

November 30, 2020

**Reference: Traffic & Parking Assessment
Proposed Residential Complex
127 Delaware Avenue
City of Jersey City, Hudson County, New Jersey**

Dear Members of the Board:

We are pleased to provide this Traffic Assessment report for the above referenced project. This Assessment identifies existing traffic operations, forecasts future traffic volumes to and from the proposed site (Trip Generation), and identifies traffic impacts, if any. In addition, the required number of parking spaces is evaluated and described.

The inset figure to the right indicates the existing building and rear garage parking structures. All building will be razed to accommodate the contemplated multi-family project. The project proposal details 32 residential units with a ground floor parking supply of 31 spaces.

Delaware Avenue in the vicinity of the subject site is designated as ONE-WAY north towards the Gautier Avenue intersection. Gautier Avenue is designated as ONE-WAY westbound at the intersection.

In addition to the subject site, Delaware Avenue provides access to Saint Aloysius Elementary Academy with pre-K through eighth-grade classes.

TRIP GENERATION

The test from a traffic operations perspective for the proposed site is to determine if the anticipated additional vehicle trips associated with the proposed Multi-Family Residential development would create a traffic impact. Utilizing the latest trip generation rates developed by the *Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Edition)*, we determined the increase in anticipated peak hour site-generated traffic associated with the proposed development.

The proposed 32 unit Multi-Family Residential development would likely include up to 18, 26, and 26 additional vehicles per hour (vph) during the AM, PM, and Saturday Peak Hours, respectively. Per the ITE multifamily low rise rates for land use code 220. Although there would be an increase in traffic volumes during the Peak Hours, the net increase and the overall traffic generated would be very minor. The proposed new trips do not take in consideration the existing trip generation associated with the garages and the multifamily frame building.





ACCESS / SITE CIRCULATION & PARKING

The proposed traffic impact at the ONE-WAY configuration of Delaware Avenue at the site driveway and similarly at the intersection of Gautier Avenue where two ONE-WAY streets intersect the site's minor trip generation would have a minimal impacts at the site driveway and the next adjacent intersection.

A series of manual traffic counts were conducted at the intersection to gauge existing traffic operations while the Elementary School was in session.

- 7:00 AM to 9:00 AM
- 2:00 PM to 6:00 PM
- 4:00 PM to 6:00 PM

and to observe existing conditions that may be exacerbated by the project. Based on the counts conducted and given assignment of site trip generation the impact from a capacity perspective would be minimal. The traffic counts have been appended for review.

On-site parking provides for 31 parking spaces (including 2 ADA accessible space). Based on the small square footage of the proposed residential units, and the current Jersey City vehicle ownership, the proposed 31 parking spaces would be sufficient for the proposed Multi-Family Residential development site.

RSIS requires 1.8 spaces per unit, for a 1-bedroom unit, which is excessive for this site based on the US Census Vehicle ownership data for this tract of Jersey City (13% do not own a vehicle), and 25% utilize public transportation or other means to get to work. There are three NJ TRANSIT Bus Route (#1, and #80) providing access to places in NJ and NYC within walking distance from the proposed site along West Side Avenue.

CONCLUSION

In summary, the proposed project would not result in a significant increase in traffic, and can operate efficiently with 31 parking spaces based on the size of the units, percentage of public transportation utilization, and vehicle ownership in this section of Jersey City.

The site would be safe and efficient from a traffic operation standpoint and would not create any significant traffic impact at the proposed driveways, nor create significant queuing on-site.

If you should have any questions or comments, please do not hesitate to contact our office should you have any questions or comments.

Very truly yours,
Neglia Engineering Associates

Brian Intindola

Brian A. Intindola, P.E., C.M.E.
Project Traffic Engineer
Attached Traffic Counts

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:04	0	0	0	0	1	2	2	1	0	0	0	0	6
07:15	0	0	0	0	1	6	2	2	0	0	0	0	11
07:30	0	0	0	0	7	3	1	2	0	0	0	0	13
07:45	0	1	0	0	4	5	1	4	0	0	0	0	15
08:00	0	0	0	0	6	1	1	4	0	0	0	0	12
08:15	0	0	0	1	3	6	2	19	0	0	0	0	31
08:30	0	0	0	0	5	3	2	2	0	0	1	0	13
08:45	0	0	0	0	3	7	0	2	0	0	0	0	12
09:00	0	0	0	0	1	3	0	0	0	0	0	0	4

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:04	0	0	0	0	1	2	2	1	0	0	0	0	6
07:15	0	0	0	0	1	6	2	2	0	0	0	0	11
07:30	0	0	0	0	7	3	1	1	0	0	0	0	12
07:45	0	0	0	0	4	5	1	3	0	0	0	0	13
08:00	0	0	0	0	5	1	1	4	0	0	0	0	11
08:15	0	0	0	1	3	6	2	19	0	0	0	0	31
08:30	0	0	0	0	5	3	2	2	0	0	0	0	12
08:45	0	0	0	0	3	7	0	2	0	0	0	0	12
09:00	0	0	0	0	1	3	0	0	0	0	0	0	4

Bicycle traffic

[illegible]

Pedestrian volumes

[illegible]

Intersection Peak Hour

07:45 - 08:45

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	1	0	1	18	15	6	29	0	0	1	0	71
Factor	0.00	0.25	0.00	0.25	0.75	0.62	0.75	0.38	0.00	0.00	0.25	0.00	0.57
Approach Factor	0.25			0.85			0.42			0.25			

Peak Hour Vehicle Summary

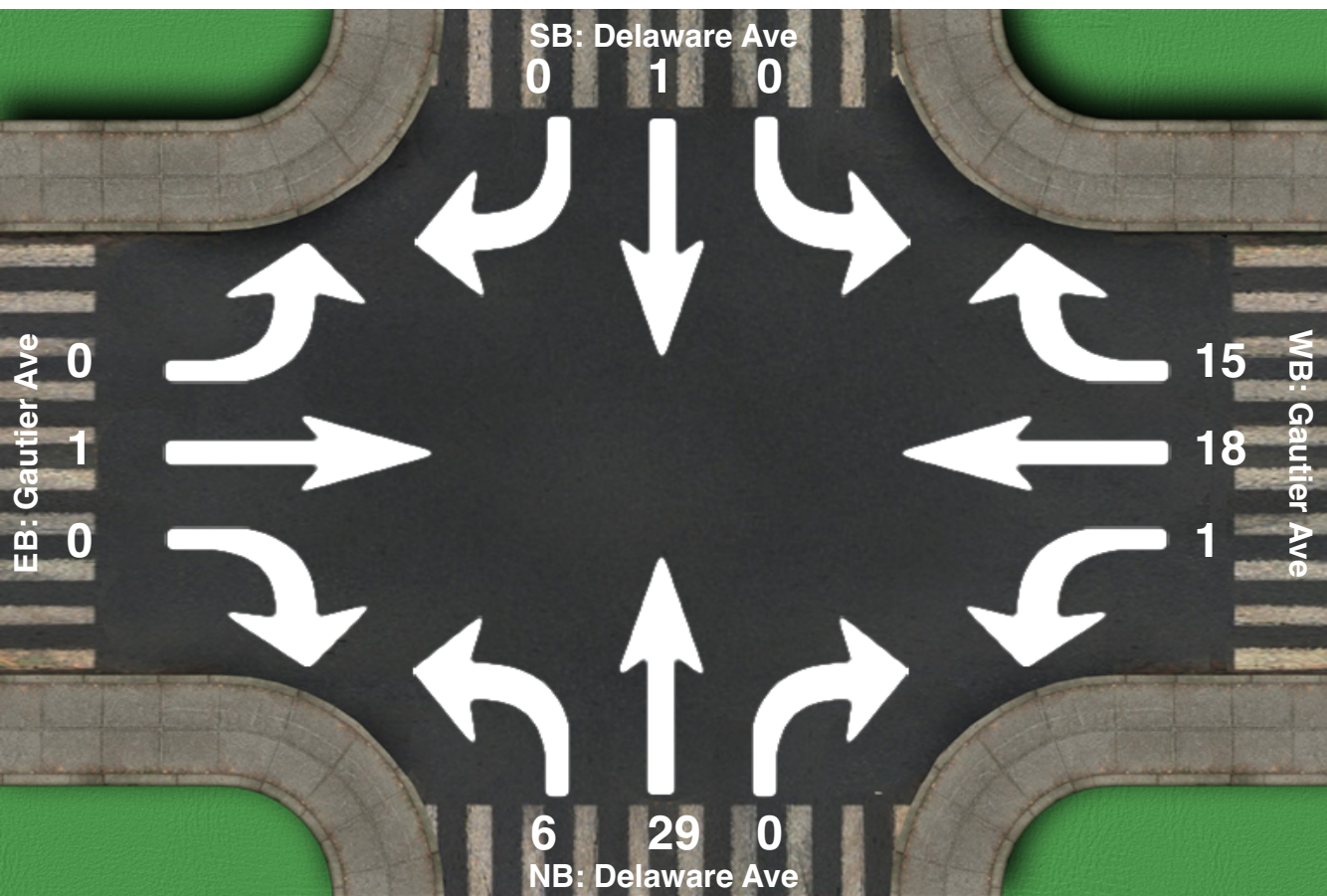
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	0	0	0	1	17	15	6	28	0	0	0	0	67
Bicycle	0	1	0	0	1	0	0	1	0	0	1	0	4

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	15	0	15	0	12	12	18	0	18	0	5	5	50

Intersection Peak Hour

Location: Delaware Ave at Gautier Ave, Jersey City
GPS Coordinates: Lat=40.725587, Lon=-74.078545
Date: 2020-09-29
Day of week: Tuesday
Weather: Cloudy
Analyst: JJL



Intersection Peak Hour

07:45 - 08:45

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	1	0	1	18	15	6	29	0	0	1	0	71
Factor	0.00	0.25	0.00	0.25	0.75	0.62	0.75	0.38	0.00	0.00	0.25	0.00	0.57
Approach Factor	0.25			0.85			0.42			0.25			

Turn Count Summary

Location: Gautier Ave at Delaware Ave, Jersey City, NJ
GPS Coordinates: Lat=40.725649, Lon=-74.078514
Date: 2020-09-29
Day of week: Tuesday
Weather: Light Drizzle
Analyst: JJL

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
14:04	0	0	0	0	0	0	0	6	4	0	3	0	13
14:15	0	0	0	0	0	0	0	10	11	2	0	0	23
14:30	0	0	0	0	1	0	0	3	2	2	3	0	11
14:45	0	0	0	0	1	0	0	7	5	3	10	0	26
15:00	0	0	0	0	0	0	1	13	8	0	9	0	31
15:15	0	0	1	0	0	0	0	9	4	3	3	0	20
15:30	0	0	0	0	0	0	0	10	1	0	3	0	14
15:45	0	0	0	0	0	0	0	14	5	1	3	0	23
16:00	0	0	0	0	0	0	0	8	11	1	5	0	25
16:15	0	0	0	0	0	1	0	7	8	2	3	0	21
16:30	0	0	0	0	0	0	0	5	7	1	1	0	14
16:45	0	0	0	0	1	0	0	6	9	2	3	0	21
17:00	1	1	0	1	0	0	0	10	9	1	2	1	26
17:15	0	0	0	0	0	0	0	13	14	5	4	0	36
17:30	0	0	0	2	0	0	0	12	8	2	7	0	31
17:45	0	0	0	0	0	0	0	8	9	2	2	0	21

Car traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
14:04	0	0	0	0	0	0	0	6	4	0	3	0	13
14:15	0	0	0	0	0	0	0	9	10	2	0	0	21
14:30	0	0	0	0	0	0	0	3	2	2	3	0	10
14:45	0	0	0	0	0	0	0	6	5	3	10	0	24
15:00	0	0	0	0	0	0	1	13	8	0	8	0	30
15:15	0	0	1	0	0	0	0	9	4	3	2	0	19
15:30	0	0	0	0	0	0	0	10	1	0	3	0	14
15:45	0	0	0	0	0	0	0	14	5	1	3	0	23
16:00	0	0	0	0	0	0	0	8	11	1	4	0	24
16:15	0	0	0	0	0	1	0	7	8	2	3	0	21
16:30	0	0	0	0	0	0	0	5	7	1	1	0	14
16:45	0	0	0	0	0	0	0	6	9	2	3	0	20
17:00	0	0	0	0	0	0	0	10	8	1	2	0	21
17:15	0	0	0	0	0	0	0	13	14	5	3	0	35
17:30	0	0	0	0	0	0	0	11	8	2	5	0	26
17:45	0	0	0	0	0	0	0	8	8	2	1	0	19

Bicycle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
14:04	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15	0	0	0	0	0	0	0	1	1	0	0	0	2
14:30	0	0	0	0	1	0	0	0	0	0	0	0	1
14:45	0	0	0	0	1	0	0	1	0	0	0	0	2
15:00	0	0	0	0	0	0	0	0	0	0	1	0	1
15:15	0	0	0	0	0	0	0	0	0	0	1	0	1
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	1	0	1
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	1	0	0	0	0	0	0	0	1
17:00	1	1	0	1	0	0	0	0	1	0	0	1	5
17:15	0	0	0	0	0	0	0	0	0	0	1	0	1
17:30	0	0	0	2	0	0	0	1	0	0	2	0	5
17:45	0	0	0	0	0	0	0	0	1	0	1	0	2

Pedestrian volumes

Interval starts	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
14:04	2	0	2	0	2	2	2	0	2	0	7	7	13
14:15	0	0	0	0	3	3	3	0	3	0	0	0	6
14:30	1	0	1	0	2	2	1	0	1	0	8	8	12
14:45	2	0	2	0	10	10	1	0	1	0	3	3	16
15:00	3	0	3	0	5	5	4	0	4	0	17	17	29
15:15	1	0	1	0	6	6	0	0	0	0	8	8	15
15:30	1	0	1	0	2	2	4	0	4	0	7	7	14
15:45	3	0	3	0	4	4	1	0	1	0	10	10	18
16:00	3	0	3	0	2	2	6	0	6	0	4	4	15
16:15	6	0	6	0	0	0	7	0	7	0	2	2	15
16:30	3	0	3	0	2	2	3	0	3	0	11	11	19
16:45	3	0	3	0	5	5	3	0	3	0	11	11	22
17:00	4	0	4	0	3	3	4	0	4	0	8	8	19
17:15	1	0	1	0	6	6	5	0	5	0	10	10	22
17:30	4	0	4	0	2	2	8	0	8	0	12	12	26
17:45	4	0	4	0	4	4	4	0	4	0	5	5	17

Intersection Peak Hour

17:00 - 18:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	1	1	0	3	0	0	0	43	40	10	15	1	114
Factor	0.25	0.25	0.00	0.38	0.00	0.00	0.00	0.83	0.71	0.50	0.54	0.25	0.79
Approach Factor	0.25			0.38			0.77			0.72			

Peak Hour Vehicle Summary

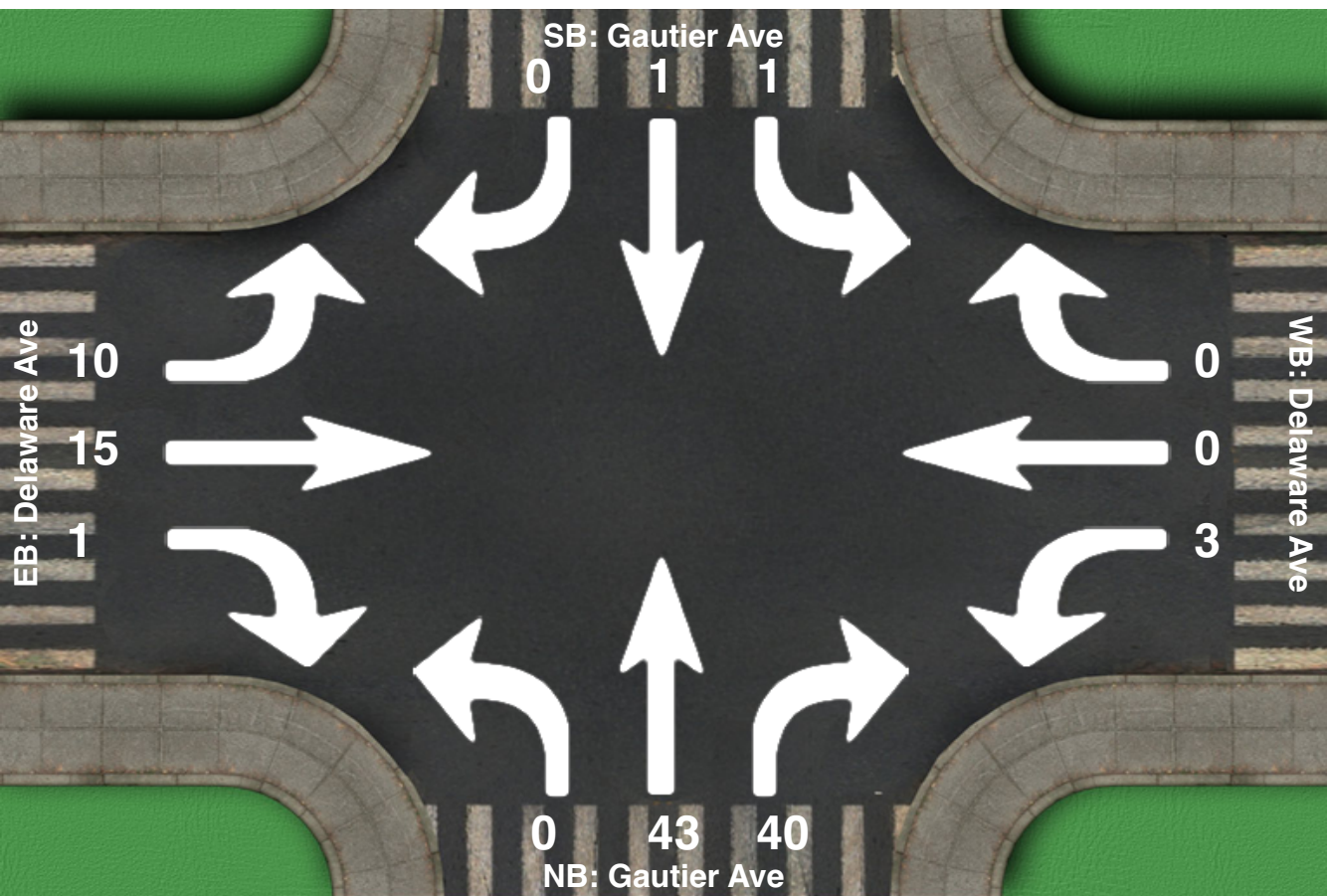
Vehicle	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Car	0	0	0	0	0	0	0	42	38	10	11	0	101
Bicycle	1	1	0	3	0	0	0	1	2	0	4	1	13

Peak Hour Pedestrians

	NE			NW			SW			SE			Total
	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	
Pedestrians	13	0	13	0	15	15	21	0	21	0	35	35	84

Intersection Peak Hour

Location: Gautier Ave at Delaware Ave, Jersey City, NJ
GPS Coordinates: Lat=40.725649, Lon=-74.078514
Date: 2020-09-29
Day of week: Tuesday
Weather: Light Drizzle
Analyst: JJL



Intersection Peak Hour

17:00 - 18:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	1	1	0	3	0	0	0	43	40	10	15	1	114
Factor	0.25	0.25	0.00	0.38	0.00	0.00	0.00	0.83	0.71	0.50	0.54	0.25	0.79
Approach Factor	0.25			0.38			0.77			0.72			

Total vehicle traffic

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	0	0	0	0	0	0	0	9	9	0	2	0	20
16:15	0	0	0	0	0	0	0	10	11	2	6	0	29
16:30	0	0	0	0	0	0	0	13	7	3	7	0	30
16:45	0	0	0	0	0	0	0	9	8	4	0	0	21
17:00	0	0	0	0	0	0	1	7	8	0	3	0	19
17:15	0	0	0	0	0	0	0	6	7	2	2	0	17
17:30	0	0	0	0	0	0	0	12	4	2	4	0	22
17:45	0	0	0	0	0	0	0	11	4	0	3	0	18

Interval starts	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
16:00	0	0	0	0	0	0	0	9	9	0	2	0	20
16:15	0	0	0	0	0	0	0	10	11	2	6	0	29
16:30	0	0	0	0	0	0	0	13	7	3	7	0	30
16:45	0	0	0	0	0	0	0	9	8	4	0	0	21
17:00	0	0	0	0	0	0	1	7	8	0	3	0	19
17:15	0	0	0	0	0	0	0	6	7	2	2	0	17
17:30	0	0	0	0	0	0	0	12	4	2	4	0	22
17:45	0	0	0	0	0	0	0	11	4	0	3	0	18

[illegible][illegible]

Intersection Peak Hour

16:00 - 17:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	0	0	0	0	0	0	41	35	9	15	0	100
Factor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.80	0.56	0.54	0.00	0.83
Approach Factor	0.00			0.00			0.90			0.60			

Peak Hour Vehicle Summary

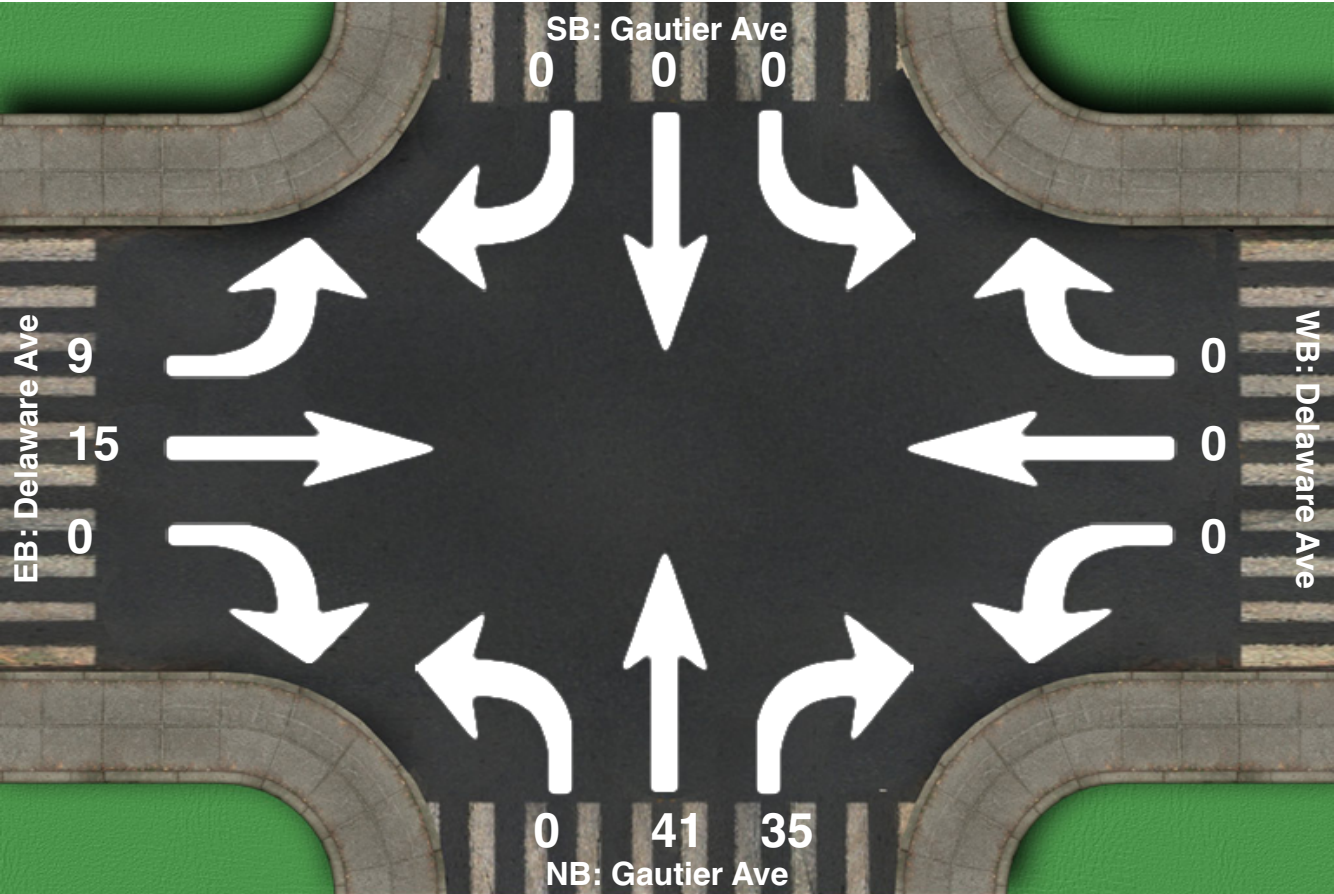
[illegible]

Peak Hour Pedestrians

[illegible]

Intersection Peak Hour

Location: Gautier Ave at Delaware Ave, New Jersey
GPS Coordinates:
Date: 2020-09-24
Day of week: Thursday
Weather: Cloudy
Analyst: JJL



Intersection Peak Hour

16:00 - 17:00

	SouthBound			Westbound			Northbound			Eastbound			Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Vehicle Total	0	0	0	0	0	0	0	41	35	9	15	0	100
Factor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.80	0.56	0.54	0.00	0.83
Approach Factor	0.00			0.00			0.90			0.60			