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Traffic and Transportation Consulting

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Traffic Signal Warrant Analysis

Major Street: Westfield Avenue (25 MPH Posted Speed Limit)

Minor Street: Liberty Street

Typical Weekday	Westfield Avenue (2-Way Volume)	Liberty Street (Approach Volume)	Hourly Analysis of Warrant Requirements			
			1A	1B	2	3
7:00 - 8:00 AM	1200	96	N	Y	Y	N
8:00 - 9:00 AM	1308	99	N	Y	Y	N
9:00 - 10:00 AM	1193	71	N	N	N	N
10:00 - 11:00 AM	1073	50	N	N	N	N
11:00 AM - 12:00 NOON	1204	67	N	N	N	N
12:00 - 1:00 PM	1462	115	N	Y	Y	Y
1:00 - 2:00 PM	1329	78	N	Y	N	N
2:00 - 3:00 PM	1369	102	N	Y	Y	N
3:00 - 4:00 PM	1466	113	N	Y	Y	Y
4:00 - 5:00 PM	1507	117	N	Y	Y	Y
5:00 - 6:00 PM	1660	145	N	Y	Y	Y
6:00 - 7:00 PM	1456	110	N	Y	Y	Y

NOTES:

1. Warrant 1A, Minimum Vehicular Volume, needs to be satisfied for 8 hours with 500 vehicles on the major Street and 150 vehicles on the Minor Street.
2. Warrant 1B, Interruption of Continuous Traffic, needs to be satisfied for 8 hours with 750 vehicles on the Major Street and 75 vehicles on the Minor Street.
3. Warrant 2, Four-Hour Vehicular Volume, needs to be satisfied for 4 hours based on a sliding scale with a minimum of 80 vehicles on the Minor Street.
4. Warrant 3, Peak Hour, needs to be satisfied for 1 hour based on a sliding scale with a minimum of 100 vehicles on the Minor Street.