

Traffic Forecast

Blue Grass Airport Fayette County Traffic Forecast

Prepared for:

Lexington – Fayette Urban County Airport Board



Prepared by:

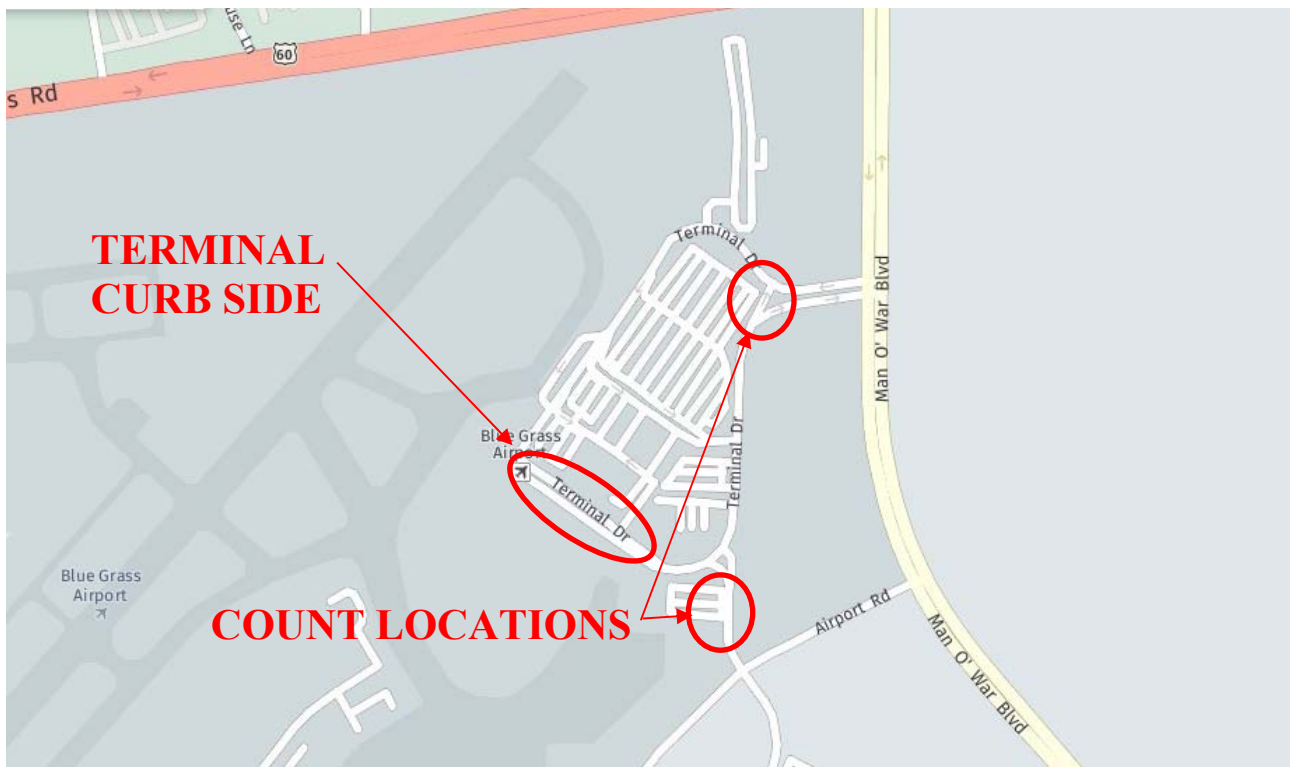
Palmer Engineering



August 2023

Introduction

This report documents the traffic forecast for the Blue Grass Airport in Fayette County, Kentucky for the Lexington – Fayette Urban County Airport Board. The study area includes the Terminal Drive entrance to the airport adjacent to the signalized intersection of Terminal Drive and Man O' War Blvd, the intersection of Air Freight Drive at the entrance/exit to the rental car facility, and the curbside at the terminal drop off and pick up area. This study is a portion of a larger project occurring that considers the expected growth at the airport and improvements that will be required to accommodate the growth. **Map 1** shows the study area and count locations.



Map 1. Study Area

Traffic Volumes

Manual traffic counts were collected at the studied intersections between December 29th, 2022 and January 4th, 2023. Based on flight data the day with the largest volume was determined to be December 31st, 2022. A 24 hour manual traffic count was completed at both intersections mentioned above and are included at the end of this report. **Figure 1** at the end of the report provides the peak hour turning movement volumes at the count locations.

This study assumes a growth rate of 3.25% for all traffic from the year 2023 to year 2041, the design year. The growth rate was selected using information on the enplanement

growth rate (5.50%) and adding a buffer to account for ride-share and autonomous vehicle growth. Assuming most travelers fly in pairs this study takes half of the percent increase of enplanements (2.75%) and then adds an additional 0.5% for autonomous vehicles and ride-share vehicles. A growth rate of 3.25% is reasonable when considering local and regional growth rates. **Figure 2** at the end of this report shows the 2041 peak hour turning movement volumes.

Based on count data from the surrounding area, to include Man O' War Blvd in front of the airport, a K Factor of 0.095 was determined to be appropriate for these intersections at the airport. The K Factor is the approximate percentage of the Annual Daily Traffic (ADT) that passes through the intersection during the peak hour. Using this information and the count volumes shown in **Figure 1** and **Figure 2** this study was able to determine the approximate ADT that travels through the intersection on any average day of the year.

Diagrams are included in the back of this report detailing the traffic volumes during all three peak hours as well as the annual daily traffic volume for each movement based on the peak hour volumes.

Based on the data collected and the selected K Factor **Table 1** summarizes the number of trips that travel through the intersection in the current year, 2023, as well as the design year, 2041.

Intersection	2023 Volume	2041 Volume
Terminal Drive at the Airport Entrance	3,620	6,440
Air Freight Drive at the Rental Car Entrance	990	1,790

Table 1. Intersection ADTs

Dwell Times

As a part of this study dwell times at the drop-off and pick-up area of the airport were collected to determine the average duration that a car is parked in this zone to either drop off or pick up a passenger. Data was collected from December 29th, 2022 through January 4th, 2023. Approximately 30 vehicles were selected at random each day as data points for consideration. Based on the data collected the minimum amount of time a vehicle dwelled was approximately 18 seconds and the maximum was approximately 60 minutes and 56 seconds. The average dwell time was 9 minutes and 35 seconds. It is expected that the wide range shown in the data points reflects the difference in time it takes to drop off a passenger compared to a driver who arrives early to pick up a passenger from the airport. The dwell time data can be found in **Table 3** in the end of this report.

Travel Times

This study included the documentation of current travel times. The travel times were measured from the time the vehicle turned into the main airport entrance from Man O' War Blvd to the time that the vehicle was exiting the airport at the same intersection of

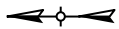
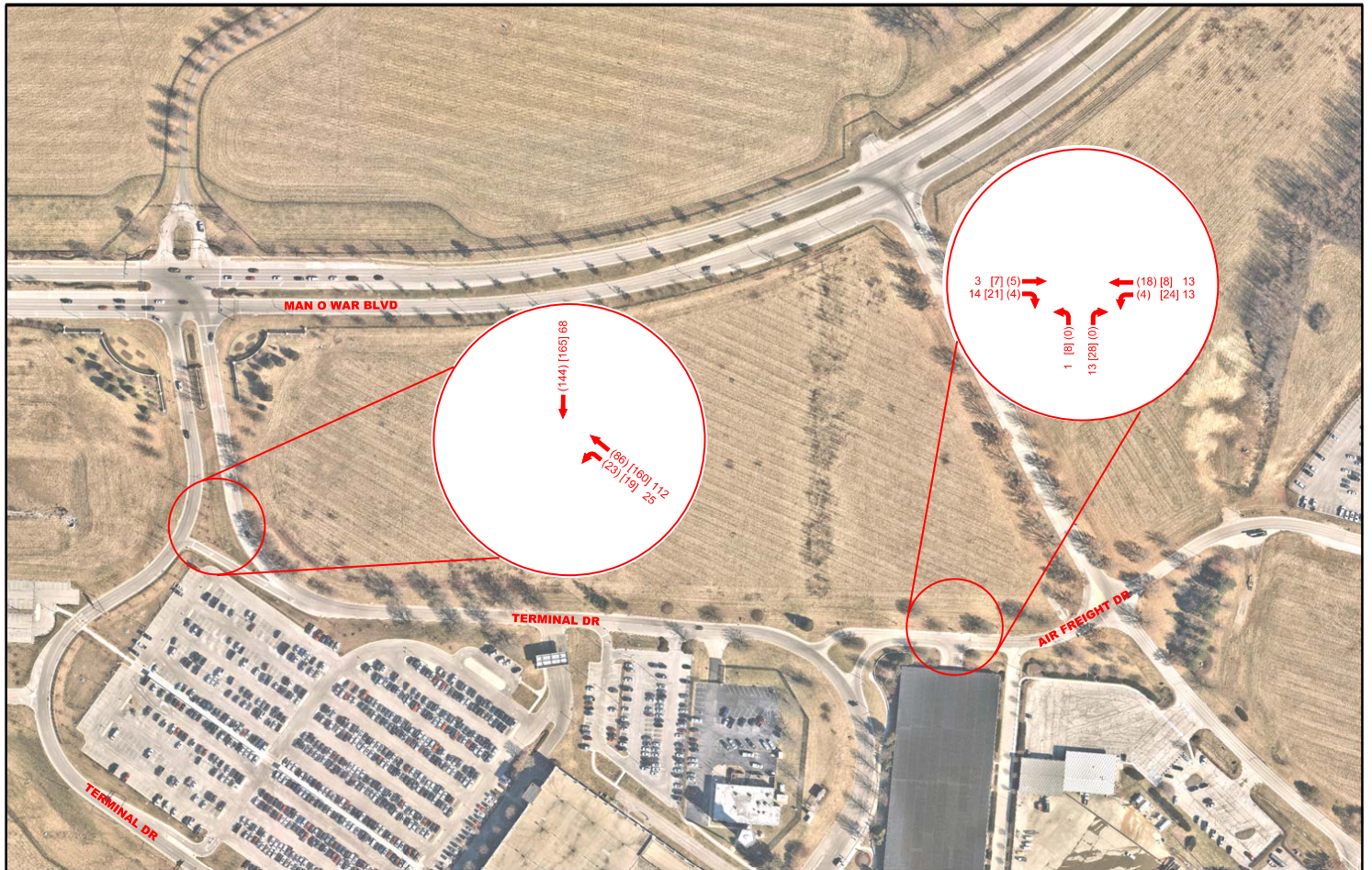
Man O' War Blvd and Terminal Drive. Travel times were taken during peak hours and were driven through the drop off area as well as using the bypass lane to avoid the drop off and pick up area. A total of 16 laps were made in both the drop off area and in the bypass lane. The travel times study revealed that all laps were completed in two and a half to three minutes. The precision of the travel times indicates that despite being completed during peak times there is little delay existing in the terminal drop off and pick up area and suggests that the infrastructure provides excess capacity. **Table 2** summarizes the travel time required to traverse Terminal Drive from entering the airport to exiting the airport.

Blue Grass Airport Travel Times		
Lap Number	Drop Off Area Time (min)	Bypass Lane Time (min)
1	2.517	2.417
2	2.567	2.517
3	2.533	2.6
4	2.533	2.5
5	2.5	2.567
6	2.517	2.55
7	2.5	2.517
8	2.583	2.567
9	2.6	2.5
10	2.5	2.6
11	2.467	2.55
12	2.5	2.55
13	2.533	2.483
14	2.55	2.633
15	2.667	2.717
16	2.583	2.617

Table 2. Travel Time Summary

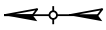
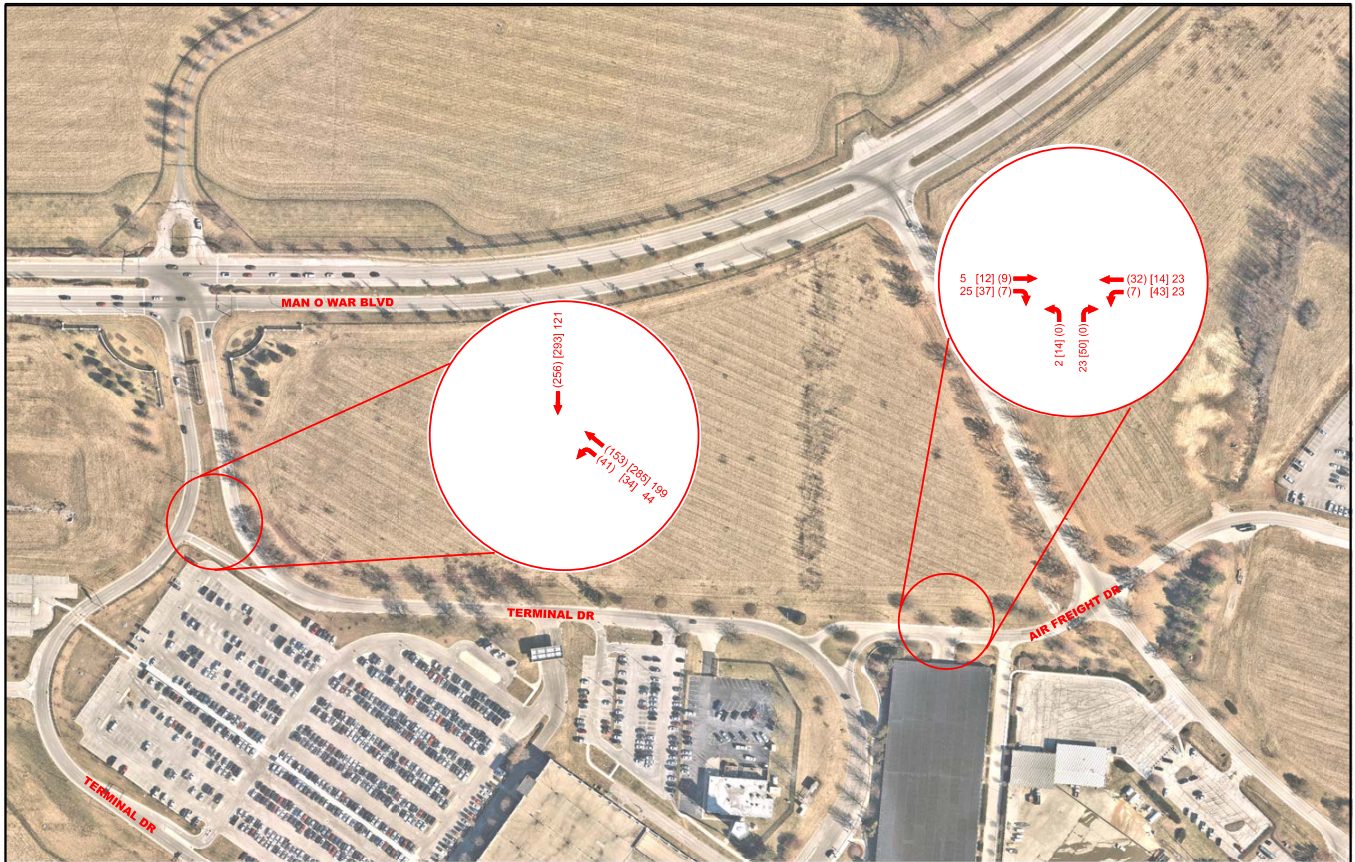
Conclusions

Despite the increase in volume, the existing infrastructure can handle the additional traffic forecasted over the next 18 years as enforced by the travel time analysis and in field observations during peak times. An increase in congestion at the curbside in front of the terminal are expected as the number of drop off and pick up trips increase with the rising number of enplanements; however, infrastructure improvements are not expected to be required to allow traffic to flow through the site under acceptable conditions. Potential mitigation techniques to reduce the number of vehicles parked concurrently at the terminal curb are the implementation of cell phone lots or ride-share lots that allow vehicles to park and wait elsewhere on site rather than at the terminal curb contributing to long dwell times.



BLUE GRASS AIRPORT
LEXINGTON, KENTUCKY

FIGURE 1
2023 EXISTING COUNTS
(AM) [MIDDAY] PM



BLUE GRASS AIRPORT
LEXINGTON, KENTUCKY

FIGURE 2
2041 VOLUMES
(AM) [MIDDAY] PM

PROJECT: LEX Traffic Forecast

ITEM NUMBER:

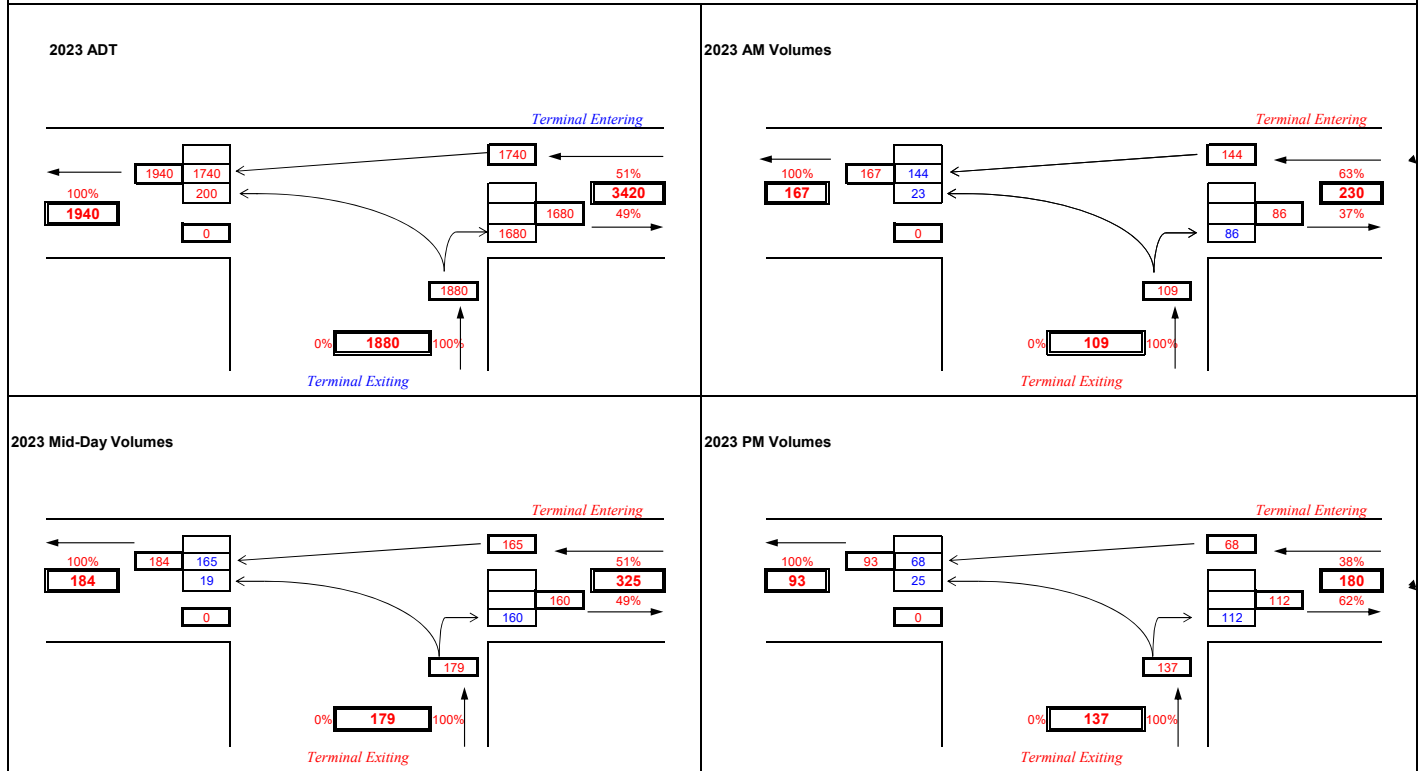
ACCOUNT NUMBER:

REQUEST DATE:

ANALYST: Josh Coburn

SCENARIO: 2023 ADT No Build Volumes at Peak Hour

INTERSECTION: Int #1 (Terminal Drive at Entrance)



PROJECT: LEX Traffic Forecast

ITEM NUMBER:

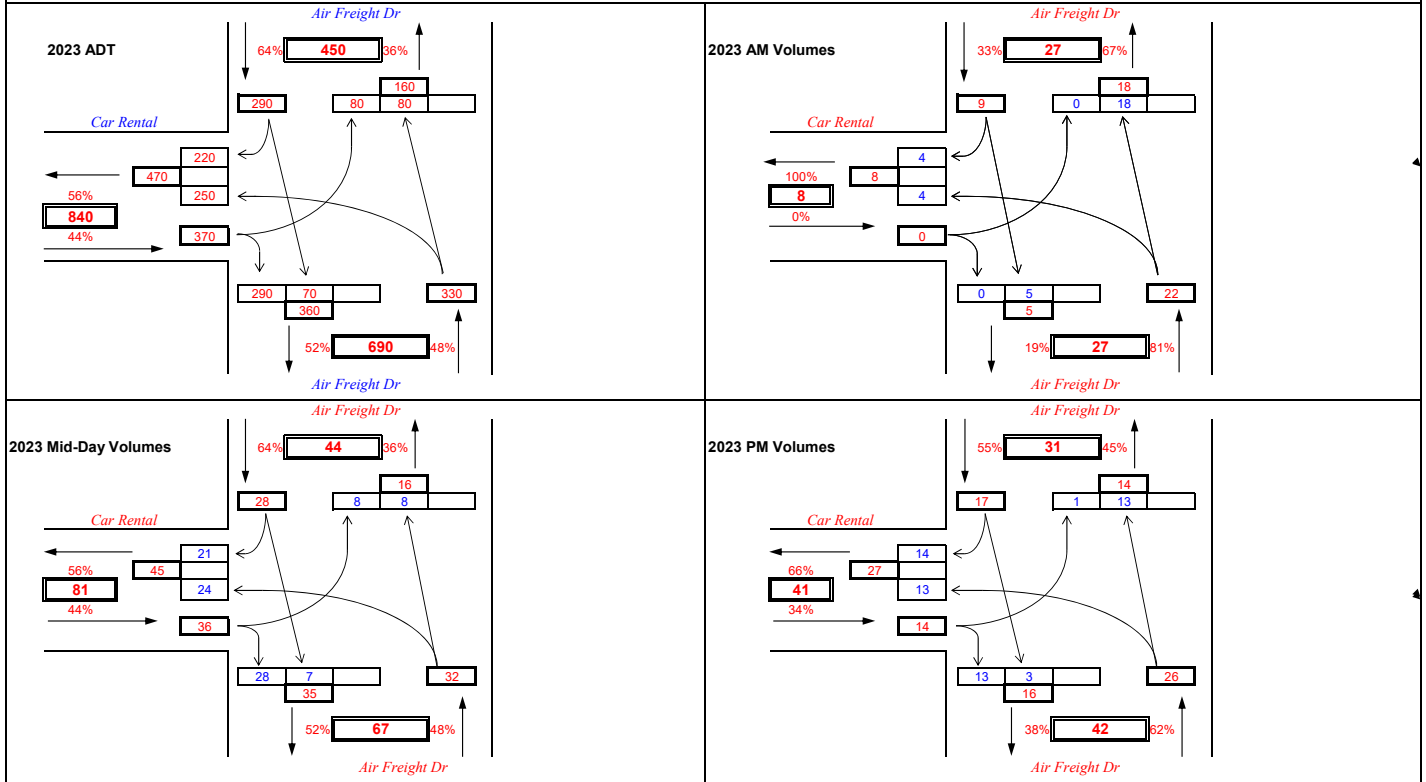
ACCOUNT NUMBER:

REQUEST DATE:

ANALYST: Josh Coburn

SCENARIO: 2023 ADT No Build Volumes at Peak Hour

INTERSECTION: Int #2 (Air Freight Drive at Rental Car)



PROJECT: LEX Traffic Forecast

ITEM NUMBER:

ACCOUNT NUMBER:

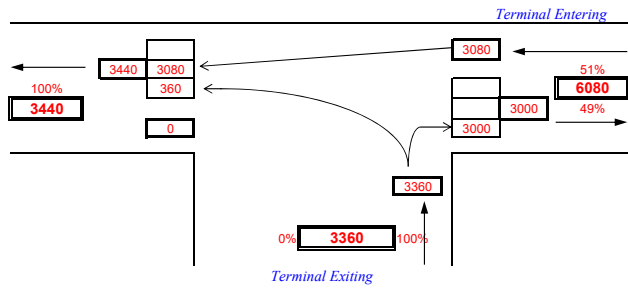
REQUEST DATE:

ANALYST: Josh Coburn

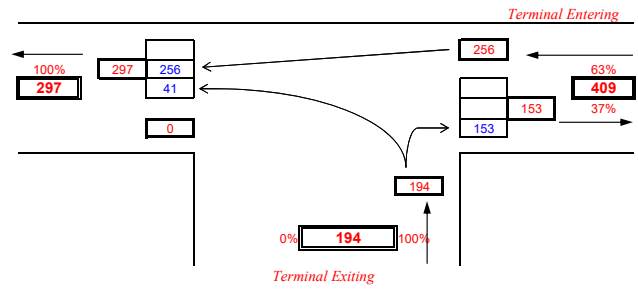
SCENARIO: 2041 ADT No Build Volumes at Peak Hour

INTERSECTION: Int #1 (Terminal Drive at Entrance)

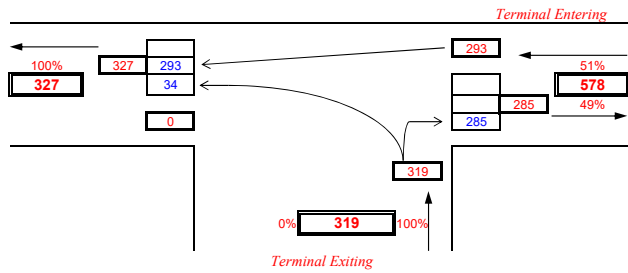
2023 ADT



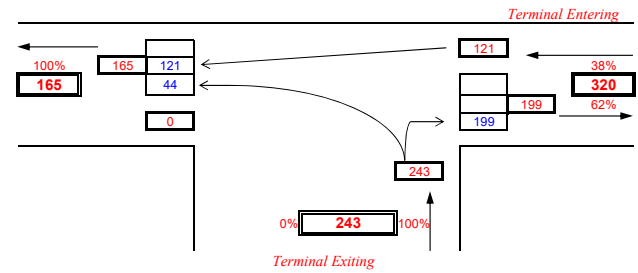
2023 AM Volumes



2023 Mid-Day Volumes



2023 PM Volumes



PROJECT: LEX Traffic Forecast

ITEM NUMBER:

ACCOUNT NUMBER:

REQUEST DATE:

ANALYST: Josh Coburn

SCENARIO: 2041 ADT No Build Volumes at Peak Hour

INTERSECTION: Int #2 (Air Freight Drive at Rental Car)

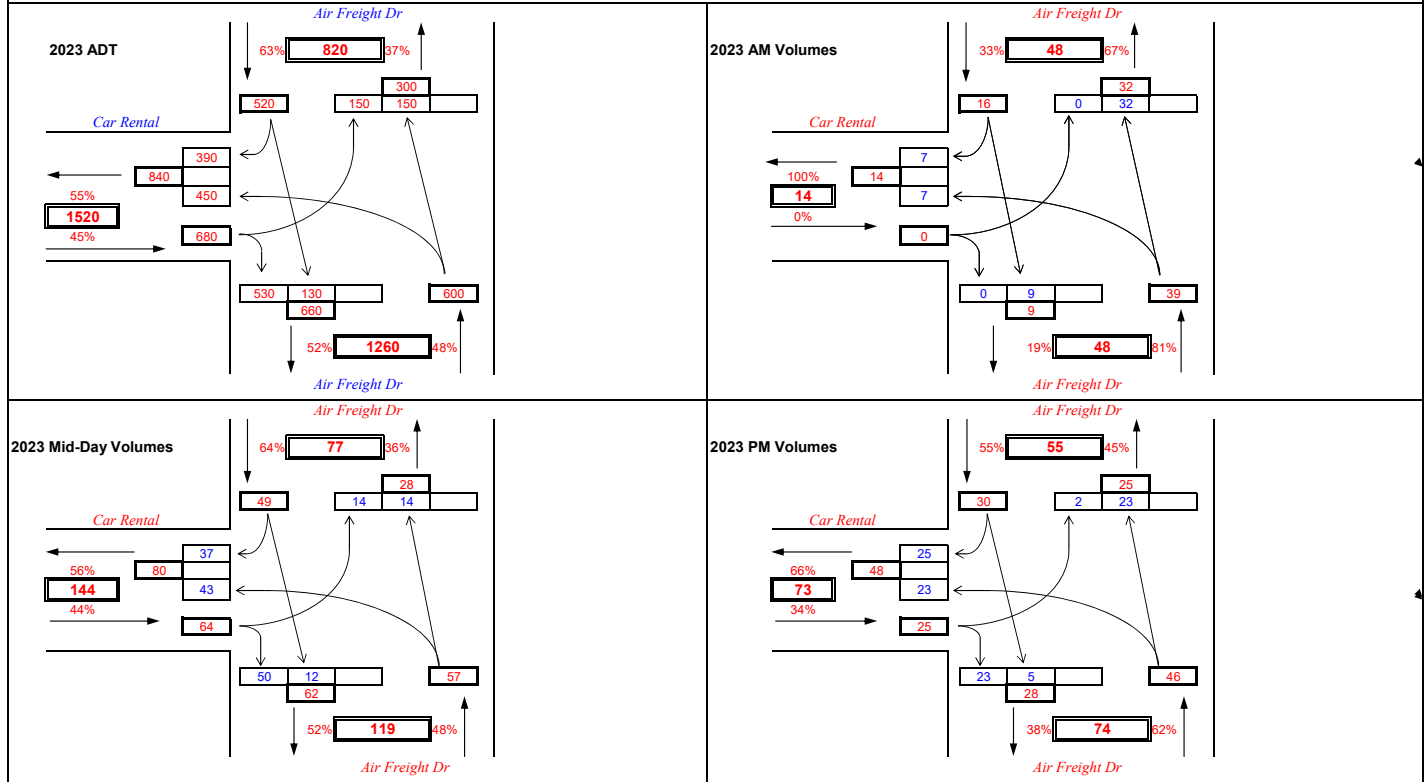


TABLE 3. BLUEGRASS AIRPORT DWELL TIMES				
Sample #	Date	Arrival Time	Entrance (A or B)	Dwell
1	29-Dec	0:07	A	1min 16sec
2	29-Dec	7:39:52	A	22min 37sec
3	29-Dec	8:19:56	A	4min
4	29-Dec	8:54:19	A	19min 40sec
5	29-Dec	10:15:32	A	29sec
6	29-Dec	11:00:27	A	6min 50sec
7	29-Dec	12:09:01	A	3min 35sec
8	29-Dec	13:14:30	A	4min 36sec
9	29-Dec	15:34:56	A	9min 46sec
10	29-Dec	16:58:43	A	23min 28sec
11	29-Dec	18:55:05	A	21min 11sec
12	29-Dec	19:25:50	A	2min 20sec
13	29-Dec	20:49:50	A	32min 20sec
14	29-Dec	21:53:05	A	1min 42sec
15	29-Dec	22:54:10	A	1min 22sec
16	29-Dec	0:54	B	1min 8sec
17	29-Dec	4:30:52	B	2min 16sec
18	29-Dec	5:06:35	B	1min 51sec
19	29-Dec	6:20:18	B	7min 38sec
20	29-Dec	7:46:45	B	1min 24sec
21	29-Dec	8:57:20	B	3min 11sec
22	29-Dec	10:26:58	B	2min 12sec
23	29-Dec	11:45:26	B	31sec
24	29-Dec	13:01:28	B	5min 28sec
25	29-Dec	15:06:30	B	1min 34sec
26	29-Dec	16:03:22	B	49sec
27	29-Dec	17:02:30	B	15min 30sec
28	29-Dec	18:16:36	B	1min 42sec
29	29-Dec	19:23:28	B	2min 12sec
30	29-Dec	21:11:16	B	12min 10sec
31	30-Dec	0:01	A	3min 46sec
32	30-Dec	4:30	A	3min 55sec
33	30-Dec	7:16:18	A	57sec
34	30-Dec	8:51:02	A	1min 26sec
35	30-Dec	10:17:06	A	13min 18sec
36	30-Dec	11:45:32	A	26min 20sec
37	30-Dec	13:08:24	A	14min 2sec
38	30-Dec	14:44:56	A	2min 40sec
39	30-Dec	16:01:16	A	6min 12sec
40	30-Dec	17:18:40	A	5min 18sec
41	30-Dec	18:45:32	A	8min 30sec
42	30-Dec	20:06:28	A	9min 44sec
43	30-Dec	21:22:12	A	30sec
44	30-Dec	22:02:42	A	21min 20sec
45	30-Dec	23:01:52	A	1min 38sec

Sample #	Date	Arrival Time	Entrance (A or B)	Dwell
46	30-Dec	0:23:36	B	2min 44sec
47	30-Dec	4:07:54	B	5min 22sec
48	30-Dec	5:32:04	B	1min 2sec
49	30-Dec	6:45:28	B	6min 42sec
50	30-Dec	8:02:40	B	13min 18sec
51	30-Dec	9:33:48	B	2min 18sec
52	30-Dec	10:52:48	B	2min 58sec
53	30-Dec	12:19:36	B	3min 28sec
54	30-Dec	13:53:50	B	8min 28sec
55	30-Dec	15:18:38	B	2min 59sec
56	30-Dec	16:54:16	B	4min 26sec
57	30-Dec	18:23:30	B	12min 44sec
58	30-Dec	20:16:42	B	2min 16sec
59	30-Dec	21:41	B	42min
60	30-Dec	23:41:24	B	1hour 56sec
61	31-Dec	0:23:36	A	15min 12sec
62	31-Dec	4:40:48	A	7min 24sec
63	31-Dec	6:58:40	A	2min
64	31-Dec	8:19:00	A	28min 32sec
65	31-Dec	9:36:50	A	9min 24sec
66	31-Dec	10:52:08	A	2min 58sec
67	31-Dec	12:04:20	A	1min 56sec
68	31-Dec	13:29:26	A	14min 20sec
69	31-Dec	15:12:42	A	2min 58sec
70	31-Dec	16:04:32	A	1min 6sec
71	31-Dec	17:08:52	A	8min 24sec
72	31-Dec	18:15:44	A	15min 4sec
73	31-Dec	19:08:28	A	35min 58sec
74	31-Dec	20:02:26	A	33min 56sec
75	31-Dec	21:03:46	A	45 min 34sec
76	31-Dec	22:03:50	A	22min
77	31-Dec	23:21:24	A	42min 40sec
78	31-Dec	0:22:54	B	15min 54sec
79	31-Dec	4:24:58	B	8min 10sec
80	31-Dec	5:53:20	B	1min 40sec
81	31-Dec	7:16:54	B	2min 20sec
82	31-Dec	8:50:54	B	1min 44sec
83	31-Dec	10:04:26	B	2min 40sec
84	31-Dec	11:27:36	B	30min 20sec
85	31-Dec	12:55:20	B	1min 44sec
86	31-Dec	14:08:22	B	5min 14sec
87	31-Dec	16:11:36	B	54sec
88	31-Dec	17:41:16	B	22sec
89	31-Dec	19:00:12	B	3min 2sec
90	31-Dec	20:39:50	B	5min 50sec
91	31-Dec	22:04:54	B	46sec

Sample #	Date	Arrival Time	Entrance (A or B)	Dwell
92	31-Dec	22:23:46	B	5min 44sec
93	1-Jan	0:03:08	A	46min 22sec
94	1-Jan	4:32:30	A	14min 18sec
95	1-Jan	7:05:34	A	1min 50sec
96	1-Jan	8:29:16	A	8min 38sec
97	1-Jan	9:36:50	A	19min 30sec
98	1-Jan	11:05:08	A	17min 6sec
99	1-Jan	12:08:04	A	18sec
100	1-Jan	13:36:10	A	2min 22sec
101	1-Jan	15:24:00	A	1min
102	1-Jan	16:35:16	A	16min 38sec
103	1-Jan	18:09:16	A	18min 2sec
104	1-Jan	19:09:50	A	8min
105	1-Jan	20:11:36	A	11min
106	1-Jan	21:33:24	A	5min 16sec
107	1-Jan	23:25:00	A	32min 20sec
108	1-Jan	0:24:50	B	10min 58sec
109	1-Jan	4:01:26	B	1min 22sec
110	1-Jan	5:22:58	B	1min
111	1-Jan	7:02:20	B	2min 6sec
112	1-Jan	8:48:56	B	1min 58sec
113	1-Jan	10:09:04	B	1min 56sec
114	1-Jan	11:30:56	B	30sec
115	1-Jan	12:54:00	B	7min 16sec
116	1-Jan	14:07:54	B	1min 14sec
117	1-Jan	15:51:16	B	10min 10sec
118	1-Jan	17:17:32	B	2min 48sec
119	1-Jan	18:12:18	B	2min 10sec
120	1-Jan	19:21:46	B	9min 20sec
121	1-Jan	20:46:38	B	4min 14sec
122	1-Jan	22:21:42	B	10min 52sec
123	2-Jan	0:02:18	A	1min 14sec
124	2-Jan	4:28:38	A	1min 42sec
125	2-Jan	5:43:38	A	18min 46sec
126	2-Jan	7:35:18	A	9min 36sec
127	2-Jan	9:03:35	A	20sec
128	2-Jan	10:37:04	A	1min 46sec
129	2-Jan	12:04:30	A	2min
130	2-Jan	13:31:34	A	3min 52sec
131	2-Jan	15:19:08	A	2min 42sec
132	2-Jan	16:01:10	A	34sec
133	2-Jan	17:11:26	A	8min 36sec
134	2-Jan	18:14:26	A	7min 12sec
135	2-Jan	19:07:08	A	2min 58sec
136	2-Jan	20:02:10	A	24min 30sec
137	2-Jan	0:11:50	B	2min 36sec

Sample #	Date	Arrival Time	Entrance (A or B)	Dwell
138	2-Jan	4:17:10	B	2min 40sec
139	2-Jan	5:24:20	B	1min 58sec
140	2-Jan	6:42:12	B	41min 28sec
141	2-Jan	8:03:40	B	10min 16sec
142	2-Jan	9:09:36	B	4min 16sec
143	2-Jan	10:02:02	B	1min 38sec
144	2-Jan	11:33:44	B	5min
145	2-Jan	12:47:02	B	1min 26sec
146	2-Jan	14:30:38	B	2min
147	2-Jan	16:10:16	B	7min 8sec
148	2-Jan	17:02:22	B	5min 22sec
149	2-Jan	18:02:44	B	1min 14sec
150	2-Jan	19:03:10	B	50sec
151	2-Jan	20:01:28	B	1min 32sec
152	4-Jan	0:12:38	A	20min 58sec
153	4-Jan	4:00:22	A	33min 36sec
154	4-Jan	6:45:16	A	47min 54sec
155	4-Jan	8:22:56	A	13min 56sec
156	4-Jan	9:48:18	A	2min 36sec
157	4-Jan	11:19:56	A	58min 40sec
158	4-Jan	12:51:00	A	12min
159	4-Jan	14:10:36	A	2min 50sec
160	4-Jan	15:53:42	A	13min 8sec
161	4-Jan	17:14:36	A	3min 2sec
162	4-Jan	18:16:04	A	26min 10sec
163	4-Jan	19:07:54	A	36min 4sec
164	4-Jan	20:12:44	A	7min 48sec
165	4-Jan	21:26:54	A	8min 38sec
166	4-Jan	23:07:58	A	7min 36sec
167	4-Jan	0:36:24	B	9min 40sec
168	4-Jan	4:25:34	B	1min 58sec
169	4-Jan	6:04:28	B	4min 46sec
170	4-Jan	7:35:48	B	7min 4sec
171	4-Jan	9:22:16	B	1min 42sec
172	4-Jan	10:44:44	B	1min 40sec
173	4-Jan	12:01:56	B	26min 2sec
174	4-Jan	13:24:26	B	24min 58sec
175	4-Jan	15:08:24	B	3min 10sec
176	4-Jan	16:23:52	B	2min 6sec
177	4-Jan	17:47:30	B	56sec
178	4-Jan	19:18:26	B	13min 24sec
179	4-Jan	20:53:14	B	1min 38sec
180	4-Jan	21:34:38	B	1min 50sec
181	4-Jan	23:30:30	B	10min 28sec
Average Dwell Time (min)				9.58

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

Airport Main Intersection
12/31/2022
Clear

File Name : 12 31 22(24hr)
Site Code : 00000000
Start Date : 12/31/2022
Page No : 1

Groups Printed- Passenger - Shuttle - Heavy Trucks																						
	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound						
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total	
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	2	0	0	2	4	
*** BREAK ***																						
01:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	6	0	0	6	8	
01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
Total	0	0	0	0	0	0	1	0	0	1	0	0	3	0	3	0	9	0	0	9	13	
02:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3	
*** BREAK ***																						
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3	
03:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2	
03:15 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3	
03:30 AM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	5	
03:45 AM	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	8	
Total	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	0	4	0	0	4	18	
04:00 AM	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	3	0	0	3	13	
04:15 AM	0	0	0	0	0	0	27	0	0	27	0	0	7	0	7	0	10	0	0	10	44	
04:30 AM	0	0	0	0	0	0	36	0	0	36	0	0	4	0	4	0	22	0	0	22	62	
04:45 AM	0	0	0	0	0	0	47	0	0	47	0	0	7	0	7	0	30	0	0	30	84	
Total	0	0	0	0	0	0	120	0	0	120	0	0	18	0	18	0	65	0	0	65	203	
05:00 AM	0	0	0	0	0	0	34	0	0	34	0	0	5	0	5	0	24	0	0	24	63	
05:15 AM	0	0	0	0	0	0	13	0	0	13	0	0	2	0	2	0	10	0	0	10	25	
05:30 AM	0	0	0	0	0	0	22	0	0	22	0	0	3	0	3	0	11	0	0	11	36	
05:45 AM	0	0	0	0	0	0	17	0	0	17	0	0	1	0	1	0	17	0	0	17	35	
Total	0	0	0	0	0	0	86	0	0	86	0	0	11	0	11	0	62	0	0	62	159	
06:00 AM	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0	10	0	0	10	31	
06:15 AM	0	0	0	0	0	0	13	0	0	13	0	0	3	0	3	0	19	0	0	19	35	

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400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

Page No : 2

Groups Printed- Passenger - Shuttle - Heavy Trucks

Start Time	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
06:30 AM	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	23
06:45 AM	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	8	0	0	8	18
Total	0	0	0	0	0	0	56	0	0	56	0	0	3	0	3	0	48	0	0	48	107
07:00 AM	0	0	0	0	0	0	16	0	0	16	0	0	2	0	2	0	12	0	0	12	30
07:15 AM	0	0	0	0	0	0	18	0	0	18	0	0	1	0	1	0	11	0	0	11	30
07:30 AM	0	0	0	0	0	0	16	0	0	16	0	0	3	0	3	0	14	0	0	14	33
07:45 AM	0	0	0	0	0	0	33	0	0	33	0	0	3	0	3	0	17	0	0	17	53
Total	0	0	0	0	0	0	83	0	0	83	0	0	9	0	9	0	54	0	0	54	146
08:00 AM	0	0	0	0	0	0	27	0	0	27	0	0	1	0	1	0	23	0	0	23	51
08:15 AM	0	0	0	0	0	0	24	0	0	24	0	0	3	0	3	0	10	0	0	10	37
08:30 AM	0	0	0	0	0	0	15	0	0	15	0	0	1	0	1	0	27	0	0	27	43
08:45 AM	0	0	0	0	0	0	17	0	0	17	0	0	4	0	4	0	45	0	0	45	66
Total	0	0	0	0	0	0	83	0	0	83	0	0	9	0	9	0	105	0	0	105	197
09:00 AM	0	0	0	0	0	0	16	0	0	16	0	0	7	0	7	0	19	0	0	19	42
09:15 AM	0	0	0	0	0	0	13	0	0	13	0	0	9	0	9	0	10	0	0	10	32
09:30 AM	0	0	0	0	0	0	30	0	0	30	0	0	7	0	7	0	10	0	0	10	47
09:45 AM	0	0	0	0	0	0	26	0	0	26	0	0	2	0	2	0	28	0	0	28	56
Total	0	0	0	0	0	0	85	0	0	85	0	0	25	0	25	0	67	0	0	67	177
10:00 AM	0	0	0	0	0	0	27	0	0	27	0	0	7	0	7	0	22	0	0	22	56
10:15 AM	0	0	0	0	0	0	30	0	0	30	0	0	1	0	1	0	17	0	0	17	48
10:30 AM	0	0	0	0	0	0	33	0	0	33	0	0	5	0	5	0	41	0	0	41	79
10:45 AM	0	0	0	0	0	0	24	0	0	24	0	0	8	0	8	0	29	0	0	29	61
Total	0	0	0	0	0	0	114	0	0	114	0	0	21	0	21	0	109	0	0	109	244
11:00 AM	0	0	0	0	0	0	27	0	0	27	0	0	6	0	6	0	23	0	0	23	56
11:15 AM	0	0	0	0	0	0	49	0	0	49	0	0	4	0	4	0	26	0	0	26	79
11:30 AM	0	0	0	0	0	0	42	0	0	42	0	0	5	0	5	0	43	0	0	43	90
11:45 AM	0	0	0	0	0	0	35	0	0	35	0	0	10	0	10	0	68	0	0	68	113
Total	0	0	0	0	0	0	153	0	0	153	0	0	25	0	25	0	160	0	0	160	338
12:00 PM	0	0	0	0	0	0	53	0	0	53	0	0	6	0	6	0	37	0	0	37	96

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

Page No : 3

Groups Printed- Passenger - Shuttle - Heavy Trucks

Start Time	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
12:15 PM	0	0	0	0	0	0	31	0	0	31	0	0	4	0	4	0	30	0	0	30	65
12:30 PM	0	0	0	0	0	0	43	0	0	43	0	0	6	0	6	0	60	0	0	60	109
12:45 PM	0	0	0	0	0	0	38	0	0	38	0	0	3	0	3	0	33	0	0	33	74
Total	0	0	0	0	0	0	165	0	0	165	0	0	19	0	19	0	160	0	0	160	344
01:00 PM	0	0	0	0	0	0	33	0	0	33	0	0	3	0	3	0	27	0	0	27	63
01:15 PM	0	0	0	0	0	0	44	0	0	44	0	0	6	0	6	0	25	0	0	25	75
01:30 PM	0	0	0	0	0	0	49	0	0	49	0	0	8	0	8	0	49	0	0	49	106
01:45 PM	0	0	0	0	0	0	32	0	0	32	0	0	6	0	6	0	55	0	0	55	93
Total	0	0	0	0	0	0	158	0	0	158	0	0	23	0	23	0	156	0	0	156	337
02:00 PM	0	0	0	0	0	0	41	0	0	41	0	0	7	0	7	0	23	0	0	23	71
02:15 PM	0	0	0	0	0	0	37	0	0	37	0	0	11	0	11	0	59	0	0	59	107
02:30 PM	0	0	0	0	0	0	33	0	0	33	0	0	10	0	10	0	42	0	0	42	85
02:45 PM	0	0	0	0	0	0	30	0	0	30	0	0	12	0	12	0	19	0	0	19	61
Total	0	0	0	0	0	0	141	0	0	141	0	0	40	0	40	0	143	0	0	143	324
03:00 PM	0	0	0	0	0	0	18	0	0	18	0	0	7	0	7	0	42	0	0	42	67
03:15 PM	0	0	0	0	0	0	16	0	0	16	0	0	5	0	5	0	42	0	0	42	63
03:30 PM	0	0	0	0	0	0	16	0	0	16	0	0	9	0	9	0	15	0	0	15	40
03:45 PM	0	0	0	0	0	0	18	0	0	18	0	0	4	0	4	0	13	0	0	13	35
Total	0	0	0	0	0	0	68	0	0	68	0	0	25	0	25	0	112	0	0	112	205
04:00 PM	0	0	0	0	0	0	8	0	0	8	0	0	3	0	3	0	22	0	0	22	33
04:15 PM	0	0	0	0	0	0	16	0	0	16	0	0	1	0	1	0	19	0	0	19	36
04:30 PM	0	0	0	0	0	0	20	0	0	20	0	0	3	0	3	0	13	0	0	13	36
04:45 PM	0	0	0	0	0	0	22	0	0	22	0	0	6	0	6	0	20	0	0	20	48
Total	0	0	0	0	0	0	66	0	0	66	0	0	13	0	13	0	74	0	0	74	153
05:00 PM	0	0	0	0	0	0	17	0	0	17	0	0	3	0	3	0	16	0	0	16	36
05:15 PM	0	0	0	0	0	0	16	0	0	16	0	0	6	0	6	0	19	0	0	19	41
05:30 PM	0	0	0	0	0	0	12	0	0	12	0	0	2	0	2	0	41	0	0	41	55
05:45 PM	0	0	0	0	0	0	17	0	0	17	0	0	2	0	2	0	16	0	0	16	35
Total	0	0	0	0	0	0	62	0	0	62	0	0	13	0	13	0	92	0	0	92	167

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

Page No : 4

Groups Printed- Passenger - Shuttle - Heavy Trucks

Start Time	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
06:00 PM	0	0	0	0	0	0	8	0	0	8	0	0	3	0	3	0	14	0	0	14	25
06:15 PM	0	0	0	0	0	0	12	0	0	12	0	0	2	0	2	0	11	0	0	11	25
06:30 PM	0	0	0	0	0	0	12	0	0	12	0	0	2	0	2	0	15	0	0	15	29
06:45 PM	0	0	0	0	0	0	25	0	0	25	0	0	3	0	3	0	17	0	0	17	45
Total	0	0	0	0	0	0	57	0	0	57	0	0	10	0	10	0	57	0	0	57	124
07:00 PM	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	16	0	0	16	29
07:15 PM	0	0	0	0	0	0	25	0	0	25	0	0	2	0	2	0	17	0	0	17	44
07:30 PM	0	0	0	0	0	0	27	0	0	27	0	0	3	0	3	0	39	0	0	39	69
07:45 PM	0	0	0	0	0	0	19	0	0	19	0	0	1	0	1	0	19	0	0	19	39
Total	0	0	0	0	0	0	84	0	0	84	0	0	6	0	6	0	91	0	0	91	181
08:00 PM	0	0	0	0	0	0	27	0	0	27	0	0	6	0	6	0	33	0	0	33	66
08:15 PM	0	0	0	0	0	0	11	0	0	11	0	0	1	0	1	0	16	0	0	16	28
08:30 PM	0	0	0	0	0	0	9	0	0	9	0	0	1	0	1	0	16	0	0	16	26
08:45 PM	0	0	0	0	0	0	12	0	0	12	0	0	1	0	1	0	16	0	0	16	29
Total	0	0	0	0	0	0	59	0	0	59	0	0	9	0	9	0	81	0	0	81	149
09:00 PM	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0	10	0	0	10	25
09:15 PM	0	0	0	0	0	0	21	0	0	21	0	0	3	0	3	0	8	0	0	8	32
09:30 PM	0	0	0	0	0	0	16	0	0	16	0	0	4	0	4	0	7	0	0	7	27
09:45 PM	0	0	0	0	0	0	10	0	0	10	0	0	9	0	9	0	37	0	0	37	56
Total	0	0	0	0	0	0	62	0	0	62	0	0	16	0	16	0	62	0	0	62	140
10:00 PM	0	0	0	0	0	0	17	0	0	17	0	0	16	0	16	0	41	0	0	41	74
10:15 PM	0	0	0	0	0	0	17	0	0	17	0	0	12	0	12	0	44	0	0	44	73
10:30 PM	0	0	0	0	0	0	12	0	0	12	0	0	3	0	3	0	43	0	0	43	58
10:45 PM	0	0	0	0	0	0	8	0	0	8	0	0	1	0	1	0	27	0	0	27	36
Total	0	0	0	0	0	0	54	0	0	54	0	0	32	0	32	0	155	0	0	155	241
11:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	9	0	0	9	11
11:15 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	4
11:30 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	4
11:45 PM	0	0	0	0	0	0	14	0	0	14	0	0	1	0	1	0	3	0	0	3	18
Total	0	0	0	0	0	0	19	0	0	19	0	0	2	0	2	0	16	0	0	16	37
Grand Total	0	0	0	0	0	0	1791	0	0	1791	0	0	332	0	332	0	1884	0	0	1884	4007
Apprch %	0	0	0	0	0	0	100	0	0	100	0	0	100	0	100	0	100	0	0	100	
Total %	0	0	0	0	0	0	44.7	0	0	44.7	0	0	8.3	0	8.3	0	47	0	0	47	

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

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Groups Printed- Passenger - Shuttle - Heavy Trucks																					
	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Passenger	0	0	0	0	0	0	1770	0	0	1770	0	0	331	0	331	0	1883	0	0	1883	3984
% Passenger	0	0	0	0	0	0	98.8	0	0	98.8	0	0	99.7	0	99.7	0	99.9	0	0	99.9	99.4
Shuttle	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	0	0	0	0	20
% Shuttle	0	0	0	0	0	0	1.1	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0.5
Heavy Trucks	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	3
% Heavy Trucks	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0.3	0	0.3	0	0.1	0	0	0.1	0.1

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

Page No : 6

	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 04:00 AM to 07:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 AM																					
04:15 AM	0	0	0	0	0	0	27	0	0	27	0	0	7	0	7	0	10	0	0	10	44
04:30 AM	0	0	0	0	0	0	36	0	0	36	0	0	4	0	4	0	22	0	0	22	62
04:45 AM	0	0	0	0	0	0	47	0	0	47	0	0	7	0	7	0	30	0	0	30	84
05:00 AM	0	0	0	0	0	0	34	0	0	34	0	0	5	0	5	0	24	0	0	24	63
Total Volume	0	0	0	0	0	0	144	0	0	144	0	0	23	0	23	0	86	0	0	86	253
% App. Total	0	0	0	0		0	100	0	0		0	0	100	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.766	.000	.000	.766	.000	.000	.821	.000	.821	.000	.717	.000	.000	.717	.753
Passenger	0	0	0	0	0	0	142	0	0	142	0	0	23	0	23	0	86	0	0	86	251
% Passenger	0	0	0	0	0	0	98.6	0	0	98.6	0	0	100	0	100	0	100	0	0	100	99.2
Shuttle	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
% Shuttle	0	0	0	0	0	0	1.4	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0.8
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Analysis From 12:00 PM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:00 PM																					
12:00 PM	0	0	0	0	0	0	53	0	0	53	0	0	6	0	6	0	37	0	0	37	96
12:15 PM	0	0	0	0	0	0	31	0	0	31	0	0	4	0	4	0	30	0	0	30	65
12:30 PM	0	0	0	0	0	0	43	0	0	43	0	0	6	0	6	0	60	0	0	60	109
12:45 PM	0	0	0	0	0	0	38	0	0	38	0	0	3	0	3	0	33	0	0	33	74
Total Volume	0	0	0	0	0	0	165	0	0	165	0	0	19	0	19	0	160	0	0	160	344
% App. Total	0	0	0	0		0	100	0	0		0	0	100	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.778	.000	.000	.778	.000	.000	.792	.000	.792	.000	.667	.000	.000	.667	.789
Passenger	0	0	0	0	0	0	161	0	0	161	0	0	19	0	19	0	160	0	0	160	340
% Passenger	0	0	0	0	0	0	97.6	0	0	97.6	0	0	100	0	100	0	100	0	0	100	98.8
Shuttle	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	4
% Shuttle	0	0	0	0	0	0	2.4	0	0	2.4	0	0	0	0	0	0	0	0	0	0	1.2
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : 12 31 22(24hr)

Site Code : 00000000

Start Date : 12/31/2022

Page No : 7

	Loop Southbound					Terminal Westbound					Loop Northbound					Terminal Eastbound					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 05:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 03:00 PM																					
03:00 PM	0	0	0	0	0	0	18	0	0	18	0	0	7	0	7	0	42	0	0	42	67
03:15 PM	0	0	0	0	0	0	16	0	0	16	0	0	5	0	5	0	42	0	0	42	63
03:30 PM	0	0	0	0	0	0	16	0	0	16	0	0	9	0	9	0	15	0	0	15	40
03:45 PM	0	0	0	0	0	0	18	0	0	18	0	0	4	0	4	0	13	0	0	13	35
Total Volume	0	0	0	0	0	0	68	0	0	68	0	0	25	0	25	0	112	0	0	112	205
% App. Total	0	0	0	0	0	0	100	0	0	100	0	0	100	0	100	0	100	0	0	100	100
PHF	.000	.000	.000	.000	.000	.000	.944	.000	.000	.944	.000	.000	.694	.000	.694	.000	.667	.000	.000	.667	.765
Passenger	0	0	0	0	0	0	67	0	0	67	0	0	25	0	25	0	112	0	0	112	204
% Passenger	0	0	0	0	0	0	98.5	0	0	98.5	0	0	100	0	100	0	100	0	0	100	99.5
Shuttle	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
% Shuttle	0	0	0	0	0	0	1.5	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0.5
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

Air Freight Dr Rental Entrance
12/31/2022
Clear

File Name : Rental Entrance 12 31 2022updated
Site Code : 00000000
Start Date : 12/31/2022
Page No : 1

Groups Printed- Passenger - Heavy Trucks - Shuttle																						
	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound						
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total	
03:45 AM	1	0	0	0	1	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	12	
Total	1	0	0	0	1	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	12	
*** BREAK ***																						
04:15 AM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6	
04:30 AM	1	1	0	0	2	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	7	
04:45 AM	2	0	0	0	2	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	6	
Total	4	2	0	0	6	0	0	0	0	0	0	11	2	0	13	0	0	0	0	0	19	
05:00 AM	0	3	0	0	3	0	0	0	0	0	0	7	2	0	9	0	0	0	0	0	12	
05:15 AM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4	
05:30 AM	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	6	
05:45 AM	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Total	3	4	0	0	7	0	0	0	0	0	0	15	3	0	18	0	0	0	0	0	25	
06:00 AM	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3	
06:15 AM	1	3	0	0	4	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	6	
06:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	4	
06:45 AM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	5	
Total	2	7	0	0	9	0	0	0	0	0	0	5	3	0	8	1	0	0	0	1	18	
07:00 AM	1	1	0	0	2	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	5	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	1	3	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	5	
07:45 AM	0	1	0	0	1	0	0	0	0	0	0	2	3	0	5	0	0	0	0	0	6	
Total	1	2	0	0	3	0	0	0	0	0	0	5	9	0	14	2	0	0	0	2	19	
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	5	
08:15 AM	1	0	0	0	1	0	0	0	0	0	0	1	4	0	5	2	0	0	0	2	8	
08:30 AM	2	0	0	0	2	0	0	0	0	0	0	2	4	0	6	3	0	1	0	4	12	

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : Rental Entrance 12 31 2022updated

Site Code : 00000000

Start Date : 12/31/2022

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Groups Printed- Passenger - Heavy Trucks - Shuttle																						
	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound						
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total	
08:45 AM	1	3	0	0	4	0	0	0	0	0	0	4	3	0	7	2	0	1	0	3	14	
Total	4	3	0	0	7	0	0	0	0	0	0	9	13	0	22	8	0	2	0	10	39	
09:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	4	0	4	4	0	0	0	4	9	
09:15 AM	3	3	0	0	6	0	0	0	0	0	0	2	1	0	3	3	0	1	0	4	13	
09:30 AM	2	1	0	0	3	0	0	0	0	0	0	6	1	0	7	0	0	1	0	1	11	
09:45 AM	1	1	0	0	2	0	0	0	0	0	0	5	4	0	9	1	0	2	0	3	14	
Total	7	5	0	0	12	0	0	0	0	0	0	13	10	0	23	8	0	4	0	12	47	
10:00 AM	3	3	0	0	6	0	0	0	0	0	0	5	2	0	7	3	0	1	0	4	17	
10:15 AM	4	1	0	0	5	0	0	0	0	0	0	3	2	0	5	2	0	1	0	3	13	
10:30 AM	4	3	0	0	7	0	0	0	0	0	0	5	5	0	10	0	0	0	0	0	17	
10:45 AM	5	2	0	0	7	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	11	
Total	16	9	0	0	25	0	0	0	0	0	0	15	11	0	26	5	0	2	0	7	58	
11:00 AM	3	1	0	0	4	0	0	0	0	0	0	2	5	0	7	2	0	0	0	2	13	
11:15 AM	5	4	0	0	9	0	0	0	0	0	0	7	2	0	9	3	0	1	0	4	22	
11:30 AM	3	2	0	0	5	0	0	0	0	0	0	12	3	0	15	5	0	1	0	6	26	
11:45 AM	2	2	0	0	4	0	0	0	0	0	0	7	4	0	11	3	0	0	0	3	18	
Total	13	9	0	0	22	0	0	0	0	0	0	28	14	0	42	13	0	2	0	15	79	
12:00 PM	2	4	0	0	6	0	0	0	0	0	0	1	7	0	8	4	0	1	0	5	19	
12:15 PM	8	2	0	0	10	0	0	0	0	0	0	1	3	0	4	6	0	1	0	7	21	
12:30 PM	5	0	0	0	5	0	0	0	0	0	0	2	9	0	11	11	0	4	0	15	31	
12:45 PM	6	1	0	0	7	0	0	0	0	0	0	4	5	0	9	7	0	2	0	9	25	
Total	21	7	0	0	28	0	0	0	0	0	0	8	24	0	32	28	0	8	0	36	96	
01:00 PM	1	0	0	0	1	0	0	0	0	0	0	2	6	0	8	4	0	0	0	4	13	
01:15 PM	4	1	0	0	5	0	0	0	0	0	0	3	7	0	10	2	0	0	0	2	17	
01:30 PM	4	2	0	0	6	0	0	0	0	0	0	4	3	0	7	7	0	1	0	8	21	
01:45 PM	4	3	0	0	7	0	0	0	0	0	0	5	3	0	8	6	0	2	0	8	23	
Total	13	6	0	0	19	0	0	0	0	0	0	14	19	0	33	19	0	3	0	22	74	
02:00 PM	3	0	0	0	3	0	0	0	0	0	0	4	4	0	8	4	0	0	0	4	15	

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

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Site Code : 00000000

Start Date : 12/31/2022

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Groups Printed- Passenger - Heavy Trucks - Shuttle

Start Time	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
02:15 PM	3	0	0	0	3	0	0	0	0	0	0	3	0	0	3	2	0	4	0	6	12
02:30 PM	2	0	0	0	2	0	0	0	0	0	0	4	0	0	4	3	0	1	0	4	10
02:45 PM	5	2	0	0	7	0	0	0	0	0	0	3	2	0	5	3	0	2	0	5	17
Total	13	2	0	0	15	0	0	0	0	0	0	14	6	0	20	12	0	7	0	19	54
03:00 PM	4	2	0	0	6	0	0	0	0	0	0	2	4	0	6	3	0	1	0	4	16
03:15 PM	3	0	0	0	3	0	0	0	0	0	0	1	3	0	4	4	0	0	0	4	11
03:30 PM	4	1	0	0	5	0	0	0	0	0	0	7	2	0	9	2	0	0	0	2	16
03:45 PM	3	0	0	0	3	0	0	0	0	0	0	3	4	0	7	4	0	0	0	4	14
Total	14	3	0	0	17	0	0	0	0	0	0	13	13	0	26	13	0	1	0	14	57
04:00 PM	6	2	0	0	8	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	12
04:15 PM	3	3	0	0	6	0	0	0	0	0	0	2	1	0	3	3	0	0	0	3	12
04:30 PM	6	2	0	0	8	0	0	0	0	0	0	5	3	0	8	2	0	0	0	2	18
04:45 PM	7	3	0	0	10	0	0	0	0	0	0	4	2	0	6	3	0	2	0	5	21
Total	22	10	0	0	32	0	0	0	0	0	0	14	6	0	20	8	0	3	0	11	63
05:00 PM	5	4	0	0	9	0	0	0	0	0	0	4	3	0	7	4	0	3	0	7	23
05:15 PM	2	4	0	0	6	0	0	0	0	0	0	6	3	0	9	3	0	1	0	4	19
05:30 PM	6	2	0	0	8	0	0	0	0	0	0	0	0	0	0	3	0	2	0	5	13
05:45 PM	2	0	0	0	2	0	0	0	0	0	0	1	0	0	1	3	0	2	0	5	8
Total	15	10	0	0	25	0	0	0	0	0	0	11	6	0	17	13	0	8	0	21	63
06:00 PM	1	0	0	0	1	0	0	0	0	0	0	3	3	0	6	4	0	0	0	4	11
06:15 PM	1	1	0	0	2	0	0	0	0	0	0	0	3	0	3	1	0	0	0	1	6
06:30 PM	10	2	0	0	12	0	0	0	0	0	0	4	5	0	9	2	0	0	0	2	23
06:45 PM	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	2	0	2	0	4	9
Total	12	6	0	0	18	0	0	0	0	0	0	8	12	0	20	9	0	2	0	11	49
07:00 PM	2	2	0	0	4	0	0	0	0	0	0	3	3	0	6	1	0	1	0	2	12
07:15 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	6
07:30 PM	4	0	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
07:45 PM	2	3	0	0	5	0	0	0	0	0	0	1	0	0	1	1	0	2	0	3	9
Total	9	6	0	0	15	0	0	0	0	0	0	7	3	0	10	6	0	3	0	9	34

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : Rental Entrance 12 31 2022updated

Site Code : 00000000

Start Date : 12/31/2022

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Groups Printed- Passenger - Heavy Trucks - Shuttle																					
	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
08:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
08:15 PM	3	0	0	0	3	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	8
08:30 PM	2	0	0	0	2	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2	5
08:45 PM	1	1	0	0	2	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	8
Total	6	2	0	0	8	0	0	0	0	0	0	6	6	0	12	4	0	0	0	4	24
09:00 PM	1	0	0	0	1	0	0	0	0	0	0	0	3	0	3	2	0	0	0	2	6
09:15 PM	1	0	0	0	1	0	0	0	0	0	0	1	2	0	3	3	0	0	0	3	7
09:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	1	0	2	5
09:45 PM	1	1	0	0	2	0	0	0	0	0	0	3	2	0	5	1	0	0	0	1	8
Total	3	1	0	0	4	0	0	0	0	0	0	7	7	0	14	7	0	1	0	8	26
10:00 PM	3	0	0	0	3	0	0	0	0	0	0	5	1	0	6	0	0	1	0	1	10
10:15 PM	3	4	0	0	7	0	0	0	0	0	0	2	1	0	3	1	0	1	0	2	12
10:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	1	0	1	4
10:45 PM	3	2	0	0	5	0	0	0	0	0	0	1	4	0	5	5	0	2	0	7	17
Total	9	7	0	0	16	0	0	0	0	0	0	9	7	0	16	6	0	5	0	11	43
11:00 PM	2	1	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	5
Grand Total	190	102	0	0	292	0	0	0	0	0	0	224	174	0	398	162	0	52	0	214	904
Approch %	65.1	34.9	0	0		0	0	0	0	0	0	56.3	43.7	0		75.7	0	24.3	0		
Total %	21	11.3	0	0	32.3	0	0	0	0	0	0	24.8	19.2	0	44	17.9	0	5.8	0	23.7	
Passenger	190	102	0	0	292	0	0	0	0	0	0	224	174	0	398	162	0	52	0	214	904
% Passenger	100	100	0	0	100	0	0	0	0	0	0	100	100	0	100	100	0	100	0	100	100
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : Rental Entrance 12 31 2022updated

Site Code : 00000000

Start Date : 12/31/2022

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	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 04:15 AM to 05:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 AM																					
04:15 AM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
04:30 AM	1	1	0	0	2	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	7
04:45 AM	2	0	0	0	2	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	6
05:00 AM	0	3	0	0	3	0	0	0	0	0	0	7	2	0	9	0	0	0	0	0	12
Total Volume	4	5	0	0	9	0	0	0	0	0	0	18	4	0	22	0	0	0	0	0	31
% App. Total	44.4	55.6	0	0		0	0	0	0	0	0	81.8	18.2	0		0	0	0	0	0	
PHF	.500	.417	.000	.000	.750	.000	.000	.000	.000	.000	.000	.643	.500	.000	.611	.000	.000	.000	.000	.000	.646
Passenger	4	5	0	0	9	0	0	0	0	0	0	18	4	0	22	0	0	0	0	0	31
% Passenger	100	100	0	0	100	0	0	0	0	0	0	100	100	0	100	0	0	0	0	0	100
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour Analysis From 12:00 PM to 12:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:00 PM																					
12:00 PM	2	4	0	0	6	0	0	0	0	0	0	1	7	0	8	4	0	1	0	5	19
12:15 PM	8	2	0	0	10	0	0	0	0	0	0	1	3	0	4	6	0	1	0	7	21
12:30 PM	5	0	0	0	5	0	0	0	0	0	0	2	9	0	11	11	0	4	0	15	31
12:45 PM	6	1	0	0	7	0	0	0	0	0	0	4	5	0	9	7	0	2	0	9	25
Total Volume	21	7	0	0	28	0	0	0	0	0	0	8	24	0	32	28	0	8	0	36	96
% App. Total	75	25	0	0		0	0	0	0	0	0	25	75	0		77.8	0	22.2	0		
PHF	.656	.438	.000	.000	.700	.000	.000	.000	.000	.000	.000	.500	.667	.000	.727	.636	.000	.500	.000	.600	.774
Passenger	21	7	0	0	28	0	0	0	0	0	0	8	24	0	32	28	0	8	0	36	96
% Passenger	100	100	0	0	100	0	0	0	0	0	0	100	100	0	100	100	0	100	0	100	100
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Palmer Engineering

400 Shoppers Drive
Winchester, KY 40391

File Name : Rental Entrance 12 31 2022updated

Site Code : 00000000

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	Air Freight Southbound					Entrance Westbound					Air Freight Northbound					Entrance Eastbound					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 03:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 03:00 PM																					
03:00 PM	4	2	0	0	6	0	0	0	0	0	0	2	4	0	6	3	0	1	0	4	16
03:15 PM	3	0	0	0	3	0	0	0	0	0	0	1	3	0	4	4	0	0	0	4	11
03:30 PM	4	1	0	0	5	0	0	0	0	0	0	7	2	0	9	2	0	0	0	2	16
03:45 PM	3	0	0	0	3	0	0	0	0	0	0	3	4	0	7	4	0	0	0	4	14
Total Volume	14	3	0	0	17	0	0	0	0	0	0	13	13	0	26	13	0	1	0	14	57
% App. Total	82.4	17.6	0	0		0	0	0	0	0	0	50	50	0		92.9	0	7.1	0		
PHF	.875	.375	.000	.000	.708	.000	.000	.000	.000	.000	.000	.464	.813	.000	.722	.813	.000	.250	.000	.875	.891
Passenger	14	3	0	0	17	0	0	0	0	0	0	13	13	0	26	13	0	1	0	14	57
% Passenger	100	100	0	0	100	0	0	0	0	0	0	100	100	0	100	100	0	100	0	100	100
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Shuttle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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