dot.go percentile of major street > 40 mph (70 p area of an isolated community with a d if Question 1 or 2 above is answered) km/h)? a population < 10,00	Yes Vo	3
then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 741 642 Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria	FIGURE 4 600 FIGURE 4 500 Hdv + Nov 21 Ke El Hdv + Nov 200 400 500 600 700 80 MAJOR STREE * Note: 150 vph applies as the lower thresh	2 OR MORE LANES & 2 2 OR MORE LANES & 2	OO%" Volume Level OOR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE 10 1300 1400 1500 1600 1700 18 OOACHES - VPH tt approach with two or more lanes and	*150 *100
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes ✓ No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800	MINOR STREET MINOR STREET MINOR STREET MINOR STREET 100 0 300 400 500 60	2 OR MORE LANES 2 OR MORE LANES 2 OR MORE LANES 10 700 800 9	%" Volume Level 70 km/hr (40 mph) on Major Street) S& 2 OR MORE LANES LANE 1 LANE & 1 LANE	*100 *75

MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1/2/parl4.pdf MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1/2/parl4.pdf 1. Is the posted speed or 85th-percentille of major street > 40 mph (70 km/h)?	TF	RAFFIC SIGN	AL WARRANT SUM	MARY		.,
Major Street: 17th St Lanes: 2 Major Approach Speed: 2 Minor Street: 17th St Lanes: 3 Minor Approach Speed: 2 Minor Street: 17th St Lanes: 3 Minor Approach Speed: 2 Minor Street: 17th St Lanes: 3 Minor Approach Speed: 2 Mi	-	Lincoln	_			
MUTCD Electronic Reference to Chapter 4: http://mutcd.flwwa.dol.gov/pdfs/2009/112/part4.pdf Volume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes" WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate line, then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Record hour when criteria are fulfilled and the corresponding delay or volume. Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 170% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 170% Volume Time Major Vol. Minor Vol. Approach Lanes 1 2 2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Major Street:					25 25
Volume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes" 70% Volume level may be used if Question 1 or 2 above is answered "Yes" 70% Volume level may be used if Question 1 or 2 above is answered "Yes" 70% Volume life in the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. 1. Delay on Minor Approach "vehicle-hours) Approach Lanes 1 2 0 whapples as the News threshold volume for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume threshold for a minor street approach with no or more lanes and 100 yeh apples as the News threshold volume for a minor street approach with the or more lanes and 100 yeh apples as the News threshold volume for a minor street approach with the or more lan	-				or Approach Speed	25
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes" 70% 70% 70% 70% 70% 70% 70% 70% 70% 70%		<u> </u>	midco.mwa.dot.gov/pdi3/2003/	112/part4.par		
2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes" "70% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" "70% "7	<u> </u>	h-percentile of major:	street > 40 mph (70 km/h)?		☐ Yes ✓ No	
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate line, Satisfied: Ves No Satisfied: Ve		-		< 10,000?	Yes Vo	
If all three criteria are fulfilled or the plotted point lies above the appropriate line, Applicable: Satisfied: Yes No Satisfied: Yes No No Warrant: Satisfied: Yes No No No No Warrant: Satisfied: Yes No No No No Warrant: Satisfied: Yes No					70% 🗾 100%	Ó
then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. Minor Approach (vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Puffilled?: Yes No 3. Total Intersection Entering Volume* Yes No No. of Approaches 3 4 400 Volume* No. of Approaches 5 3 4 400 Volume* No. of Approaches 650 800 Volume* No. of Approaches 3 4 400 Volume* No. of Approaches 3 4 400 Volume* No. of Approaches 650 800 Volume* No. of Approaches 650 800 Volume* No. of Approaches 700	WARRANT 3 - PEAK HOUR					
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Approach "Vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay' Fulfilled?: Yes No 2. Volume on Minor Approach One-Direction "(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 3. Total Intersection Entering Volume "Vehicles per hour) No. of Approaches 3 4 40 Volume Criteria* 650 800 Volume Criteria* 650 800 Note: 100 vph applies as the lower threshold volume for a minor street approach with one lane. **Note: 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. **Intelled?: Yes No 3. Total Intersection Entering Volume (Vehicles per hour) Note: 100 vph applies as the lower threshold volume for a minor street approach with one lane. **Note: 100 vph applies as the lower threshold volume for a minor street approach with one lane. **Intelled?: Yes No 3. Total Intersection Entering Volume (Vehicles per hour) No. of Approaches 3 4 40 Volume Criteria* 650 800 **Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes and note of the period volume for a minor street approach with two or more lanes		or the plotted point l	ies above the appropriate line,		·	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. Approach Lanes 1 2 2 Delay Criteria* 4.0 5.0 Delay Criteria* 100 vph applies as the lower threshold volume for a minor street approach with one lane. FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-3: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-4: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-4: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-4: Criteria 107 Violume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-4:			Plot volume combination on the	ne applicable figui	e below.	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1590 1304 *Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as th	warrant:	600 —	FIGURE 4C-3: Criteri	a for "100%" V	olume Level	1
Time Major Vol. Minor Vol. Major Vol. Minor Vol.			2 OR MOF	RE LANES & 2 OR MORE LA	ANES	
Time Major Vol. Minor Vol. Major Vol. Minor Vol.		d H 500				
Time Major Vol. Minor Vol. Major Vol. Minor Vol.		AGCH 400				
Time Major Vol. Minor Vol. Major Vol. Minor Vol.	Peak Hour 100% Volume	SIR 300		2 OR MORE LANI	ES & 1 LANE	
Time Major Vol. Minor Vol. Major Vol. Minor Vol.		OI.			1 LANE & 1 LANE	
Time Major Vol. Minor Vol. Major Vol. Minor Vol.	AM 1590 1304					*15
Time Major Vol. Minor Vol. Major Vol. Minor Vol.	D1-11700/ V-1	■ 100 ■				*10
Criteria 1. Delay on Minor Approach						
*Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *Note: 150 vph applies as the lower threshold volume for a minor street approach with one lane. *FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 200 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 300 vph applies as the lower threshold volume for a minor street approach with two or mor	Time Major Vol. Milnor V	— 0 ^L	500 600 700 800 900 1000	1100 1200 1300	1400 1500 1600 1700 18	BOO.
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes						500
(vehicle-hours) Approach Lanes 1 2 Delay Criteria 4.0 5.0 Delay* Fulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 yph applies as the lower threshold volume for a minor street approach with two or more lanes and			• •			
Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	-	100 vph a	applies as the lower threshold volume thresh	nold for a minor street	approach with one lane.	
Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes V No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes V No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	` , , ,		FIGURE 4C-4: Critoria	for "70%" Volu	ıme l evel	
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 /olume Criteria* 100 150 /olume* 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 /olume Criteria* 650 800 /olume *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	Delay Criteria* 4.0 5.					
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 //olume Criteria* 100 150 //olume* 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 //olume Criteria* 650 800 //olume* * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	Delay*	500				
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 /olume Criteria* 650 800 /olume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	Fulfilled?: Yes Vo		2 OR	MORE LANES & 2 OR MOR	RE LANES	
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 /olume Criteria* 650 800 /olume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	2. Volume on Minor Approach	- 400 - 400				
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	One-Direction *(vehicles per hour	ROAC SOCI		OR MORE LANES & 1 LANE		
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 /olume Criteria* 650 800 /olume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	**	APP 300				
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and		OU WIND 300		1 LAN	E & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and		9 200 E		\downarrow		
3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* *Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and *To uph applies as the lower threshold volume for a minor street approach with two or more lanes and	163 10					*10
300 400 500 600 700 800 900 1000 1100 1200 1300	_	100				*75
Volume Criteria* 650 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and	No. of Approaches 3 4		400 500 600 700	800 900 10	00 1100 1200 130	00
75 yes applied as the lawer throughold for a miner street approach with any long	Columb Colitoria					
	– –					

	TRAF	FIC SIGNA	AL WARRAN	NT SUMMAR	Υ	10/1
City: County: District:	Linco	ln		Engineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:		O St 17th St		Lanes: 2 Lanes: 3	Major Approach Spe Minor Approach Spe	
MUTCD Electronic	Reference to Chapte	er 4: <u>http://</u>	mutcd.fhwa.dot.gov	//pdfs/2009r1r2/part	4.pdf	
Volume Level Crit	eria ed speed or 85th-per	centile of major s	treet > 40 mph (70	km/h)?	☐ Yes ✓	No
2. Is the inters	section in a built-up a	area of an isolate	d community with a	population < 10,00	0?	No
"70%" volume	level may be used if	f Question 1 or 2	above is answered	l "Yes"	□ 70% ☑	100%
then the warra	eria are fulfilled <u>or</u> than tis satisfied.	he plotted point lie		priate iirie,	pplicable: Yes Satisfied: Yes Yes Satisfied: Yes Satisfied: Yes Satisfied: Yes Satisfied: Yes Satisfied: Yes Satisfied: Yes Yes Satisfied: Y	No No
Unusual condition warra				• •	J	
		600	FIGURE 40	-3: Criteria for 1	00%" Volume Level	-
Record hour when of and the corresponding in boxes p	ng delay or volume provided.	MINOR STREET HIGH VOLUME APPROACH - VPH 100 100 100 100 100 100 100 1		2 OR MORE LANES & 2	OR MORE LANES	
Peak Hour 10		R A 300 —				
	jor Vol. Minor Vol.	DI COO			1 LANE & 1 LANE	
FIVI	1700 1173	> ±				*150
Peak Hour 7	0% Volume	± 100 —				*100
Time Maj	jor Vol. Minor Vol.	0 400	500 600 700 800	0 900 1000 1100 120	00 1300 1400 1500 1600 1	700 1800
	***			ET - TOTAL OF BOTH APPRO		
1. Delay on Mi *(vehicle					approach with two or more lanes inor street approach with one land	
Approach Lanes Delay Criteria*	1 2 4.0 5.0			-4: Criteria for "70° 10,000 population or above	%" Volume Level 70 km/hr (40 mph) on Major Stre	eet)
Delay*		500				
-ulfilled?:	Yes V No	H 400		2 OR MORE LANES	& 2 OR MORE LANES	
2. Volume on M	linor Approach	400				
One-Direction *(ve	ehicles per hour)	REET 300		2 OR MORE LAN	ES & 1 LANE	
Approach Lanes	1 2	APPE 300		$\overline{}$		
Volume Criteria*	100 150	LUME COS			1 LANE & 1 LANE	
Volume* Fulfilled?:	Yes ✓ No	MINOR STREET MICH VOLUME APPROACH - VPH 700 700 700 700 700 700 700 700 700 7				
-umileu (.	Yes ✓ No			***		*100
3. Total Interse Volume *(vehic	cles per hour)	100				*75
No. of Approaches Volume Criteria*	3 4 650 800	300	400 500 600		00 1000 1100 1200	1300
Volume*	000 000	* Note: 100 vph a		- TOTAL OF BOTH APPROAG old volume for a minor street	CHES - VPH t approach with two or more lanes	s and
Fulfilled?:	Yes ✓ No				nor street approach with one lane.	

City: Lir	coln	Engineer:	John P Diediker
County:		Date:	January 17, 2020
District:			Junuary 17, 2020
Major Street:	L St	Lanes: 4	Major Approach Speed: 2
Minor Street:	17th St	Lanes: 4	Minor Approach Speed: 2
MUTCD Electronic Reference to Cha	pter 4: http://	mutcd.fhwa.dot.gov/pdfs/2009r1r2/pa	art4.pdf
olume Level Criteria			
1. Is the posted speed or 85th-	percentile of major s	street > 40 mph (70 km/h)?	Yes V No
2. Is the intersection in a built-u	p area of an isolate	d community with a population < 10,0	000?
#700/# l l l l		- h i	700/ 1000/
"70%" volume level may be use	d if Question 1 or 2	above is answered "Yes"	70% 🗸 100%
VARRANT 3 - PEAK HOUR			
If all three criteria are fulfilled o	r the plotted point li	es above the appropriate line	Applicable: Yes No
then the warrant is satisfied.	_ the plotted point if	es above the appropriate inte,	Satisfied:
Unusual condition justifying use of		Plot volume combination on the appl	
warrant:		FIGURE 4C-3: Criteria for '	_
	600	rigore 40-3. Criteria for	100 /0 VOIGINE LEVEI
		2 OR MORE LANES	& 2 OR MORE LANES
Record hour when criteria are fulfilled	MINOR STREET MINOR STREET 000 - 00		
and the corresponding delay or volume in boxes provided.	- HO 400		
III BOXES PIOVIGEG.	ROA SEE		2 OR MORE LANES & 1 LANE
Peak Hour 100% Volume	AP 300		
Time Major Vol. Minor Vol.	N N N N N N N N N N N N N N N N N N N		1 LANE & 1 LANE
AM 2021 1291	■ ਰ 200 ⊢		*15
	= 1		*10
Peak Hour 70% Volume			
Time Major Vol. Minor Vol.			
	400	500 600 700 800 900 1000 1100	
Criteria	* Note: 450 cmb	MAJOR STREET - TOTAL OF BOTH APP	
Delay on Minor Approach	- 7	applies as the lower threshold volume for a minor str applies as the lower threshold volume threshold for a	
*(vehicle-hours)	,	•	.,
pproach Lanes 1 2	1	FIGURE 4C-4: Criteria for "7	'0%" Volume Level
elay Criteria* 4.0 5.0	1	(Community Less than 10,000 population or above	
elay*	500		
ulfilled?: Yes V No] _*	2 OR MORE LAI	NES & 2 OR MORE LANES
2. Volume on Minor Annuach	1		
2. Volume on Minor Approach One-Direction *(vehicles per hour)	DAC!	2 OR MORE	LANES & 1 LANE
pproach Lanes 1 2	R 200		
olume Criteria* 100 150	MINOR STREET MIGH VOLUME APPROACH - VPH MGH VOLUME APPROACH - VPH		1 LANE & 1 LANE
olume*	9 200 E		
ulfilled?: Yes ✓ No) H H H		
	<u>₩</u> ¥ 100 = 100		*10
3. Total Intersection Entering			*75
Volume *(vehicles per hour)			
o. of Approaches 3 4	0 -	400 500 600 700 000	000 4000 4400 4000 4000
Volume Criteria* 650 800	300	400 500 600 700 800	900 1000 1100 1200 1300

TRAF	FIC SIGNA	AL WARRA	NT SUMMAR	Y	10/15
City: Linco County: District:	ln		Engineer: Date:	John P Diediker January 17, 2020	
Major Street: Minor Street:	L St 17th St		Lanes: 4 Lanes: 4	Major Approach Speed: Minor Approach Speed:	
MUTCD Electronic Reference to Chapte	r 4: <u>http://r</u>	mutcd.fhwa.dot.go	ov/pdfs/2009r1r2/part	<u>4.pdf</u>	
1. Is the posted speed or 85th-per 2. Is the intersection in a built-up a "70%" volume level may be used if	rea of an isolated	d community with	a population < 10,00	Yes ✓ No Yes ✓ No 70% ✓ 100	
WARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the then the warrant is satisfied. Unusual condition justifying use of warrant:	e plotted point lie	Plot volume co.	mbination on the applic	3	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 1155 915 Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria		500 600 700 8 MAJOR STRI poplies as the lower thres	2 OR MORE LANES & 2 2 OR MORE	DO 1300 1400 1500 1600 1700 OACHES - VPH tt approach with two or more lanes and	*150 *100
1. Delay on Minor Approach *(vehicle-hours) Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4	MINOR STREET MINOR STREET MONDLUME APPROACH - VPH 200 200 200 200 200 200 200 2	FIGURE 40 (Community Less than	2-4: Criteria for "70 n 10,000 population or above 2 OR MORE LANE:	70 km/hr (40 mph) on Major Street) S & 2 OR MORE LANES NES & 1 LANE 1 LANE & 1 LANE	*100 *75
Volume Criteria* 650 800 Volume* Fulfilled?: Yes ✓ No		oplies as the lower thres		CHES - VPH t approach with two or more lanes and nor street approach with one lane.	,

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: Major Approach Speed: Lanes: 25 17th St Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled or the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Plot volume combination on the applicable figure below. Unusual condition justifying use of warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Peak Hour 100% Volume				
Time	Major Vol.	Minor Vol.		
AM	1534	1098		

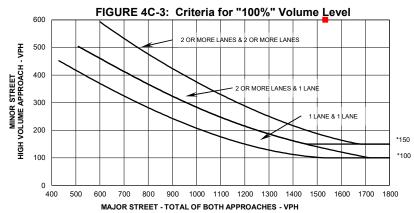
Peak Hour 70% Volume				
Time	Major Vol.	Minor Vol.		

Criteria

1. Delay on Minor Approach				
*(vehicle-hours)				
Approach Lanes	1	2		
Delay Criteria*	4.0	5.0		
Delay*				
Fulfilled?: Yes Vo				

2. Volume on Minor Approach				
One-Direction *(vehic	ies per	nour)		
Approach Lanes	1	2		
Volume Criteria*	100	150		
Volume*				
Fulfilled?:	∕es ✓	No		

3. Total Intersection Entering				
Volume *(vehicles	per nou	ır)		
No. of Approaches	3	4		
Volume Criteria*	650	800		
Volume*				
Fulfilled?:	∕es 🔽	No		



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level

(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

City: Lincoln	Engineer:	John P Diediker	
County:	Date:	January 17, 2020	
District:			
Major Street: K St	Lanes: 3	Major Approach Speed:	2
Minor Street: 17th St	Lanes: 4	Minor Approach Speed:	
		_	
MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.do	ot.gov/pdfs/2009r1r2/part	<u>4.pdf</u>	
/olume Level Criteria			
 Is the posted speed or 85th-percentile of major street > 40 mpł 	h (70 km/h)?	Yes ✓ No	
2. Is the intersection in a built-up area of an isolated community w	vith a population < 10,00	00?	
"70%" volume level may be used if Question 1 or 2 above is answ	vered "Yes"	70% 🗸 100%	6
1070 Volume level may be used in Question 1 of 2 above to another		7070 - 10070	Ū
WARRANT 3 - PEAK HOUR			
	Δ	Applicable: Yes No	
If all three criteria are fulfilled <u>or</u> the plotted point lies above the a then the warrant is satisfied.	appropriate line,	Satisfied: Yes No	
	e combination on the applic	Cationed.	
······································	• •	•	
FIGUR	RE 4C-3: Criteria for "1	100%" Volume Level	•
	2 OR MORE LANES &	2 OR MORE LANES	
Record hour when criteria are fulfilled \$\frac{1}{2}\$ 500			1
and the corresponding delay or volume in boxes provided.			
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 2269 671 Pools Hour 70% Volume	20	R MORE LANES & 1 LANE	
Peak Hour 100% Volume			-
Time Major Vol. Minor Vol.		1 LANE & 1 LANE	
PM 2269 671			*15
Poak Hour 70% Volume			*10
Peak Hour 70% Volume			
Time Major Vol. Minor Vol.]
400 500 600 700 MAJOR	0 800 900 1000 1100 12 STREET - TOTAL OF BOTH APPR		800
- · ·		et approach with two or more lanes and	
		ninor street approach with one lane.	
*(vehicle-hours)			
Approach Lanes 1 2 FIGURE	E 4C-4: Criteria for "70	%" Volume Level	
500	s than 10,000 population or above	70 km/hr (40 mph) on Major Street)	
Delay*			
fulfilled?: Yes V No	2 OR MORE LANE	S & 2 OR MORE LANES	
2. Volume on Minor Approach			
One-Direction *(vehicles per hour)	2 OR MORE LA	NES & 1 LANE	
pproach Lanes 1 2 Fig. 300			
/olume Criteria* 100 150		1 LANE & 1 LANE	
/olume*		\checkmark	
2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Sulfilled?: Yes V No			
	 		*10
3. Total Intersection Entering Volume *(vehicles per hour)			*75
lo. of Approaches 3 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	600 700 800	900 1000 1100 1200 13	800

City: Lin	coln		Engineer:	John P Diediker	
County:	COIII	_	Date:	January 17, 2020	
District:				bulldury 17, 2020	
Major Street:	17th St		Lanes: 4	Major Approach Speed:	2
Minor Street:	G St		Lanes: 1	Minor Approach Speed:	2
	nton 4. http	.//www.stand.flavora.ed.at.eu		-	
//UTCD Electronic Reference to Cha	pter 4. <u>mu</u> p	.//mutcd.mwa.dot.go	ov/pdfs/2009r1r2/part	<u>.4.pui</u>	
/olume Level Criteria					
1. Is the posted speed or 85th-	_		•	Yes _✓ No	
Is the intersection in a built-u	p area of an isola	ted community with	a population < 10,00	00?	
"70%" volume level may be use	d if Question 1 or	2 above is answere	ed "Yes"	☐ 70% ✓ 100°	%
VARRANT 3 - PEAK HOUR					
If all three criteria are fulfilled on	r the plotted point	lies above the anni	ropriate line	Applicable: Yes No	
then the warrant is satisfied.	_ the pletted point	ned above the appr	opriate inte,	Satisfied: Yes Vo	
Unusual condition justifying use of		Plot volume co	ombination on the applic	able figure below.	
warrant:		FIGURE 4	4C-3: Criteria for "1	100%" Volume Level	
	600				
Record hour when criteria are fulfilled	₹ 500		2 OR MORE LANES &	2 OR MORE LANES	
and the corresponding delay or volume	, F				
in boxes provided.	OPC 400				+
Peak Hour 100% Volume	MINOR STREET MINOR STREET 700 700 700 700 700 700 700 700 700 70		20	R MORE LANES & 1 LANE	
Time Major Vol. Minor Vol.	ME AF 300			1 LANE & 1 LANE	
AM 792 213	₩ 200 200				_
	1 3				*150
Peak Hour 70% Volume	≡ 100				*10
Time Major Vol. Minor Vol.					
			800 900 1000 1100 12		1800
Cuitouio	_		EET - TOTAL OF BOTH APPR		
Criteria 1. Delay on Minor Approach	a '			et approach with two or more lanes and ninor street approach with one lane.	
*(vehicle-hours)					
approach Lanes 1 2	1	FIGURE 40	C-4: Criteria for "70	%" Volume Level	
Delay Criteria* 4.0 5.0]			70 km/hr (40 mph) on Major Street)	
Delay*	500				
ulfilled?: Yes V No	<u> </u>		2 OR MORE LANE	S & 2 OR MORE LANES	
2. Volume on Minor Approach	1 > 400 1 ±				
One-Direction *(vehicles per hour)	REET	$\backslash \backslash \backslash \backslash$	2 OR MORE LA	NES & 1 LANÉ	
pproach Lanes 1 2	APP 300				1
olume Criteria* 100 150	UME			1 LANE & 1 LANE	
′olume*	≥ o 200 -			\swarrow	1
ulfilled?: Yes Vo	MINOR STREET HIGH VOLUME APPROACH - VPH		 		
3. Total Intersection Entering	100				*100 *75
Volume *(vehicles per hour)					/5
	il ₀∟				J
lo. of Approaches 3 4	300	400 500 6	800 700 800	900 1000 1100 1200 1	300

	TRAF	FIC SIGNA	L WARRA	NT SUMMAR	Y	10/1
City: _ County: _ District: _	Lincol	n		Engineer: Date:	John P Diedike January 17, 202	
Major Street: Minor Street:		17th St G St		Lanes: 4 Lanes: 1	Major Approach Sp Minor Approach Sp	
MUTCD Electronic R	Reference to Chapter	4: <u>http://m</u>	utcd.fhwa.dot.gc	ov/pdfs/2009r1r2/part	4.pdf	
2. Is the interse	d speed or 85th-percection in a built-up are	ea of an isolated o	community with	a population < 10,00	0? Yes	/ No / No / 100%
If all three criter then the warran Unusual condition j	ria are fulfilled or the ot is satisfied. ustifying use of	e plotted point lies	Plot volume con	mbination on the applica	pplicable: Yes Satisfied: Yes Able figure below.	No No
_	g delay or volume ovided. 7% Volume r Vol. Minor Vol. 16 166	MINOR STREET 400 400 300 200 100 100 100 100 100 100 100 100 1		2 OR MORE LANES & 2	OR MORE LANES R MORE LANES & 1 LANE 1 LANE & 1 LANE	*150
	r Vol. Minor Vol. eeria or Approach	* Note: 150 vph appl	MAJOR STRE			es and
*(vehicle-identification *(vehicle-identificat	1 2 4.0 5.0 Yes No	500			%" Volume Level 70 km/hr (40 mph) on Major St	reet)
2. Volume on Min One-Direction *(veh Approach Lanes Volume Criteria* Volume* Fulfilled?:	l I	MINOR STREET HIGH VOLUME APPROACH - VPH 700 700 700 700 700 700 700 700 700 7		2 OR MORE LAI	1 LANE & 1 LANE	
3. Total Intersec Volume *(vehicle No. of Approaches Volume Criteria* Volume* Fulfilled?:	- 1		MAJOR STREE	T - TOTAL OF BOTH APPROAC	1000 1000 1100 1200 CHES - VPH t approach with two or more lane nor street approach with one lane	es and

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 22, 2020 District: Major Street: 17th St Major Approach Speed: Lanes: 25 D St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time 200 AM 666 85 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Yes 🗸 No Fulfilled?: 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour)

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

600

0

300

4

800

650

✓ No

Yes

No. of Approaches

Volume Criteria*

Volume*

Fulfilled?:

1300

City ! I im.	Engineer John P. Diediker
-	coln Engineer: John P Diediker
County: District:	Date: January 22, 2020
Major Street:	17th St Lanes: 4 Major Approach Speed:
Minor Street:	D St Lanes: 1 Minor Approach Speed:
UTCD Electronic Reference to Chap	pter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
olume Level Criteria	
	percentile of major street > 40 mph (70 km/h)?
	in in the second of the second
2. Is the intersection in a built-up	p area of an isolated community with a population < 10,000?
"70%" volume level may be used	d if Question 1 or 2 above is answered "Yes"
/ARRANT 3 - PEAK HOUR	
_	the plotted point lies above the appropriate line Applicable:
If all three criteria are fulfilled or then the warrant is satisfied.	the plotted point lies above the appropriate line, Satisfied: Yes V No
	Plot volume combination on the applicable figure below.
Unusual condition justifying use of warrant:	
	FIGURE 4C-3: Criteria for "100%" Volume Level
	2 OR MORE LANES & 2 OR MORE LANES
Record hour when criteria are fulfilled	H 500
and the corresponding delay or volume in boxes provided.	± 400
III boxes provided.	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE
Peak Hour 100% Volume	15 de 300
Time Major Vol. Minor Vol.	1 LANE & 1 LANE
PM 697 77	j 200
	₩ ± 100
Peak Hour 70% Volume	100
Time Major Vol. Minor Vol.	
	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800
Criteria	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and
1. Delay on Minor Approach	100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.
*(vehicle-hours)	
oproach Lanes 1 2	FIGURE 4C-4: Criteria for "70%" Volume Level
elay Criteria* 4.0 5.0	(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
elay*	500
ılfilled?:	2 OR MORE LANES & 2 OR MORE LANES
2 Volume on Minor Approach	\$ 400
2. Volume on Minor Approach One-Direction *(vehicles per hour)	2 OR MORE LANES & 1 LANE
pproach Lanes 1 2	R R G 300
olume Criteria* 100 150	1 LLANE & 1 LANE
olume*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ılfilled?: Yes ✓ No	TI LANE & 1 LANE 2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
	¥ 100
3. Total Intersection Entering	*7
Volume *(vehicles per hour)	II
o. of Approaches 3 4 blume Criteria* 650 800	300 400 500 600 700 800 900 1000 1100 1200 1300

TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 22, 2020 District: Major Street: Major Approach Speed: Lanes: 25 17th St Minor Street: Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes"

WARRANT 3 - PEAK HOUR

If all three criteria are fulfilled or the plotted point lies above the appropriate line, then the warrant is satisfied.

500

✓ Yes No Applicable: ✓ Yes No Satisfied:

Unusual condition justifying use of warrant:

Record hour when criteria are fulfilled and the corresponding delay or volume

Peak Hour 100% Volume				
Time	Major Vol.	Minor Vol.		
AM	723	583		

in boxes provided.

Peak Hour 70% Volume				
Time	Major Vol.	Minor Vol.		

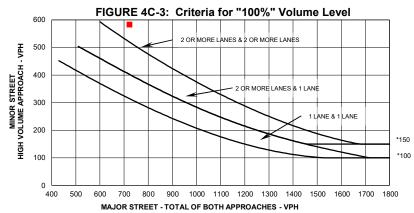
Criteria

Delay on Minor Approach *(vehicle-hours)						
Approach Lanes 1 2						
Delay Criteria*	4.0	5.0				
Delay*						
Fulfilled?: Yes Vo						

2. Volume on Minor Approach								
One-Direction *(vehic	One-Direction *(vehicles per hour)							
Approach Lanes	1	2						
Volume Criteria*	100	150						
Volume*								
Fulfilled?:	∕es ✓	No						

3. Total Intersection Entering							
Volume *(vehicle	Volume *(vehicles per hour)						
No. of Approaches 3 4							
Volume Criteria*	650	800					
Volume*		1					
Fulfilled?:							

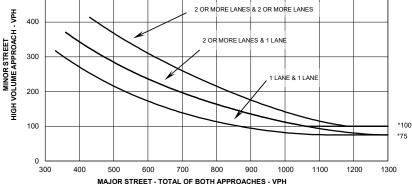
Plot volume combination on the applicable figure below.



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)

2 OR MORE LANES & 2 OR MORE LANES



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

TRAF	FIC SIGNAL WARRANT SUMMARY	10/15
City: Lincol County: District:	Engineer: John P Diediker Date: January 22, 2020	
Major Street: Minor Street:	A St Lanes: 1 Major Approach Speed: 29 17th St Lanes: 3 Minor Approach Speed: 29 A St Lanes: 1 Major Approach Speed: 29 A St Lanes: 1 Major Approach Speed: 29 A St Lanes: 3 Minor Approach Speed: 29 A St Lanes: 1 Major Approach Speed: 29 A St	
2. Is the intersection in a built-up a	tr 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf centile of major street > 40 mph (70 km/h)? Trea of an isolated community with a population < 10,000? Question 1 or 2 above is answered "Yes" Took 100%	
WARRANT 3 - PEAK HOUR	ne plotted point lies above the appropriate line, Plot volume combination on the applicable figure below. FIGURE 4C-3: Criteria for "100%" Volume Level	
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. PM 885 458 Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach	2 OR MORE LANES & 2 OR MORE LANES 1 LANE & 1 LANE 100 400 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.	
Approach Lanes 1 2 Delay Criteria* 4.0 5.0 Delay* Fulfilled?: Yes ✓ No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800 Volume* Fulfilled?: Yes ✓ No	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 1 LANE & 1 LANE * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.	

Form 750-020-01 TRAFFIC ENGINEERING State of Florida Department of Transportation TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 22, 2020 District: Major Street: 17th St Major Approach Speed: Lanes: 25 **Washington St** Minor Street: Lanes: Minor Approach Speed: 25 MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, Yes V No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time AM 1072 126 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Fulfilled?: Yes ✓ No 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour) 0 No. of Approaches 4 300 600 1300

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

650

✓ No

Yes

Volume Criteria*

Volume*

Fulfilled?:

800

City: _ County: _	Linco	oln				Engin D	eer: ate:		ohn P Die nuary 22		
District: _ Major Street:		17th St				_anes:	2	Maio	r Approac	:h Speed	: 2
Minor Street:	,	Washington	St			_anes:		-	r Approac		
- ИUTCD Electronic	Reference to Chapte		tp://mutcd.f	hwa.dot.go	_ ov/pdfs	s/2009	r1r2/par				
/olume Level Crite	<u>eria</u>										
1. Is the poste	ed speed or 85th-per	centile of ma	jor street >	40 mph (7	0 km/l	า)?			Y	es 🔽 No	,
2. Is the inters	section in a built-up a	area of an iso	lated comm	unity with	a pop	ulation	n < 10,0	00?	Y	es 🔽 No	,
"70%" volume	level may be used i	f Question 1	or 2 above i	s answere	ed "Ye	s"			70	0% 🔽 10	0%
7070 Volume	level may be used i	i Question i i	JI Z above	3 answere	- TO					770 [- 10	0 70
VARRANT 3 - P	PEAK HOUR										
If all three crite	eria are fulfilled <u>or</u> ti	he plotted poi	nt lies abov	e the anni	onriati	e line	,	Applicable	:	es 🗌 No	,
then the warra		ie pielieu pei	in nee abov	c the appi	ορπαι	o m.o,		Satisfied	l: Y	es 🔽 No	,
Unusual condition	justifying use of		Plo	volume co	mbinat	ion on t	the applic	cable figure	e below.		
warra	ant:		_	FIGURE 4	IC-3:	Criter	ia for "	100%" Vo	olume Le	evel	
		60	0								
Record hour when o	criteria are fulfilled	₹ 50	0			2 OR MO	ORE LANES &	2 OR MORE LAN	NES		
and the correspondir		- -		\downarrow							
in boxes p	rovided.	OACH	0			$\overline{}$					\dashv
Peak Hour 10	00% Volume	MINOR STREET HIGH VOLUME APPROACH - VPH 70 70 70 70 70 70 70 70 70 70 70 70 70				(4)	20	OR MORE LANES	S & 1 LANE		
	or Vol. Minor Vol.	ME A		`			\downarrow		1 LANE 8	& 1 LANE	
	617 160	■ J 20	0			\rightarrow		\searrow			4
		GH G		•				+1		\rightarrow	*1:
Peak Hour 7	0% Volume	= 10	0								*1
Time Maj	or Vol. Minor Vol.										
					300 90					1600 1700	1800
C.	itorio							ROACHES - V			
1. Delay on Mi	iteria		vph applies as t vph applies as t								1
*(vehicle	· · · II								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
pproach Lanes	1 2		F	IGURE 4	C-4: C	riteria	a for "70)%" Volu	me Leve	I	
elay Criteria*	4.0 5.0			inity Less than							
elay*		500									
ulfilled?:	Yes ✓ No	Ŧ				201	R MORE LANI	ES & 2 OR MORE	ELANES		
2. Volume on M	inor Approach	₹ 400									_
One-Direction *(ve		COAC	l. \			2	OR MORE LA	ANES & 1 LANE			
pproach Lanes	1 2	AT 300									\dashv
olume Criteria*	100 150	INOR				^		1 LANE	& 1 LANE		
'olume*		200 200				+		\checkmark			\dashv
ulfilled?:	Yes ✓ No	MINOR STREET 000 000 000 000 000 000 000 000 000 00				$\downarrow $	*	4			
3. Total Interse	ction Entering	100				+ `	\rightarrow	+			*1
Volume *(vehic	- II								_		*7
lo. of Approaches	3 4	0								1067	
/olume Criteria*	650 800	3	00 400	500 6 MAJOR STREE	600 =T - TOT4	700 N OF BO	800 TH APPROA	900 100 ACHES - VPH	0 1100	1200	1300
/olume*									vith two or mo	oro longo on	.,

* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

Fulfilled?:

Yes V No

Minor Street: 17th St Lanes: 2 Minor Approach Speed: 2 MINOR Street: 17th St Lanes: 2 Minor Approach Speed: 2 MINOR Street: 17th St Lanes: 2 Minor Approach Speed: 2 MINOR Approach Speed: 2 MIN	County: District: Major Street: Minor Street: MUTCD Electronic Reference to Chapter 4: Mutch Electronic Reference to Chapter 4: Note:	Date:	January 22, 2020 Major Approach Speed: Minor Approach Speed:	2
District: Major Street: South St Inth St Lanes: Major Approach Speed: Minor Street: Major Approach Speed: Minor Street: Major Approach Speed: Minor Minor Approach Minor Vol. Mi	Major Street: Minor Street: MUTCD Electronic Reference to Chapter 4: Mutch Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 like)	Lanes: 2 Lanes: 2 //pdfs/2009r1r2/parte/ km/h)?	Major Approach Speed: Minor Approach Speed: 4.pdf	
Minor Street:	Minor Street: ### MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/ ### Mutch Electronic Reference to Chapter 4: http://mutch.fhwa.dot.gov/ ### Mutch Electronic Reference to Chapter 4: http://mutch.fhwa.dot.gov/ ### Mutch Electronic Reference Reference To Chapter 4: http://mutch.fhwa.dot.gov/ ### Mutch Electronic Reference To Chapter 4: http://mutch.fhwa.dot.gov/ ### Mutch Electronic Reference Re	Lanes: 2 //pdfs/2009r1r2/part/ km/h)?	Minor Approach Speed:	
Minor Street: 17th St Lanes: 2 Minor Approach Speed: 2 MITCD Electronic Reference to Chapter 4: http://mutcd.fhva.doi.gov/pdfs/2009r1/2/partd.pdf Minor Street: 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000?	Minor Street: 17th St MUTCD Electronic Reference to Chapter 4: http://mutcd.fhwa.dot.gov/ 1. Is the posted speed or 85th-percentile of major street > 40 mph (70)	Lanes: 2 //pdfs/2009r1r2/part/ km/h)?	Minor Approach Speed:	
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?	/olume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 limits)	km/h)?		
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)?	/olume Level Criteria 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 limits)	km/h)?		
1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "70%" volume level may be used if Question 1 or 2 above is answered "Yes"	1. Is the posted speed or 85th-percentile of major street > 40 mph (70	•	☐ Yes ✓ No	
2. Is the intersection in a built-up area of an isolated community with a population < 10,000? "Yow" volume level may be used if Question 1 or 2 above is answered "Yes" "Yow		•	Yes J No	
### VARRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate line, satisfied: Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol	2. Is the intersection in a built-up area of an isolated community with a	population < 10.00		
WRRANT 3 - PEAK HOUR If all three criteria are fulfilled or the plotted point lies above the appropriate line, Satisfied: Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 150 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 100 500 600 700 800 900 1000 1100 1200 1300 1800 1700 1800 MAJOR STREET -TOTAL OF BOTH APPROACHES - VPH *Note: 150 vph applies as the lower threshold volume threshold for a minor street approach with now an elane. *FIGURE 4C-4: Criteria for "70%" Volume Level (Community Loss than 10,000 population or above 70 km/hr (40 mph) on Major Street) 1. Delay on Minor Approach 2. Volume on Minor Approach 3. Total Intersection Entering Volume Volume 1. Volume Criteria* 100 150 3. Total Intersection Entering Volume Volume Volume loss on both 100 1200 1300 1100 1200 1300 3. Total Intersection Entering Volume Volume Volume loss on both 100 1200 1300 1100 1200 1300 3. Total Intersection Entering Volume Volume loss of the process of		population < 10,00	0?	
If all three criteria are fulfilled or the plotted point lies above the appropriate line, Applicable: Vestatisfied: Vestatisfied	"70%" volume level \boldsymbol{may} be used if Question 1 \boldsymbol{or} 2 above is answered	"Yes"	☐ 70% <u>✓</u> 100%)
If all three criteria are fulfilled or the plotted point lies above the appropriate line, Applicable: Vestatisfied: Vestatisfied	VARRANT 3 - PEAK HOUR			
then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Time Major Vol. Minor Approach "(vehicle-hours) Picy Volume on Minor Approach Time on Minor Approach "(vehicle-hours) Time one-Direction "(vehicles per hour) One-Direction "(vehicles per hour) One-Direction "(vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume "Vehicles per hour) On of Approaches 3 4 9 No delay " Volume Time Major Vol More Lanes A 20 More Lanes A 20 More Lanes A 20 More Lanes A 20		nrioto lina Al	oplicable:	
Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 100% Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 1. Living Amazor Minor	- · · · · · · · · · · · · · · · · · · ·	priate line,		
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Peak Hour 70% Volume Time Major Vol. Minor Vol. Time Major Vol. Minor Vol. Peak Hour 70% Volume Time Major Vol. Minor Approach (vehicle-hours) Proposach Lanes 1 2 elay Criteria* 4.0 5.0 elay 100 monor Approach (vehicle-brours) Peak Hour 70% Volume on Minor Approach (vehicle-sper hour) 2. Volume on Minor Approach (one-Direction "(vehicles per hour) One-Direction "(vehicles per hour) 3. Total Intersection Entering Volume "(vehicles per hour) On of Approaches 3 4 40 300 FIGURE 4C-3: Criteria for "100%" Volume Level 1. Lane 4 Lanes 1 1 2 1 2 1 2 1 3 1 1 2 1 3 1 1 2 1 3 1 1 2 1 3 1 1 1 1				
Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 1436 788 Peak Hour 70% Volume Time Major Vol. Minor Vol. Minor Vol. Criteria 1. Delay on Minor Approach (vehicle-hours) Provided Lanes 1 2 2 2 CR MORE LANES & I LANE *Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one mane. FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 1 June & I LANE *Note: 150 vph applies as the lower threshold volume for a minor street approach with one mane. FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) *Note: 150 vph applies as the lower threshold volume for a minor street approach with one lane. *I Delay on Minor Approach ("vehicles per hour) 2 OR MORE LANES & I LANE 1 June & I L	warrant: FIGURE 4C		_	
Peak Hour 100% Volume	600			
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol. Minor Vol.	Peccard hour when criteria are fulfilled	2 OR MORE LANES & 2	OR MORE LANES	
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol. Minor Vol.	and the corresponding delay or volume	$\langle \ \ \ $		
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol. Minor Vol.	in boxes provided.	\longrightarrow		
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol.	Peak Hour 100% Volume	2 OF	MORE LANES & 1 LANE	
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol.	Time Major Vol Minor Vol Sussessment Susse		11 ANE 8 11 ANE	
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol.	AM 1436 788			
Time Major Vol. Minor Vol. Major Vol. Minor Vol. Minor Vol.	7400 700 >			*150
Criteria 1. Delay on Minor Approach *(vehicle-hours) pproach Lanes	Peak Hour 70% Volume			*10
Criteria				
*Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volume threshold for a minor street approach with one lane. *Indicate the lower threshold volume threshold volum	Y Y	900 1000 1100 120	0 1300 1400 1500 1600 1700 180	00
1. Delay on Minor Approach *(vehicle-hours) pproach Lanes 1 2 elay Criteria* 4.0 5.0 elay* ulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* ulfilled?: Yes No 3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 ulfilled?: Separation Sepa		T - TOTAL OF BOTH APPRO	DACHES - VPH	
(vehicle-hours) pproach Lanes 1 2 elay Criteria 4.0 5.0 elay* ulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* 3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 there Originists 650 900				
FIGURE 4C-4: Criteria for "70%" Volume Level elay Criteria*		na volume inresnola for a m.	пог street арргоасп with one lane.	
elay Criteria* 4.0 5.0 elay* Uffilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* Uffilled?: Yes No 3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 there Oriteria* 650 900		4: Critoria for "709	/ " Volume Level	
elay* Ulfilled?: Yes No 2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* Ulfilled?: Yes No 3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 there of the initial terms of the initial te				
2. Volume on Minor Approach One-Direction *(vehicles per hour) pproach Lanes 1 2 olume Criteria* 100 150 olume* ulfilled?: Yes Volume *(vehicles per hour) o. of Approaches 3 4 the Column of Approach State of Approaches 3 4 the Column of Approach State of Approaches 3 4 the Column of Approaches 3 4 the Column of Approach State of Approaches 3 4 the Column of Approaches 3 4 the Column of Approach State of Approaches 3 4 the Column of Approaches 3 4	500			
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3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 100 100 100 100 100 100 100 1	<u>a</u> 400			
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 100 100 100 100 100 100 100 1	2. Volume on Minor Approach	2 OR MORE LAN	ES & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 100 100 100 100 100 100 100 1	pproach lanes 1 2			
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 100 100 100 100 100 100 100 1	olume Criteria* 100 150 8 8 8	\times	1 LANE & 1 LANE	
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 100 100 100 1100 1200 1300 100 1000	olume*	\rightarrow		
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4 there Original Action 4 (100 100 100 100 100 100 100 100 100 10	ulfilled?: Yes ✓ No			
3. Total Intersection Entering Volume *(vehicles per hour) o. of Approaches 3 4	100			*100
o. of Approaches 3 4 300 400 500 600 700 800 900 1000 1100 1200 1300	3. Total Intersection Entering			*75
300 400 500 600 700 800 900 1000 1100 1200 1300				
allima Cintana) I DDI I XIII II	0. 01 Approacties 0 4 300 400 500 600	700 800 9	00 1000 1100 1200 130	00

	TRAF	FIC SIGNA	L WARRA	NT SUMMAR	RY	10/1
City: County: District:	Lincol	n		Engineer: Date:	John P Diedike January 22, 202	
Major Street:		South St 17th St		Lanes: 2 Lanes: 2	Major Approach Sp Minor Approach Sp	
MUTCD Electronic	Reference to Chapter	4: <u>http://m</u>	utcd.fhwa.dot.g	ov/pdfs/2009r1r2/par	t4.pdf	
2. Is the inters	ed speed or 85th-pero	rea of an isolated o	community with	a population < 10,00	00? Yes	No No No 100%
WARRANT 3 - P If all three crite then the warra Unusual condition warra	eria are fulfilled or the ont is satisfied. justifying use of	e plotted point lies	Plot volume co	ombination on the applic	Applicable: Satisfied: Yes Yes Yes Yes Name of the property of the prope	No No
Record hour when of and the corresponding in boxes properties. Peak Hour 10 Time Maj	ng delay or volume rovided.	MINOR STREET MINOR STREET 400 700 700 100 100		2 OR MORE LANES &		=
Peak Hour 7	or Vol. Minor Vol.	0 400	MAJOR STF	800 900 1000 1100 12 REET - TOTAL OF BOTH APPR	ROACHES - VPH	
1. Delay on Mi *(vehicle Approach Lanes Delay Criteria* Delay* Fulfilled?:	· · · II	100 vph app.	FIGURE 4	C-4: Criteria for "70 n 10,000 population or above	ninor street approach with two or more lan ninor street approach with one la 19%" Volume Level 170 km/hr (40 mph) on Major St	ane.
2. Volume on M One-Direction *(ve Approach Lanes Volume Criteria* Volume* Fulfilled?:	1 2 100 150 Yes	MINOR STREET HIGH VOLUME APPROACH - VPH 100		2 OR MORE LA	NES & 1 LANE 1 LANE & 1 LANE	*100
3. Total Interse Volume *(vehic No. of Approaches Volume Criteria* Volume* Fulfilled?:		300 * Note: 100 vph app.	MAJOR STRE	ET - TOTAL OF BOTH APPROA shold volume for a minor stree	900 1000 1100 120 CHES - VPH et approach with two or more lan inor street approach with one lan	es and

	TRAF	FIC SIGNAL WARRA	ANT SUMMAR	Y	10/
City: _ County: _ District: _	Lincol	in	Engineer: Date:	John P Diediker January 17, 2020	
Major Street: _ Minor Street: _	Ante	elope Valley Pkwy Q St	Lanes: 3	Major Approach Speed: Minor Approach Speed:	35 25
MUTCD Electronic I	Reference to Chapter	r 4: http://mutcd.fhwa.dot.g	gov/pdfs/2009r1r2/part	4.pdf	
2. Is the inters	ed speed or 85th-perd section in a built-up at level may be used if	centile of major street > 40 mph (rea of an isolated community with Question 1 or 2 above is answer	n a population < 10,00	☐ Yes ☑ No ☐ Yes ☑ No ☐ 70% ☑ 100%	6
	eria are fulfilled <u>or</u> the nt is satisfied. justifying use of	600 FIGURE	ombination on the applica	100%" Volume Level	
AM 2 Peak Hour 70	ng delay or volume rovided. 10% Volume or Vol. Minor Vol. 1018 151	MINOR STREET HIGH VOLUME APPROACH - VPH 100 400 200 600 400	800 900 1000 1100 12	R MORE LANES & 1 LANE 1 LANE & 1 LANE 00 1300 1400 1500 1600 1700 18	*150 *100
Cri 1. Delay on Mir *(vehicle-		* Note: 150 vph applies as the lower thre			
Approach Lanes Delay Criteria* Delay* Fulfilled?: 2. Volume on M One-Direction *(ve Approach Lanes Volume Criteria* Volume* Fulfilled?:	1 2 4.0 5.0 Yes V No inor Approach chicles per hour) 1 2 100 150 Yes V No			70 km/hr (40 mph) on Major Street)	. *100
3. Total Intersection Volume *(vehic) No. of Approaches Volume Criteria* Volume* Fulfilled?:	- 1	MAJOR STRE * Note: 100 vph applies as the lower thre	EET - TOTAL OF BOTH APPROA		*75

City: Linc	
County:	Date: January 17, 2020
District:	
Major Street: An	telope Valley Pkwy Lanes: 3 Major Approach Speed: 3
Minor Street:	P St Lanes: 3 Minor Approach Speed: 2
Willion Street.	Laties. 3 Williof Apploach opeed. 2
UTCD Electronic Reference to Chapt	ter 4: http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf
olume Level Criteria	
1. Is the posted speed or 85th-pe	ercentile of major street > 40 mph (70 km/h)?
	area of an isolated community with a population < 10,000?
2. 13 the intersection in a built-up	
"70%" volume level may be used	if Question 1 or 2 above is answered "Yes"
/ARRANT 3 - PEAK HOUR	
·	the plotted point lies above the appropriate line Applicable:
then the warrant is satisfied.	the plotted point lies above the appropriate line, Satisfied: Yes No
	Plot volume combination on the applicable figure below.
Unusual condition justifying use of warrant:	
	FIGURE 4C-3: Criteria for "100%" Volume Level
	2 OR MORE LANES & 2 OR MORE LANES
Record hour when criteria are fulfilled	₹ 500
and the corresponding delay or volume	2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
in boxes provided.	BOACO 2 OK WORE LANES & 1 LANE
Peak Hour 100% Volume	Fig. 300
Time Major Vol. Minor Vol.	J LLANE & JLANE
PM 2486 417	ਾਂ ਹੈ 200
	₹
Peak Hour 70% Volume	± 100 *10
Time Major Vol. Minor Vol.	
	400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800
	MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH
Criteria	* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and
1. Delay on Minor Approach	100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.
*(vehicle-hours)	
elay Criteria* 4.0 5.0	FIGURE 4C-4: Criteria for "70%" Volume Level (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)
sia, sinsiia	500 Continuity Less than 10,000 population of above 70 km/n (40 mph) on Major Street)
elay*	
ılfilled?: Yes _✓ No	2 OR MORE LANES & 2 OR MORE LANES
2. Volume on Minor Approach	± 700
One-Direction *(vehicles per hour)	2 OR MORE LANES & 1 LANE
pproach Lanes 1 2	REGA 300
olume Criteria* 100 150	1 LANE & 1 LANE
olume*	200 Q Z Z
ulfilled?:	2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE
0. Tatallist	100
3. Total Intersection Entering	*75
Volume *(vehicles per hour)	
o. of Approaches 3 4 blume Criteria* 650 800	300 400 500 600 700 800 900 1000 1100 1200 1300 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH

TRA	AFFIC SIGNAL WARRAN	IT SUMMAR	Υ	10/18
City: Lin County: District:	coln	Engineer: Date:	John P Diediker January 17, 2020	
Minor Street:	P St	Lanes: 3 Lanes: 3	Major Approach Speed: Minor Approach Speed:	35 25
2. Is the intersection in a built-u	pter 4: http://mutcd.fhwa.dot.gov/ percentile of major street > 40 mph (70 p area of an isolated community with a d if Question 1 or 2 above is answered	km/h)? population < 10,000	Yes Vo	o.
then the warrant is satisfied. Unusual condition justifying use of warrant: Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided. Peak Hour 100% Volume Time Major Vol. Minor Vol. AM 2062 151 Peak Hour 70% Volume Time Major Vol. Minor Vol. Criteria 1. Delay on Minor Approach	FIGURE 4C 600 FIGURE 4C HIGH VOLUME STREET HOH VOLUME APPROACH - VPH 100 400 500 600 700 800	bination on the applica 3-3: Criteria for "10 2 OR MORE LANES & 2 2 OR 100 1100 1200 T - TOTAL OF BOTH APPRO	MORE LANES MORE LANES & 1 LANE 1 LANE & 1 LANE 0 1300 1400 1500 1600 1700 18 OACHES - VPH approach with two or more lanes and	*150 *100
(vehicle-hours) Approach Lanes 1 2 Delay Criteria 4.0 5.0 Delay* Fulfilled?: Yes ✓ No 2. Volume on Minor Approach One-Direction *(vehicles per hour) Approach Lanes 1 2 Volume Criteria* 100 150 Volume* Fulfilled?: Yes ✓ No 3. Total Intersection Entering Volume *(vehicles per hour) No. of Approaches 3 4 Volume Criteria* 650 800	300 400 500 600	2 OR MORE LANES 2 OR MORE LAN 700 800 90 - TOTAL OF BOTH APPROAC	20 RM/hr (40 mph) on Major Street) & 2 OR MORE LANES ES & 1 LANE 1 LANE & 1 LANE 00 1000 1100 1200 1300	*100 *75

TRAFFIC SIGNAL WARRANT SUMMARY City: Lincoln Engineer: John P Diediker County: Date: January 17, 2020 District: Major Street: **Antelope Valley Pkwy** Major Approach Speed: Lanes: 35 Minor Street: Q St Lanes: Minor Approach Speed: 25 http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/part4.pdf MUTCD Electronic Reference to Chapter 4: **Volume Level Criteria** Yes ✓ No 1. Is the posted speed or 85th-percentile of major street > 40 mph (70 km/h)? Yes 🗸 No 2. Is the intersection in a built-up area of an isolated community with a population < 10,000? 70% 🗸 100% "70%" volume level may be used if Question 1 or 2 above is answered "Yes" **WARRANT 3 - PEAK HOUR** ✓ Yes No Applicable: If all three criteria are fulfilled $\underline{\mathbf{or}}$ the plotted point lies above the appropriate line, ✓ Yes No then the warrant is satisfied. Satisfied: Unusual condition justifying use of Plot volume combination on the applicable figure below. warrant: FIGURE 4C-3: Criteria for "100%" Volume Level 600 2 OR MORE LANES & 2 OR MORE LANES 500 Record hour when criteria are fulfilled MINOR STREET HIGH VOLUME APPROACH - VPH and the corresponding delay or volume in boxes provided. 400 2 OR MORE LANES & 1 LANE Peak Hour 100% Volume 300 Major Vol. Minor Vol. 1 LANE & 1 LANE Time РМ 2253 417 *150 *100 100 Peak Hour 70% Volume Major Vol. Minor Vol. 500 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 400 700 800 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Criteria * Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 1. Delay on Minor Approach 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane. *(vehicle-hours) Approach Lanes FIGURE 4C-4: Criteria for "70%" Volume Level Delay Criteria* 4 0 5.0 (Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street) 500 Delay* Fulfilled?: Yes ✓ No 2 OR MORE LANES & 2 OR MORE LANES MINOR STREET HIGH VOLUME APPROACH - VPH 400 2. Volume on Minor Approach 2 OR MORE LANES & 1 LANE One-Direction *(vehicles per hour) 300 Approach Lanes Volume Criteria* 100 150 LANE & 1 LANE Volume* 200 Fulfilled?: Yes *100 100 3. Total Intersection Entering *75 Volume *(vehicles per hour) 0 No. of Approaches 4 300 600 1300 650 800 Volume Criteria* MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH Volume* * Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and Fulfilled?: Yes ✓ No 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.