

City of Glendale
Development Services Department
Planning Division

Failed
 Conditionally Approved
 Approved

CUP24-08 Queuing Memorandum

Sydney Tirella
BY _____ DATE 1/23/2025

67th+Bell JITB Queuing Study

Queuing Study

Prepared for

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President

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Prepared by



Submitted to
City of Glendale



2nd Submittal
January 16, 2025

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GTE Project No.: 241108

Transportation has no further comments

1 INTRODUCTION

This queuing statement was prepared for the proposed Jack In The Box, located on the southeast corner of Bell Road and 67th Avenue, in Glendale, AZ (Project). This Project is a redevelopment of a Boston Market building that will be adding a drive-through lane. The Project is part of a larger commercial development with various land uses. This Project will include a 2,003 square feet (SF) building, as a restaurant with a drive-through land use. The Project location is shown in Figure 1.

The purpose of this study is to estimate the potential drive-through queues associated with the Project and address any potential onsite circulation concerns. This study has been completed to satisfy the City's planning-level technical report requirements for new development.

Figure 1: Project Site Location



2 Proposed Site Conditions

2.1 Site Access, Circulation and Parking

The layout of the proposed building and parking is shown on the Site Plan in Attachment A.

Primary access to the Project is provided via one right-in/right-out access driveway off of Bell Road and one right-in/right-out access driveway off of 67th Avenue. Access to the Project will also be possible through internal circulation of the larger commercial development.

The drive-through entrance is located on the northwest side of the building. Vehicles will enter the single drive-through lane from a drive aisle on the northwest side of the site. The drive-through will circulate in a counterclockwise direction along the west and south sides of the building. The pickup window is located on the southeast side of the building.

29 parking spaces are shown on the site plan, including 2 ADA-accessible spaces. 2 of the parking spaces are to be used for online ordering/delivery as shown on the site plan in Attachment A.

3 QUEUING DATA COLLECTION AND ANALYSIS

The Project will include a single drive-through lane with a queue storage length of approximately 155 feet.

Vehicles will enter the single drive-through lane near the northwest corner of the building. The single drive-through lane continues on the west and south sides of the building until the service window on the southeast side of the building.

A queue analysis was performed using queuing data obtained from existing Jack In The Box’s in Glendale, and Peoria, Arizona by Field Data of Services (FDS). The information on the queuing data collected by FDS is provided below.

- Locations:
 - 9152 W Glendale Ave, Glendale, AZ 85305
 - 7425 W Cactus Rd, Peoria, AZ 85381
- Data Collection Times
 - Friday, December 6, 2024
 - Saturday, December 7, 2024
- Data Collection Times
 - 6 AM – 9 AM, 11 AM – 2 PM, 3 PM – 7 PM (Friday)
 - 11 AM – 2 PM, 3 PM – 7 PM(Saturday)
- Queue Count Frequency Increment
 - 1 minute

The observed queuing data is provided in Attachment B. Scoping correspondence with the City for queuing data collection is provided in Attachment C.

The queuing data collected at similar Jack in the Box’s is summarized below in Table 1.

Table 1: Queuing Data Summary

No.	Location	Friday			Saturday		
		Max Queue	95 th -Percentile	85 th -Percentile	Max Queue	95 th -Percentile	85 th -Percentile
1	9152 W Glendale Ave, Glendale, AZ 85305	6	4	3	6	4	3
2	7425 W Cactus Rd, Peoria, AZ 85381	6	5	4	6	5	3
	Max	6	5	4	6	5	3
	Queue Length @ 25' per vehicle	150'	125'	100'	150'	125'	75'

The queuing data shows a maximum queue of 6 vehicles, a maximum 95th-percentile queue of 5 vehicles, and a maximum 85th-percentile queue of 4 vehicles.

With the assumption of 25 feet of queuing space per vehicle, the maximum vehicle queue length needed would be 150 feet. Based on the collected queue data and queue length calculations, the proposed queue storage of 155 feet is sufficient to accommodate the maximum queue storage length expected.

4 Conclusions

The following conclusions are made based on the findings of the Project queuing statement:

1. The queuing data collected shows a maximum queue of 6 vehicles, a maximum 95th-percentile queue of 5 vehicles, and a maximum 85th-percentile queue of 4 vehicles for the two days that were observed.
2. Using a 25-foot average vehicle length, the average maximum queue length is calculated at 150 feet, the maximum 95th-percentile queue length is calculated at 125 feet, and the maximum 85th-percentile queue length is calculated at 100 feet.
3. Based on the collected queue data and queue length calculations, the proposed queue storage at the proposed site of 155 feet will accommodate the maximum queue expected.

5 RECOMMENDATIONS

In summary, the proposed Project is expected to have minimal impacts on the overall commercial development and adjacent roadway network. The following recommendations were developed based on the findings of the Project queuing statement:

1. Design and construction of the proposed Project improvements should conform to the City of Glendale's design standards, as applicable.

Attachments:

- A – Jack in the Box Site Plan
- B – Existing Glendale and Peoria Queuing Data
- C – Scoping Correspondence with the City

ATTACHMENTS

ATTACHMENT A

ATTACHMENT B

QUEUE STUDY

		FRIDAY				SATURDAY			
		Friday, December 6, 2024		Friday, December 6, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024	
		Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further
06:00:00 AM	0	0	0	11:00:00 AM	1	0	03:00:00 PM	1	0
06:01:00 AM	0	0	0	11:01:00 AM	0	0	03:01:00 PM	1	0
06:02:00 AM	0	0	0	11:02:00 AM	2	0	03:02:00 PM	1	0
06:03:00 AM	0	0	0	11:03:00 AM	2	0	03:03:00 PM	2	0
06:04:00 AM	0	0	0	11:04:00 AM	1	0	03:04:00 PM	1	0
06:05:00 AM	1	0	0	11:05:00 AM	1	0	03:05:00 PM	2	0
06:06:00 AM	1	0	0	11:06:00 AM	1	0	03:06:00 PM	2	0
06:07:00 AM	1	0	0	11:07:00 AM	4	0	03:07:00 PM	2	0
06:08:00 AM	2	0	0	11:08:00 AM	3	0	03:08:00 PM	2	0
06:09:00 AM	2	0	0	11:09:00 AM	2	0	03:09:00 PM	2	0
06:10:00 AM	2	0	0	11:10:00 AM	2	0	03:10:00 PM	2	0
06:11:00 AM	1	0	0	11:11:00 AM	2	0	03:11:00 PM	3	0
06:12:00 AM	2	0	0	11:12:00 AM	1	0	03:12:00 PM	2	0
06:13:00 AM	2	0	0	11:13:00 AM	1	0	03:13:00 PM	1	0
06:14:00 AM	1	0	0	11:14:00 AM	2	0	03:14:00 PM	2	0
06:15:00 AM	1	0	0	11:15:00 AM	2	0	03:15:00 PM	2	0
06:16:00 AM	0	0	0	11:16:00 AM	0	0	03:16:00 PM	2	0
06:17:00 AM	0	0	0	11:17:00 AM	1	0	03:17:00 PM	3	0
06:18:00 AM	0	0	0	11:18:00 AM	1	0	03:18:00 PM	3	0
06:19:00 AM	1	0	0	11:19:00 AM	1	0	03:19:00 PM	2	0
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06:26:00 AM	1	0	0	11:26:00 AM	3	0	03:26:00 PM	1	0
06:27:00 AM	1	0	0	11:27:00 AM	2	0	03:27:00 PM	2	0
06:28:00 AM	1	0	0	11:28:00 AM	0	0	03:28:00 PM	2	0
06:29:00 AM	0	0	0	11:29:00 AM	0	0	03:29:00 PM	1	0
06:30:00 AM	1	0	0	11:30:00 AM	1	0	03:30:00 PM	4	1
06:31:00 AM	1	0	0	11:31:00 AM	1	0	03:31:00 PM	3	1
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06:45:00 AM	2	0	0	11:45:00 AM	0	0	03:45:00 PM	3	0
06:46:00 AM	2	0	0	11:46:00 AM	1	0	03:46:00 PM	2	0
06:47:00 AM	1	0	0	11:47:00 AM	1	0	03:47:00 PM	1	0
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08:11:00 AM	2	0	0	01:11:00 PM	1	0	05:11:00 PM	1	0
08:12:00 AM	2	0	0	01:12:00 PM	1	0	05:12:00 PM	0	0
08:13:00 AM	1	0	0	01:					

Location: Jack in the Box -- 9152 W Glendale Ave, Glendale, AZ 85308

Project #: 24-1624-001

QUEUE STUDY

	FRIDAY						SATURDAY							
	Friday, December 6, 2024		Friday, December 6, 2024		Friday, December 6, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024			
	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further		
08:28:00 AM	1	0	01:28:00 PM	0	0	05:28:00 PM	0	0	01:28:00 PM	1	0	05:28:00 PM	1	0
08:29:00 AM	1	0	01:29:00 PM	0	0	05:29:00 PM	0	0	01:29:00 PM	1	0	05:29:00 PM	0	0
08:30:00 AM	0	0	01:30:00 PM	1	0	05:30:00 PM	1	0	01:30:00 PM	1	0	05:30:00 PM	0	0
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08:55:00 AM	0	0	01:55:00 PM	0	0	05:55:00 PM	0	0	01:55:00 PM	1	0	05:55:00 PM	1	0
08:56:00 AM	2	0	01:56:00 PM	1	0	05:56:00 PM	0	0	01:56:00 PM	1	0	05:56:00 PM	1	0
08:57:00 AM	3	0	01:57:00 PM	1	0	05:57:00 PM	0	0	01:57:00 PM	1	0	05:57:00 PM	1	0
08:58:00 AM	2	0	01:58:00 PM	2	0	05:58:00 PM	1	0	01:58:00 PM	0	0	05:58:00 PM	1	0
08:59:00 AM	2	0	01:59:00 PM	0	0	05:59:00 PM	1	0	01:59:00 PM	0	0	05:59:00 PM	1	0
			06:00:00 PM	1	0	06:00:00 PM	1	0	06:00:00 PM	0	0	06:00:00 PM	0	0
			06:01:00 PM	2	0	06:01:00 PM	2	0	06:01:00 PM	1	0	06:01:00 PM	1	0
			06:02:00 PM	2	0	06:02:00 PM	2	0	06:02:00 PM	1	0	06:02:00 PM	1	0
			06:03:00 PM	2	0	06:03:00 PM	1	0	06:03:00 PM	1	0	06:03:00 PM	1	0
			06:04:00 PM	1	0	06:04:00 PM	1	0	06:04:00 PM	1	0	06:04:00 PM	1	0
			06:05:00 PM	1	0	06:05:00 PM	1	0	06:05:00 PM	1	0	06:05:00 PM	1	0
			06:06:00 PM	0	0	06:06:00 PM	0	0	06:06:00 PM	3	0	06:06:00 PM	3	0
			06:07:00 PM	0	0	06:07:00 PM	0	0	06:07:00 PM	4	0	06:07:00 PM	4	0
			06:08:00 PM	0	0	06:08:00 PM	0	0	06:08:00 PM	5	0	06:08:00 PM	5	0
			06:09:00 PM	1	0	06:09:00 PM	1	0	06:09:00 PM	4	0	06:09:00 PM	4	0
			06:10:00 PM	1	0	06:10:00 PM	1	0	06:10:00 PM	3	0	06:10:00 PM	3	0
			06:11:00 PM	1	0	06:11:00 PM	1	0	06:11:00 PM	5	0	06:11:00 PM	5	0
			06:12:00 PM	0	0	06:12:00 PM	0	0	06:12:00 PM	6	0	06:12:00 PM	6	0
			06:13:00 PM	1	0	06:13:00 PM	1	0	06:13:00 PM	5	0	06:13:00 PM	5	0
			06:14:00 PM	2	0	06:14:00 PM	2	0	06:14:00 PM	3	0	06:14:00 PM	3	0
			06:15:00 PM	2	0	06:15:00 PM	2	0	06:15:00 PM	3	0	06:15:00 PM	3	0
			06:16:00 PM	2	0	06:16:00 PM	2	0	06:16:00 PM	3	0	06:16:00 PM	3	0
			06:17:00 PM	2	0	06:17:00 PM	2	0	06:17:00 PM	3	0	06:17:00 PM	3	0
			06:18:00 PM	2	0	06:18:00 PM	2	0	06:18:00 PM	3	0	06:18:00 PM	3	0
			06:19:00 PM	1	0	06:19:00 PM	1	0	06:19:00 PM	2	0	06:19:00 PM	2	0
			06:20:00 PM	0	0	06:20:00 PM	0	0	06:20:00 PM	1	0	06:20:00 PM	1	0
			06:21:00 PM	0	0	06:21:00 PM	0	0	06:21:00 PM	2	0	06:21:00 PM	2	0
			06:22:00 PM	0	0	06:22:00 PM	0	0	06:22:00 PM	2	0	06:22:00 PM	2	0
			06:23:00 PM	0	0	06:23:00 PM	0	0	06:23:00 PM	1	0	06:23:00 PM	1	0
			06:24:00 PM	1	0	06:24:00 PM	1	0	06:24:00 PM	0	0	06:24:00 PM	0	0
			06:25:00 PM	2	1	06:25:00 PM	2	1	06:25:00 PM	0	0	06:25:00 PM	0	0
			06:26:00 PM	1	1	06:26:00 PM	1	1	06:26:00 PM	0	0	06:26:00 PM	0	0
			06:27:00 PM	2	0	06:27:00 PM	2	0	06:27:00 PM	1	0	06:27:00 PM	1	0
			06:28:00 PM	2	1	06:28:00 PM	2	1	06:28:00 PM	1	0	06:28:00 PM	1	0
			06:29:00 PM	3	0	06:29:00 PM	3	0	06:29:00 PM	0	0	06:29:00 PM	0	0
			06:30:00 PM	3	0	06:30:00 PM	3	0	06:30:00 PM	0	0	06:30:00 PM	0	0
			06:31:00 PM	2	0	06:31:00 PM	2	0	06:31:00 PM	0	0	06:31:00 PM	0	0
			06:32:00 PM	1	0	06:32:00 PM	1	0	06:32:00 PM	1	0	06:32:00 PM	1	0
			06:33:00 PM	1	0	06:33:00 PM	1	0	06:33:00 PM	1	0	06:33:00 PM	1	0
			06:34:00 PM	2	0	06:34:00 PM	2	0	06:34:00 PM	1	0	06:34:00 PM	1	0
			06:35:00 PM	1	0	06:35:00 PM	1	0	06:35:00 PM	1	0	06:35:00 PM	1	0
			06:36:00 PM	2	0	06:36:00 PM	2	0	06:36:00 PM	0	0	06:36:00 PM	0	0
			06:37:00 PM	2	0	06:37:00 PM	2	0	06:37:00 PM	0	0	06:37:00 PM	0	0
			06:38:00 PM	1	0	06:38:00 PM	1	0	06:38:00 PM	0	0	06:38:00 PM	0	0
			06:39:00 PM	1	0	06:39:00 PM	1	0	06:39:00 PM	1	0	06:39:00 PM	1	0
			06:40:00 PM	2	0	06:40:00 PM	2	0	06:40:00 PM	1	0	06:40:00 PM	1	0
			06:41:00 PM	2	0	06:41:00 PM	2	0	06:41:00 PM	1	0	06:41:00 PM	1	0
			06:42:00 PM	2	0	06:42:00 PM	2	0	06:42:00 PM	1	0	06:42:00 PM	1	0
			06:43:00 PM	2	1	06:43:00 PM	2	1	06:43:00 PM	2	1	06:43:00 PM	2	1
			06:44:00 PM	3	1	06:44:00 PM	3	1	06:44:00 PM	3	0	06:44:00 PM	3	0
			06:45:00 PM	2	0	06:45:00 PM	2	0	06:45:00 PM	3	0	06:45:00 PM	3	0
			06:46:00 PM	2	0	06:46:00 PM	2	0	06:46:00 PM	2	1	06:46:00 PM	2	1
			06:47:00 PM	3	0	06:47:00 PM	3	0	06:47:00 PM	2	0	06:47:00 PM	2	0
			06:48:00 PM	4	1	06:48:00 PM	4	1	06:48:00 PM	2	0	06:48:00 PM	2	0
			06:49:00 PM	4	0	06:49:00 PM	4	0	06:49:00 PM	0	0	06:49:00 PM	0	0
			06:50:00 PM	4	0	06:50:00 PM	4	0	06:50:00 PM	0	0	06:50:00 PM	0	0
			06:51:00 PM	4	0	06:51:00 PM	4	0	06:51:00 PM	0	0	06:51:00 PM	0	0
			06:52:00 PM	3	0	06:52:00 PM	3	0	06:52:00 PM	0	0	06:52:00 PM	0	0
			06:53:00 PM	2	0	06:53:00 PM	2	0	06:53:00 PM	1	0	06:53:00 PM	1	0
			06:54:00 PM	1	0	06:54:00 PM	1	0	06:54:00 PM	1	0	06:54:00 PM	1	0
			06:55:00 PM	2	1	06:55:00 PM	2	1	06:55:00 PM	2	0	06:55:00 PM	2	0
			06:56:00 PM	3	0	06:56:00 PM	3	0	06:56:00 PM	2	0	06:56:00 PM	2	0
			06:57:00 PM	4	0	06:57:00 PM	4	0	06:57:00 PM	2	0	06:57:00 PM	2	0
			06:58:00 PM	5	0	06:58:00 PM	5	0	06:58:00 PM	2	0	06:58:00 PM	2	0
			06:59:00 PM	4	0	06:59:00 PM	4	0	06:59:00 PM	1	0	06:59:00 PM	1	0

Max queue

Location: Jack in the Box -- 7425 W Cactus Rd, Peoria, AZ 85381

QUEUE STUDY

		FRIDAY				SATURDAY			
		Friday, December 6, 2024		Friday, December 6, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024	
		Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further
06:00:00 AM	0	0	0	03:00:00 PM	1	0	11:00:00 AM	1	0
06:01:00 AM	0	0	0	03:01:00 PM	1	0	11:01:00 AM	1	0
06:02:00 AM	0	0	0	03:02:00 PM	1	0	11:02:00 AM	1	0
06:03:00 AM	0	0	0	03:03:00 PM	1	0	11:03:00 AM	1	0
06:04:00 AM	0	0	0	03:04:00 PM	1	0	11:04:00 AM	1	0
06:05:00 AM	0	0	0	03:05:00 PM	1	0	11:05:00 AM	1	0
06:06:00 AM	0	0	0	03:06:00 PM	1	0	11:06:00 AM	0	0
06:07:00 AM	0	0	0	03:07:00 PM	0	0	11:07:00 AM	0	0
06:08:00 AM	1	0	0	03:08:00 PM	1	0	11:08:00 AM	0	0
06:09:00 AM	1	0	0	03:09:00 PM	1	0	11:09:00 AM	0	0
06:10:00 AM	1	0	0	03:10:00 PM	1	0	11:10:00 AM	0	0
06:11:00 AM	2	0	0	03:11:00 PM	2	0	11:11:00 AM	0	0
06:12:00 AM	2	0	0	03:12:00 PM	3	0	11:12:00 AM	1	0
06:13:00 AM	2	0	0	03:13:00 PM	3	0	11:13:00 AM	1	0
06:14:00 AM	2	0	0	03:14:00 PM	3	0	11:14:00 AM	1	0
06:15:00 AM	2	0	0	03:15:00 PM	3	0	11:15:00 AM	1	0
06:16:00 AM	2	0	0	03:16:00 PM	4	1	11:16:00 AM	1	0
06:17:00 AM	3	0	0	03:17:00 PM	4	1	11:17:00 AM	1	0
06:18:00 AM	3	0	0	03:18:00 PM	4	1	11:18:00 AM	2	0
06:19:00 AM	3	0	0	03:19:00 PM	4	1	11:19:00 AM	2	0
06:20:00 AM	3	0	0	03:20:00 PM	4	0	11:20:00 AM	2	0
06:21:00 AM	3	0	0	03:21:00 PM	4	0	11:21:00 AM	2	0
06:22:00 AM	3	0	0	03:22:00 PM	4	0	11:22:00 AM	2	0
06:23:00 AM	3	0	0	03:23:00 PM	4	0	11:23:00 AM	2	0
06:24:00 AM	0	0	0	03:24:00 PM	4	0	11:24:00 AM	1	0
06:25:00 AM	0	0	0	03:25:00 PM	4	0	11:25:00 AM	1	0
06:26:00 AM	0	0	0	03:26:00 PM	4	0	11:26:00 AM	1	0
06:27:00 AM	0	0	0	03:27:00 PM	4	0	11:27:00 AM	1	0
06:28:00 AM	0	0	0	03:28:00 PM	3	0	11:28:00 AM	2	0
06:29:00 AM	0	0	0	03:29:00 PM	3	0	11:29:00 AM	2	0
06:30:00 AM	0	0	0	03:30:00 PM	3	0	11:30:00 AM	2	0
06:31:00 AM	1	0	0	03:31:00 PM	3	0	11:31:00 AM	2	0
06:32:00 AM	1	0	0	03:32:00 PM	2	0	11:32:00 AM	3	0
06:33:00 AM	1	0	0	03:33:00 PM	2	0	11:33:00 AM	3	0
06:34:00 AM	1	0	0	03:34:00 PM	2	0	11:34:00 AM	3	0
06:35:00 AM	1	0	0	03:35:00 PM	1	0	11:35:00 PM	3	0
06:36:00 AM	1	0	0	03:36:00 PM	0	0	11:36:00 AM	3	0
06:37:00 AM	1	0	0	03:37:00 PM	1	0	11:37:00 AM	3	0
06:38:00 AM	1	0	0	03:38:00 PM	1	0	11:38:00 AM	2	0
06:39:00 AM	1	0	0	03:39:00 PM	1	0	11:39:00 AM	2	0
06:40:00 AM	1	0	0	03:40:00 PM	0	0	11:40:00 AM	2	0
06:41:00 AM	1	0	0	03:41:00 PM	1	0	11:41:00 AM	2	0
06:42:00 AM	1	0	0	03:42:00 PM	0	0	11:42:00 AM	2	0
06:43:00 AM	0	0	0	03:43:00 PM	0	0	11:43:00 AM	2	0
06:44:00 AM	0	0	0	03:44:00 PM	0	0	11:44:00 AM	2	0
06:45:00 AM	0	0	0	03:45:00 PM	0	0	11:45:00 AM	2	0
06:46:00 AM	0	0	0	03:46:00 PM	0	0	11:46:00 AM	1	0
06:47:00 AM	0	0	0	03:47:00 PM	0	0	11:47:00 AM	0	0
06:48:00 AM	0	0	0	03:48:00 PM	0	0	11:48:00 AM	0	0
06:49:00 AM	0	0	0	03:49:00 PM	0	0	11:49:00 AM	0	0
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06:52:00 AM	1	0	0	03:52:00 PM	0	0	11:52:00 AM	1	0
06:53:00 AM	1	0	0	03:53:00 PM	1	0	11:53:00 AM	1	0
06:54:00 AM	1	0	0	03:54:00 PM	1	0	11:54:00 AM	2	0
06:55:00 AM	1	0	0	03:55:00 PM	0	0	11:55:00 AM	2	0
06:56:00 AM	2	0	0	03:56:00 PM	0	0	11:56:00 AM	2	0
06:57:00 AM	1	0	0	03:57:00 PM	0	0	11:57:00 AM	1	0
06:58:00 AM	1	0	0	03:58:00 PM	2	0	11:58:00 AM	1	0
06:59:00 AM	1	0	0	03:59:00 PM	3	0	11:59:00 AM	1	0
07:00:00 AM	1	0	0	04:00:00 PM	3	0	12:00:00 PM	3	0
07:01:00 AM	1	0	0	04:01:00 PM	3	0	12:01:00 PM	1	0
07:02:00 AM	1	0	0	04:02:00 PM	3	0	12:02:00 PM	2	0
07:03:00 AM	0	0	0	04:03:00 PM	3	0	12:03:00 PM	2	0
07:04:00 AM	0	0	0	04:04:00 PM	3	0	12:04:00 PM	2	0
07:05:00 AM	0	0	0	04:05:00 PM	3	0	12:05:00 PM	2	0
07:06:00 AM	0	0	0	04:06:00 PM	3	0	12:06:00 PM	2	0
07:07:00 AM	0	0	0	04:07:00 PM	2	0	12:07:00 PM	2	0
07:08:00 AM	0	0	0	04:08:00 PM	2	0	12:08:00 PM	3	0
07:09:00 AM	1	0	0	04:09:00 PM	2	0	12:09:00 PM	3	0
07:10:00 AM	1	0	0	04:10:00 PM	2	0	12:10:00 PM	3	0
07:11:00 AM	2	0	0	04:11:00 PM	2	0	12:11:00 PM	2	0
07:12:00 AM	1	0	0	04:12:00 PM	2	0	12:12:00 PM	2	0
07:13:00 AM	1	0	0	04:13:00 PM	2	0	12:13:00 PM	2	0
07:14:00 AM	1	0	0	04:14:00 PM	1	0	12:14:00 PM	2	0
07:15:00 AM	1	0	0	04:15:00 PM	1	0	12:15:00 PM	2	0
07:16:00 AM	0	0	0	04:16:00 PM	1	0	12:16:00 PM	1	0
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07:18:00 AM	1	0	0	04:18:00 PM	3	0	12:18:00 PM	1	0
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07:20:00 AM	2	0	0	04:20:00 PM	3	2	12:20:00 PM	1	0
07:21:00 AM	3	0	0	04:21:00 PM	4	1	12:21:00 PM	0	0
07:22:00 AM	3	0	0	04:22:00 PM	4	1	12:22:00 PM	0	0
07:23:00 AM	2	0	0	04:23:00 PM	4	2	12:23:00 PM	0	0
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07:26:00 AM	0	0	0	04:26:00 PM	5	0	12:26:00 PM	1	0
07:27:00 AM	0	0	0	04:27:00 PM	5	0	12:27:00 PM	1	0
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07:29:00 AM	0	0	0	04:29:00 PM	5	0	12:29:00 PM	1	0
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07:31:00 AM	1	0	0	04:31:00 PM	5	0	12:31:00 PM	2	0
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07:36:00 AM	3	0	0	04:36:00 PM	4	0	12:36:00 PM	3	0
07:37:00 AM	3	0	0	04:37:00 PM	3	0	12:37:00 PM	3	0
07:38:00 AM	3	0	0	04:38:00 PM	3	0	12:38:00 PM	3	0
07:39:00 AM	3	1	0	04:39:00 PM	3	0	12:39:00 PM	3	0
07:40:00 AM	4	0	0	04:40:00 PM	1	0	12:40:00 PM	5	0
07:41:00 AM	4	0	0	04:41:00 PM	0	0	12:41:00 PM	5	0
07:42:00 AM	3	0	0	04:42:00 PM	0	0	12:42:00 PM	5	0
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07:46:00 AM	3	0	0	04:46:00 PM	1	0	12:46:00 PM	1	0
07:47:00 AM	3	0	0	04:47:00 PM	2	0	12:47:00 PM	1	0
07:48:00 AM	3	0	0	04:48:00 PM	3	0	12:48:00 PM	1	0
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07:50:00 AM	0	0	0	04:50:00 PM	2	0	12:50:00 PM	2	0
07:51:00 AM	0	0	0	04:51:00 PM	2	0	12:51:00 PM	2	0
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07:53:00 AM	0	0	0	04:53:00 PM	2	0	12:53:00 PM	2	0
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07:55:00 AM	2	0	0	04:55:00 PM	2	0	12:55:00 PM	2	0
07:56:00 AM	2	0	0	04:56:00 PM	2	0	12:56:00 PM	2	0
07:57:00 AM	2	0	0	04:57:00 PM	0	0	12:57:00 PM	3	0
07:58:00 AM	3	0	0	04:58:00 PM	1	0	12:58:00 PM	3	0
07:59:00 AM	2	0	0	04:59:00 PM	1	0	12:59:00 PM	3	0
08:00:00 AM	1	0	0	05:00:00 PM	1	0	01:00:00 PM	3	0
08:01:00 AM	0	0	0	05:01:00 PM	1	0	01:01:00 PM	3	0
08:02:00 AM	1	0	0	05:02:00 PM	0	0	01:02:00 PM	2	0
08:03:00 AM	2	0	0	05:03:00 PM	0	0	01:03:00 PM	2	0
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08:07:00 AM	1	0	0	05:07:00 PM	1	0	01:07:00 PM	2	0
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08:11:00 AM	2	0	0	05:11:00 PM	2	0	01:11:00 PM	1	0
08:12:00 AM	1	0	0	05:12:00 PM	2	0	01:12:00 PM	1	0
08:13:00 AM	0	0	0	05:13:00 PM	3	0	01:13:00 PM		

QUEUE STUDY

	FRIDAY						SATURDAY							
	Friday, December 6, 2024		Friday, December 6, 2024		Friday, December 6, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024		Saturday, December 7, 2024			
	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further	Drive thru	Further		
08:28:00 AM	3	0	01:28:00 PM	1	0	05:28:00 PM	2	0	01:28:00 PM	2	0	05:28:00 PM	0	0
08:29:00 AM	3	0	01:29:00 PM	1	0	05:29:00 PM	2	0	01:29:00 PM	2	0	05:29:00 PM	0	0
08:30:00 AM	3	0	01:30:00 PM	0	0	05:30:00 PM	1	0	01:30:00 PM	2	0	05:30:00 PM	0	0
08:31:00 AM	3	0	01:31:00 PM	0	0	05:31:00 PM	3	0	01:31:00 PM	2	0	05:31:00 PM	1	0
08:32:00 AM	2	0	01:32:00 PM	1	0	05:32:00 PM	3	0	01:32:00 PM	1	0	05:32:00 PM	1	0
08:33:00 AM	3	0	01:33:00 PM	1	0	05:33:00 PM	3	0	01:33:00 PM	1	0	05:33:00 PM	1	0
08:34:00 AM	2	0	01:34:00 PM	2	0	05:34:00 PM	3	0	01:34:00 PM	1	0	05:34:00 PM	1	0
08:35:00 AM	3	0	01:35:00 PM	2	0	05:35:00 PM	4	0	01:35:00 PM	1	0	05:35:00 PM	1	0
08:36:00 AM	3	0	01:36:00 PM	2	0	05:36:00 PM	4	0	01:36:00 PM	1	0	05:36:00 PM	1	0
08:37:00 AM	3	0	01:37:00 PM	1	0	05:37:00 PM	4	0	01:37:00 PM	1	0	05:37:00 PM	1	0
08:38:00 AM	1	0	01:38:00 PM	1	0	05:38:00 PM	4	0	01:38:00 PM	1	0	05:38:00 PM	1	0
08:39:00 AM	0	0	01:39:00 PM	1	0	05:39:00 PM	4	0	01:39:00 PM	2	0	05:39:00 PM	1	0
08:40:00 AM	0	0	01:40:00 PM	1	0	05:40:00 PM	5	0	01:40:00 PM	2	0	05:40:00 PM	1	0
08:41:00 AM	0	0	01:41:00 PM	2	0	05:41:00 PM	5	0	01:41:00 PM	2	0	05:41:00 PM	1	0
08:42:00 AM	0	0	01:42:00 PM	1	0	05:42:00 PM	5	0	01:42:00 PM	2	0	05:42:00 PM	1	0
08:43:00 AM	0	0	01:43:00 PM	1	0	05:43:00 PM	5	1	01:43:00 PM	2	0	05:43:00 PM	1	0
08:44:00 AM	0	0	01:44:00 PM	2	0	05:44:00 PM	4	1	01:44:00 PM	2	0	05:44:00 PM	1	0
08:45:00 AM	1	0	01:45:00 PM	2	0	05:45:00 PM	5	0	01:45:00 PM	2	0	05:45:00 PM	2	0
08:46:00 AM	1	0	01:46:00 PM	2	0	05:46:00 PM	5	0	01:46:00 PM	1	0	05:46:00 PM	1	0
08:47:00 AM	1	0	01:47:00 PM	3	0	05:47:00 PM	5	0	01:47:00 PM	1	0	05:47:00 PM	1	0
08:48:00 AM	0	0	01:48:00 PM	2	0	05:48:00 PM	4	0	01:48:00 PM	1	0	05:48:00 PM	2	0
08:49:00 AM	0	0	01:49:00 PM	1	0	05:49:00 PM	4	0	01:49:00 PM	1	0	05:49:00 PM	2	0
08:50:00 AM	0	0	01:50:00 PM	1	0	05:50:00 PM	3	0	01:50:00 PM	0	0	05:50:00 PM	2	0
08:51:00 AM	0	0	01:51:00 PM	1	0	05:51:00 PM	2	0	01:51:00 PM	0	0	05:51:00 PM	2	0
08:52:00 AM	0	0	01:52:00 PM	0	0	05:52:00 PM	2	0	01:52:00 PM	1	0	05:52:00 PM	2	0
08:53:00 AM	0	0	01:53:00 PM	2	0	05:53:00 PM	2	0	01:53:00 PM	1	0	05:53:00 PM	2	0
08:54:00 AM	1	0	01:54:00 PM	2	0	05:54:00 PM	3	0	01:54:00 PM	1	0	05:54:00 PM	1	0
08:55:00 AM	1	0	01:55:00 PM	2	0	05:55:00 PM	3	0	01:55:00 PM	1	0	05:55:00 PM	1	0
08:56:00 AM	1	0	01:56:00 PM	3	0	05:56:00 PM	3	0	01:56:00 PM	2	0	05:56:00 PM	1	0
08:57:00 AM	1	0	01:57:00 PM	3	0	05:57:00 PM	3	0	01:57:00 PM	2	0	05:57:00 PM	1	0
08:58:00 AM	0	0	01:58:00 PM	3	0	05:58:00 PM	3	0	01:58:00 PM	3	0	05:58:00 PM	1	0
08:59:00 AM	0	0	01:59:00 PM	2	0	05:59:00 PM	3	0	01:59:00 PM	3	0	05:59:00 PM	1	0
			06:00:00 PM	2	0							06:00:00 PM	1	0
			06:01:00 PM	2	0							06:01:00 PM	0	0
			06:02:00 PM	2	0							06:02:00 PM	2	0
			06:03:00 PM	2	0							06:03:00 PM	3	0
			06:04:00 PM	1	0							06:04:00 PM	3	0
			06:05:00 PM	2	0							06:05:00 PM	3	0
			06:06:00 PM	2	0							06:06:00 PM	2	0
			06:07:00 PM	2	0							06:07:00 PM	2	0
			06:08:00 PM	1	0							06:08:00 PM	2	0
			06:09:00 PM	1	0							06:09:00 PM	2	0
			06:10:00 PM	1	0							06:10:00 PM	1	0
			06:11:00 PM	1	0							06:11:00 PM	3	0
			06:12:00 PM	1	0							06:12:00 PM	3	0
			06:13:00 PM	1	0							06:13:00 PM	4	0
			06:14:00 PM	0	0							06:14:00 PM	3	0
			06:15:00 PM	0	0							06:15:00 PM	3	0
			06:16:00 PM	0	0							06:16:00 PM	3	0
			06:17:00 PM	0	0							06:17:00 PM	3	0
			06:18:00 PM	1	0							06:18:00 PM	2	0
			06:19:00 PM	1	0							06:19:00 PM	2	0
			06:20:00 PM	2	0							06:20:00 PM	2	0
			06:21:00 PM	2	0							06:21:00 PM	1	0
			06:22:00 PM	2	0							06:22:00 PM	0	0
			06:23:00 PM	2	0							06:23:00 PM	0	0
			06:24:00 PM	1	0							06:24:00 PM	0	0
			06:25:00 PM	0	0							06:25:00 PM	0	0
			06:26:00 PM	1	0							06:26:00 PM	1	0
			06:27:00 PM	1	0							06:27:00 PM	1	0
			06:28:00 PM	1	0							06:28:00 PM	2	0
			06:29:00 PM	1	0							06:29:00 PM	2	0
			06:30:00 PM	1	0							06:30:00 PM	2	0
			06:31:00 PM	0	0							06:31:00 PM	3	0
			06:32:00 PM	0	0							06:32:00 PM	3	0
			06:33:00 PM	0	0							06:33:00 PM	3	0
			06:34:00 PM	1	0							06:34:00 PM	3	0
			06:35:00 PM	1	0							06:35:00 PM	3	0
			06:36:00 PM	1	0							06:36:00 PM	3	0
			06:37:00 PM	2	0							06:37:00 PM	0	0
			06:38:00 PM	3	0							06:38:00 PM	0	0
			06:39:00 PM	3	0							06:39:00 PM	0	0
			06:40:00 PM	4	0							06:40:00 PM	1	0
			06:41:00 PM	4	0							06:41:00 PM	1	0
			06:42:00 PM	3	0							06:42:00 PM	1	0
			06:43:00 PM	3	0							06:43:00 PM	1	0
			06:44:00 PM	2	0							06:44:00 PM	1	0
			06:45:00 PM	2	0							06:45:00 PM	1	0
			06:46:00 PM	2	0							06:46:00 PM	1	0
			06:47:00 PM	2	0							06:47:00 PM	1	0
			06:48:00 PM	2	0							06:48:00 PM	2	0
			06:49:00 PM	2	0							06:49:00 PM	3	0
			06:50:00 PM	2	0							06:50:00 PM	4	0
			06:51:00 PM	2	0							06:51:00 PM	5	1
			06:52:00 PM	3	0							06:52:00 PM	6	0
			06:53:00 PM	3	0							06:53:00 PM	6	0
			06:54:00 PM	4	0							06:54:00 PM	4	0
			06:55:00 PM	4	0							06:55:00 PM	5	0
			06:56:00 PM	3	0							06:56:00 PM	5	0
			06:57:00 PM	5	0							06:57:00 PM	5	0
			06:58:00 PM	5	0							06:58:00 PM	6	0
			06:59:00 PM	4	0							06:59:00 PM	6	0

Max queue

ATTACHMENT C

Avery Ebbat

From: Abbo, Tony <TAbbo@GLENDALEAZ.com>
Sent: Sunday, November 24, 2024 1:39 PM
To: Scott Kelley; Fastje, Rebecca
Cc: Jeff Looker; Collette Frohlich; Raunak Betala
Subject: RE: SWC 67th Ave/Bell Road | JIB Queue Study

Hello:

Please see my comments in **RED** (scroll down to the E-mail(s) below this response.

Best Regards,



Tony S. Abbo, P.E., PTOE
City Traffic Engineer
Transportation Department

tabbo@glendaleaz.com
P 623.930.2951 | C 505.220.5832
6210 West Myrtle Avenue, Suite 112
Glendale, AZ 85301

We improve the lives of the people we serve every day.
Community • Integrity • Excellence • Innovation • Learning

From: Scott Kelley <scottk@greenlightte.com>
Sent: Friday, November 22, 2024 9:25 AM
To: Abbo, Tony <TAbbo@GLENDALEAZ.com>
Cc: Jeff Looker <jlooker@dxuarch.com>; Collette Frohlich <collettef@greenlightte.com>; Raunak Betala <raunakb@greenlightte.com>
Subject: SWC 67th Ave/Bell Road | JIB Queue Study

Good morning, Tony,

I'm working with Jeff at DxU Architecture to develop a proposal for a queue study for the subject property per your attached comments. I've also attached the site plan for reference.

Our proposed scope of work for drive-through queue data collection is below.

Queue Data Collection Scope: Consider the data collection at a couple of locations

- **Location:** [Jack in the Box, 9152 W Glendale Ave, Glendale, AZ 85305](#) This location works
- **Data Collection Dates/Times:** Friday 12/6/24: 6-9 AM; 11-2 PM; 3-7 PM we also need a weekend count
Saturday count 11-2 PM; 3-7 PM
- **Queue Count Frequency:** 1-minute intervals

Please let me know if the above is acceptable to the City. Thank you! See comments along

Best,

Scott M. Kelley, PE, PTOE | Principal

e: scottk@greenlightte.com w: greenlightte.com

m: 602.499.1339 s: 14050 N 83rd Ave Ste 290 Peoria 85381



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