

TABLE 2 2012 Existing Conditions

ENG: JQA
DATE: 6/1/2012

TOWN: Portland														
ROUTE: India St														
LOCATION: Fore St														
AREA TYPE (URBAN=U, RURAL OR 85TH PERCENTILE SPEED>40=R): U														
TIME BEG HR	MAJOR STREET			MINOR STREET			MINIMUM VEH. VOLUME			INTERRUPTION OF TRAFFIC				
	#OF LANES: EB APP.	WB APP.	TOTAL	#OF LANES: NB APP.	SB APP.	HIGHER	Major Rd 500	Minor Rd 150	Met?	80% Combo Warrant Met?	Major Rd 750	Minor Rd 75	Met?	80% Combo Warrant Met?
12 AM			0			0	0%	0%			0%	0%		
1 AM			0			0	0%	0%			0%	0%		
2 AM			0			0	0%	0%			0%	0%		
3 AM			0			0	0%	0%			0%	0%		
4 AM			0			0	0%	0%			0%	0%		
5 AM			0			0	0%	0%			0%	0%		
6 AM	70	58	128	22	70	70	26%	47%			17%	93%		
7 AM	202	99	301	80	156	156	60%	104%			40%	208%		
8 AM	282	137	419	143	192	192	84%	128%	YES		56%	256%		
9 AM	176	121	297	108	193	193	59%	129%			40%	257%		
10 AM	144	148	292	123	190	190	58%	127%			39%	253%		
11 AM	151	149	300	130	178	178	60%	119%			40%	237%		
12 PM	211	168	379	176	230	230	76%	153%			51%	307%		
1 PM	191	175	366	168	252	252	73%	168%			49%	336%		
2 PM	174	164	338	143	242	242	68%	161%			45%	323%		
3 PM	187	189	376	156	258	258	75%	172%			50%	344%		
4 PM	186	202	388	214	249	249	78%	166%			52%	332%		
5 PM	180	210	390	207	212	212	78%	141%			52%	283%		
6 PM			0			0	0%	0%			0%	0%		
7 PM			0			0	0%	0%			0%	0%		
8 PM			0			0	0%	0%			0%	0%		
9 PM			0			0	0%	0%			0%	0%		
10 PM			0			0	0%	0%			0%	0%		
11 PM			0			0	0%	0%			0%	0%		
TOTAL HOURS MET:										0	1	0	0	

TABLE 3
Build Condition Adjusted to 50% (Average) Condition

ENG: JQA
 DATE: 6/1/2012

TOWN: Portland
 ROUTE: India St
 LOCATION: Fore St
 AREA TYPE (URBAN=U, RURAL OR 85TH PERCENTILE SPEED>40=R): U

TIME BEG HR	MAJOR STREET			MINOR STREET			MINIMUM VEH. VOLUME			INTERRUPTION OF TRAFFIC						
	#OF LANES: EB APP.	WB APP.	TOTAL	#OF LANES: NB APP.	SB APP.	HIGHER	Major Rd 500	Minor Rd 150	Met?	80% Combo Warrant Met?	Major Rd 750	Minor Rd 75	Met?	80% Combo Warrant Met?		
12 AM			0			0	0%	0%			0%	0%				
1 AM			0			0	0%	0%			0%	0%				
2 AM			0			0	0%	0%			0%	0%				
3 AM			0			0	0%	0%			0%	0%				
4 AM			0			0	0%	0%			0%	0%				
5 AM			0			0	0%	0%			0%	0%				
6 AM	87	66	152	29	72	72	30%	48%			20%	96%				
7 AM	220	107	327	88	159	159	65%	106%			44%	211%				
8 AM	301	145	446	151	195	195	89%	130%	YES		59%	260%				
9 AM	194	129	323	116	196	196	65%	131%			43%	261%				
10 AM	161	156	318	131	193	193	64%	129%			42%	257%				
11 AM	169	157	326	138	181	181	65%	121%			43%	241%				
12 PM	220	180	400	190	244	244	80%	163%			53%	326%				
1 PM	203	188	391	184	268	268	78%	178%			52%	357%				
2 PM	186	177	362	158	257	257	72%	172%			48%	343%				
3 PM	199	202	401	172	274	274	80%	182%	YES		53%	365%				
4 PM	198	215	413	230	264	264	83%	176%	YES		55%	353%				
5 PM	192	223	415	223	227	227	83%	151%	YES		55%	303%				
6 PM			0			0	0%	0%			0%	0%				
7 PM			0			0	0%	0%			0%	0%				
8 PM			0			0	0%	0%			0%	0%				
9 PM			0			0	0%	0%			0%	0%				
10 PM			0			0	0%	0%			0%	0%				
11 PM			0			0	0%	0%			0%	0%				
TOTAL HOURS MET:													0	4	0	0

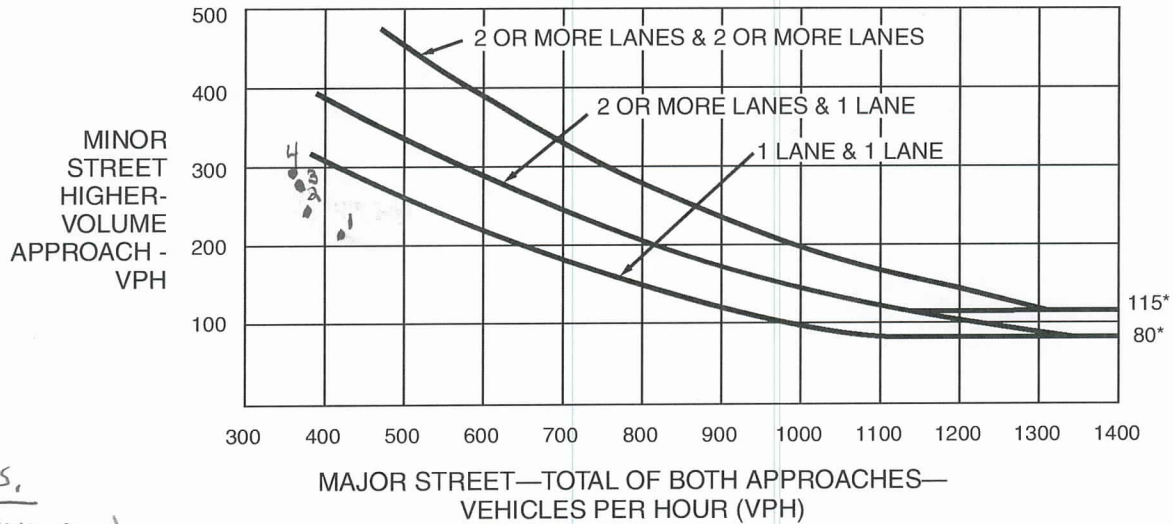
TABLE 4
PM Build Condition Adjusted To Peak Time of Year

ENG: JQA
 DATE: 6/1/2012

TOWN: Portland
 ROUTE: India St
 LOCATION: Fore St
 AREA TYPE (URBAN=U, RURAL OR 85TH PERCENTILE SPEED>40=R): U

TIME BEG HR	MAJOR STREET			MINOR STREET			MINIMUM VEH. VOLUME			80% Combo Warrant Met?	INTERRUPTION OF TRAFFIC			
	#OF LANES: EB APP.	WB APP.	TOTAL	#OF LANES: NB APP.	SB APP.	HIGHER	Major Rd 500	Minor Rd 150	Met?		Major Rd 750	Minor Rd 75	Met?	80% Combo Warrant Met?
12 AM			0			0	0%	0%			0%	0%		
1 AM			0			0	0%	0%			0%	0%		
2 AM			0			0	0%	0%			0%	0%		
3 AM			0			0	0%	0%			0%	0%		
4 AM			0			0	0%	0%			0%	0%		
5 AM			0			0	0%	0%			0%	0%		
6 AM	70	58	128	31	77	77	26%	52%			17%	103%		
7 AM	202	99	301	94	171	171	60%	114%			40%	228%		
8 AM	282	137	419	163	210	210	84%	140%	YES		56%	281%		
9 AM	176	121	297	125	212	212	59%	141%			40%	282%		
10 AM	144	148	292	141	208	208	58%	139%			39%	278%		
11 AM	151	149	300	149	195	195	60%	130%			40%	260%		
12 PM	211	168	379	204	263	263	76%	175%			51%	351%		
1 PM	191	175	366	197	288	288	73%	192%			49%	384%		
2 PM	174	164	338	170	277	277	68%	185%			45%	369%		
3 PM	187	189	376	184	294	294	75%	196%			50%	393%		
4 PM	186	202	388	247	285	285	78%	190%			52%	379%		
5 PM	180	210	390	240	244	244	78%	163%			52%	326%		
6 PM			0			0	0%	0%			0%	0%		
7 PM			0			0	0%	0%			0%	0%		
8 PM			0			0	0%	0%			0%	0%		
9 PM			0			0	0%	0%			0%	0%		
10 PM			0			0	0%	0%			0%	0%		
11 PM			0			0	0%	0%			0%	0%		
TOTAL HOURS MET:											0	1	0	0

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

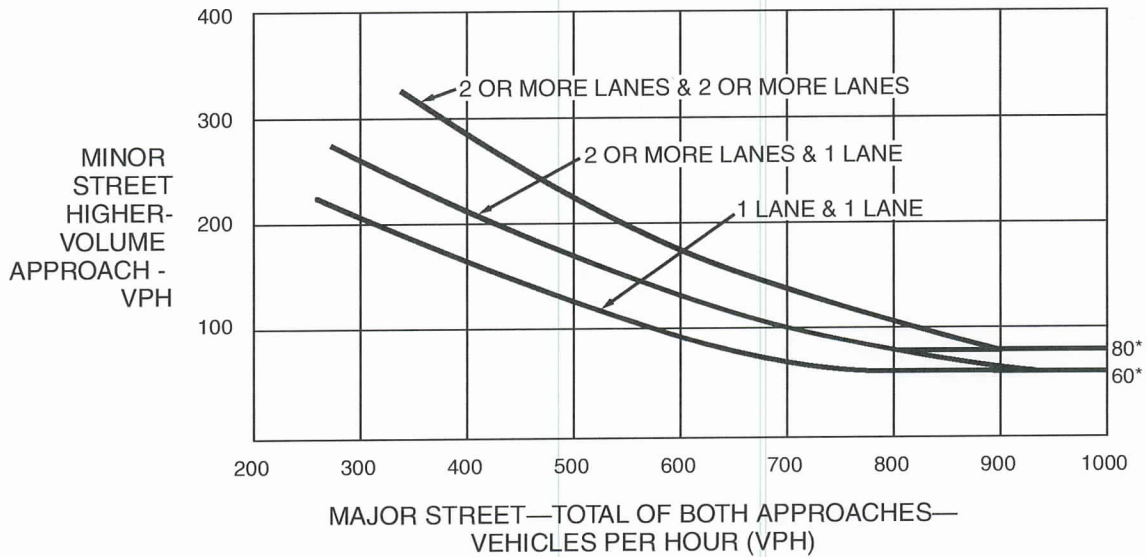


PTS.
 1 (419, 210)
 2 (390, 244)
 3 (388, 285)

*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

TABLE 5
Traffic Volume Adjustments for Signal Warrants

Fores St at India St
Signal Warrant Volumes

	Existing Raw Counts			
	India St		Fore St	
	EB	WB	NB	SB
6am	70	58	22	70
7am	202	99	80	156
8am	282	137	143	192
9am	176	121	108	193
10am	144	148	123	190
11am	151	149	130	178
12am	211	168	176	230
1pm	191	175	168	252
2pm	174	164	143	242
3pm	187	189	156	258
4pm	186	202	214	249
5pm	180	210	207	212

	Seasonally Adjusted to 50% Volumes + Annual 1% Growth			
	India St		Fore St	
	EB	WB	NB	SB
6am	71	59	22	71
7am	204	100	81	158
8am	285	138	144	194
9am	178	122	109	195
10am	145	149	124	192
11am	153	150	131	180
12am	213	170	178	232
1pm	193	177	170	255
2pm	176	166	144	244
3pm	189	191	158	261
4pm	188	204	216	251
5pm	182	212	209	214

	Site Generated Trips			
	India St		Fore St	
	EB	WB	NB	SB
6am	12	4	4	1
7am	12	4	4	1
8am	12	4	4	1
9am	12	4	4	1
10am	12	4	4	1
11am	12	4	4	1
12am	3	7	9	12
1pm	3	7	9	12
2pm	3	7	9	12
3pm	3	7	9	12
4pm	3	7	9	12
5pm	3	7	9	12

	Other Development Trips			
	India St		Fore St	
	EB	WB	NB	SB
6am	4	3	3	0
7am	4	3	3	0
8am	4	3	3	0
9am	4	3	3	0
10am	4	3	3	0
11am	4	3	3	0
12am	4	3	3	0
1pm	7	4	5	1
2pm	7	4	5	1
3pm	7	4	5	1
4pm	7	4	5	1
5pm	7	4	5	1

	Post Development Traffic Volumes @ 50% Background Adjustment			
	India St		Fore St	
	EB	WB	NB	SB
6am	87	66	29	72
7am	220	107	88	159
8am	301	145	151	195
9am	194	129	116	196
10am	161	156	131	193
11am	169	157	138	181
12am	220	180	190	244
1pm	203	188	184	268
2pm	186	177	158	257
3pm	199	202	172	274
4pm	198	215	230	264
5pm	192	223	223	227

	Post Development Traffic Volumes @ Peak Background Adjustment			
	India St		Fore St	
	EB	WB	NB	SB
6am	92	70	31	77
7am	236	115	94	171
8am	324	156	163	210
9am	208	139	125	212
10am	173	168	141	208
11am	181	170	149	195
12am	237	193	204	263
1pm	218	202	197	288
2pm	200	190	170	277
3pm	214	217	184	294
4pm	213	231	247	285
5pm	206	240	240	244

*To be conservative with the signal warrant analysis we assumed that the AM & PM Peak hour trips would be generated throughout the day (6 AM to 6 PM)