

Providence, Rhode Island  
Proposed Residential Redevelopment

*July 2023*

TRAFFIC IMPACT STUDY

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# Proposed Residential Redevelopment Providence, Rhode Island

## TRAFFIC IMPACT STUDY

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Prepared by: BETA GROUP, INC.

Prepared for: Mr. Tyler Alten, Partner  
Lundgren Equity Partners, LLC  
163 Washington Street  
Auburn, Massachusetts 01501

July 2023



July 31, 2023

Mr. Tyler Alten, Partner  
Lungdren Equity Partners, LLC  
163 Washington Street  
Auburn, Massachusetts 01501

Re: Proposed Residential Redevelopment  
135, 141, and 149 Gano Street Apartments  
Providence, Rhode Island

Dear Mr. Alten:

BETA Group, Inc., in accordance with our scope of services, has completed a traffic impact study for a proposed residential redevelopment project in the City of Providence, Rhode Island. The site is located along the easterly side of Gano Street just south of its junction with Power Street. The property immediately abuts a recreational facility, Gano Park to the east and a Dunkin Donuts to the south. The parcel is currently fully developed with three commercial buildings and associated parking.

Based upon our discussions and a review of the plans provided by *Joe Casali Engineering, Inc.*, it is our understanding that the redevelopment project includes razing the three existing structures to allow construction of one, four story building accommodating 54 residential apartment units. Access and egress to the site is proposed at a single driveway on Power Street.

The study included herein, was conducted to determine the adequacy of the existing servicing roadways to accommodate anticipated traffic to be generated by the residential redevelopment project. An analysis of potential impacts to the roadway capacity and safety has been completed and is discussed in the following report.

Very truly yours,  
BETA Group, Inc.

A handwritten signature in black ink, appearing to read "Paul J. Bannon", is written over a light gray circular graphic element.

Paul J. Bannon  
Associate

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## 1.0 INTRODUCTION

The objective of the following study is to assess the potential traffic impacts associated with a proposed residential redevelopment project in the City of Providence, Rhode Island. The new residential apartments will be situated on a parcel of land on the southeast corner of the intersection of Gano Street with Power Street, just west of the *Gano Park* recreational facility. Refer to the Figure 1, Project Vicinity Map, on the following page for the project location within the city.

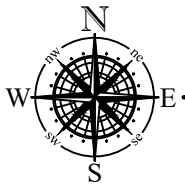
The residential redevelopment proposal consists of razing three commercial structures to allow construction of a new, four-story building containing 54 residential apartment units. The ground, or first floor of the structure, will be a garage accommodating a total of 56 parking spaces. Access/egress to the garage is proposed from a single driveway on Power Street at the northeast corner of the building.

The study summarized herein focused on both traffic flow efficiency and safety along Gano Street and Power Street in the immediate vicinity of the subject property, including at the proposed site driveway. The potential impacts associated with the site related traffic have been defined and evaluated in accordance with standard traffic engineering guidelines and procedures.

The traffic engineering study completed for this project included the following:

- A traffic counting program to define the existing traffic patterns and operational characteristics along the servicing roadways. The data collection included review of record traffic information available from the Rhode Island Department of Transportation (RIDOT), record data on file in our office from previous studies, an Automatic Traffic Recorder (ATR) count on Gano Street along the property frontage and a manual Turning Movement Count (TMC) at the intersection of Gano Street with Power Street.
- An inventory of the physical roadway characteristics of Gano Street, Pitman Street and Power Street in the immediate site vicinity to determine the adequacy of the existing roadway geometric features in reference to safety and operations.
- An analysis of crash records obtained from the Providence Police Department to determine if there are any safety concerns relative to the frequency, severity, or pattern of crashes in the project area.
- An estimate of future traffic volumes for the proposed residential redevelopment was calculated using data from the "Trip Generation" Manual, an informational report published by the Institute of Transportation Engineers (ITE).
- Evaluation and analysis of the traffic safety and operational issues for existing and future traffic conditions.
- Development of recommendations where necessary, that would be required to maintain safe and efficient traffic flow in the project area.

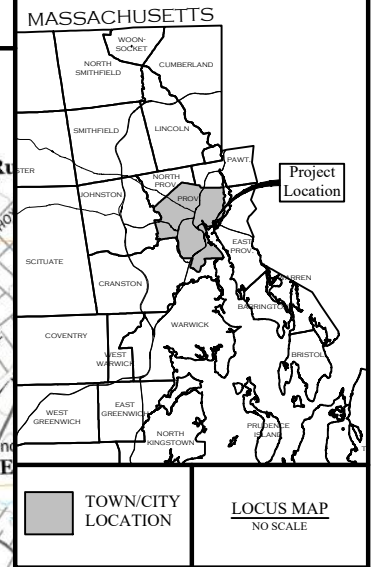
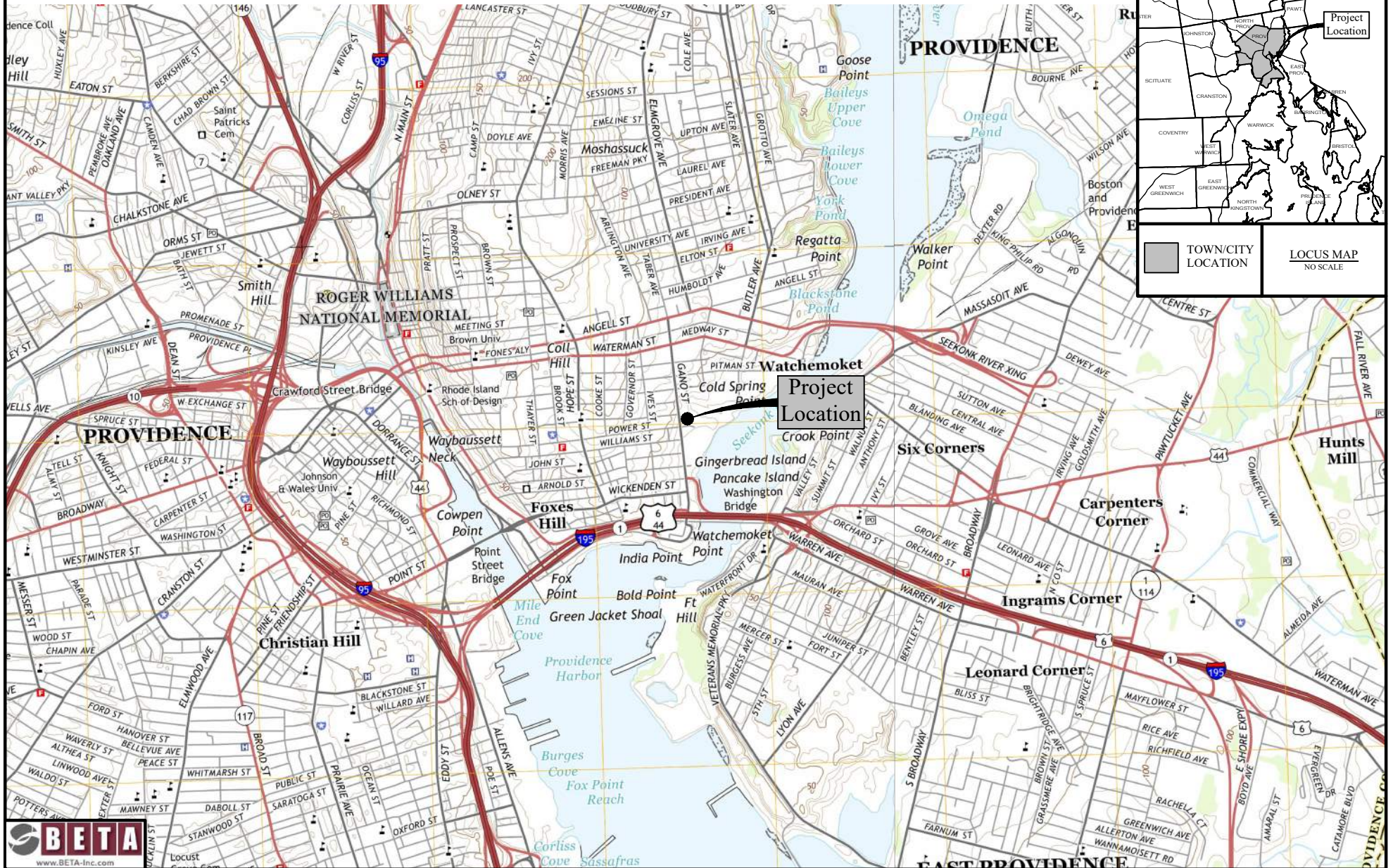




# Proposed Residential Redevelopment

PROVIDENCE, RHODE ISLAND

## Figure 1 - Project Vicinity Map





## 2.0 PROJECT AREA

As noted in the previous section, the proposed residential apartment project is situated on a parcel of land at the southeast corner of the intersection of Gano Street with Power Street within the Fox Point neighborhood. The 22,500 square foot site is fully developed with three commercial structures and associated paved parking lots and is defined by Assessor's Plat 14, Lots 324, 325, 357 and 574. Figure 2 on the following page depicts the general project area, and the boundary lines of the subject property.

Land use in the immediate area can be defined as predominantly high-density residential properties along the westerly side of Gano Street including in neighborhoods off of intersecting side streets. A majority of the properties along the easterly side of the Gano Street extending to the north from I-195 contain small commercial businesses in commercial buildings or converted residential buildings. Immediately abutting the subject site to the south is a commercial property containing a Dunkin Donuts. To the east is the *Gano Park* which has frontage along the Seekonk River and includes recreational fields and public garden. To the west across Gano Street are residential properties. Further to the northeast within the College Hill neighborhood is the Brown University campus. Further south is the I-195 corridor and India Point Park.

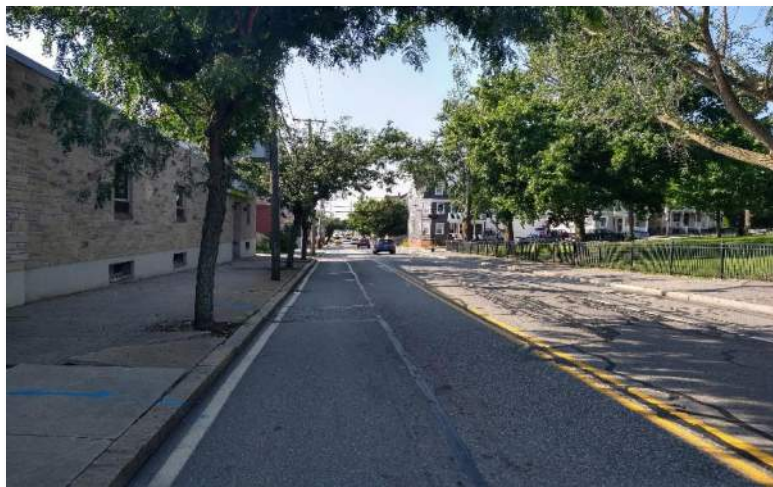
Gano Street will serve as the primary access route to the redeveloped property, with Power Street providing immediate local access. Based upon the operating characteristics along the servicing roadways, and the low estimated volume and type of traffic associated with the residential redevelopment, a study impact area was defined for the project. The limits of our analysis focused on Gano Street between Pitman Street southerly to Route 195 and Power Street east of Gano Street and specifically at the site driveway intersection.

## 3.0 EXISTING CONDITIONS

### 3.1 ROADWAYS

#### Gano Street

Gano Street is a north/south urban principal arterial between Angell Street to the north and India Street to the south. The roadway provides immediate local access to abutting properties but also links to higher order facilities including I-195 to the south. In the project area, the roadway is generally thirty (30) feet wide consisting of an 11-foot travel lane in each direction with an eight foot parking lane along the southbound side. Granite curbing and a mixture of cement and bituminous concrete sidewalks are provided on both sides of the road.









The pavement surface can be classified as being in fair condition with visible minor rutting and crack sealing. Cobra head lighting is provided for night time visibility along the roadway and at intersections. The speed limit is posted at 25 mph. The photograph on Page 3 depicts the typical roadway characteristics of Gano Street looking south with the subject property on the left side.

### Power Street

Power Street is a major collector road running in an east/west direction between South Main Street to the west to Gano Street to the east where it then becomes a short, 500 foot long local, dead-end street to *Gano Park*. The short section of Power Street east of Gano Street services one commercial property that includes the subject site, baseball fields, and public garden as noted. Along the property frontage, the roadway is generally eighteen (18) feet wide consisting of undelineated single lanes in each direction with 90-degree marked parking on the southerly side of the roadway as seen in the adjacent photograph looking west towards the Gano Street intersection with the subject property on the left side. This parking will be eliminated as part of the proposed redevelopment project.



There is no curbing or sidewalks provided along the roadway. The pavement can be classified as being in fair condition with no visible major pavement distress. There was no observed posted speed limit and was assumed at 25 mph due to the urban and local nature of the area. There is no lighting provided along this short section of Power Street.

## 3.2 INTERSECTIONS

### Gano Street at Power Street

Power Street intersects Gano Street to form an unsignalized, four-way junction with stop control on the minor Power Street eastbound and westbound approaches. Mast arm mounted flashing beacons are provided at the intersection to enhance safety by emphasizing the traffic control and increasing visibility of the intersection that is adjacent to a small neighborhood park. Flashing yellow beacons are provided on the Gano Street northbound and southbound approaches while flashing red beacons are provided on the minor Power Street eastbound and westbound approaches. A Stop sign and stop line are also present on both the Power Street eastbound and westbound approaches to the intersection. All approaches to the intersection provide a single shared lane.

Curb ramps are provided on all corners of the intersection, though they are not ADA-compliant. Marked crosswalks are available on all legs of the intersection except across the eastern leg as can be seen in the adjacent photograph.

An enhanced visibility crosswalk is also provided across the southern leg of the intersection where pedestal mounted yellow flashing signal heads with pushbuttons, though not ADA-compliant, are available for pedestrians to utilize before crossing Gano Street. Pedestrian crossing signs are also mounted on the flasher pedestal poles.



### 3.3 TRAFFIC DATA

Existing traffic flow characteristics for this area were developed from a traffic counting program conducted by BETA, and review of record data available from RIDOT and previous studies completed by our office in the immediate area. Specifically for this project BETA Group conducted Automatic Traffic Recorder (ATR) counts for a seven-day period in July 2023. This information was compared to the record ATR and turning movement counts reviewed from the previous study completed by our office in December 2021. This data was reviewed as the most recent time period for data collection occurred during the summer months when schools were not in session. Through comparing the ATR data, the November 2021 ATR count found higher traffic volumes along Gano Street, and was therefore, to be conservative utilized as the base volumes for analysis purposes. Complete count information can be found in the Appendix.

Based upon the 2021 ATR data collected, Gano Street in the project area was found to service an Average Daily Traffic (ADT) volume of approximately 16,500 vehicles per day. On a typical weekday along Gano Street, traffic volumes begin to increase at 6:00 AM with the morning commuter peak hour occurring between 8:00 and 9:00 AM. During this hour, an average volume of approximately 1,300 vehicles was recorded. After 9:00 AM, volumes decrease slightly to between 975 and 1,150 vehicles per hour, until the later afternoon peak of 1,250 vehicles serviced between 5:00 and 6:00 PM.

As record 2021 data was utilized, traffic volumes were projected forward two years from 2021 to 2023 to provide a more conservative base volume representing existing conditions. The City of Providence has seen an annual population growth of 0.7%, which was increased to 1% to maintain a conservative assessment. This population growth rate was projected onto the 2021 TMC volumes. Additionally, BETA reviewed RIDOT seasonal factors to determine if traffic patterns in November should be further adjusted to reflect average conditions. It was determined that traffic volumes in November were slightly less than

average conditions for an urban principal arterial and were therefore adjusted up by seven percent to reflect average conditions.

With the noted traffic adjustments applied, the November 2021 intersection turning movement count data found Gano Street along the site frontage services approximately 1,620 vehicles during the weekday morning peak hour between 7:30 and 8:30 AM with approximately 925 vehicles northbound and 695 vehicles southbound. During the same time period, Power Street along the property frontage was found to service 25 vehicles with 10 vehicles eastbound and 15 vehicles westbound. During the weekday afternoon peak hour between 4:30 and 5:30 PM, Gano Street serviced 1,470 vehicles with approximately 685 vehicles northbound and 785 vehicles southbound. During the same time period, Power Street was found to service 50 vehicles with 25 vehicles eastbound and 25 vehicles westbound. Figure 3 on the following page depicts the daily peak hour turning movement volumes at the study intersection. Complete count information can be found in the Appendix.

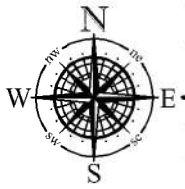
## 4.0 SAFETY ANALYSIS

To determine if there are any limiting factors affecting safety relating to access to the proposed residential project, the physical characteristics of Gano Street and Power Street in the project area were investigated. These limiting factors would potentially include horizontal or vertical alignment changes or roadside obstructions that limit sight distances for vehicles traveling along the road or entering the road from a side street or driveway location. In this instance, the sight distance standard is necessary to permit turning vehicles to safely enter and exit the site driveway.

The horizontal and vertical alignment of Gano Street in the project area can be described as generally straight with a vertical decline from north to south, with no limiting factors for sight distances. Based upon the existing roadway geometry as described, the available stopping sight distances at the Power Street junction are greater than 500 feet to the north and south. The value to the north is in excess of AASHTO's recommended minimum sight distance of 158 feet based on the posted speed limit of 25 mph and greater than 186 feet based on the measured 85<sup>th</sup> percentile vehicle speed of 28 mph with a 3% downgrade. The available sight distance to the south is greater than the AASHTO's recommended minimum sight distance of 147 feet based on the posted speed limit of 25 mph and the measured 85<sup>th</sup> percentile vehicle speed of 25 mph with a 3% upgrade. However, it should be noted that on occasion, parking on the westerly side of Gano Street creates obstructions that can limit sight distances for vehicles exiting from eastbound Power Street. In an effort to enhance safety and limit vehicles parking in the vicinity of the Power Street intersection, it is recommended that parking restriction signs be placed a minimum of 40 feet north and south of the Power Street junction, prohibiting parking on the westerly side of Gano Street in the immediate area of the intersection.

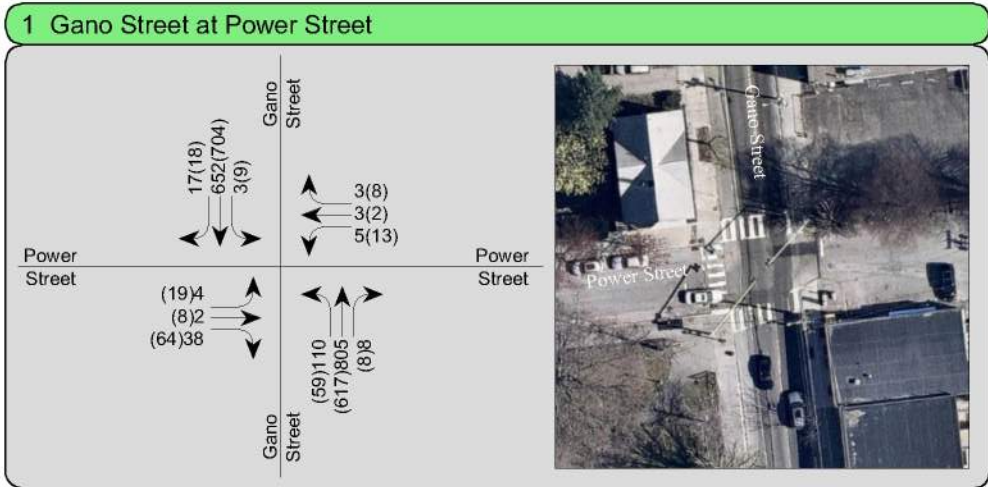
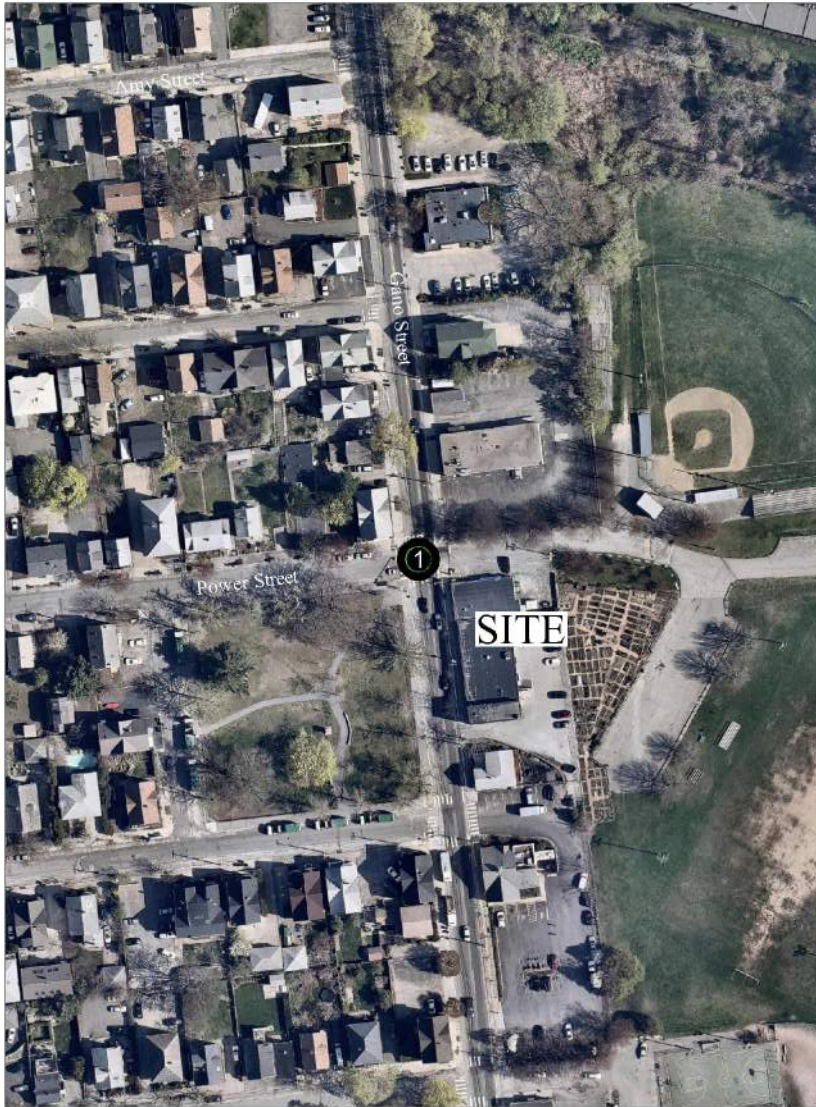
The vertical and horizontal alignment of Power Street between Gano Street and its eastern terminus can be described as generally level with a gradual "S" curve just east of the site. These physical features of Power Street described provide stopping sight distances greater than 250 feet to the east and in excess of 150 feet through the unsignalized junction with Gano Street to the west. These values are greater than AASHTO's recommended minimum sight distance of 115 feet based on the low travel speeds of between





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## Figure 3 - Existing Traffic Volumes



15 to 20 mph. It should be noted that the speeds are very low due to the controlled junction with Gano Street, where vehicles are turning off or on to Gano Street at a very low speed, or are slowing to the stop line. Additionally, drivers sight lines can be hindered as they exit the proposed site driveway by trees and vegetation to the east. It is assumed some of the existing trees would be removed during construction but should be noted.

Also, as part of our analysis of safety, a review of crash statistics at the study intersection of Gano Street with Power Street was completed. The initial effort included a review of data obtained in the previous study completed by our office as noted. As part of the earlier study, data was reviewed from the City of Providence Police Department for the full three-year period between 2017-2019 to determine if any location in the immediate vicinity of the development experienced a high frequency or pattern of crashes.

A total of two crashes (avg. 1 per year) occurred at the study intersection of Gano Street with Power Street over the three-year study period, with one involving an injury. Both crashes were angle collisions that can be attributed to roadway conditions (snow/ice). Due to the low incidence of crashes found at this location from previous analysis of the junction, it was determined that no additional review of more current data (2022) was needed for this study, as there was no record of a high occurrence or pattern of crashes that would warrant safety enhancements other than what has been recommended relating to on-street parking.

## 5.0 IMPACT ANALYSIS

### 5.1 TRIP GENERATION

To determine the traffic impact of a proposed development, estimates of anticipated traffic to be generated by a particular land use must be calculated. As previously discussed, the development proposal consists of the construction of one, four-story building with 54 residential apartment units. Access will be provided at a new driveway on Power Street. Figure 4 on the following page depicts the site layout and access plan provided by *Joe Casali Engineering, Inc.*

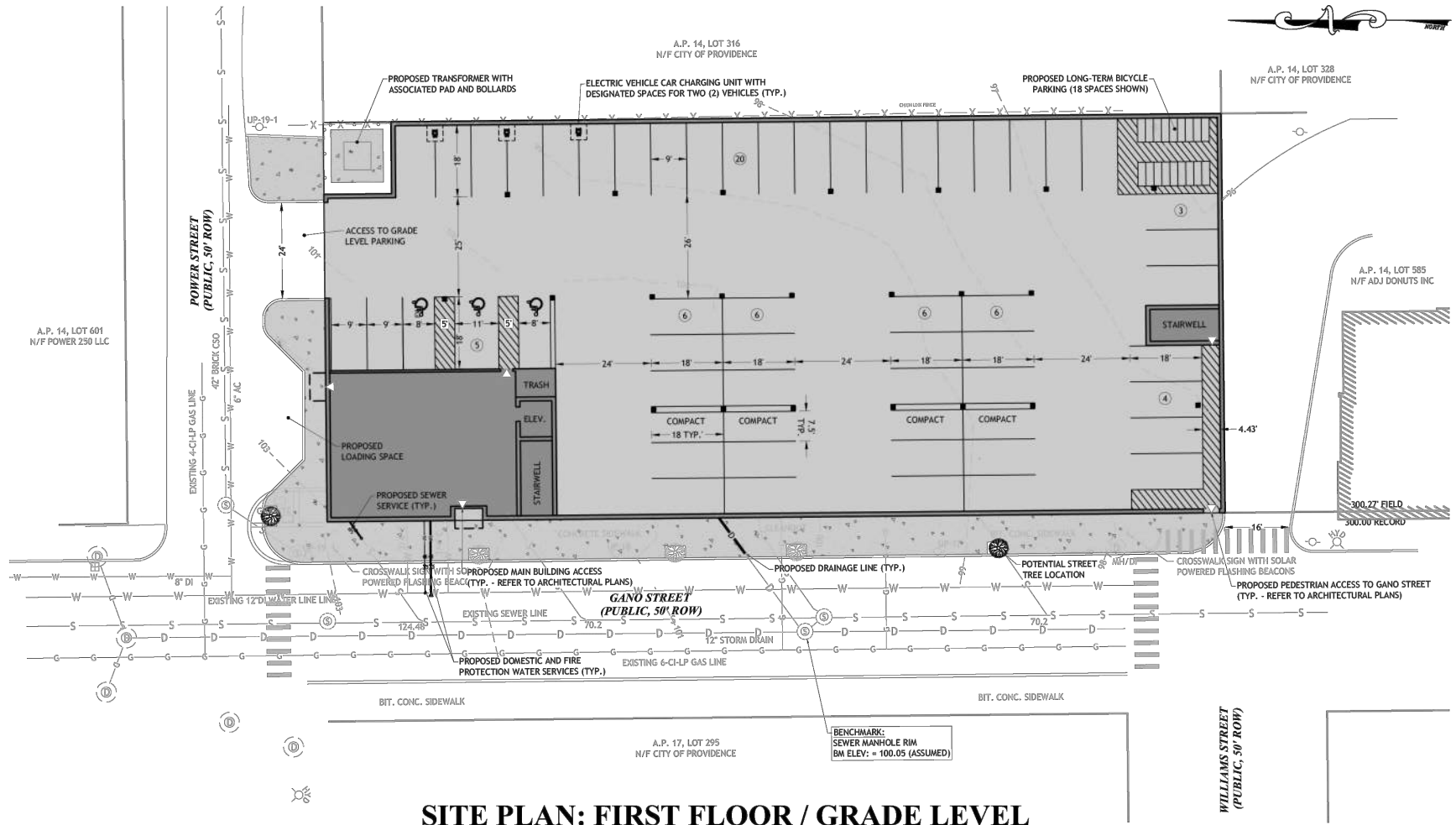
For this development, estimated traffic volumes for the residential apartment project were based on use of trip generation factors. These factors are taken from the "Trip Generation" manual, an informational report published by the Institute of Transportation Engineers (ITE), a national professional organization for traffic and transportation engineers. The data provided in the ITE report are based on extensive traffic studies for various types of land uses (residential, commercial, industrial, etc.). This data has been found to be very reliable and provides a sound basis for estimating future trips to new development projects.

For the proposed residential project, Land Use Code (LUC) 221 Multifamily Housing (Mid-Rise) was reviewed for applicability in developing an estimate of site related vehicles trips. Table 1 summarizes the low volume estimate of peak hour site related vehicle trips for the residential use utilizing the land use code data available from the ITE manual. The appropriate worksheets from the manual are included in the Appendix, along with the trip estimate calculations.

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## Figure 4 - Site Layout



### SITE PLAN: FIRST FLOOR / GRADE LEVEL

Conceptual Site Plan provided by Joe Casali Engineering, Inc



TABLE 1 – Trip Generation Estimate

<u>Description</u>		<u>Enter</u>	<u>Exit</u>	<u>Total</u>
<u>Weekday AM Peak Hour</u>				
ITE Land Use Code 221	Multifamily Housing (Mid-Rise)	5	15	20
<u>Weekday PM Peak Hour</u>				
ITE Land Use Code 221	Multifamily Housing (Mid-Rise)	13	9	22

## 5.2 FUTURE TRAFFIC CONDITIONS

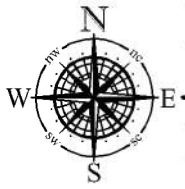
In order to properly assess the impacts of a development, future traffic conditions of area roadways should be estimated for the period when the development is constructed and fully occupied. Typically, the expansion of base traffic is calculated when a project is to be constructed over an extended period (+3 to 5 years). In all instances, area growth that may affect capacity results should be considered. For this project, a conservative annual growth rate of one percent was utilized for the future background traffic growth of Gano Street as mentioned prior.

In addition to a base background growth, coordination with the city was completed to determine if there were any site-specific development/redevelopment projects in the area currently under board/commission review or have recently been approved that would impact existing traffic conditions. Based upon this coordination it was determined that a residential development containing 83 apartment units has been approved at the northeast corner of the intersection of Gano Street with Trenton Street and the I-195 westbound off-ramp. Additionally, another residential project along Power Street, consisting of 140 residential units, directly to the north of the proposed site has been approved for development. Therefore, to establish a Future 2028 Build traffic condition the subject 54-unit residential development project and the known future residential development were added to the expanded base volumes as previously defined. Figure 5 on the following page depicts the estimated future traffic volumes within the study area.

In developing the intersection volumes to be analyzed under build conditions, a directional distribution of the site traffic was estimated. The distribution was based on current traffic patterns in the area related to the intersection of Power Street at Gano Street.

## 5.3 OPERATIONAL ANALYSIS

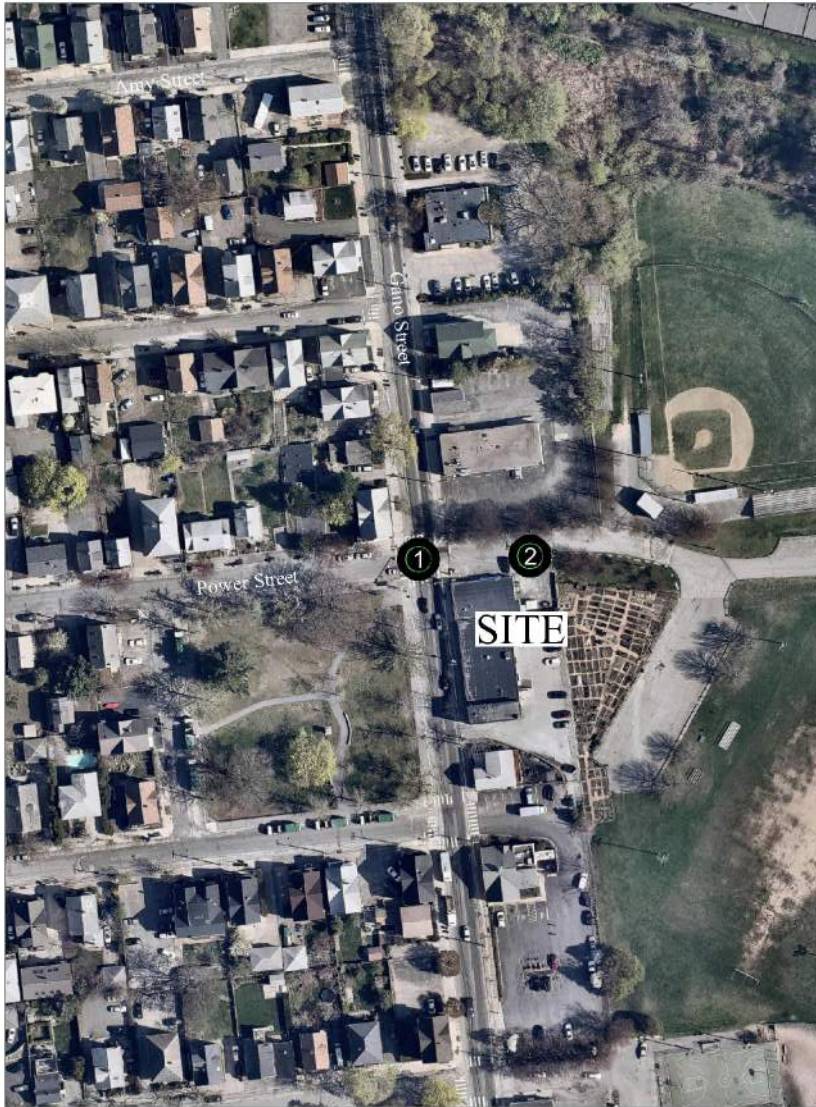
The key to any traffic impact analysis is the evaluation of roadway operations during peak traffic periods on the servicing roadway system. This situation would occur when the site-generated traffic, combined with the traffic volumes on the main roadway, result in the highest one-hour volume serviced along a roadway segment, or through an intersection. Review of record traffic data found that the weekday morning and afternoon peak hours would represent this worst-case combination of site-generated traffic with the servicing roadway peak traffic period.



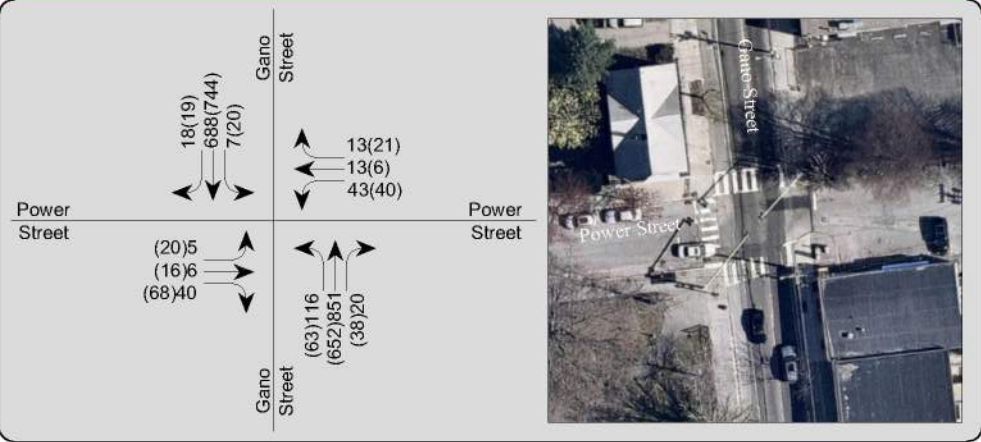
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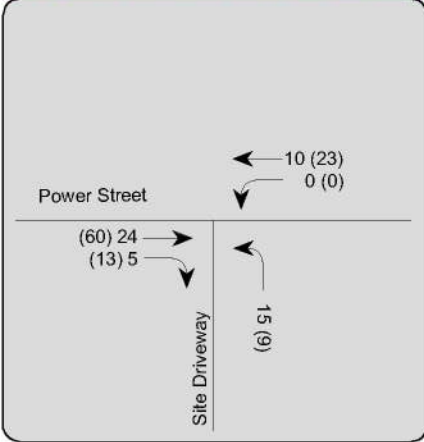
## Figure 5 - Future Build Traffic Volumes



### 1 Gano Street at Power Street



### 2 Gano Street at Site Driveway



**LEGEND:**

- ↘ TURN LANE
- XXX AM PEAK VOLUMES (7:30 TO 8:30)
- (XXX) PM PEAK VOLUMES (4:15 TO 5:15)
- ① STUDY INTERSECTION
- 🚦 TRAFFIC SIGNAL

The Highway Capacity Manual methodology provides the most accurate means of evaluating traffic capacity and delays for roadways and intersections. The results of these procedures are expressed in terms of Level of Service (LOS). Level of Service is a qualitative measure of traffic flow efficiency based on anticipated vehicle delays. For example, LOS "A" represents the best condition with little or no delay, while LOS "F" indicates that the roadway/intersection is at full capacity resulting in extended vehicle delays and potential queuing. Table 2 outlines the Level of Service delay criteria presented in the Highway Capacity Manual for signalized and unsignalized intersections.

TABLE 2 – Highway Capacity Manual Criteria

Level of Service	Unsignalized Delay Per Vehicle (sec)	Signalized Delay Per Vehicle (sec)
A	<10	<10
B	>10 and <15	>10 and <20
C	>15 and <25	>20 and <35
D	>25 and <35	>35 and <55
E	>35 and <50	>55 and <80
F	>50	>80

The Gano Street intersections with Pitman Street and Power Street were analyzed for the weekday morning and afternoon peak hours for Existing, Future No-Build and Future Build conditions. The capacity analysis worksheets are included in the Appendix and Tables 3 through 5 summarize the results of the analyses.

TABLE 3 – Level of Service Summary (Existing Conditions)

Location / Movement	EXISTING CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c
<i>Gano Street at Power Street (U)</i>								
Gano Street NB Left	A	9.5	1	0.13	A	9.5	1	0.07
Gano Street SB Left	A	9.5	1	0.01	A	8.8	1	0.01
Power Street EB	C	24.8	1	0.20	E	38.5	2	0.48
Power Street WB	F	>50	1	0.17	F	>50	1	0.25

(U) – Unsignalized

Table 3 depicts the current operating conditions at the study intersection. As can be seen in the table, all critical movements at the unsignalized junction of Gano Street with Power Street currently operate at LOS E or better except for the Power Street westbound approach where it experiences average delays of greater than 50 seconds during both the morning and afternoon peak periods. This is attributed to the greater delays of left turning traffic across the heavy Gano Street through traffic stream and available



gaps, though this delay typically results in only one vehicle waiting to turn onto Gano Street at any one time and no traffic congestion at the intersection.

One condition that does have a positive impact on the available gaps in traffic on Gano Street is the adjacent signalized intersections at Pitman Street to the north and Trenton Street/I-195 WB off-ramp to the south. The traffic signals help create gaps in Gano Street traffic during the minor approach traffic phases and the change intervals that driveway and side street traffic can utilize to access the main road. The positive effect of the adjacent signals cannot be sufficiently modeled into the HCS analysis, resulting in a conservative, higher estimate of delays than what is actually experienced by drivers.

Table 4 below presents the Future No-Build design period analysis taking into consideration base traffic growth including the known future developments, but not considering the subject site development. The results of the analysis found that the unsignalized intersection of Gano Street with Power Street will have the main road critical movements operating uninterrupted at a good LOS A, and with the minor side streets operating at LOS E and F, with the westbound approach experiencing the higher delays due to the number of left turn exiting traffic. Despite the greater delays, it is estimated that the worst case queuing that occurs during the morning commuter peak would be a maximum of six vehicles waiting to exit the side street.

TABLE 4 – Level of Service Summary (No Build Conditions)

Location / Movement	EXISTING CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c
<i>Gano Street at Power Street (U)</i>								
Gano Street NB Left	A	9.7	1	0.14	A	9.7	1	0.08
Gano Street SB Left	A	9.8	1	0.01	A	9.1	1	0.02
Power Street EB	E	40.9	1	0.35	F	>50	4	0.66
Power Street WB	F	>50	6	1.31	F	>50	3	0.73

(U) – Unsignalized

Table 5 on the following page presents the Future Build design period analysis taking into consideration base traffic growth including the known future developments, and also the proposed development. The results of the analysis are similar to the Future No-Build scenario with the main road critical movements operating at LOS A, and with the minor side streets operating at LOS E or F. As traffic delay gradually increases in the LOS F operating conditions, minor increases in the traffic flow will lead to greater traffic delays but not a discernable amount of additional side street queuing. As seen in the table the estimated maximum queuing increases by only approximately two vehicles during the daily peak hours of traffic and would generally average one to two vehicles during daily off-peak traffic conditions.

The unsignalized capacity analysis results for the minor approach delays are consistent with most unsignalized driveways and side street intersections along this section of Gano Street due to the high main street volumes and limitations of the unsignalized analysis as previously discussed. The signalization of the adjacent intersections will provide the benefit of additional gaps in main street traffic, reducing delays and allowing the intersection to operate in an acceptable manner with no traffic congestion.

The unsignalized intersection of the proposed site driveway with Power Street was reviewed and is anticipated to operate efficiently during both the morning and afternoon peak conditions due to the combination of low traffic volumes on Power Street and the proposed site driveway where negligible delays associated with vehicle conflicts will be realized. The only delay realized will be the delays associated with vehicles required to stop at the stop sign in advance of entering the main road, or to make the turn into the driveway, resulting in an LOS A.

TABLE 5 – Level of Service Summary (Future Build Conditions)

Location / Movement	FUTURE BUILD CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c	LOS	Delay	95 <sup>th</sup> % Queue Length (veh.)	v/c
<i>Gano Street at Power Street (U)</i>								
Gano Street NB Left	A	9.7	1	0.14	A	9.7	1	0.08
Gano Street SB Left	A	9.8	1	0.01	A	9.1	1	0.02
Power Street EB	E	46.6	2	0.39	F	77	4	0.73
Power Street WB	F	513	7	1.63	F	241	5	1.07
<i>Power Street at Site Driveway (U)</i>								
Power Street EB Thru / Right	A	0.0	0	0.00	A	0.0	0	0.00
Power Street WB Left / Thru	A	0.0	0	0.00	A	0.0	0	0.00
Site Driveway NB Left / Right	A	8.8	1	0.02	A	9.0	0	0.01

(S) – Signalized

(U) – Unsignalized

#### 5.4 TRANSPORTATION DEMAND MANAGEMENT PROGRAM

The project's impact on the transportation system is expected to be minimal due to the small scale of the proposed residential redevelopment. However, traffic demand management strategies are proposed in conjunction with the project to further minimize the project's overall impact. The project is located approximately two miles from Downtown Providence which currently has the majority of its routes with separated bicycle facilities. Bicycle parking at the site will assist residents in taking advantage of this roadway network with a total of 18 bicycle parking spaces at the southeast corner of the first floor.

Pedestrian accessibility will be accommodated via the construction of sidewalks along the northern side of the building to tie into the existing sidewalk network surrounding the subject property. Crosswalks are currently provided at the unsignalized intersection of Gano Street at Power Street to the west, which is also surrounded by sidewalks around its perimeter.

Public transportation and car sharing services will also be encouraged and promoted by the management group of the apartment complex. The Owner will coordinate with a car-sharing service provider such as *Zip Car* or *Enterprise Car Share* to provide shared vehicles for common use. The Owner will work with the City of Providence and abutters to identify permanent on-street spaces on Gano Street reserved for car share. In addition, RIPTA's 92 bus services the project area one block to the west, providing public transportation to Downtown Providence and Federal Hill every half hour. As a method to reduce vehicle dependency, residential developments can offer free and reduced transit passes to residents without a vehicle, which have shown can reduce the amount of people driving alone in places like Fox Point.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

In summary, the study has shown that the proposed residential redevelopment project access and circulation plan has been designed to provide a level of traffic safety and efficiency on the servicing roadway system with the recommended improvements. As previously referenced, sight distance to the east is partially limited by trees to the east of the site driveway, and it is recommended they be removed and replaced further south, if possible. The safety of Gano Street and Power Street and specifically its intersection and at the site driveway were also reviewed for geometry and sight distances. The intersections reviewed were determined to provide adequate sight distances in accordance with AASHTO criteria for visibility and decision making of drivers attempting to enter/exit main street traffic from a side street or driveway location.

The results of the operational analysis determined that the estimated minor increase in traffic during the peak periods resulting from the proposed residential project will have a minor impact on overall traffic operations along the servicing roadways and would particularly be noticeable only during the daily morning and afternoon peak hours when the new residential apartments would generate their highest daily traffic volumes. During off-peak traffic conditions associated with the residential use, roadway and intersection operations would be similar to current conditions with no traffic congestion at the main study intersection of Gano Street with Power Street.

Therefore, based upon the data collected on the servicing roadways, and the analysis completed as part of this study, it can be concluded that the future traffic conditions resulting from the proposed residential development will provide for adequate and safe access to a public street, and will not have a detrimental effect on public safety and welfare in the study area.



# APPENDIX

- 
- A. Traffic Volume Data
  - B. Traffic Crash Data
  - C. Trip Generation
  - D. Operational Analysis

# APPENDIX A – Traffic Volume Data

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## **Automatic Traffic Recorder Count**

Gano Street (2021)

Gano Street (2023)

## **Intersection Turning Movement Count**

Gano Street at Power Street

**A**

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**Automatic Traffic Recorder Count**

Gano Street (2021)

Gano Street (2023)



Gano Street (2021)

*Traffic Volumes*

## BETA Group, Inc.

701 George Washington Highway  
Lincoln, Rhode Island 02865  
401.333.2382

Project Name: Gano Street Residential  
Town/City: Providence, RI  
Roadway: Gano Street  
Location: Utility Pole 20

Start Date: 11/18/2021  
End Date: 11/28/2021

Time	11/15/21 Mon	11/16/21 Tue	11/17/21 Wed	11/18/21 Thu	11/19/21 Fri	Weekday Average	11/20/21 Sat	11/21/21 Sun
12:00 AM	*	*	*	*	*	123	123	205
01:00	*	*	*	*	*	83	83	143
02:00	*	*	*	*	*	104	104	146
03:00	*	*	*	*	*	48	48	71
04:00	*	*	*	*	*	54	54	39
05:00	*	*	*	*	*	146	146	93
06:00	*	*	*	*	*	487	487	231
07:00	*	*	*	*	*	1086	1086	390
08:00	*	*	*	*	*	1160	1160	648
09:00	*	*	*	*	*	1079	1079	875
10:00	*	*	*	*	*	1076	1076	989
11:00	*	*	*	*	*	1143	1143	1164
12:00 PM	*	*	*	*	*	1190	1190	1088
01:00	*	*	*	*	*	1220	1220	1127
02:00	*	*	*	*	*	1204	1204	1146
03:00	*	*	*	375	1197	786	1219	975
04:00	*	*	*	1202	1190	1196	1107	966
05:00	*	*	*	1209	1141	1175	928	799
06:00	*	*	*	1011	1014	1012	938	669
07:00	*	*	*	841	830	836	674	512
08:00	*	*	*	631	635	633	520	380
09:00	*	*	*	426	566	496	449	291
10:00	*	*	*	328	382	355	389	172
11:00	*	*	*	211	321	266	278	138
Total	0	0	0	6234	17479	16958	14857	11870
Percent	0.0%	0.0%	0.0%	36.8%	103.1%		87.6%	70.0%
AM Peak					08:00	08:00	11:00	11:00
Volume					1160	1160	1164	901
PM Peak				05:00	01:00	01:00	03:00	02:00
Volume				1209	1220	1220	1219	1012



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Location: Utility Pole 20

Start Date: 11/18/2021  
End Date: 11/28/2021

Time	11/22/21 Mon	11/23/21 Tue	11/24/21 Wed	11/25/21* Thu	11/26/21 Fri	Weekday Average	11/27/21 Sat	11/28/21 Sun
12:00 AM	56	83	128	106	70	89	131	151
01:00	40	39	47	71	48	49	52	74
02:00	22	15	27	61	18	29	51	65
03:00	23	36	33	33	23	30	46	20
04:00	46	52	50	29	29	41	43	25
05:00	170	200	150	39	77	127	64	51
06:00	475	499	451	142	207	355	152	146
07:00	1050	1164	861	239	343	731	301	246
08:00	1153	1244	1028	275	492	838	446	169
09:00	979	1099	1100	369	553	820	695	*
10:00	964	1137	1164	495	700	892	811	*
11:00	993	1148	1198	549	797	937	927	*
12:00 PM	1065	1199	1161	572	836	967	1037	*
01:00	1031	1091	1235	538	926	964	989	*
02:00	1183	1203	1205	481	922	999	997	*
03:00	1162	1122	1225	377	924	962	987	*
04:00	1089	1039	1122	365	872	897	877	*
05:00	1224	1106	976	374	731	882	771	*
06:00	816	1041	819	405	653	747	862	*
07:00	682	805	643	379	568	615	569	*
08:00	466	555	528	377	430	471	466	*
09:00	374	392	397	279	378	364	461	*
10:00	205	292	277	193	288	251	303	*
11:00	144	170	204	145	217	176	202	*
Total	15412	16731	16029	6893	11102	13233	12240	947
Percent	116.5%	126.4%	121.1%	52.1%	83.9%		92.5%	7.2%
AM Peak	08:00	08:00	11:00	11:00	11:00	11:00	11:00	07:00
Volume	1153	1244	1198	549	797	937	927	246
PM Peak	05:00	02:00	01:00	12:00 PM	01:00	02:00	12:00 PM	
Volume	1224	1203	1235	572	926	999	1037	

\* Thanksgiving Day

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 Location: Utility Pole 20

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/15/2021	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday		
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	
12:00 AM	*	*	*	*	*	*	*	*	61	62	61	62	85	120	117	97	
1:00	*	*	*	*	*	*	*	*	45	38	45	38	83	60	66	63	
2:00	*	*	*	*	*	*	*	*	37	67	37	67	55	91	42	43	
3:00	*	*	*	*	*	*	*	*	22	26	22	26	40	31	40	57	
4:00	*	*	*	*	*	*	*	*	32	22	32	22	19	20	34	56	
5:00	*	*	*	*	*	*	*	*	87	59	87	59	52	41	35	25	
6:00	*	*	*	*	*	*	*	*	282	205	282	205	137	94	101	63	
7:00	*	*	*	*	*	*	*	*	620	466	620	466	225	165	184	94	
8:00	*	*	*	*	*	*	*	*	634	526	634	526	383	265	239	203	
9:00	*	*	*	*	*	*	*	*	585	494	585	494	478	397	401	285	
10:00	*	*	*	*	*	*	*	*	608	468	608	468	546	443	498	363	
11:00	*	*	*	*	*	*	*	*	624	519	624	519	683	481	469	432	
12:00 PM	*	*	*	*	*	*	*	*	629	561	629	561	595	493	562	422	
1:00	*	*	*	*	*	*	*	*	698	522	698	522	643	484	509	456	
2:00	*	*	*	*	*	*	*	*	648	556	648	556	638	508	558	454	
3:00	*	*	*	*	*	*	*	208	167	581	616	394	392	645	574	550	425
4:00	*	*	*	*	*	*	*	563	639	536	654	550	646	618	489	562	404
5:00	*	*	*	*	*	*	*	636	573	585	556	610	564	563	365	479	320
6:00	*	*	*	*	*	*	*	548	463	583	431	566	447	516	422	320	349
7:00	*	*	*	*	*	*	*	438	403	438	392	438	398	359	315	293	219
8:00	*	*	*	*	*	*	*	321	310	314	321	318	316	285	235	223	157
9:00	*	*	*	*	*	*	*	208	218	286	280	247	249	232	217	151	140
10:00	*	*	*	*	*	*	*	199	129	193	189	196	159	190	199	98	74
11:00	*	*	*	*	*	*	*	100	111	156	165	128	138	128	150	63	75
Total	0	0	0	0	0	0	0	3221	3013	9284	8195	9059	7900	8198	6659	6594	5276
Day	0	0	0	0	0	0	0	6234	6234	17479	17479	16959	16959	14857	14857	11870	11870
AM Peak									8:00	8:00	8:00	8:00	8:00	11:00	11:00	10:00	11:00
Volume									634	526	634	526	683	481	498	432	432
PM Peak								5:00	4:00	1:00	4:00	1:00	4:00	3:00	3:00	12:00 PM	1:00
Volume								636	639	698	654	698	646	645	574	562	456

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 Roadway: Gano Street  
 Location: Utility Pole 20

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/22/2021	Monday		Tuesday		Wednesday		Thursday*		Friday		Weekday Average		Saturday		Sunday	
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	32	24	40	43	69	59	55	51	41	29	47	41	74	57	87	64
1:00	28	12	22	17	24	23	47	24	30	18	30	19	30	22	39	35
2:00	11	11	10	5	15	12	31	30	12	6	16	13	27	24	39	26
3:00	13	10	21	15	17	16	20	13	16	7	17	12	28	18	14	6
4:00	26	20	26	26	26	24	10	19	20	9	22	20	23	20	16	9
5:00	102	68	126	74	86	64	20	19	51	26	77	50	40	24	35	16
6:00	298	177	301	198	278	173	90	52	126	81	219	136	96	56	88	58
7:00	598	452	683	481	524	337	133	106	212	131	430	301	175	126	132	114
8:00	563	590	661	583	595	433	146	129	285	207	450	388	255	191	95	74
9:00	557	422	612	487	632	468	175	194	332	221	462	358	394	301	*	*
10:00	522	442	628	509	618	546	236	259	363	337	473	419	444	367	*	*
11:00	522	471	609	539	635	563	253	296	457	340	495	442	496	431	*	*
12:00 PM	538	527	616	583	627	534	290	282	452	384	505	462	568	469	*	*
1:00	537	494	550	541	678	557	264	274	512	414	508	456	545	444	*	*
2:00	612	571	651	552	637	568	266	215	525	397	538	461	551	446	*	*
3:00	561	601	550	572	637	588	197	180	504	420	490	472	568	419	*	*
4:00	494	595	428	611	589	533	195	170	443	429	430	468	494	383	*	*
5:00	613	611	524	582	500	476	214	160	430	301	456	426	467	304	*	*
6:00	447	369	584	457	457	362	242	163	374	279	421	326	480	382	*	*
7:00	374	308	418	387	350	293	226	153	319	249	337	278	317	252	*	*
8:00	253	213	277	278	288	240	224	153	219	211	252	219	266	200	*	*
9:00	211	163	186	206	190	207	188	91	194	184	194	170	222	239	*	*
10:00	104	101	135	157	143	134	134	59	153	135	134	117	154	149	*	*
11:00	69	75	92	78	98	106	90	55	120	97	94	82	112	90	*	*
Total	8085	7327	8750	7981	8713	7316	3746	3147	6190	4912	7097	6136	6826	5414	545	402
Day	15412		16731		16029		6893		11102		13233		12240		947	
AM Peak	7:00	8:00	7:00	8:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	7:00	7:00
Volume	598	590	683	583	635	563	253	296	457	340	495	442	496	431	132	114
PM Peak	5:00	5:00	2:00	4:00	1:00	3:00	12:00 PM	12:00 PM	2:00	4:00	2:00	3:00	12:00 PM	12:00 PM		
Volume	613	611	651	611	678	588	290	282	525	429	538	472	568	469		
Comb Total	15412		16731		16029		13127		28581		30192		27097		12817	
ADT	ADT: 13,558		AADT: 13,558													

\* Thanksgiving Day



*Speeds*

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 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/18/2021 Time	0 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 - 55 MPH	> 55 - 60 MPH	> 60 - 65 MPH	> 65 - 70 MPH	> 70 MPH	Total
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	70	114	23	1	0	0	0	0	0	0	0	0	0	208
4:00	79	292	173	19	0	0	0	0	0	0	0	0	0	563
5:00	52	356	200	26	0	1	1	0	0	0	0	0	0	636
6:00	47	234	235	30	2	0	0	0	0	0	0	0	0	548
7:00	28	157	223	26	2	1	0	0	1	0	0	0	0	438
8:00	16	126	137	39	3	0	0	0	0	0	0	0	0	321
9:00	7	54	117	28	2	0	0	0	0	0	0	0	0	208
10:00	7	45	105	38	3	1	0	0	0	0	0	0	0	199
11:00	7	36	39	13	5	0	0	0	0	0	0	0	0	100
<b>Total</b>	<b>313</b>	<b>1414</b>	<b>1252</b>	<b>220</b>	<b>17</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3221</b>

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 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/19/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	3	15	33	9	1	0	0	0	0	0	0	0	0	61
1:00	8	7	24	6	0	0	0	0	0	0	0	0	0	45
2:00	2	13	10	9	2	1	0	0	0	0	0	0	0	37
3:00	7	2	7	5	1	0	0	0	0	0	0	0	0	22
4:00	2	3	13	12	1	1	0	0	0	0	0	0	0	32
5:00	0	17	36	29	3	2	0	0	0	0	0	0	0	87
6:00	4	48	149	71	10	0	0	0	0	0	0	0	0	282
7:00	27	227	295	59	7	2	0	1	2	0	0	0	0	620
8:00	25	316	254	33	3	1	2	0	0	0	0	0	0	634
9:00	35	250	231	61	4	3	0	1	0	0	0	0	0	585
10:00	53	241	263	47	3	0	1	0	0	0	0	0	0	608
11:00	76	251	244	48	3	1	1	0	0	0	0	0	0	624
12:00 PM	91	303	203	27	3	2	0	0	0	0	0	0	0	629
1:00	101	385	195	13	3	0	1	0	0	0	0	0	0	698
2:00	83	263	268	30	3	1	0	0	0	0	0	0	0	648
3:00	93	291	168	21	2	4	2	0	0	0	0	0	0	581
4:00	35	278	198	21	1	1	2	0	0	0	0	0	0	536
5:00	56	296	210	15	4	3	1	0	0	0	0	0	0	585
6:00	51	316	185	28	3	0	0	0	0	0	0	0	0	583
7:00	10	126	254	46	1	0	0	1	0	0	0	0	0	438
8:00	2	97	167	44	2	2	0	0	0	0	0	0	0	314
9:00	12	106	142	25	0	1	0	0	0	0	0	0	0	286
10:00	20	46	94	31	2	0	0	0	0	0	0	0	0	193
11:00	20	46	64	21	4	1	0	0	0	0	0	0	0	156
<b>Total</b>	<b>816</b>	<b>3943</b>	<b>3707</b>	<b>711</b>	<b>66</b>	<b>26</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9284</b>



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 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/20/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	4	17	40	22	2	0	0	0	0	0	0	0	0	85
1:00	4	14	47	11	4	2	1	0	0	0	0	0	0	83
2:00	1	13	24	13	2	2	0	0	0	0	0	0	0	55
3:00	0	5	24	8	2	1	0	0	0	0	0	0	0	40
4:00	0	2	11	5	1	0	0	0	0	0	0	0	0	19
5:00	3	7	33	8	1	0	0	0	0	0	0	0	0	52
6:00	1	18	68	44	5	0	1	0	0	0	0	0	0	137
7:00	2	29	115	67	10	2	0	0	0	0	0	0	0	225
8:00	4	75	236	58	8	1	1	0	0	0	0	0	0	383
9:00	7	141	266	53	8	2	0	0	1	0	0	0	0	478
10:00	14	158	305	63	5	0	1	0	0	0	0	0	0	546
11:00	60	304	266	45	7	0	0	1	0	0	0	0	0	683
12:00 PM	27	245	273	44	3	2	1	0	0	0	0	0	0	595
1:00	40	309	254	35	3	0	2	0	0	0	0	0	0	643
2:00	35	304	261	36	2	0	0	0	0	0	0	0	0	638
3:00	73	348	207	14	3	0	0	0	0	0	0	0	0	645
4:00	25	328	234	25	3	1	0	2	0	0	0	0	0	618
5:00	39	269	228	26	0	0	1	0	0	0	0	0	0	563
6:00	39	198	241	34	2	1	1	0	0	0	0	0	0	516
7:00	11	85	229	30	3	1	0	0	0	0	0	0	0	359
8:00	10	77	140	54	2	0	1	0	1	0	0	0	0	285
9:00	17	67	113	33	2	0	0	0	0	0	0	0	0	232
10:00	12	42	99	35	2	0	0	0	0	0	0	0	0	190
11:00	5	36	64	20	3	0	0	0	0	0	0	0	0	128
<b>Total</b>	<b>433</b>	<b>3091</b>	<b>3778</b>	<b>783</b>	<b>83</b>	<b>15</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8198</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/21/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	17	24	55	18	2	0	0	0	0	1	0	0	0	117
1:00	5	16	27	14	3	0	1	0	0	0	0	0	0	66
2:00	2	7	26	6	1	0	0	0	0	0	0	0	0	42
3:00	1	9	17	10	2	0	1	0	0	0	0	0	0	40
4:00	0	3	16	14	1	0	0	0	0	0	0	0	0	34
5:00	0	8	12	13	2	0	0	0	0	0	0	0	0	35
6:00	2	12	47	32	8	0	0	0	0	0	0	0	0	101
7:00	0	25	90	55	13	0	1	0	0	0	0	0	0	184
8:00	3	58	132	40	3	2	0	0	0	1	0	0	0	239
9:00	10	90	214	79	5	1	0	2	0	0	0	0	0	401
10:00	5	168	267	52	5	0	0	0	1	0	0	0	0	498
11:00	16	130	268	51	3	0	0	1	0	0	0	0	0	469
12:00 PM	17	196	286	56	5	1	0	1	0	0	0	0	0	562
1:00	16	182	259	47	3	0	2	0	0	0	0	0	0	509
2:00	24	207	273	52	2	0	0	0	0	0	0	0	0	558
3:00	28	218	251	50	3	0	0	0	0	0	0	0	0	550
4:00	24	213	286	33	3	0	2	1	0	0	0	0	0	562
5:00	11	174	256	38	0	0	0	0	0	0	0	0	0	479
6:00	5	84	190	36	5	0	0	0	0	0	0	0	0	320
7:00	4	75	173	36	3	0	0	0	1	0	1	0	0	293
8:00	2	44	133	41	3	0	0	0	0	0	0	0	0	223
9:00	5	38	74	28	5	1	0	0	0	0	0	0	0	151
10:00	4	18	51	21	4	0	0	0	0	0	0	0	0	98
11:00	3	13	30	15	2	0	0	0	0	0	0	0	0	63
<b>Total</b>	<b>204</b>	<b>2012</b>	<b>3433</b>	<b>837</b>	<b>86</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6594</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/22/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	3	4	19	5	1	0	0	0	0	0	0	0	0	32
1:00	1	5	13	7	1	1	0	0	0	0	0	0	0	28
2:00	1	1	5	4	0	0	0	0	0	0	0	0	0	11
3:00	0	2	5	4	2	0	0	0	0	0	0	0	0	13
4:00	0	2	9	12	3	0	0	0	0	0	0	0	0	26
5:00	5	20	50	24	2	0	0	0	1	0	0	0	0	102
6:00	1	56	192	44	5	0	0	0	0	0	0	0	0	298
7:00	86	227	250	32	0	1	0	0	2	0	0	0	0	598
8:00	58	239	232	29	3	2	0	0	0	0	0	0	0	563
9:00	51	255	222	26	2	0	0	1	0	0	0	0	0	557
10:00	16	228	233	37	5	2	0	1	0	0	0	0	0	522
11:00	18	185	243	68	5	1	0	2	0	0	0	0	0	522
12:00 PM	39	220	227	50	1	0	1	0	0	0	0	0	0	538
1:00	94	243	174	20	4	2	0	0	0	0	0	0	0	537
2:00	144	328	126	11	3	0	0	0	0	0	0	0	0	612
3:00	248	260	49	4	0	0	0	0	0	0	0	0	0	561
4:00	156	238	90	9	1	0	0	0	0	0	0	0	0	494
5:00	46	288	258	20	1	0	0	0	0	0	0	0	0	613
6:00	16	117	272	35	2	1	1	3	0	0	0	0	0	447
7:00	4	108	214	46	2	0	0	0	0	0	0	0	0	374
8:00	4	60	141	45	3	0	0	0	0	0	0	0	0	253
9:00	2	42	121	44	1	1	0	0	0	0	0	0	0	211
10:00	3	18	65	13	4	1	0	0	0	0	0	0	0	104
11:00	1	9	39	17	3	0	0	0	0	0	0	0	0	69
<b>Total</b>	<b>997</b>	<b>3155</b>	<b>3249</b>	<b>606</b>	<b>54</b>	<b>12</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8085</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/23/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	7	22	8	2	0	0	0	1	0	0	0	0	40
1:00	0	2	13	7	0	0	0	0	0	0	0	0	0	22
2:00	0	2	3	4	1	0	0	0	0	0	0	0	0	10
3:00	2	0	11	7	1	0	0	0	0	0	0	0	0	21
4:00	0	2	10	10	4	0	0	0	0	0	0	0	0	26
5:00	0	27	54	41	4	0	0	0	0	0	0	0	0	126
6:00	2	50	197	47	4	0	0	0	1	0	0	0	0	301
7:00	47	271	285	70	5	2	2	1	0	0	0	0	0	683
8:00	136	311	189	25	0	0	0	0	0	0	0	0	0	661
9:00	50	256	259	44	1	1	1	0	0	0	0	0	0	612
10:00	31	283	266	41	6	0	1	0	0	0	0	0	0	628
11:00	99	258	216	32	0	1	2	1	0	0	0	0	0	609
12:00 PM	43	271	251	44	3	1	2	1	0	0	0	0	0	616
1:00	45	266	200	29	6	0	4	0	0	0	0	0	0	550
2:00	79	347	205	16	2	0	1	1	0	0	0	0	0	651
3:00	184	232	124	10	0	0	0	0	0	0	0	0	0	550
4:00	50	162	171	39	4	1	1	0	0	0	0	0	0	428
5:00	45	240	211	26	1	1	0	0	0	0	0	0	0	524
6:00	35	243	263	42	0	0	1	0	0	0	0	0	0	584
7:00	5	115	239	51	7	0	1	0	0	0	0	0	0	418
8:00	6	69	150	47	4	0	0	1	0	0	0	0	0	277
9:00	1	34	101	41	8	0	0	1	0	0	0	0	0	186
10:00	0	20	72	40	3	0	0	0	0	0	0	0	0	135
11:00	1	18	42	27	4	0	0	0	0	0	0	0	0	92
<b>Total</b>	<b>861</b>	<b>3486</b>	<b>3554</b>	<b>748</b>	<b>70</b>	<b>7</b>	<b>16</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8750</b>



**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/24/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	1	16	35	16	1	0	0	0	0	0	0	0	0	69
1:00	0	7	13	4	0	0	0	0	0	0	0	0	0	24
2:00	0	2	8	5	0	0	0	0	0	0	0	0	0	15
3:00	1	2	4	6	4	0	0	0	0	0	0	0	0	17
4:00	1	3	10	10	2	0	0	0	0	0	0	0	0	26
5:00	1	8	41	31	5	0	0	0	0	0	0	0	0	86
6:00	2	68	130	67	8	3	0	0	0	0	0	0	0	278
7:00	19	143	278	73	9	1	1	0	0	0	0	0	0	524
8:00	40	207	298	42	3	1	2	1	1	0	0	0	0	595
9:00	14	255	306	53	4	0	0	0	0	0	0	0	0	632
10:00	17	251	305	42	1	0	2	0	0	0	0	0	0	618
11:00	14	249	316	52	4	0	0	0	0	0	0	0	0	635
12:00 PM	66	276	251	32	2	0	0	0	0	0	0	0	0	627
1:00	126	301	222	27	2	0	0	0	0	0	0	0	0	678
2:00	48	270	288	26	3	2	0	0	0	0	0	0	0	637
3:00	49	295	258	34	1	0	0	0	0	0	0	0	0	637
4:00	18	282	259	29	0	1	0	0	0	0	0	0	0	589
5:00	15	164	267	48	6	0	0	0	0	0	0	0	0	500
6:00	13	132	243	67	1	1	0	0	0	0	0	0	0	457
7:00	7	83	191	61	5	0	3	0	0	0	0	0	0	350
8:00	2	62	183	36	5	0	0	0	0	0	0	0	0	288
9:00	2	43	108	31	6	0	0	0	0	0	0	0	0	190
10:00	2	29	86	22	3	0	1	0	0	0	0	0	0	143
11:00	0	15	49	27	6	1	0	0	0	0	0	0	0	98
<b>Total</b>	<b>458</b>	<b>3163</b>	<b>4149</b>	<b>841</b>	<b>81</b>	<b>10</b>	<b>9</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8713</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/25/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	1	8	30	15	1	0	0	0	0	0	0	0	0	55
1:00	0	9	16	19	3	0	0	0	0	0	0	0	0	47
2:00	0	2	16	11	2	0	0	0	0	0	0	0	0	31
3:00	0	6	8	4	2	0	0	0	0	0	0	0	0	20
4:00	0	2	6	2	0	0	0	0	0	0	0	0	0	10
5:00	2	5	8	5	0	0	0	0	0	0	0	0	0	20
6:00	1	10	37	34	8	0	0	0	0	0	0	0	0	90
7:00	3	20	56	42	10	2	0	0	0	0	0	0	0	133
8:00	5	23	66	46	5	1	0	0	0	0	0	0	0	146
9:00	3	32	87	43	8	1	1	0	0	0	0	0	0	175
10:00	7	51	114	50	11	2	1	0	0	0	0	0	0	236
11:00	5	60	128	53	6	0	1	0	0	0	0	0	0	253
12:00 PM	1	62	157	60	10	0	0	0	0	0	0	0	0	290
1:00	7	46	153	50	8	0	0	0	0	0	0	0	0	264
2:00	10	48	144	59	4	1	0	0	0	0	0	0	0	266
3:00	2	38	111	40	5	0	1	0	0	0	0	0	0	197
4:00	5	36	112	41	1	0	0	0	0	0	0	0	0	195
5:00	3	33	139	35	4	0	0	0	0	0	0	0	0	214
6:00	8	57	132	41	4	0	0	0	0	0	0	0	0	242
7:00	2	57	106	59	2	0	0	0	0	0	0	0	0	226
8:00	2	41	134	40	6	1	0	0	0	0	0	0	0	224
9:00	4	39	111	31	3	0	0	0	0	0	0	0	0	188
10:00	2	27	72	32	0	0	1	0	0	0	0	0	0	134
11:00	1	10	56	21	2	0	0	0	0	0	0	0	0	90
<b>Total</b>	<b>74</b>	<b>722</b>	<b>1999</b>	<b>833</b>	<b>105</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3746</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/26/2021 Time	0 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 - 55 MPH	> 55 - 60 MPH	> 60 - 65 MPH	> 65 - 70 MPH	> 70 MPH	Total
12:00 AM	1	9	24	4	3	0	0	0	0	0	0	0	0	41
1:00	1	5	15	6	3	0	0	0	0	0	0	0	0	30
2:00	0	0	11	1	0	0	0	0	0	0	0	0	0	12
3:00	1	1	10	3	1	0	0	0	0	0	0	0	0	16
4:00	0	4	8	5	1	2	0	0	0	0	0	0	0	20
5:00	1	5	28	15	2	0	0	0	0	0	0	0	0	51
6:00	3	15	67	34	7	0	0	0	0	0	0	0	0	126
7:00	7	43	95	55	11	0	0	0	1	0	0	0	0	212
8:00	12	56	159	51	7	0	0	0	0	0	0	0	0	285
9:00	6	65	185	60	13	0	0	1	1	0	1	0	0	332
10:00	9	114	200	37	3	0	0	0	0	0	0	0	0	363
11:00	4	141	246	56	8	0	1	1	0	0	0	0	0	457
12:00 PM	13	131	228	74	3	0	2	1	0	0	0	0	0	452
1:00	7	191	266	40	7	1	0	0	0	0	0	0	0	512
2:00	10	143	299	65	6	2	0	0	0	0	0	0	0	525
3:00	8	152	272	64	7	1	0	0	0	0	0	0	0	504
4:00	18	105	265	53	2	0	0	0	0	0	0	0	0	443
5:00	2	119	256	51	1	0	0	1	0	0	0	0	0	430
6:00	1	82	238	48	4	1	0	0	0	0	0	0	0	374
7:00	5	72	194	43	3	0	2	0	0	0	0	0	0	319
8:00	1	51	117	44	4	2	0	0	0	0	0	0	0	219
9:00	1	29	111	42	8	2	1	0	0	0	0	0	0	194
10:00	1	28	82	37	3	2	0	0	0	0	0	0	0	153
11:00	0	15	72	25	6	1	0	1	0	0	0	0	0	120
<b>Total</b>	<b>112</b>	<b>1576</b>	<b>3448</b>	<b>913</b>	<b>113</b>	<b>14</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6190</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/27/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	1	10	35	20	5	2	0	0	1	0	0	0	0	74
1:00	0	3	16	9	2	0	0	0	0	0	0	0	0	30
2:00	0	3	16	6	2	0	0	0	0	0	0	0	0	27
3:00	0	4	15	7	2	0	0	0	0	0	0	0	0	28
4:00	0	2	12	7	2	0	0	0	0	0	0	0	0	23
5:00	1	9	14	15	1	0	0	0	0	0	0	0	0	40
6:00	1	12	40	37	5	0	1	0	0	0	0	0	0	96
7:00	6	21	87	50	10	0	1	0	0	0	0	0	0	175
8:00	1	27	124	89	11	0	1	2	0	0	0	0	0	255
9:00	2	79	217	82	13	0	1	0	0	0	0	0	0	394
10:00	7	93	249	84	8	2	0	1	0	0	0	0	0	444
11:00	8	134	255	87	9	2	0	0	1	0	0	0	0	496
12:00 PM	10	137	330	86	4	1	0	0	0	0	0	0	0	568
1:00	27	197	264	53	4	0	0	0	0	0	0	0	0	545
2:00	12	155	308	70	4	0	0	2	0	0	0	0	0	551
3:00	17	173	305	67	5	0	1	0	0	0	0	0	0	568
4:00	17	175	255	45	1	1	0	0	0	0	0	0	0	494
5:00	13	171	243	35	3	0	2	0	0	0	0	0	0	467
6:00	9	154	280	35	2	0	0	0	0	0	0	0	0	480
7:00	2	74	198	39	4	0	0	0	0	0	0	0	0	317
8:00	7	47	161	43	8	0	0	0	0	0	0	0	0	266
9:00	2	36	148	32	3	0	1	0	0	0	0	0	0	222
10:00	0	16	90	44	3	1	0	0	0	0	0	0	0	154
11:00	1	26	52	29	4	0	0	0	0	0	0	0	0	112
<b>Total</b>	<b>144</b>	<b>1758</b>	<b>3714</b>	<b>1071</b>	<b>115</b>	<b>9</b>	<b>8</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6826</b>



**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: NB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/28/2021 Time	0 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 - 55 MPH	> 55 - 60 MPH	> 60 - 65 MPH	> 65 - 70 MPH	> 70 MPH	Total
12:00 AM	0	15	51	19	1	1	0	0	0	0	0	0	0	87
1:00	0	5	18	14	0	1	0	1	0	0	0	0	0	39
2:00	0	6	20	10	3	0	0	0	0	0	0	0	0	39
3:00	0	1	4	5	2	2	0	0	0	0	0	0	0	14
4:00	0	0	10	4	2	0	0	0	0	0	0	0	0	16
5:00	0	4	17	13	1	0	0	0	0	0	0	0	0	35
6:00	2	10	41	31	3	0	0	1	0	0	0	0	0	88
7:00	5	11	59	46	10	1	0	0	0	0	0	0	0	132
8:00	0	15	38	37	4	1	0	0	0	0	0	0	0	95
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
<b>Total</b>	<b>7</b>	<b>67</b>	<b>258</b>	<b>179</b>	<b>26</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>545</b>
<b>Grand Total</b>	<b>4419</b>	<b>24387</b>	<b>32541</b>	<b>7742</b>	<b>816</b>	<b>115</b>	<b>74</b>	<b>37</b>	<b>17</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>70152</b>
<b>Stats</b>														
Percentile				15th	50th	85th	95th							
Speed				17.3	21	24.8	27.2							
Mean Speed (Average)				20.6										
10 MPH Pace Speed				15-24										
Number in Pace				56307										
Percent in Pace				80.3%										
Number > 25 MPH				8805										
Percent > 25 MPH				12.6%										

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/18/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	110	27	20	9	1	0	0	0	0	0	0	0	0	167
4:00	126	131	284	74	12	6	2	4	0	0	0	0	0	639
5:00	107	130	233	82	10	6	2	1	2	0	0	0	0	573
6:00	25	93	242	89	12	2	0	0	0	0	0	0	0	463
7:00	20	72	184	100	22	3	2	0	0	0	0	0	0	403
8:00	19	43	160	72	12	2	2	0	0	0	0	0	0	310
9:00	9	36	93	63	13	1	1	1	1	0	0	0	0	218
10:00	11	15	54	39	7	2	0	0	0	1	0	0	0	129
11:00	6	25	39	36	5	0	0	0	0	0	0	0	0	111
<b>Total</b>	<b>433</b>	<b>572</b>	<b>1309</b>	<b>564</b>	<b>94</b>	<b>22</b>	<b>9</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3013</b>

**BETA Group, Inc.**

701 George Washington Highway  
Lincoln, Rhode Island 02865  
401.333.2382

Project Name: Gano Street Residential  
Town/City: Providence, RI  
Roadway: Gano Street  
Location: Utility Pole 20  
Direction: SB

Start Date: 11/18/2021  
End Date: 11/28/2021

11/19/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	7	8	22	16	8	1	0	0	0	0	0	0	0	62
1:00	3	8	9	15	3	0	0	0	0	0	0	0	0	38
2:00	1	13	29	19	4	1	0	0	0	0	0	0	0	67
3:00	1	3	8	13	1	0	0	0	0	0	0	0	0	26
4:00	0	1	8	8	5	0	0	0	0	0	0	0	0	22
5:00	3	10	20	21	4	1	0	0	0	0	0	0	0	59
6:00	1	19	78	74	28	4	1	0	0	0	0	0	0	205
7:00	15	66	218	133	21	9	4	0	0	0	0	0	0	466
8:00	41	132	247	84	15	4	0	0	3	0	0	0	0	526
9:00	23	74	261	109	14	7	3	0	3	0	0	0	0	494
10:00	25	89	216	107	14	6	2	7	2	0	0	0	0	468
11:00	20	80	241	135	27	1	5	8	2	0	0	0	0	519
12:00 PM	91	172	228	60	3	4	3	0	0	0	0	0	0	561
1:00	53	152	221	68	15	3	10	0	0	0	0	0	0	522
2:00	34	133	258	107	17	1	2	4	0	0	0	0	0	556
3:00	270	158	135	40	7	4	1	0	1	0	0	0	0	616
4:00	94	206	272	72	4	3	2	1	0	0	0	0	0	654
5:00	64	155	216	103	15	0	2	1	0	0	0	0	0	556
6:00	28	80	206	95	13	5	2	1	0	1	0	0	0	431
7:00	12	52	180	127	16	3	0	1	1	0	0	0	0	392
8:00	3	52	140	99	21	2	3	1	0	0	0	0	0	321
9:00	22	38	131	81	7	1	0	0	0	0	0	0	0	280
10:00	24	21	69	49	22	1	3	0	0	0	0	0	0	189
11:00	18	18	51	66	11	1	0	0	0	0	0	0	0	165
Total	853	1740	3464	1701	295	62	43	24	12	1	0	0	0	8195

**BETA Group, Inc.**

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Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/20/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	6	17	40	40	15	2	0	0	0	0	0	0	0	120
1:00	2	9	17	25	7	0	0	0	0	0	0	0	0	60
2:00	0	9	36	35	10	1	0	0	0	0	0	0	0	91
3:00	0	3	5	17	4	0	2	0	0	0	0	0	0	31
4:00	0	1	7	7	4	1	0	0	0	0	0	0	0	20
5:00	0	3	12	21	5	0	0	0	0	0	0	0	0	41
6:00	2	5	32	44	10	1	0	0	0	0	0	0	0	94
7:00	8	8	61	64	21	3	0	0	0	0	0	0	0	165
8:00	3	29	98	104	24	6	0	1	0	0	0	0	0	265
9:00	18	43	192	106	26	5	5	2	0	0	0	0	0	397
10:00	11	66	215	117	21	6	4	2	1	0	0	0	0	443
11:00	27	86	220	129	14	2	2	0	1	0	0	0	0	481
12:00 PM	37	106	245	84	13	3	3	1	1	0	0	0	0	493
1:00	20	96	255	91	14	2	5	1	0	0	0	0	0	484
2:00	38	128	211	104	16	5	3	1	2	0	0	0	0	508
3:00	72	188	246	58	6	1	2	1	0	0	0	0	0	574
4:00	19	127	226	92	10	6	3	3	3	0	0	0	0	489
5:00	27	84	171	67	9	5	1	1	0	0	0	0	0	365
6:00	15	93	207	93	11	0	1	2	0	0	0	0	0	422
7:00	3	38	177	79	13	2	2	1	0	0	0	0	0	315
8:00	15	32	92	69	23	1	2	1	0	0	0	0	0	235
9:00	30	34	94	49	9	1	0	0	0	0	0	0	0	217
10:00	28	22	77	57	14	0	1	0	0	0	0	0	0	199
11:00	11	17	53	48	20	1	0	0	0	0	0	0	0	150
Total	392	1244	2989	1600	319	54	36	17	8	0	0	0	0	6659

**BETA Group, Inc.**

701 George Washington Highway  
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Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/21/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	4	9	37	40	5	2	0	0	0	0	0	0	0	97
1:00	3	6	22	22	9	1	0	0	0	0	0	0	0	63
2:00	1	9	20	4	5	4	0	0	0	0	0	0	0	43
3:00	0	6	20	19	12	0	0	0	0	0	0	0	0	57
4:00	0	3	21	26	4	0	2	0	0	0	0	0	0	56
5:00	2	3	7	9	2	2	0	0	0	0	0	0	0	25
6:00	0	4	10	34	10	3	1	0	1	0	0	0	0	63
7:00	3	11	41	26	13	0	0	0	0	0	0	0	0	94
8:00	4	12	70	87	25	1	2	1	1	0	0	0	0	203
9:00	2	18	119	113	25	6	0	2	0	0	0	0	0	285
10:00	9	46	160	131	6	3	7	1	0	0	0	0	0	363
11:00	26	74	217	96	12	4	2	1	0	0	0	0	0	432
12:00 PM	22	64	209	105	12	5	4	0	1	0	0	0	0	422
1:00	20	92	203	116	17	0	3	0	5	0	0	0	0	456
2:00	21	102	219	87	18	3	2	0	0	2	0	0	0	454
3:00	29	98	209	76	12	0	0	0	0	1	0	0	0	425
4:00	15	66	214	86	13	5	3	1	0	1	0	0	0	404
5:00	6	60	152	88	13	1	0	0	0	0	0	0	0	320
6:00	5	36	156	129	17	2	4	0	0	0	0	0	0	349
7:00	1	22	98	74	22	2	0	0	0	0	0	0	0	219
8:00	3	19	64	55	15	0	0	1	0	0	0	0	0	157
9:00	3	13	53	53	15	2	0	1	0	0	0	0	0	140
10:00	2	8	28	29	4	3	0	0	0	0	0	0	0	74
11:00	5	6	25	25	12	1	1	0	0	0	0	0	0	75
<b>Total</b>	<b>186</b>	<b>787</b>	<b>2374</b>	<b>1530</b>	<b>298</b>	<b>50</b>	<b>31</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5276</b>



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701 George Washington Highway  
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Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/22/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	2	6	12	2	2	0	0	0	0	0	0	0	24
1:00	0	1	4	7	0	0	0	0	0	0	0	0	0	12
2:00	0	2	4	5	0	0	0	0	0	0	0	0	0	11
3:00	0	1	4	4	1	0	0	0	0	0	0	0	0	10
4:00	1	2	9	6	2	0	0	0	0	0	0	0	0	20
5:00	2	8	14	31	12	1	0	0	0	0	0	0	0	68
6:00	3	19	50	78	22	2	3	0	0	0	0	0	0	177
7:00	19	54	230	123	21	2	2	0	1	0	0	0	0	452
8:00	37	134	274	122	16	4	2	1	0	0	0	0	0	590
9:00	25	76	221	86	9	4	1	0	0	0	0	0	0	422
10:00	40	128	183	73	6	3	5	2	2	0	0	0	0	442
11:00	34	59	245	109	19	1	1	2	1	0	0	0	0	471
12:00 PM	44	118	224	126	9	4	0	2	0	0	0	0	0	527
1:00	62	238	155	30	0	2	1	5	1	0	0	0	0	494
2:00	127	304	113	19	3	4	0	0	0	1	0	0	0	571
3:00	228	268	96	6	2	1	0	0	0	0	0	0	0	601
4:00	154	260	134	36	4	3	1	2	0	1	0	0	0	595
5:00	71	140	293	89	12	2	3	1	0	0	0	0	0	611
6:00	10	35	197	106	11	2	7	1	0	0	0	0	0	369
7:00	6	25	171	92	8	4	1	1	0	0	0	0	0	308
8:00	6	20	91	74	19	0	1	2	0	0	0	0	0	213
9:00	4	4	73	63	16	2	1	0	0	0	0	0	0	163
10:00	0	5	37	43	15	1	0	0	0	0	0	0	0	101
11:00	0	4	23	37	11	0	0	0	0	0	0	0	0	75
<b>Total</b>	<b>873</b>	<b>1907</b>	<b>2851</b>	<b>1377</b>	<b>220</b>	<b>44</b>	<b>29</b>	<b>19</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7327</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
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Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/23/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	6	11	20	5	1	0	0	0	0	0	0	0	43
1:00	0	2	9	5	1	0	0	0	0	0	0	0	0	17
2:00	1	2	0	2	0	0	0	0	0	0	0	0	0	5
3:00	0	1	2	7	4	0	1	0	0	0	0	0	0	15
4:00	0	2	10	10	4	0	0	0	0	0	0	0	0	26
5:00	2	6	26	31	8	1	0	0	0	0	0	0	0	74
6:00	3	21	61	80	29	4	0	0	0	0	0	0	0	198
7:00	29	66	227	128	16	7	6	2	0	0	0	0	0	481
8:00	64	115	273	104	18	5	1	3	0	0	0	0	0	583
9:00	64	146	182	73	14	4	0	4	0	0	0	0	0	487
10:00	17	90	239	137	13	9	2	2	0	0	0	0	0	509
11:00	64	133	259	62	11	1	4	2	3	0	0	0	0	539
12:00 PM	35	180	273	68	14	7	3	3	0	0	0	0	0	583
1:00	135	128	193	69	6	1	8	1	0	0	0	0	0	541
2:00	155	154	175	53	4	4	2	2	3	0	0	0	0	552
3:00	351	106	90	21	1	2	1	0	0	0	0	0	0	572
4:00	176	115	218	77	16	3	1	2	3	0	0	0	0	611
5:00	192	124	184	66	4	6	4	1	1	0	0	0	0	582
6:00	5	52	247	124	17	1	3	6	2	0	0	0	0	457
7:00	4	65	191	103	21	2	0	0	1	0	0	0	0	387
8:00	2	40	135	81	15	3	2	0	0	0	0	0	0	278
9:00	1	15	97	73	15	3	2	0	0	0	0	0	0	206
10:00	1	15	53	67	18	1	2	0	0	0	0	0	0	157
11:00	0	4	29	38	6	1	0	0	0	0	0	0	0	78
<b>Total</b>	<b>1301</b>	<b>1588</b>	<b>3184</b>	<b>1499</b>	<b>260</b>	<b>66</b>	<b>42</b>	<b>28</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7981</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/24/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	2	5	18	21	9	2	0	0	1	1	0	0	0	59
1:00	2	3	4	10	4	0	0	0	0	0	0	0	0	23
2:00	0	2	5	4	1	0	0	0	0	0	0	0	0	12
3:00	0	0	7	4	3	2	0	0	0	0	0	0	0	16
4:00	0	5	7	11	0	1	0	0	0	0	0	0	0	24
5:00	0	5	17	29	11	2	0	0	0	0	0	0	0	64
6:00	2	13	72	61	20	4	0	1	0	0	0	0	0	173
7:00	9	44	142	99	32	3	6	0	2	0	0	0	0	337
8:00	16	65	184	137	26	1	2	2	0	0	0	0	0	433
9:00	13	78	193	138	34	4	5	1	2	0	0	0	0	468
10:00	28	83	288	111	23	6	6	1	0	0	0	0	0	546
11:00	35	132	262	103	20	8	2	1	0	0	0	0	0	563
12:00 PM	118	119	201	81	9	3	2	0	1	0	0	0	0	534
1:00	60	113	278	90	11	4	0	1	0	0	0	0	0	557
2:00	51	122	262	101	12	7	3	6	2	2	0	0	0	568
3:00	124	138	226	77	12	9	1	1	0	0	0	0	0	588
4:00	25	153	240	93	7	9	1	3	1	0	1	0	0	533
5:00	16	77	231	121	26	0	2	2	1	0	0	0	0	476
6:00	4	37	175	119	23	2	0	1	1	0	0	0	0	362
7:00	2	34	135	96	22	2	2	0	0	0	0	0	0	293
8:00	2	29	128	70	11	0	0	0	0	0	0	0	0	240
9:00	2	23	98	71	12	1	0	0	0	0	0	0	0	207
10:00	1	20	49	51	12	1	0	0	0	0	0	0	0	134
11:00	2	2	34	54	12	2	0	0	0	0	0	0	0	106
<b>Total</b>	<b>514</b>	<b>1302</b>	<b>3256</b>	<b>1752</b>	<b>352</b>	<b>73</b>	<b>32</b>	<b>20</b>	<b>11</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>7316</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/25/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	1	19	23	7	0	1	0	0	0	0	0	0	51
1:00	0	3	6	9	5	1	0	0	0	0	0	0	0	24
2:00	0	4	12	11	1	2	0	0	0	0	0	0	0	30
3:00	0	2	5	4	2	0	0	0	0	0	0	0	0	13
4:00	0	3	8	6	2	0	0	0	0	0	0	0	0	19
5:00	0	2	10	5	2	0	0	0	0	0	0	0	0	19
6:00	1	4	16	23	7	1	0	0	0	0	0	0	0	52
7:00	0	6	39	39	18	3	1	0	0	0	0	0	0	106
8:00	16	4	42	58	8	1	0	0	0	0	0	0	0	129
9:00	0	21	78	84	10	0	1	0	0	0	0	0	0	194
10:00	5	22	97	107	22	3	0	3	0	0	0	0	0	259
11:00	6	17	116	129	20	4	4	0	0	0	0	0	0	296
12:00 PM	6	34	100	104	33	2	3	0	0	0	0	0	0	282
1:00	4	25	94	110	34	3	4	0	0	0	0	0	0	274
2:00	7	22	61	87	32	4	0	1	1	0	0	0	0	215
3:00	9	26	90	43	11	1	0	0	0	0	0	0	0	180
4:00	8	25	75	50	10	0	1	1	0	0	0	0	0	170
5:00	2	11	68	60	17	0	0	2	0	0	0	0	0	160
6:00	1	18	70	60	12	1	0	1	0	0	0	0	0	163
7:00	0	12	62	58	19	2	0	0	0	0	0	0	0	153
8:00	0	11	63	66	8	3	2	0	0	0	0	0	0	153
9:00	0	12	32	38	8	1	0	0	0	0	0	0	0	91
10:00	1	8	19	23	6	1	1	0	0	0	0	0	0	59
11:00	0	4	14	26	9	1	0	1	0	0	0	0	0	55
<b>Total</b>	<b>66</b>	<b>297</b>	<b>1196</b>	<b>1223</b>	<b>303</b>	<b>34</b>	<b>18</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3147</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/26/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	1	5	11	10	1	1	0	0	0	0	0	0	0	29
1:00	0	2	9	6	0	1	0	0	0	0	0	0	0	18
2:00	0	1	2	2	0	1	0	0	0	0	0	0	0	6
3:00	0	1	0	2	0	3	0	1	0	0	0	0	0	7
4:00	0	1	3	5	0	0	0	0	0	0	0	0	0	9
5:00	0	3	9	9	5	0	0	0	0	0	0	0	0	26
6:00	0	9	31	35	6	0	0	0	0	0	0	0	0	81
7:00	1	15	45	49	20	1	0	0	0	0	0	0	0	131
8:00	1	19	83	93	8	1	0	2	0	0	0	0	0	207
9:00	0	31	92	79	13	4	2	0	0	0	0	0	0	221
10:00	2	43	176	97	14	3	0	2	0	0	0	0	0	337
11:00	5	59	167	83	24	1	0	1	0	0	0	0	0	340
12:00 PM	0	36	201	127	16	2	0	0	2	0	0	0	0	384
1:00	9	51	198	125	20	4	2	4	1	0	0	0	0	414
2:00	17	59	193	114	9	4	0	0	1	0	0	0	0	397
3:00	14	50	212	120	18	2	3	0	1	0	0	0	0	420
4:00	4	46	217	140	16	4	2	0	0	0	0	0	0	429
5:00	7	19	152	102	15	4	1	1	0	0	0	0	0	301
6:00	6	36	139	83	13	0	2	0	0	0	0	0	0	279
7:00	2	25	106	85	28	2	0	1	0	0	0	0	0	249
8:00	0	26	92	79	11	1	2	0	0	0	0	0	0	211
9:00	1	13	95	63	9	1	0	2	0	0	0	0	0	184
10:00	1	8	45	61	19	0	1	0	0	0	0	0	0	135
11:00	0	4	28	46	17	2	0	0	0	0	0	0	0	97
Total	71	562	2306	1615	282	42	15	14	5	0	0	0	0	4912



**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/27/2021	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	2	22	20	11	2	0	0	0	0	0	0	0	57
1:00	0	1	10	8	3	0	0	0	0	0	0	0	0	22
2:00	0	3	5	11	5	0	0	0	0	0	0	0	0	24
3:00	0	0	4	8	4	1	1	0	0	0	0	0	0	18
4:00	2	2	8	6	2	0	0	0	0	0	0	0	0	20
5:00	2	1	9	8	4	0	0	0	0	0	0	0	0	24
6:00	1	3	23	20	8	1	0	0	0	0	0	0	0	56
7:00	3	6	35	59	20	3	0	0	0	0	0	0	0	126
8:00	1	5	54	89	30	4	1	3	2	1	1	0	0	191
9:00	1	17	105	128	44	2	3	0	1	0	0	0	0	301
10:00	5	24	144	149	32	2	5	5	1	0	0	0	0	367
11:00	0	29	174	174	43	7	0	4	0	0	0	0	0	431
12:00 PM	17	60	209	151	24	3	1	3	1	0	0	0	0	469
1:00	10	65	222	116	18	5	5	1	1	1	0	0	0	444
2:00	8	46	207	152	24	3	3	2	1	0	0	0	0	446
3:00	11	71	190	117	23	4	1	1	1	0	0	0	0	419
4:00	4	78	183	101	9	1	5	2	0	0	0	0	0	383
5:00	1	34	150	90	18	4	2	2	3	0	0	0	0	304
6:00	2	46	204	109	17	2	0	2	0	0	0	0	0	382
7:00	1	28	105	100	15	2	0	1	0	0	0	0	0	252
8:00	0	15	86	67	30	2	0	0	0	0	0	0	0	200
9:00	0	8	100	101	26	2	2	0	0	0	0	0	0	239
10:00	0	12	66	53	15	3	0	0	0	0	0	0	0	149
11:00	0	8	21	37	21	2	0	1	0	0	0	0	0	90
<b>Total</b>	<b>69</b>	<b>564</b>	<b>2336</b>	<b>1874</b>	<b>446</b>	<b>55</b>	<b>29</b>	<b>27</b>	<b>11</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>5414</b>

**BETA Group, Inc.**

701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Project Name: Gano Street Residential  
 Town/City: Providence, RI  
 Roadway: Gano Street  
 Location: Utility Pole 20  
 Direction: SB

Start Date: 11/18/2021  
 End Date: 11/28/2021

11/28/2021 Time	0 - 15 MPH	> 15 - 20 MPH	> 20 - 25 MPH	> 25 - 30 MPH	> 30 - 35 MPH	> 35 - 40 MPH	> 40 - 45 MPH	> 45 - 50 MPH	> 50 - 55 MPH	> 55 - 60 MPH	> 60 - 65 MPH	> 65 - 70 MPH	> 70 MPH	Total
12:00 AM	0	3	23	25	10	1	2	0	0	0	0	0	0	64
1:00	0	2	12	16	4	1	0	0	0	0	0	0	0	35
2:00	2	2	7	11	1	2	1	0	0	0	0	0	0	26
3:00	0	2	1	3	0	0	0	0	0	0	0	0	0	6
4:00	0	0	4	3	2	0	0	0	0	0	0	0	0	9
5:00	1	1	4	5	4	1	0	0	0	0	0	0	0	16
6:00	1	2	18	24	11	2	0	0	0	0	0	0	0	58
7:00	2	5	40	52	12	2	0	0	0	1	0	0	0	114
8:00	1	2	27	31	9	4	0	0	0	0	0	0	0	74
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
<b>Total</b>	<b>7</b>	<b>19</b>	<b>136</b>	<b>170</b>	<b>53</b>	<b>13</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>402</b>
<b>Grand Total</b>	<b>4765</b>	<b>10582</b>	<b>25401</b>	<b>14905</b>	<b>2922</b>	<b>515</b>	<b>287</b>	<b>172</b>	<b>77</b>	<b>14</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>59642</b>
Stats			Percentile	15th	50th	85th	95th							
			Speed	17.9	22.9	27.9	31							
			Mean Speed (Average)	22.5										
			10 MPH Pace Speed	20-29										
			Number in Pace	40220										
			Percent in Pace	67.4%										
			Number > 25 MPH	18894										
			Percent > 25 MPH	31.7%										

Gano Street (2023)

*Traffic Volumes*

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Time	7/3/23 Mon	7/4/23 Tue	7/5/23 Wed	7/6/23 Thu	7/7/23 Fri	Weekday Average	7/8/23 Sat	7/9/23 Sun
12:00 AM	*	*	*	*	*	105	105	128
01:00	*	*	*	*	*	54	54	75
02:00	*	*	*	*	*	29	29	47
03:00	*	*	*	*	*	19	19	24
04:00	*	*	*	*	*	44	44	36
05:00	*	*	*	*	*	141	141	71
06:00	*	*	*	*	*	357	357	184
07:00	*	*	*	*	*	733	733	340
08:00	*	*	*	*	*	911	911	563
09:00	*	*	*	*	*	934	934	750
10:00	*	*	*	*	*	909	909	807
11:00	*	*	*	*	*	926	926	911
12:00 PM	*	*	*	*	*	973	973	883
01:00	*	*	*	*	*	870	870	820
02:00	*	*	*	*	*	933	933	826
03:00	*	*	*	*	*	896	896	787
04:00	*	*	*	*	*	938	938	799
05:00	*	*	*	*	*	905	905	745
06:00	*	*	*	667	823	745	693	579
07:00	*	*	*	667	707	687	634	496
08:00	*	*	*	576	577	576	575	455
09:00	*	*	*	399	464	432	446	362
10:00	*	*	*	260	350	305	392	209
11:00	*	*	*	169	213	191	221	138
Total	0	0	0	2738	13811	13613	11757	9170
Percent	0.0%	0.0%	0.0%	20.1%	101.5%		86.4%	67.4%
AM Peak					09:00	09:00	11:00	11:00
Volume					934	934	911	707
PM Peak				06:00	12:00 PM	12:00 PM	12:00 PM	12:00 PM
Volume				667	973	973	883	702

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

	7/10/23	7/11/23	7/12/23	7/13/23	7/14/23	Weekday	7/15/23	7/16/23
Time	Mon	Tue	Wed	Thu	Fri	Average	Sat	Sun
12:00 AM	67	56	59	88	0	54	0	22
01:00	38	24	45	32	0	28	0	12
02:00	27	24	17	23	0	18	0	0
03:00	27	14	17	12	0	14	0	0
04:00	45	34	38	43	0	32	0	0
05:00	129	156	147	153	0	117	0	0
06:00	316	383	374	451	0	305	0	0
07:00	639	847	856	864	0	641	0	0
08:00	957	1065	1049	1088	0	832	3	0
09:00	780	892	909	879	0	692	0	14
10:00	756	895	892	881	0	685	0	1
11:00	717	901	938	942	0	700	0	1
12:00 PM	622	982	990	975	2	714	0	1
01:00	790	894	879	908	3	695	0	6
02:00	777	947	986	934	3	729	0	*
03:00	971	1027	992	986	0	795	0	*
04:00	927	985	954	1057	0	785	1	*
05:00	926	1017	927	490	0	672	0	*
06:00	688	781	847	0	0	463	0	*
07:00	570	741	701	0	0	402	18	*
08:00	380	539	598	0	0	303	1	*
09:00	325	420	497	0	0	248	0	*
10:00	201	222	277	0	0	140	0	*
11:00	106	149	140	0	0	79	0	*
Total	11781	13995	14129	10806	8	10143	23	57
Percent	116.1%	138.0%	139.3%	106.5%	0.1%		0.2%	0.6%
AM Peak	08:00	08:00	08:00	08:00		08:00	08:00	12:00 AM
Volume	957	1065	1049	1088		832	3	22
PM Peak	03:00	03:00	03:00	04:00	01:00	03:00	07:00	01:00
Volume	971	1027	992	1057	3	795	18	6



Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

7/3/2023	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday		
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	
12:00 AM	*	*	*	*	*	*	*	*	*	51	54	51	54	60	68	68	63
1:00	*	*	*	*	*	*	*	*	*	23	31	23	31	33	42	36	47
2:00	*	*	*	*	*	*	*	*	*	12	17	12	17	15	32	30	34
3:00	*	*	*	*	*	*	*	*	*	9	10	9	10	16	8	41	20
4:00	*	*	*	*	*	*	*	*	*	24	20	24	20	15	21	31	48
5:00	*	*	*	*	*	*	*	*	*	75	66	75	66	32	39	27	28
6:00	*	*	*	*	*	*	*	*	*	193	164	193	164	93	91	52	63
7:00	*	*	*	*	*	*	*	*	*	333	400	333	400	166	174	102	145
8:00	*	*	*	*	*	*	*	*	*	414	497	414	497	297	266	161	203
9:00	*	*	*	*	*	*	*	*	*	428	506	428	506	373	377	220	272
10:00	*	*	*	*	*	*	*	*	*	384	525	384	525	341	466	279	363
11:00	*	*	*	*	*	*	*	*	*	368	558	368	558	353	558	271	436
12:00 PM	*	*	*	*	*	*	*	*	*	403	570	403	570	298	585	287	415
1:00	*	*	*	*	*	*	*	*	*	339	531	339	531	306	514	268	396
2:00	*	*	*	*	*	*	*	*	*	326	607	326	607	299	527	295	376
3:00	*	*	*	*	*	*	*	*	*	324	572	324	572	280	507	297	366
4:00	*	*	*	*	*	*	*	*	*	317	621	317	621	299	500	240	340
5:00	*	*	*	*	*	*	*	*	*	324	581	324	581	320	425	304	307
6:00	*	*	*	*	*	*	309	358	343	480	326	419	325	368	294	285	
7:00	*	*	*	*	*	*	266	401	326	381	296	391	316	318	267	229	
8:00	*	*	*	*	*	*	239	337	247	330	243	334	257	318	290	165	
9:00	*	*	*	*	*	*	181	218	198	266	190	242	205	241	135	227	
10:00	*	*	*	*	*	*	118	142	139	211	128	176	165	227	104	105	
11:00	*	*	*	*	*	*	71	98	88	125	80	112	107	114	66	72	
Total	0	0	0	0	0	0	1184	1554	5688	8123	5610	8004	4971	6786	4165	5005	
Day	0	0	0	0	0	0	2738	2738	13811	13811	13614	13614	11757	11757	9170	9170	
AM Peak									9:00	11:00	9:00	11:00	9:00	11:00	10:00	11:00	
Volume									428	558	428	558	373	558	279	436	
PM Peak							6:00	7:00	12:00 PM	4:00	12:00 PM	4:00	6:00	12:00 PM	5:00	12:00 PM	
Volume							309	401	403	621	403	621	325	585	304	415	

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

7/10/2023	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	43	24	25	31	24	35	43	45	0	0	27	27	0	0	21	1
1:00	20	18	9	15	22	23	14	18	0	0	13	15	0	0	12	0
2:00	11	16	10	14	5	12	13	10	0	0	8	10	0	0	0	0
3:00	13	14	7	7	8	9	8	4	0	0	7	7	0	0	0	0
4:00	19	26	13	21	18	20	17	26	0	0	13	19	0	0	0	0
5:00	65	64	78	78	75	72	89	64	0	0	61	56	0	0	0	0
6:00	138	178	213	170	195	179	251	200	0	0	159	145	0	0	0	0
7:00	231	408	374	473	395	461	412	452	0	0	282	359	0	0	0	0
8:00	379	578	464	601	462	587	451	637	0	0	351	481	0	3	0	0
9:00	333	447	394	498	391	518	402	477	0	0	304	388	0	0	14	0
10:00	329	427	395	500	396	496	372	509	0	0	298	386	0	0	1	0
11:00	276	441	390	511	405	533	364	578	0	0	287	413	0	0	1	0
12:00 PM	235	387	395	587	410	580	386	589	0	2	285	429	0	0	1	0
1:00	312	478	359	535	359	520	374	534	0	3	281	414	0	0	6	0
2:00	275	502	383	564	400	586	355	579	0	3	283	447	0	0	*	*
3:00	368	603	388	639	370	622	334	652	0	0	292	503	0	0	*	*
4:00	323	604	365	620	324	630	380	677	0	0	278	506	0	1	*	*
5:00	377	549	377	640	359	568	202	288	0	0	263	409	0	0	*	*
6:00	296	392	322	459	423	424	0	0	0	0	208	255	0	0	*	*
7:00	217	353	315	426	266	435	0	0	0	0	160	243	18	0	*	*
8:00	128	252	225	314	219	379	0	0	0	0	114	189	0	1	*	*
9:00	115	210	170	250	205	292	0	0	0	0	98	150	0	0	*	*
10:00	93	108	84	138	131	146	0	0	0	0	62	78	0	0	*	*
11:00	45	61	66	83	59	81	0	0	0	0	34	45	0	0	*	*
Total	4641	7140	5821	8174	5921	8208	4467	6339	0	8	4168	5974	18	5	56	1
Day	11781		13995		14129		10806		8		10142		23		57	
AM Peak	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00			8:00	8:00		8:00	12:00 AM	12:00 AM
Volume	379	578	464	601	462	587	451	637			351	481		3	21	1
PM Peak	5:00	4:00	12:00 PM	5:00	6:00	4:00	12:00 PM	4:00		1:00	3:00	4:00		7:00	4:00	1:00
Volume	377	604	395	640	423	630	386	677		3	292	506		18	1	6
Comb Total	11781		13995		14129		13544		13819		23756		11780		9227	
ADT	ADT: 9,097		AADT: 9,097													

*Speeds*

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/6/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	7	72	180	46	4	0	0	0	0	0	0	0	309
7:00	6	65	161	33	1	0	0	0	0	0	0	0	266
8:00	5	60	134	34	4	0	2	0	0	0	0	0	239
9:00	3	40	108	28	2	0	0	0	0	0	0	0	181
10:00	1	20	66	30	1	0	0	0	0	0	0	0	118
11:00	0	9	31	21	9	1	0	0	0	0	0	0	71
Total	22	266	680	192	21	1	2	0	0	0	0	0	1184

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/7/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	9	24	13	4	1	0	0	0	0	0	0	51
1:00	1	1	10	6	5	0	0	0	0	0	0	0	23
2:00	0	3	4	3	1	0	1	0	0	0	0	0	12
3:00	1	2	0	3	3	0	0	0	0	0	0	0	9
4:00	1	1	6	11	2	3	0	0	0	0	0	0	24
5:00	0	5	27	30	11	2	0	0	0	0	0	0	75
6:00	3	28	98	46	14	3	0	0	0	1	0	0	193
7:00	5	64	179	79	4	1	1	0	0	0	0	0	333
8:00	7	75	236	81	13	0	1	1	0	0	0	0	414
9:00	12	110	239	62	5	0	0	0	0	0	0	0	428
10:00	8	77	229	62	4	1	1	2	0	0	0	0	384
11:00	10	111	193	49	4	1	0	0	0	0	0	0	368
12:00 PM	19	128	208	45	3	0	0	0	0	0	0	0	403
1:00	16	76	201	44	2	0	0	0	0	0	0	0	339
2:00	19	107	158	35	7	0	0	0	0	0	0	0	326
3:00	15	82	172	50	4	1	0	0	0	0	0	0	324
4:00	12	79	174	50	2	0	0	0	0	0	0	0	317
5:00	19	113	160	30	2	0	0	0	0	0	0	0	324
6:00	6	78	192	62	3	0	0	2	0	0	0	0	343
7:00	6	87	183	45	5	0	0	0	0	0	0	0	326
8:00	5	57	140	41	4	0	0	0	0	0	0	0	247
9:00	3	43	120	29	3	0	0	0	0	0	0	0	198
10:00	1	17	74	37	9	1	0	0	0	0	0	0	139
11:00	2	10	48	22	6	0	0	0	0	0	0	0	88
<b>Total</b>	<b>171</b>	<b>1363</b>	<b>3075</b>	<b>935</b>	<b>120</b>	<b>14</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>5688</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/8/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	7	31	19	3	0	0	0	0	0	0	0	60
1:00	2	6	14	6	3	1	1	0	0	0	0	0	33
2:00	0	3	7	3	2	0	0	0	0	0	0	0	15
3:00	0	0	7	7	0	2	0	0	0	0	0	0	16
4:00	0	2	6	4	2	1	0	0	0	0	0	0	15
5:00	1	6	10	9	5	1	0	0	0	0	0	0	32
6:00	1	5	53	26	6	2	0	0	0	0	0	0	93
7:00	0	13	78	64	11	0	0	0	0	0	0	0	166
8:00	5	47	152	84	8	1	0	0	0	0	0	0	297
9:00	5	86	199	77	4	2	0	0	0	0	0	0	373
10:00	11	78	184	63	4	1	0	0	0	0	0	0	341
11:00	5	85	182	78	2	0	1	0	0	0	0	0	353
12:00 PM	0	62	175	59	2	0	0	0	0	0	0	0	298
1:00	0	82	183	39	2	0	0	0	0	0	0	0	306
2:00	9	75	168	41	6	0	0	0	0	0	0	0	299
3:00	10	74	153	36	7	0	0	0	0	0	0	0	280
4:00	9	91	160	38	1	0	0	0	0	0	0	0	299
5:00	7	113	157	41	1	1	0	0	0	0	0	0	320
6:00	4	122	157	41	1	0	0	0	0	0	0	0	325
7:00	14	60	179	55	7	1	0	0	0	0	0	0	316
8:00	2	57	145	48	5	0	0	0	0	0	0	0	257
9:00	2	38	125	34	6	0	0	0	0	0	0	0	205
10:00	2	31	90	36	6	0	0	0	0	0	0	0	165
11:00	0	19	61	26	1	0	0	0	0	0	0	0	107
<b>Total</b>	<b>89</b>	<b>1162</b>	<b>2676</b>	<b>934</b>	<b>95</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4971</b>



Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/9/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	3	10	30	22	3	0	0	0	0	0	0	0	68
1:00	2	8	12	12	2	0	0	0	0	0	0	0	36
2:00	3	2	17	5	1	1	1	0	0	0	0	0	30
3:00	0	3	16	14	8	0	0	0	0	0	0	0	41
4:00	1	3	7	15	5	0	0	0	0	0	0	0	31
5:00	0	1	12	9	5	0	0	0	0	0	0	0	27
6:00	0	1	18	24	7	2	0	0	0	0	0	0	52
7:00	1	14	46	34	6	1	0	0	0	0	0	0	102
8:00	1	29	93	32	6	0	0	0	0	0	0	0	161
9:00	2	43	117	52	5	1	0	0	0	0	0	0	220
10:00	4	84	144	42	5	0	0	0	0	0	0	0	279
11:00	6	61	151	51	2	0	0	0	0	0	0	0	271
12:00 PM	7	93	148	36	3	0	0	0	0	0	0	0	287
1:00	4	82	137	42	2	1	0	0	0	0	0	0	268
2:00	10	129	140	12	4	0	0	0	0	0	0	0	295
3:00	26	143	107	21	0	0	0	0	0	0	0	0	297
4:00	41	92	86	20	0	1	0	0	0	0	0	0	240
5:00	74	134	84	11	1	0	0	0	0	0	0	0	304
6:00	52	136	96	8	2	0	0	0	0	0	0	0	294
7:00	25	109	110	21	2	0	0	0	0	0	0	0	267
8:00	63	110	89	25	3	0	0	0	0	0	0	0	290
9:00	2	27	79	22	4	1	0	0	0	0	0	0	135
10:00	2	11	55	32	4	0	0	0	0	0	0	0	104
11:00	0	5	40	15	5	1	0	0	0	0	0	0	66
<b>Total</b>	<b>329</b>	<b>1330</b>	<b>1834</b>	<b>577</b>	<b>85</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4165</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/10/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	5	21	13	2	1	0	0	0	0	0	0	43
1:00	1	3	8	6	1	1	0	0	0	0	0	0	20
2:00	0	1	6	2	1	1	0	0	0	0	0	0	11
3:00	3	0	3	5	2	0	0	0	0	0	0	0	13
4:00	0	2	7	7	3	0	0	0	0	0	0	0	19
5:00	0	6	24	25	8	2	0	0	0	0	0	0	65
6:00	1	26	51	53	5	2	0	0	0	0	0	0	138
7:00	10	56	122	37	4	2	0	0	0	0	0	0	231
8:00	21	89	218	49	2	0	0	0	0	0	0	0	379
9:00	1	92	187	44	8	0	0	1	0	0	0	0	333
10:00	18	86	175	48	1	1	0	0	0	0	0	0	329
11:00	23	96	117	34	6	0	0	0	0	0	0	0	276
12:00 PM	53	81	89	12	0	0	0	0	0	0	0	0	235
1:00	15	115	137	43	2	0	0	0	0	0	0	0	312
2:00	9	52	171	38	4	1	0	0	0	0	0	0	275
3:00	74	108	167	19	0	0	0	0	0	0	0	0	368
4:00	4	85	183	50	1	0	0	0	0	0	0	0	323
5:00	15	91	218	50	2	1	0	0	0	0	0	0	377
6:00	1	47	175	70	3	0	0	0	0	0	0	0	296
7:00	6	45	112	45	8	1	0	0	0	0	0	0	217
8:00	2	24	67	29	5	1	0	0	0	0	0	0	128
9:00	3	14	69	21	6	2	0	0	0	0	0	0	115
10:00	2	14	49	21	7	0	0	0	0	0	0	0	93
11:00	1	3	18	20	3	0	0	0	0	0	0	0	45
Total	264	1141	2394	741	84	16	0	1	0	0	0	0	4641

Project Name:  
 Town / City, State:  
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**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/11/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	14	8	3	0	0	0	0	0	0	0	25
1:00	0	2	5	2	0	0	0	0	0	0	0	0	9
2:00	0	3	4	2	0	1	0	0	0	0	0	0	10
3:00	0	0	2	5	0	0	0	0	0	0	0	0	7
4:00	1	0	2	8	2	0	0	0	0	0	0	0	13
5:00	0	1	21	36	19	1	0	0	0	0	0	0	78
6:00	0	26	113	66	6	2	0	0	0	0	0	0	213
7:00	1	68	211	85	7	2	0	0	0	0	0	0	374
8:00	15	133	260	52	4	0	0	0	0	0	0	0	464
9:00	12	82	228	65	5	0	0	1	1	0	0	0	394
10:00	7	95	225	60	7	0	1	0	0	0	0	0	395
11:00	5	113	206	61	4	0	0	1	0	0	0	0	390
12:00 PM	11	133	203	45	1	0	1	0	0	1	0	0	395
1:00	8	80	198	60	9	1	0	1	0	1	0	1	359
2:00	9	106	211	54	1	0	0	0	1	1	0	0	383
3:00	11	115	219	40	2	0	1	0	0	0	0	0	388
4:00	9	128	183	41	3	1	0	0	0	0	0	0	365
5:00	4	84	237	48	4	0	0	0	0	0	0	0	377
6:00	10	86	188	37	1	0	0	0	0	0	0	0	322
7:00	8	71	167	64	3	2	0	0	0	0	0	0	315
8:00	4	53	108	55	5	0	0	0	0	0	0	0	225
9:00	1	23	105	41	0	0	0	0	0	0	0	0	170
10:00	3	9	39	26	6	1	0	0	0	0	0	0	84
11:00	3	14	27	19	3	0	0	0	0	0	0	0	66
<b>Total</b>	<b>122</b>	<b>1425</b>	<b>3176</b>	<b>980</b>	<b>95</b>	<b>11</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>5821</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/12/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	3	9	9	2	1	0	0	0	0	0	0	24
1:00	0	3	8	9	2	0	0	0	0	0	0	0	22
2:00	0	2	1	2	0	0	0	0	0	0	0	0	5
3:00	0	0	0	4	3	1	0	0	0	0	0	0	8
4:00	3	2	4	5	2	2	0	0	0	0	0	0	18
5:00	0	5	29	27	12	2	0	0	0	0	0	0	75
6:00	0	13	78	80	23	1	0	0	0	0	0	0	195
7:00	8	65	235	81	5	1	0	0	0	0	0	0	395
8:00	20	125	264	48	4	0	0	0	1	0	0	0	462
9:00	4	86	230	64	7	0	0	0	0	0	0	0	391
10:00	15	93	225	57	6	0	0	0	0	0	0	0	396
11:00	13	117	220	48	6	0	0	1	0	0	0	0	405
12:00 PM	20	149	190	45	5	1	0	0	0	0	0	0	410
1:00	14	115	184	43	2	0	0	0	1	0	0	0	359
2:00	25	147	184	37	6	0	1	0	0	0	0	0	400
3:00	9	115	188	57	0	0	1	0	0	0	0	0	370
4:00	5	97	168	52	2	0	0	0	0	0	0	0	324
5:00	11	104	200	42	2	0	0	0	0	0	0	0	359
6:00	6	113	245	56	3	0	0	0	0	0	0	0	423
7:00	20	62	141	39	2	2	0	0	0	0	0	0	266
8:00	9	59	117	30	4	0	0	0	0	0	0	0	219
9:00	8	55	110	29	3	0	0	0	0	0	0	0	205
10:00	0	15	69	44	3	0	0	0	0	0	0	0	131
11:00	0	3	26	24	6	0	0	0	0	0	0	0	59
<b>Total</b>	<b>190</b>	<b>1548</b>	<b>3125</b>	<b>932</b>	<b>110</b>	<b>11</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5921</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/13/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	10	15	11	5	1	0	0	0	0	0	0	43
1:00	2	6	4	2	0	0	0	0	0	0	0	0	14
2:00	1	2	5	5	0	0	0	0	0	0	0	0	13
3:00	0	0	1	4	2	1	0	0	0	0	0	0	8
4:00	0	2	5	6	3	1	0	0	0	0	0	0	17
5:00	0	5	35	32	16	1	0	0	0	0	0	0	89
6:00	1	43	121	68	14	2	2	0	0	0	0	0	251
7:00	16	94	214	82	6	0	0	0	0	0	0	0	412
8:00	13	93	260	79	6	0	0	0	0	0	0	0	451
9:00	14	84	226	73	3	0	2	0	0	0	0	0	402
10:00	8	127	175	57	5	0	0	0	0	0	0	0	372
11:00	21	90	197	53	2	0	0	1	0	0	0	0	364
12:00 PM	10	126	192	53	5	0	0	0	0	0	0	0	386
1:00	23	119	179	50	2	0	1	0	0	0	0	0	374
2:00	5	83	223	40	4	0	0	0	0	0	0	0	355
3:00	10	81	173	61	9	0	0	0	0	0	0	0	334
4:00	16	107	211	39	6	0	1	0	0	0	0	0	380
5:00	16	55	103	25	3	0	0	0	0	0	0	0	202
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	157	1127	2339	740	91	6	6	1	0	0	0	0	4467

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/14/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH		
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/15/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	14	1	2	1	0	0	0	0	0	0	0	0	18
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>14</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>



Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: NB

7/16/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	17	4	0	0	0	0	0	0	0	0	0	0	21
1:00	10	2	0	0	0	0	0	0	0	0	0	0	12
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	12	2	0	0	0	0	0	0	0	0	0	0	14
10:00	0	0	0	1	0	0	0	0	0	0	0	0	1
11:00	0	1	0	0	0	0	0	0	0	0	0	0	1
12:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
1:00	5	0	1	0	0	0	0	0	0	0	0	0	6
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	45	9	1	1	0	0	0	0	0	0	0	0	56
Grand Total	1403	9372	19302	6033	701	81	20	11	4	4	0	1	36932
Stats			Percentile	15th	50th	85th	95th						
			Speed	19	22	25	29						
			Mean Speed (Average)	21.8									
			10 MPH Pace Speed	15-24									
			Number in Pace	28297									
			Percent in Pace	76.6%									
			Number > 45 MPH	20									
			Percent > 45 MPH	0.1%									

Project Name:  
 Town / City, State:  
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**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/6/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	15	47	125	144	25	2	0	0	0	0	0	0	358
7:00	4	28	187	158	22	2	0	0	0	0	0	0	401
8:00	8	34	172	99	23	1	0	0	0	0	0	0	337
9:00	1	22	109	70	16	0	0	0	0	0	0	0	218
10:00	1	6	46	67	21	1	0	0	0	0	0	0	142
11:00	1	4	21	44	22	5	1	0	0	0	0	0	98
Total	30	141	660	582	129	11	1	0	0	0	0	0	1554

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/7/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	2	11	27	12	0	1	0	0	0	0	0	54
1:00	2	2	14	8	4	1	0	0	0	0	0	0	31
2:00	0	3	6	7	1	0	0	0	0	0	0	0	17
3:00	0	0	4	4	2	0	0	0	0	0	0	0	10
4:00	0	0	6	12	2	0	0	0	0	0	0	0	20
5:00	1	1	18	31	13	1	1	0	0	0	0	0	66
6:00	2	12	34	76	36	4	0	0	0	0	0	0	164
7:00	3	16	117	215	44	5	0	0	0	0	0	0	400
8:00	6	50	208	194	36	3	0	0	0	0	0	0	497
9:00	21	44	227	185	25	2	0	0	1	1	0	0	506
10:00	4	81	276	148	15	1	0	0	0	0	0	0	525
11:00	14	91	302	135	15	1	0	0	0	0	0	0	558
12:00 PM	32	124	265	129	19	0	1	0	0	0	0	0	570
1:00	21	130	254	112	13	0	0	1	0	0	0	0	531
2:00	94	187	247	75	3	0	0	1	0	0	0	0	607
3:00	108	121	255	81	6	0	1	0	0	0	0	0	572
4:00	40	128	305	139	5	3	1	0	0	0	0	0	621
5:00	89	124	252	104	11	1	0	0	0	0	0	0	581
6:00	9	60	225	153	31	2	0	0	0	0	0	0	480
7:00	21	53	172	114	21	0	0	0	0	0	0	0	381
8:00	9	41	159	99	18	4	0	0	0	0	0	0	330
9:00	0	27	125	87	21	4	1	1	0	0	0	0	266
10:00	0	17	94	85	15	0	0	0	0	0	0	0	211
11:00	0	6	46	47	21	5	0	0	0	0	0	0	125
<b>Total</b>	<b>477</b>	<b>1320</b>	<b>3622</b>	<b>2267</b>	<b>389</b>	<b>37</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>8123</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/8/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	3	7	30	18	10	0	0	0	0	0	0	0	68
1:00	1	2	14	12	11	1	0	1	0	0	0	0	42
2:00	0	1	9	14	8	0	0	0	0	0	0	0	32
3:00	0	1	1	3	3	0	0	0	0	0	0	0	8
4:00	0	2	4	9	4	2	0	0	0	0	0	0	21
5:00	0	1	14	17	7	0	0	0	0	0	0	0	39
6:00	2	9	12	47	15	6	0	0	0	0	0	0	91
7:00	1	4	50	82	33	3	1	0	0	0	0	0	174
8:00	6	24	90	119	25	1	1	0	0	0	0	0	266
9:00	8	32	144	164	27	2	0	0	0	0	0	0	377
10:00	2	61	217	168	17	1	0	0	0	0	0	0	466
11:00	8	66	283	175	26	0	0	0	0	0	0	0	558
12:00 PM	11	69	275	200	30	0	0	0	0	0	0	0	585
1:00	54	65	212	158	23	2	0	0	0	0	0	0	514
2:00	1	85	237	180	21	3	0	0	0	0	0	0	527
3:00	21	67	262	133	24	0	0	0	0	0	0	0	507
4:00	33	88	234	128	16	1	0	0	0	0	0	0	500
5:00	21	46	165	159	31	3	0	0	0	0	0	0	425
6:00	14	32	142	146	30	4	0	0	0	0	0	0	368
7:00	3	27	133	131	21	1	0	2	0	0	0	0	318
8:00	0	32	179	84	21	2	0	0	0	0	0	0	318
9:00	4	15	115	81	25	1	0	0	0	0	0	0	241
10:00	2	14	90	96	22	2	1	0	0	0	0	0	227
11:00	1	12	48	42	11	0	0	0	0	0	0	0	114
<b>Total</b>	<b>196</b>	<b>762</b>	<b>2960</b>	<b>2366</b>	<b>461</b>	<b>35</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6786</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/9/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	4	25	27	7	0	0	0	0	0	0	0	63
1:00	3	3	16	20	4	1	0	0	0	0	0	0	47
2:00	1	0	12	19	2	0	0	0	0	0	0	0	34
3:00	0	2	8	6	3	1	0	0	0	0	0	0	20
4:00	2	4	12	18	7	4	1	0	0	0	0	0	48
5:00	0	2	6	10	8	2	0	0	0	0	0	0	28
6:00	0	2	27	21	10	3	0	0	0	0	0	0	63
7:00	0	13	43	65	21	2	1	0	0	0	0	0	145
8:00	3	6	55	102	34	2	1	0	0	0	0	0	203
9:00	6	15	69	137	42	3	0	0	0	0	0	0	272
10:00	2	50	138	136	33	3	0	1	0	0	0	0	363
11:00	15	51	180	162	26	2	0	0	0	0	0	0	436
12:00 PM	11	70	205	112	17	0	0	0	0	0	0	0	415
1:00	31	109	186	63	6	1	0	0	0	0	0	0	396
2:00	165	87	109	15	0	0	0	0	0	0	0	0	376
3:00	60	101	150	50	4	1	0	0	0	0	0	0	366
4:00	79	157	82	18	4	0	0	0	0	0	0	0	340
5:00	67	160	66	14	0	0	0	0	0	0	0	0	307
6:00	51	124	95	15	0	0	0	0	0	0	0	0	285
7:00	25	89	89	24	2	0	0	0	0	0	0	0	229
8:00	32	21	67	38	5	2	0	0	0	0	0	0	165
9:00	1	28	107	75	13	3	0	0	0	0	0	0	227
10:00	1	5	43	41	15	0	0	0	0	0	0	0	105
11:00	0	3	28	27	11	2	1	0	0	0	0	0	72
<b>Total</b>	<b>555</b>	<b>1106</b>	<b>1818</b>	<b>1215</b>	<b>274</b>	<b>32</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5005</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/10/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	2	10	9	2	0	0	0	0	0	0	0	24
1:00	0	1	3	6	5	3	0	0	0	0	0	0	18
2:00	0	0	8	4	2	2	0	0	0	0	0	0	16
3:00	0	2	4	6	1	1	0	0	0	0	0	0	14
4:00	0	0	7	13	5	1	0	0	0	0	0	0	26
5:00	0	4	13	33	9	4	1	0	0	0	0	0	64
6:00	2	10	65	72	26	3	0	0	0	0	0	0	178
7:00	9	32	188	150	27	1	1	0	0	0	0	0	408
8:00	33	46	251	212	36	0	0	0	0	0	0	0	578
9:00	13	41	202	163	28	0	0	0	0	0	0	0	447
10:00	27	70	168	141	18	2	1	0	0	0	0	0	427
11:00	19	105	211	91	15	0	0	0	0	0	0	0	441
12:00 PM	18	125	171	64	7	2	0	0	0	0	0	0	387
1:00	21	121	238	87	11	0	0	0	0	0	0	0	478
2:00	5	124	269	93	9	1	1	0	0	0	0	0	502
3:00	50	125	277	141	9	0	0	1	0	0	0	0	603
4:00	46	86	291	156	21	3	0	1	0	0	0	0	604
5:00	8	61	277	185	16	2	0	0	0	0	0	0	549
6:00	3	42	166	150	30	1	0	0	0	0	0	0	392
7:00	6	29	132	150	31	4	1	0	0	0	0	0	353
8:00	2	23	97	104	25	1	0	0	0	0	0	0	252
9:00	3	6	97	84	17	3	0	0	0	0	0	0	210
10:00	0	10	28	48	15	6	1	0	0	0	0	0	108
11:00	0	1	25	22	11	2	0	0	0	0	0	0	61
<b>Total</b>	<b>266</b>	<b>1066</b>	<b>3198</b>	<b>2184</b>	<b>376</b>	<b>42</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7140</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/11/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	2	13	10	3	2	0	0	0	0	0	0	31
1:00	0	1	6	2	6	0	0	0	0	0	0	0	15
2:00	0	3	2	3	5	1	0	0	0	0	0	0	14
3:00	0	1	1	3	1	1	0	0	0	0	0	0	7
4:00	0	0	10	7	3	1	0	0	0	0	0	0	21
5:00	1	1	14	41	18	2	1	0	0	0	0	0	78
6:00	0	8	50	76	34	1	1	0	0	0	0	0	170
7:00	7	32	189	205	39	1	0	0	0	0	0	0	473
8:00	35	92	268	169	37	0	0	0	0	0	0	0	601
9:00	11	54	236	172	25	0	0	0	0	0	0	0	498
10:00	7	54	276	137	25	0	1	0	0	0	0	0	500
11:00	13	86	241	150	17	1	2	1	0	0	0	0	511
12:00 PM	46	78	289	148	24	0	2	0	0	0	0	0	587
1:00	11	63	270	165	21	5	0	0	0	0	0	0	535
2:00	15	77	300	142	28	2	0	0	0	0	0	0	564
3:00	79	136	284	116	21	2	0	1	0	0	0	0	639
4:00	251	92	162	102	13	0	0	0	0	0	0	0	620
5:00	47	89	318	168	17	1	0	0	0	0	0	0	640
6:00	7	31	215	178	26	2	0	0	0	0	0	0	459
7:00	5	51	213	134	21	1	1	0	0	0	0	0	426
8:00	6	33	146	110	17	2	0	0	0	0	0	0	314
9:00	1	4	111	112	21	0	0	1	0	0	0	0	250
10:00	2	6	44	65	19	2	0	0	0	0	0	0	138
11:00	2	3	23	32	20	3	0	0	0	0	0	0	83
<b>Total</b>	<b>547</b>	<b>997</b>	<b>3681</b>	<b>2447</b>	<b>461</b>	<b>30</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8174</b>



Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/12/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	1	10	15	9	0	0	0	0	0	0	0	35
1:00	0	0	9	12	0	2	0	0	0	0	0	0	23
2:00	0	2	5	3	0	2	0	0	0	0	0	0	12
3:00	0	0	3	4	1	1	0	0	0	0	0	0	9
4:00	1	1	7	6	5	0	0	0	0	0	0	0	20
5:00	1	3	15	27	21	3	1	1	0	0	0	0	72
6:00	1	11	34	83	38	9	2	0	1	0	0	0	179
7:00	12	37	132	230	42	8	0	0	0	0	0	0	461
8:00	24	57	231	230	44	1	0	0	0	0	0	0	587
9:00	16	52	249	174	25	2	0	0	0	0	0	0	518
10:00	8	91	238	136	21	2	0	0	0	0	0	0	496
11:00	22	83	262	155	10	1	0	0	0	0	0	0	533
12:00 PM	72	105	235	148	19	1	0	0	0	0	0	0	580
1:00	15	126	283	86	9	1	0	0	0	0	0	0	520
2:00	38	158	284	99	7	0	0	0	0	0	0	0	586
3:00	107	144	257	98	13	1	0	0	1	1	0	0	622
4:00	84	126	243	159	16	1	0	0	1	0	0	0	630
5:00	27	85	259	176	21	0	0	0	0	0	0	0	568
6:00	20	57	210	125	12	0	0	0	0	0	0	0	424
7:00	14	70	216	115	20	0	0	0	0	0	0	0	435
8:00	9	64	198	96	11	1	0	0	0	0	0	0	379
9:00	14	34	128	95	21	0	0	0	0	0	0	0	292
10:00	1	11	39	66	25	4	0	0	0	0	0	0	146
11:00	1	4	27	29	16	4	0	0	0	0	0	0	81
Total	487	1322	3574	2367	406	44	3	1	3	1	0	0	8208

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/13/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	1	8	20	14	2	0	0	0	0	0	0	45
1:00	0	3	5	7	3	0	0	0	0	0	0	0	18
2:00	0	1	3	6	0	0	0	0	0	0	0	0	10
3:00	0	1	2	1	0	0	0	0	0	0	0	0	4
4:00	0	2	6	14	4	0	0	0	0	0	0	0	26
5:00	3	3	12	28	15	3	0	0	0	0	0	0	64
6:00	3	15	55	81	41	4	1	0	0	0	0	0	200
7:00	27	37	186	168	30	1	1	2	0	0	0	0	452
8:00	30	78	285	211	26	5	0	2	0	0	0	0	637
9:00	6	37	218	192	20	4	0	0	0	0	0	0	477
10:00	17	100	240	137	15	0	0	0	0	0	0	0	509
11:00	21	102	266	171	18	0	0	0	0	0	0	0	578
12:00 PM	74	83	298	125	7	2	0	0	0	0	0	0	589
1:00	20	74	307	112	19	2	0	0	0	0	0	0	534
2:00	18	134	303	118	3	2	1	0	0	0	0	0	579
3:00	140	138	263	95	14	2	0	0	0	0	0	0	652
4:00	126	106	272	147	25	0	1	0	0	0	0	0	677
5:00	27	52	116	87	6	0	0	0	0	0	0	0	288
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	512	967	2845	1720	260	27	4	4	0	0	0	0	6339

Project Name:  
 Town / City, State:  
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 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/14/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH		
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	2	0	0	0	0	0	0	0	0	0	0	0	2
1:00	3	0	0	0	0	0	0	0	0	0	0	0	3
2:00	3	0	0	0	0	0	0	0	0	0	0	0	3
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>

Project Name:  
 Town / City, State:  
 Roadway:  
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**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/15/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH		
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	3	0	0	0	0	0	0	0	0	0	0	0	3
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	1	0	0	0	0	0	0	0	0	0	0	0	1
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>

Project Name:  
 Town / City, State:  
 Roadway:  
 Location:

**BETA Group, Inc.**  
 701 George Washington Highway  
 Lincoln, Rhode Island 02865  
 401.333.2382

Start Date: 7/6/2023  
 End Date: 7/16/2023

Direction: SB

7/16/2023	> 15 - 20	> 20 - 25	> 25 - 30	> 30 - 35	> 35 - 40	> 40 - 45	> 45 - 50	> 50 - 55	> 55 - 60	> 60 - 65	> 65 - 70	> 70 MPH	Total
Time 0 - 15 MPH MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	1	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	3084	7681	22358	15148	2756	258	35	17	4	2	0	0	51343
Stats			Percentile	15th	50th	85th	95th						
			Speed	19	24	28	30						
			Mean Speed (Average)	23.0									
			10 MPH Pace Speed	20-29									
			Number in Pace	37357									
			Percent in Pace	72.8%									
			Number > 45 MPH	23									
			Percent > 45 MPH	0.0%									

A

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**Intersection Turning Movement Count**

Gano Street at Power Street

Gano Street at Power Street

# BETA Group Inc.

701 George Washington Highway  
Lincoln, Rhode Island, 02865  
P:401.333.2382

Project: Gano Street Residential  
Town/City: Providence, RI  
Location: Gano St. @ Power St.  
Weather: Sunny, 50's

File Name : 10214\_Gano  
Site Code : 01021401  
Start Date : 11/18/2021  
Page No : 1

### Groups Printed- Passenger Vehicles - Heavy Vehicles - Bicycles

Start Time	Gano Street Southbound				Power Street Westbound				Gano Street Northbound				Power Street Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
07:00 AM	0	86	1	4	1	0	0	5	10	116	0	1	0	0	5	2	231
07:15 AM	1	111	2	0	1	0	0	0	14	198	0	0	0	0	4	0	331
07:30 AM	0	150	3	0	2	0	0	3	24	198	0	0	1	1	4	0	386
07:45 AM	0	146	2	1	1	1	1	0	34	199	2	0	0	0	8	1	396
<b>Total</b>	<b>1</b>	<b>493</b>	<b>8</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>8</b>	<b>82</b>	<b>711</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>21</b>	<b>3</b>	<b>1344</b>
08:00 AM	0	134	7	1	0	0	0	1	21	157	5	0	2	0	14	1	343
08:15 AM	2	164	3	1	1	1	1	2	21	179	0	1	0	0	8	3	387
08:30 AM	1	143	1	1	1	1	1	3	32	176	6	0	0	0	10	0	376
08:45 AM	2	145	5	1	1	0	0	1	25	208	1	2	3	0	8	2	404
<b>Total</b>	<b>5</b>	<b>586</b>	<b>16</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>99</b>	<b>720</b>	<b>12</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>40</b>	<b>6</b>	<b>1510</b>
*** BREAK ***																	
04:00 PM	1	154	3	6	0	1	2	0	11	148	0	0	6	0	13	5	350
04:15 PM	2	169	5	2	1	0	1	5	7	151	4	4	4	1	13	4	373
04:30 PM	1	165	4	3	5	0	1	0	14	144	1	3	2	0	23	2	368
04:45 PM	3	148	2	3	2	0	1	6	13	116	1	3	8	5	7	3	321
<b>Total</b>	<b>7</b>	<b>636</b>	<b>14</b>	<b>14</b>	<b>8</b>	<b>1</b>	<b>5</b>	<b>11</b>	<b>45</b>	<b>559</b>	<b>6</b>	<b>10</b>	<b>20</b>	<b>6</b>	<b>56</b>	<b>14</b>	<b>1412</b>
05:00 PM	2	159	5	2	3	1	4	2	19	151	1	4	3	1	15	1	373
05:15 PM	2	137	6	0	1	1	1	1	10	146	1	0	3	0	15	0	324
05:30 PM	2	142	0	1	1	0	0	0	18	161	1	3	5	1	12	4	351
05:45 PM	0	124	3	0	3	0	5	1	20	173	4	2	4	0	10	1	350
<b>Total</b>	<b>6</b>	<b>562</b>	<b>14</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>67</b>	<b>631</b>	<b>7</b>	<b>9</b>	<b>15</b>	<b>2</b>	<b>52</b>	<b>6</b>	<b>1398</b>
<b>Grand Total</b>	<b>19</b>	<b>2277</b>	<b>52</b>	<b>26</b>	<b>24</b>	<b>6</b>	<b>18</b>	<b>30</b>	<b>293</b>	<b>2621</b>	<b>27</b>	<b>23</b>	<b>41</b>	<b>9</b>	<b>169</b>	<b>29</b>	<b>5664</b>
<b>Apprch %</b>	<b>0.8</b>	<b>95.9</b>	<b>2.2</b>	<b>1.1</b>	<b>30.8</b>	<b>7.7</b>	<b>23.1</b>	<b>38.5</b>	<b>9.9</b>	<b>88.4</b>	<b>0.9</b>	<b>0.8</b>	<b>16.5</b>	<b>3.6</b>	<b>68.1</b>	<b>11.7</b>	
<b>Total %</b>	<b>0.3</b>	<b>40.2</b>	<b>0.9</b>	<b>0.5</b>	<b>0.4</b>	<b>0.1</b>	<b>0.3</b>	<b>0.5</b>	<b>5.2</b>	<b>46.3</b>	<b>0.5</b>	<b>0.4</b>	<b>0.7</b>	<b>0.2</b>	<b>3</b>	<b>0.5</b>	
<b>Passenger Vehicles</b>	<b>19</b>	<b>2271</b>	<b>51</b>	<b>26</b>	<b>24</b>	<b>4</b>	<b>18</b>	<b>30</b>	<b>293</b>	<b>2609</b>	<b>27</b>	<b>23</b>	<b>41</b>	<b>3</b>	<b>168</b>	<b>29</b>	<b>5636</b>
<b>% Passenger Vehicles</b>	<b>100</b>	<b>99.7</b>	<b>98.1</b>	<b>100</b>	<b>100</b>	<b>66.7</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>99.5</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>33.3</b>	<b>99.4</b>	<b>100</b>	<b>99.5</b>
<b>Heavy Vehicles</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>
<b>% Heavy Vehicles</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.2</b>
<b>Bicycles</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>16</b>
<b>% Bicycles</b>	<b>0</b>	<b>0.2</b>	<b>1.9</b>	<b>0</b>	<b>0</b>	<b>33.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.7</b>	<b>0.6</b>	<b>0</b>	<b>0.3</b>

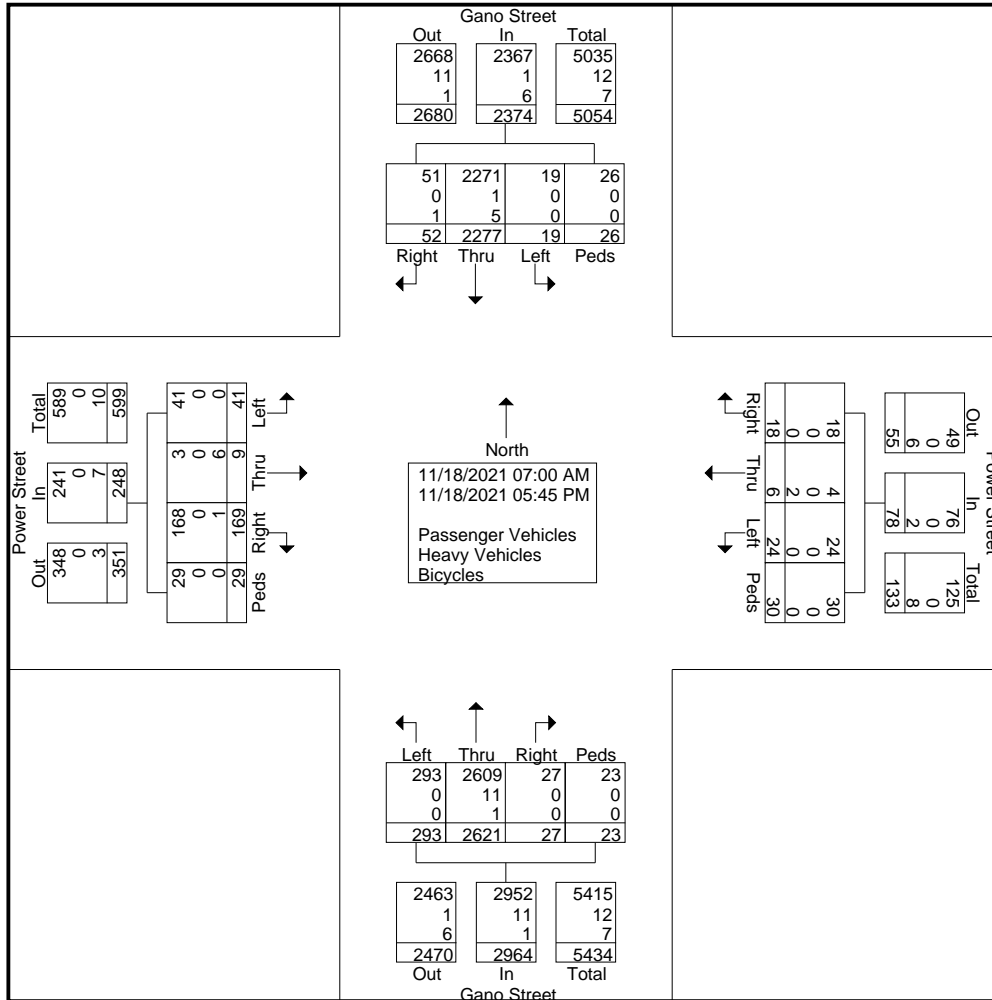


# BETA Group Inc.

701 George Washington Highway  
 Lincoln, Rhode Island, 02865  
 P:401.333.2382

Project: Gano Street Residential  
 Town/City: Providence, RI  
 Location: Gano St. @ Power St.  
 Weather: Sunny, 50's

File Name : 10214\_Gano  
 Site Code : 01021401  
 Start Date : 11/18/2021  
 Page No : 2



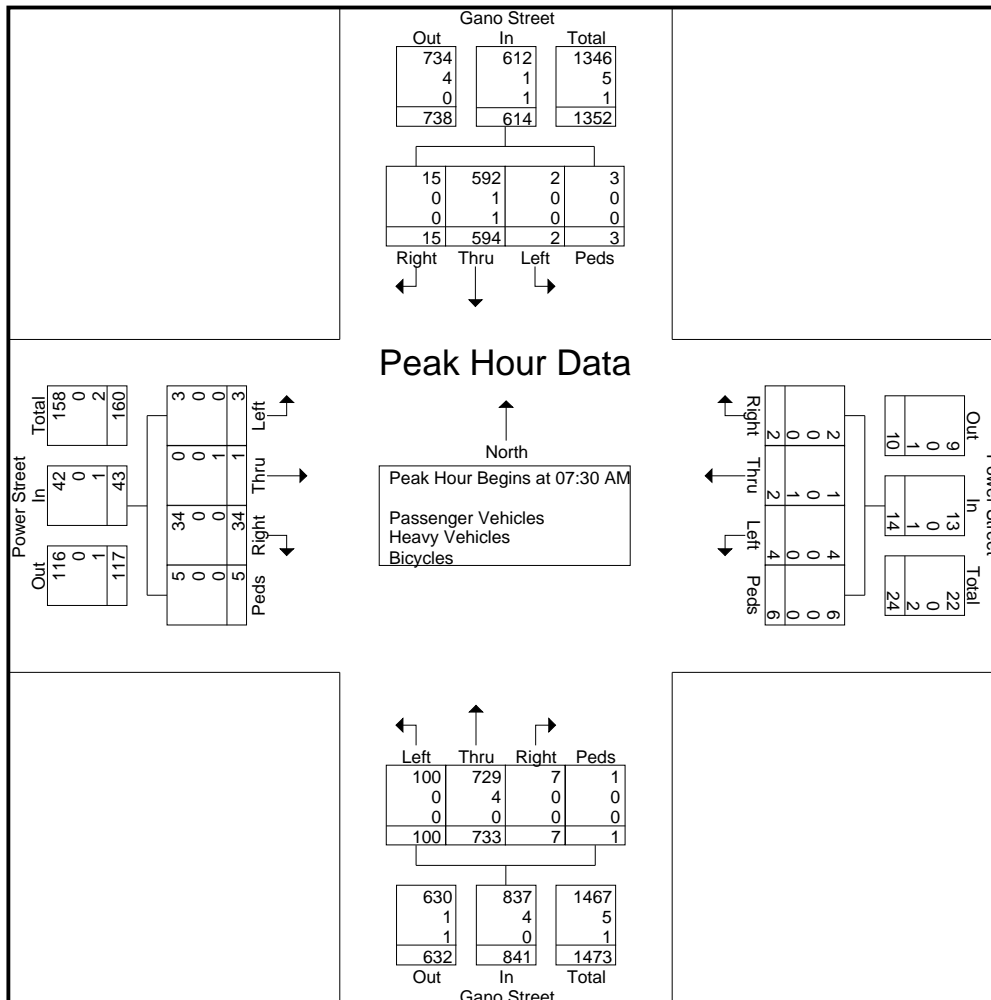
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P:401.333.2382

Project: Gano Street Residential  
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Location: Gano St. @ Power St.  
Weather: Sunny, 50's

File Name : 10214\_Gano  
Site Code : 01021401  
Start Date : 11/18/2021  
Page No : 3

Start Time	Gano Street Southbound					Power Street Westbound					Gano Street Northbound					Power Street Eastbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																						
Peak Hour for Entire Intersection Begins at 07:30 AM																						
07:30 AM	0	150	3	0	153	2	0	0	3	5	24	198	0	0	222	1	1	4	0	6	386	
07:45 AM	0	146	2	1	149	1	1	1	0	3	34	199	2	0	235	0	0	8	1	9	396	
08:00 AM	0	134	7	1	142	0	0	0	1	1	21	157	5	0	183	2	0	14	1	17	343	
08:15 AM	2	164	3	1	170	1	1	1	2	5	21	179	0	1	201	0	0	8	3	11	387	
Total Volume	2	594	15	3	614	4	2	2	6	14	100	733	7	1	841	3	1	34	5	43	1512	
% App. Total	0.3	96.7	2.4	0.5		28.6	14.3	14.3	42.9		11.9	87.2	0.8	0.1		7	2.3	79.1	11.6			
PHF	.250	.905	.536	.750	.903	.500	.500	.500	.500	.700	.735	.921	.350	.250	.895	.375	.250	.607	.417	.632	.955	
Passenger Vehicles	2	592	15	3	612	4	1	2	6	13	100	729	7	1	837	3	0	34	5	42	1504	
% Passenger Vehicles	100	99.7	100	100	99.7	100	50.0	100	100	92.9	100	99.5	100	100	99.5	100	0	100	100	97.7	99.5	
Heavy Vehicles	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	5	
% Heavy Vehicles	0	0.2	0	0	0.2	0	0	0	0	0	0	0.5	0	0	0.5	0	0	0	0	0	0.3	
Bicycles	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	3
% Bicycles	0	0.2	0	0	0.2	0	50.0	0	0	7.1	0	0	0	0	0	0	100	0	0	2.3	0.2	



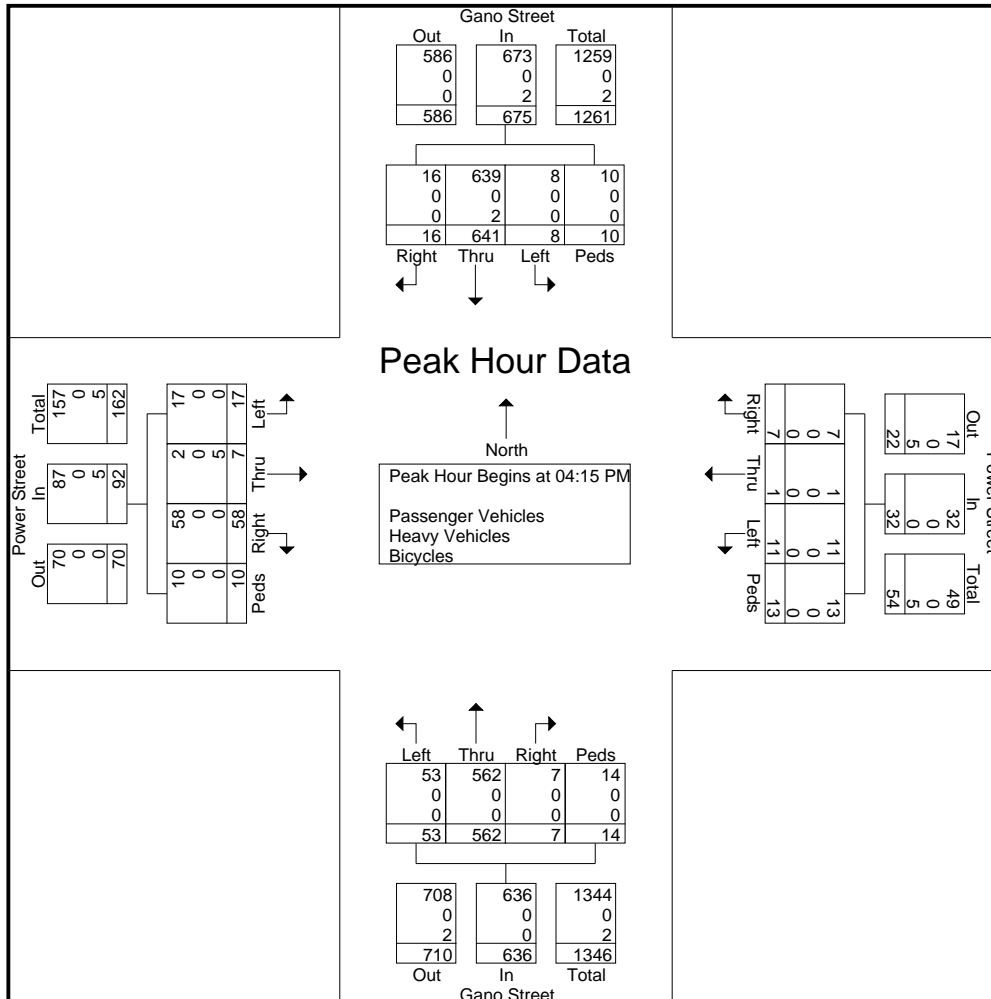
# BETA Group Inc.

701 George Washington Highway  
Lincoln, Rhode Island, 02865  
P:401.333.2382

Project: Gano Street Residential  
Town/City: Providence, RI  
Location: Gano St. @ Power St.  
Weather: Sunny, 50's

File Name : 10214\_Gano  
Site Code : 01021401  
Start Date : 11/18/2021  
Page No : 4

Start Time	Gano Street Southbound					Power Street Westbound					Gano Street Northbound					Power Street Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	2	169	5	2	178	1	0	1	5	7	7	151	4	4	166	4	1	13	4	22	373
04:30 PM	1	165	4	3	173	5	0	1	0	6	14	144	1	3	162	2	0	23	2	27	368
04:45 PM	3	148	2	3	156	2	0	1	6	9	13	116	1	3	133	8	5	7	3	23	321
05:00 PM	2	159	5	2	168	3	1	4	2	10	19	151	1	4	175	3	1	15	1	20	373
Total Volume	8	641	16	10	675	11	1	7	13	32	53	562	7	14	636	17	7	58	10	92	1435
% App. Total	1.2	95	2.4	1.5		34.4	3.1	21.9	40.6		8.3	88.4	1.1	2.2		18.5	7.6	63	10.9		
PHF	.667	.948	.800	.833	.948	.550	.250	.438	.542	.800	.697	.930	.438	.875	.909	.531	.350	.630	.625	.852	.962
Passenger Vehicles	8	639	16	10	673	11	1	7	13	32	53	562	7	14	636	17	2	58	10	87	1428
% Passenger Vehicles	100	99.7	100	100	99.7	100	100	100	100	100	100	100	100	100	100	100	28.6	100	100	94.6	99.5
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicycles	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	7
% Bicycles	0	0.3	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	71.4	0	0	5.4	0.5



## APPENDIX B – Traffic Crash Data

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January 2017 through December 2019 and January 2022 through December  
2022

Gano Street

Gano Street at Power Street

# APPENDIX C – Trip Generation

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## **ITE Trip Generation Summary**

## **Site Trip Distribution**

## **ITE Land Use Code**

ITE Land Use Code 221 – Multifamily Housing (Mid-Rise)

C

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**ITE Trip Generation Summary**

## Trip Generation Summary

### Summary;

	<u>Description</u>	<u>Enter</u>	<u>Exit</u>	<u>Total</u>
<u>Weekday AM Peak Hour</u>				
ITE Land Use Code 221	Multifamily Housing (Mid-Rise)	5	15	20
<u>Weekday PM Peak Hour</u>				
ITE Land Use Code 221	Multifamily Housing (Mid-Rise)	13	9	22

## Calculations;

ITE Land Use Code 221

Multifamily Housing (Mid-Rise)

(54 Dwelling Units)

Independent Variable (X) = Dwelling Units

X = 54

AM Peak*Directional Distribution:*

23% Entering    77% Exiting

$$T = 0.37 \times (X)$$

$$T = 0.37 \times 54$$

$$T = 20$$

Enter:	5
--------	---

Exit:	15
-------	----

Total:	20
--------	----

PM Peak*Directional Distribution:*

61% Entering    39% Exiting

$$T = 0.39 \times (X)$$

$$T = 0.39 \times 54$$

$$T = 22$$

Enter:	13
--------	----

Exit:	9
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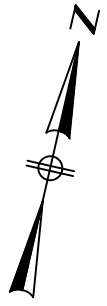
Total:	22
--------	----



C

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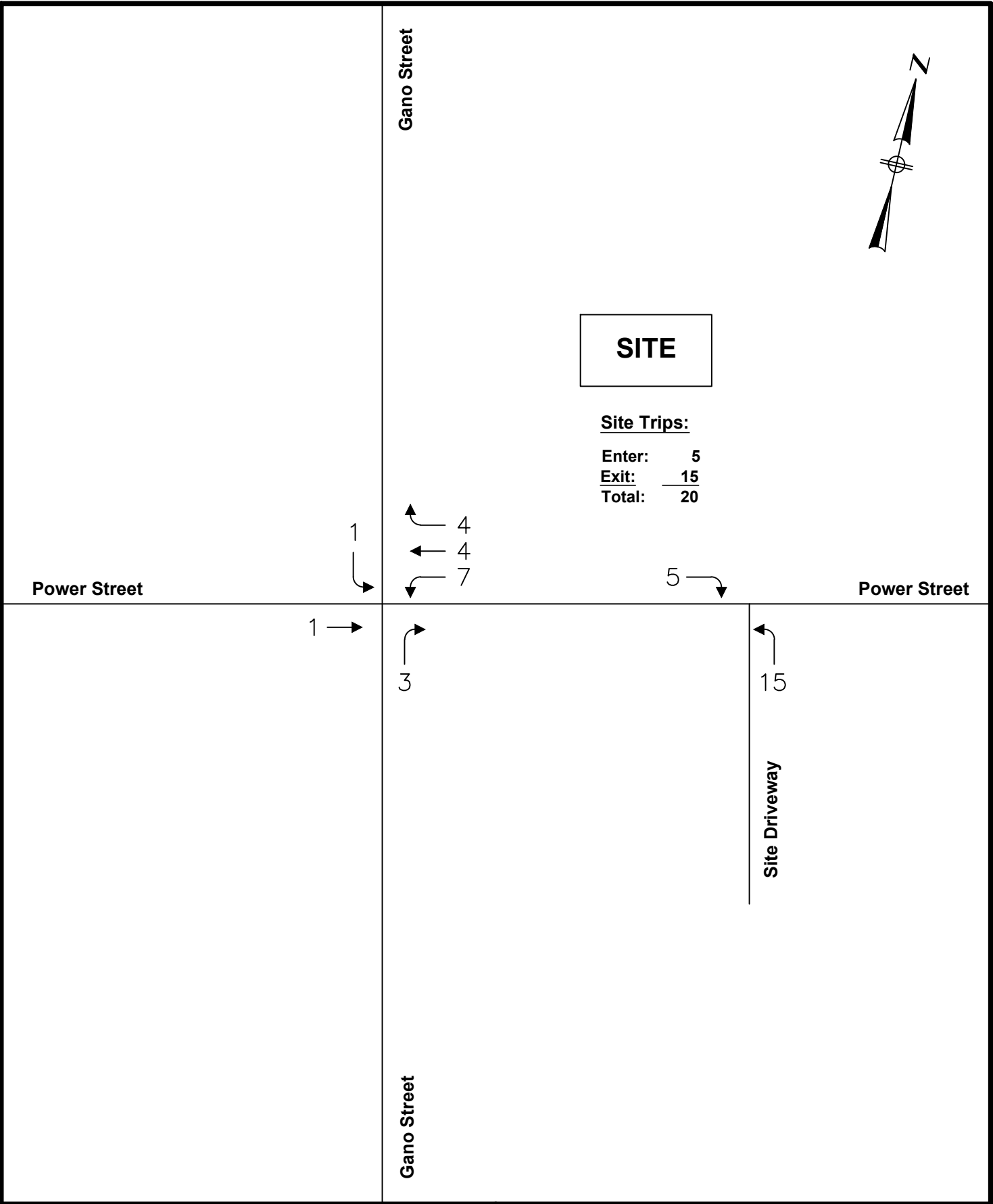
**Site Trip Distribution**



**SITE**

**Site Trips:**

Enter:	5
Exit:	15
Total:	20



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**SITE TRIP DISTRIBUTION  
WEEKDAY AM PEAK HOUR**

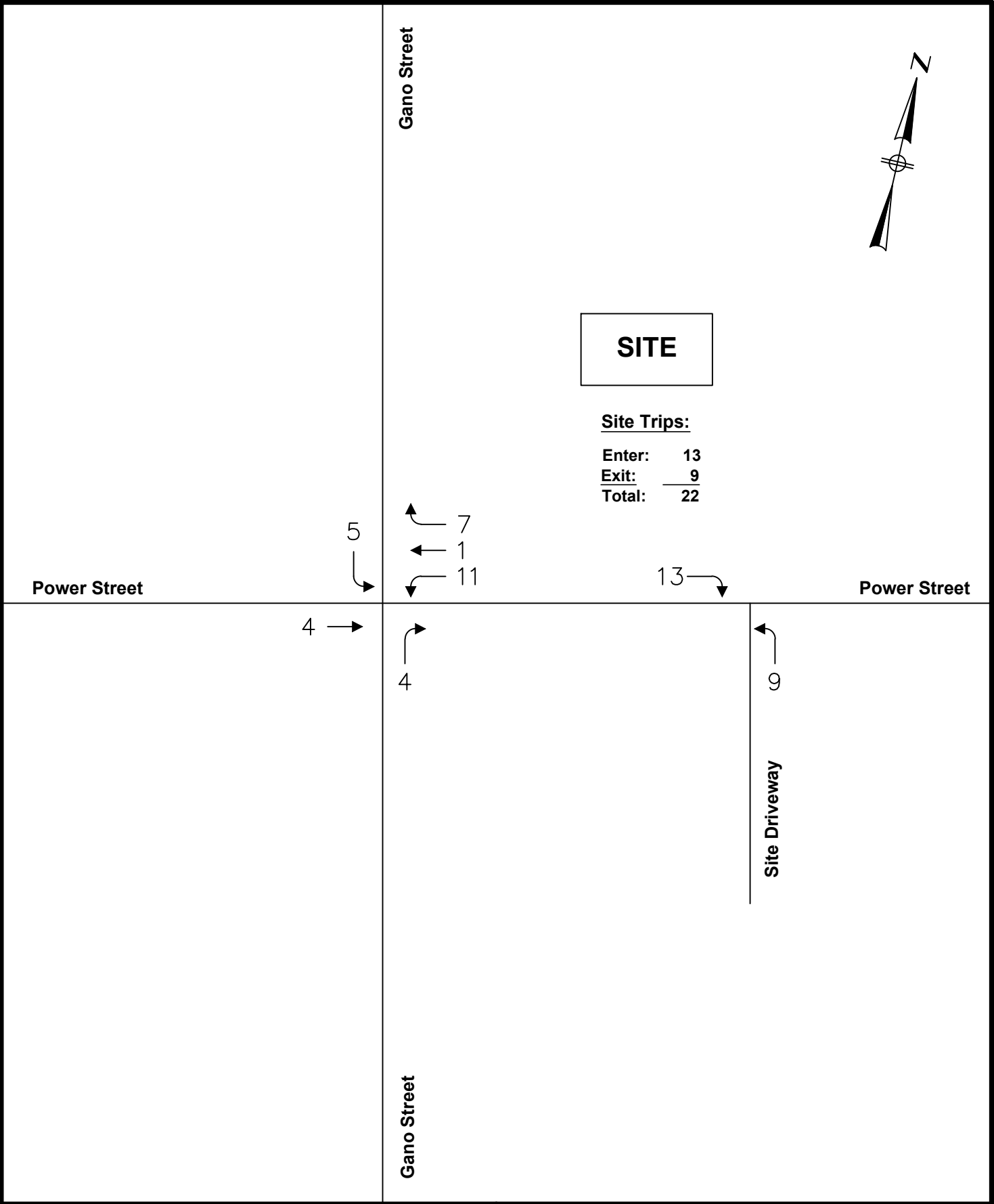
**PROPOSED RESIDENTIAL REDEVELOPMENT  
PROVIDENCE, RHODE ISLAND**



**SITE**

**Site Trips:**

Enter: 13  
Exit: 9  
Total: 22



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**SITE TRIP DISTRIBUTION  
WEEKDAY PM PEAK HOUR**

**PROPOSED RESIDENTIAL REDEVELOPMENT  
PROVIDENCE, RHODE ISLAND**

C

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**ITE Land Use Code**

ITE Land Use Code 221 – Multifamily Housing (Mid-Rise)

ITE Land Use Code 221 – Multifamily Housing (Mid-Rise)

# Land Use: 221

## Multifamily Housing (Mid-Rise)

---

### Description

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), off-campus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

### Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

### Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (<https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>).

***It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).***

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

### Source Numbers

168, 188, 204, 305, 306, 321, 818, 857, 862, 866, 901, 904, 910, 949, 951, 959, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1056, 1057, 1058, 1071, 1076

# Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

## Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 30

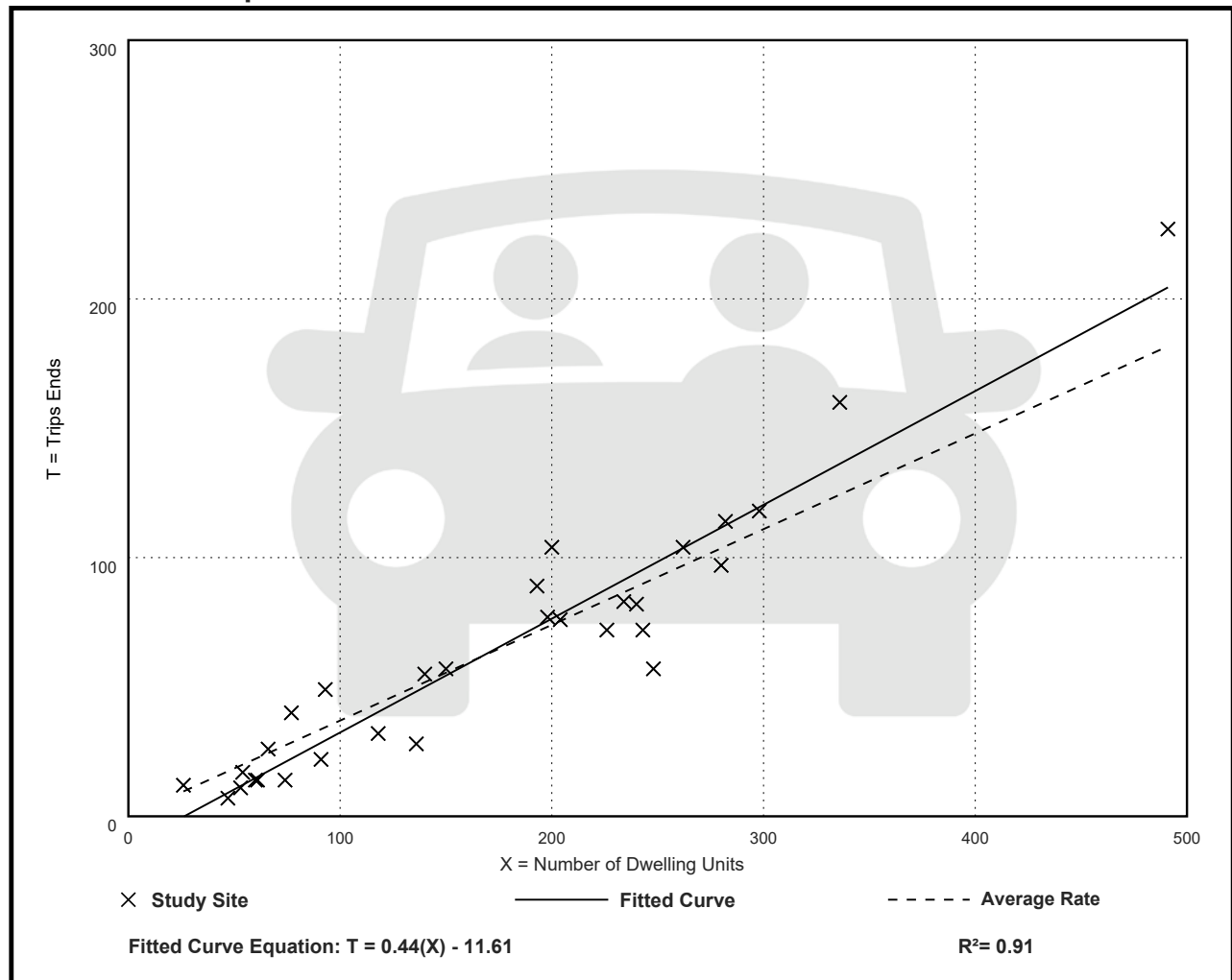
Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

## Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09

## Data Plot and Equation



# Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

## Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 31

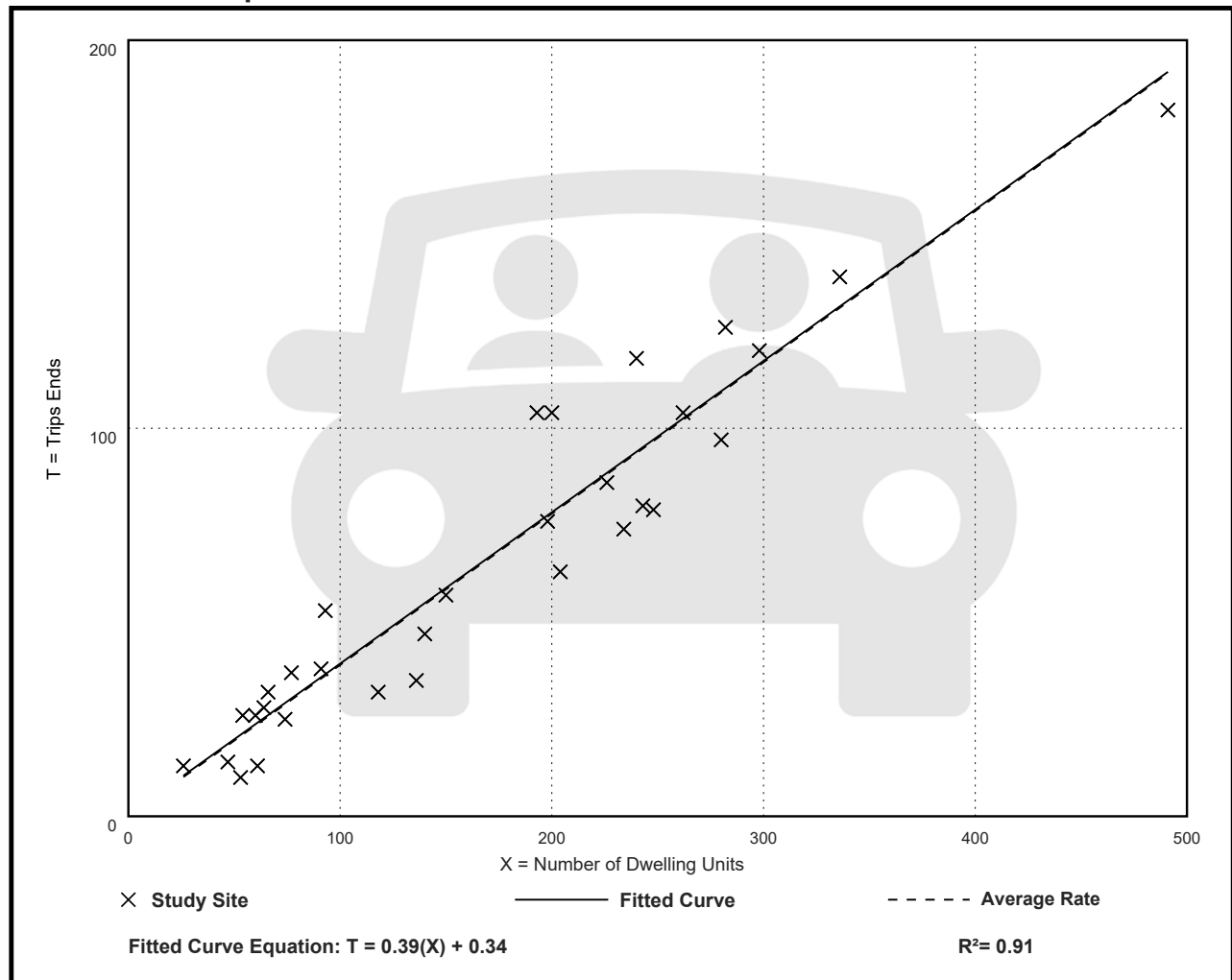
Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

## Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08

## Data Plot and Equation





# APPENDIX D – Operational Analysis

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## **Existing Conditions**

Gano Street at Power Street

## **Future No Build Conditions**

Gano Street at Power Street

## **Future Build Conditions**

Gano Street at Power Street

Power Street at Site Driveway

D

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**Existing Weekday AM / PM Peak Hour**

Gano Street at Power Street

Gano Street at Power Street

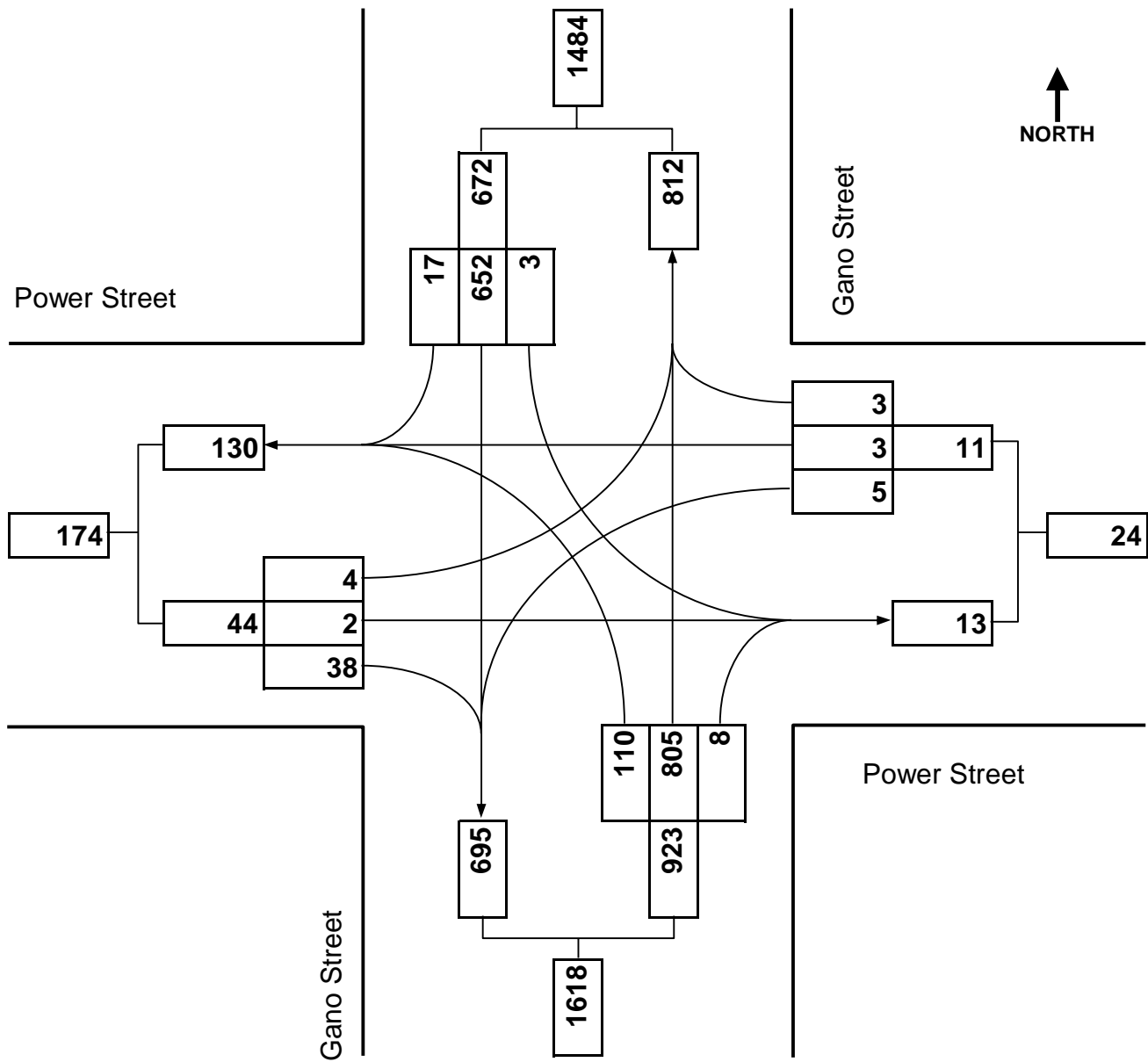


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** AM Peak Hour

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** 7:30 AM - 8:30 AM  
**Future:** n/a



Gano Street Apartments  
 3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	2	38	5	3	3	110	805	8	3	652	17
Future Vol, veh/h	4	2	38	5	3	3	110	805	8	3	652	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	1	0	0	1	0
Mvmt Flow	4	2	40	5	3	3	115	839	8	3	679	18

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	1770	1771	688	1788	1776	843	697	0	0	847	0	0
Stage 1	694	694	-	1073	1073	-	-	-	-	-	-	-
Stage 2	1076	1077	-	715	703	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	66	84	450	64	84	367	909	-	-	799	-	-
Stage 1	436	447	-	269	299	-	-	-	-	-	-	-
Stage 2	268	298	-	425	443	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	51	64	450	46	64	367	909	-	-	799	-	-
Mov Cap-2 Maneuver	51	64	-	46	64	-	-	-	-	-	-	-
Stage 1	332	444	-	205	228	-	-	-	-	-	-	-
Stage 2	199	227	-	383	440	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	24.8		69.5		1.1		0	
HCM LOS	C		F					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	909	-	-	227	67	799	-
HCM Lane V/C Ratio	0.126	-	-	0.202	0.171	0.004	-
HCM Control Delay (s)	9.5	0	-	24.8	69.5	9.5	0
HCM Lane LOS	A	A	-	C	F	A	A
HCM 95th %tile Q(veh)	0.4	-	-	0.7	0.6	0	-

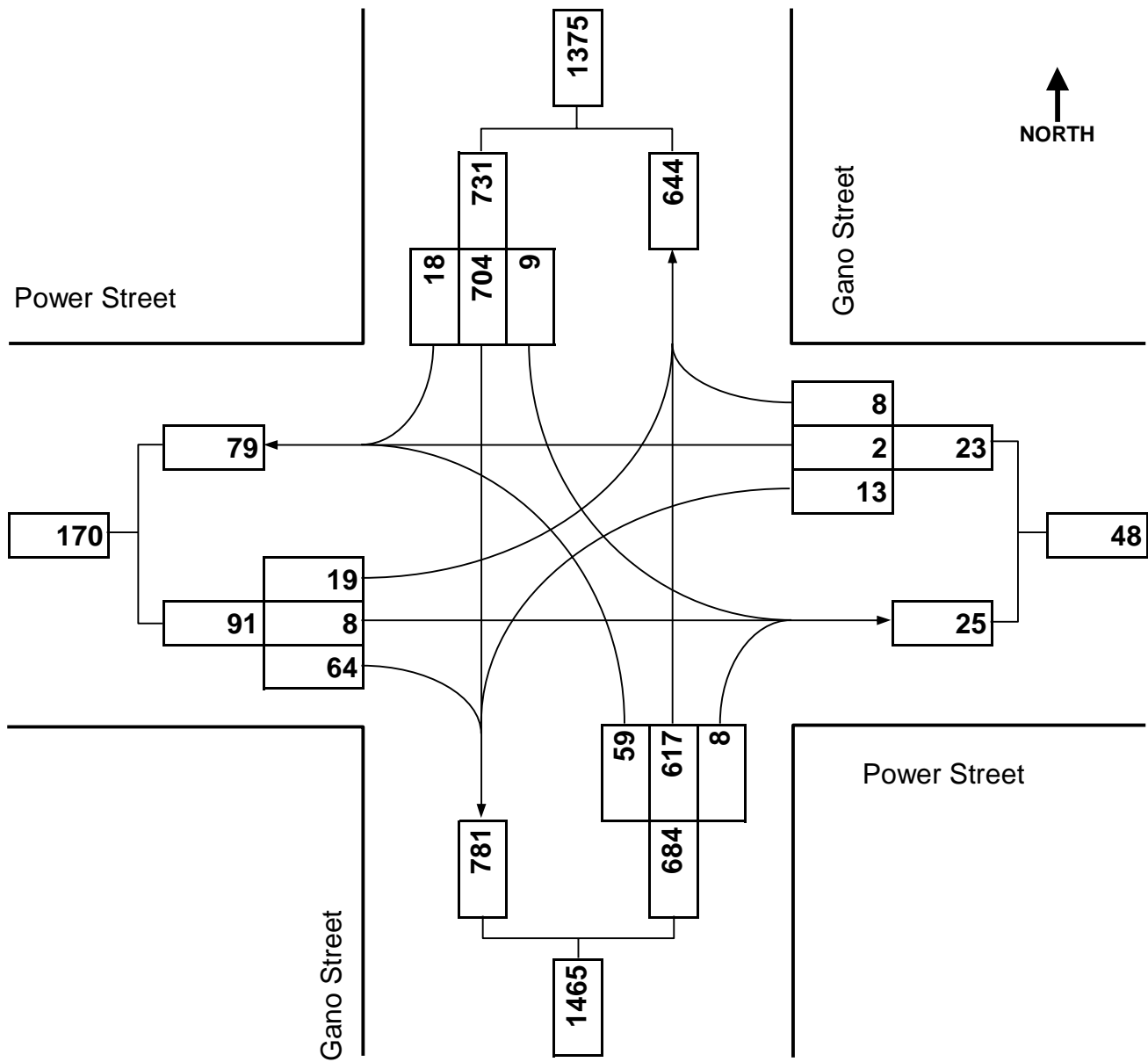


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** PM Peak Hour

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** 4:15 PM - 5:15 PM  
**Future:** n/a



Gano Street Apartments  
 3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	3.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	19	8	64	13	2	8	59	617	8	9	704	18
Future Vol, veh/h	19	8	64	13	2	8	59	617	8	9	704	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	20	8	67	14	2	8	61	643	8	9	733	19

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1535	1534	743	1567	1539	647	752	0	0	651	0	0
Stage 1	761	761	-	769	769	-	-	-	-	-	-	-
Stage 2	774	773	-	798	770	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	96	118	418	91	117	475	867	-	-	945	-	-
Stage 1	401	417	-	397	413	-	-	-	-	-	-	-
Stage 2	394	412	-	382	413	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	84	103	418	65	102	475	867	-	-	945	-	-
Mov Cap-2 Maneuver	84	103	-	65	102	-	-	-	-	-	-	-
Stage 1	357	410	-	353	368	-	-	-	-	-	-	-
Stage 2	343	367	-	310	406	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	38.5		53.9		0.8		0.1	
HCM LOS	E		F					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	867	-	-	199	97	945	-
HCM Lane V/C Ratio	0.071	-	-	0.476	0.247	0.01	-
HCM Control Delay (s)	9.5	0	-	38.5	53.9	8.8	0
HCM Lane LOS	A	A	-	E	F	A	A
HCM 95th %tile Q(veh)	0.2	-	-	2.3	0.9	0	-

D

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**Future No Build Weekday AM / PM Peak Hour**

Gano Street at Power Street



Gano Street at Power Street

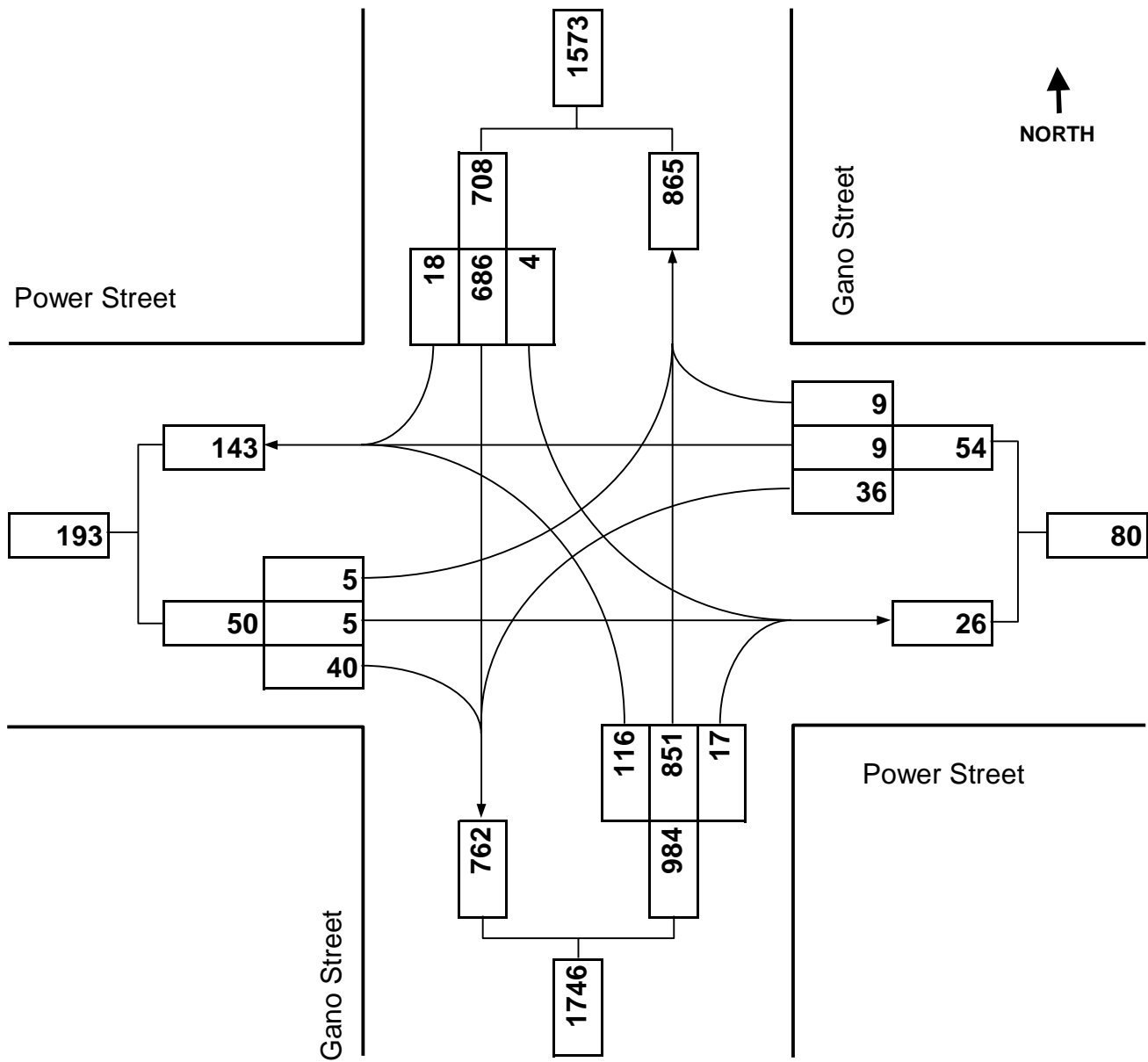


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** AM Peak Hour  
**Future:** 2028 No Build



Gano Street Apartments  
 3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	13.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	5	40	36	9	9	116	851	17	6	688	18
Future Vol, veh/h	5	5	40	36	9	9	116	851	17	6	688	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	1	0	0	1	0
Mvmt Flow	5	5	42	38	9	9	121	886	18	6	717	19

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	1885	1885	727	1899	1885	895	736	0	0	904	0	0
Stage 1	739	739	-	1137	1137	-	-	-	-	-	-	-
Stage 2	1146	1146	-	762	748	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	55	71	427	53	71	342	879	-	-	761	-	-
Stage 1	412	427	-	248	279	-	-	-	-	-	-	-
Stage 2	245	276	-	400	423	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	36	51	427	~ 34	51	342	879	-	-	761	-	-
Mov Cap-2 Maneuver	36	51	-	~ 34	51	-	-	-	-	-	-	-
Stage 1	297	421	-	179	201	-	-	-	-	-	-	-
Stage 2	164	199	-	352	418	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	40.9	\$ 390.6	1.1	0.1
HCM LOS	E	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	879	-	-	151	43	761	-
HCM Lane V/C Ratio	0.137	-	-	0.345	1.308	0.008	-
HCM Control Delay (s)	9.7	0	-	40.9\$	390.6	9.8	0
HCM Lane LOS	A	A	-	E	F	A	A
HCM 95th %tile Q(veh)	0.5	-	-	1.4	5.5	0	-

Notes  
 -: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

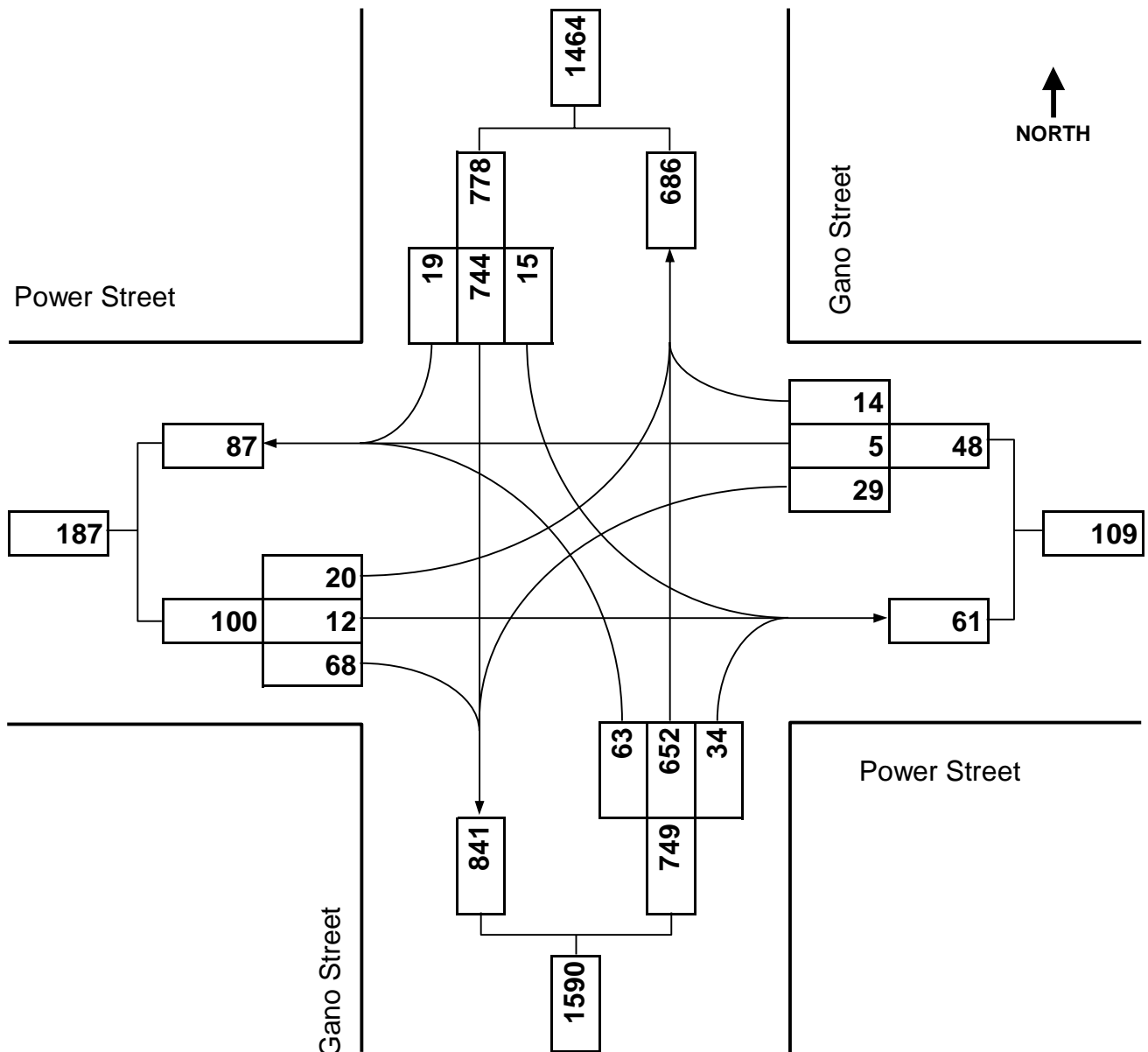


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** PM Peak Hour  
**Future:** 2028 No Build



Gano Street Apartments  
3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	8.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	12	68	29	5	14	63	652	34	15	744	19
Future Vol, veh/h	20	12	68	29	5	14	63	652	34	15	744	19
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	13	71	30	5	15	66	679	35	16	775	20

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	1656	1663	785	1688	1656	697	795	0	0	714	0	0
Stage 1	817	817	-	829	829	-	-	-	-	-	-	-
Stage 2	839	846	-	859	827	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	79	98	396	75	99	444	835	-	-	895	-	-
Stage 1	373	393	-	368	388	-	-	-	-	-	-	-
Stage 2	363	381	-	354	389	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	64	82	396	48	83	444	835	-	-	895	-	-
Mov Cap-2 Maneuver	64	82	-	48	83	-	-	-	-	-	-	-
Stage 1	324	380	-	319	337	-	-	-	-	-	-	-
Stage 2	300	331	-	272	377	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	62.7		139.6		0.8		0.2	
HCM LOS	F		F					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	835	-	-	159	69	895	-
HCM Lane V/C Ratio	0.079	-	-	0.655	0.725	0.017	-
HCM Control Delay (s)	9.7	0	-	62.7	139.6	9.1	0
HCM Lane LOS	A	A	-	F	F	A	A
HCM 95th %tile Q(veh)	0.3	-	-	3.7	3.3	0.1	-

D

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**Future Build Weekday AM / PM Peak Hour**

Gano Street at Power Street  
Power Street at Site Driveway

Gano Street at Power Street

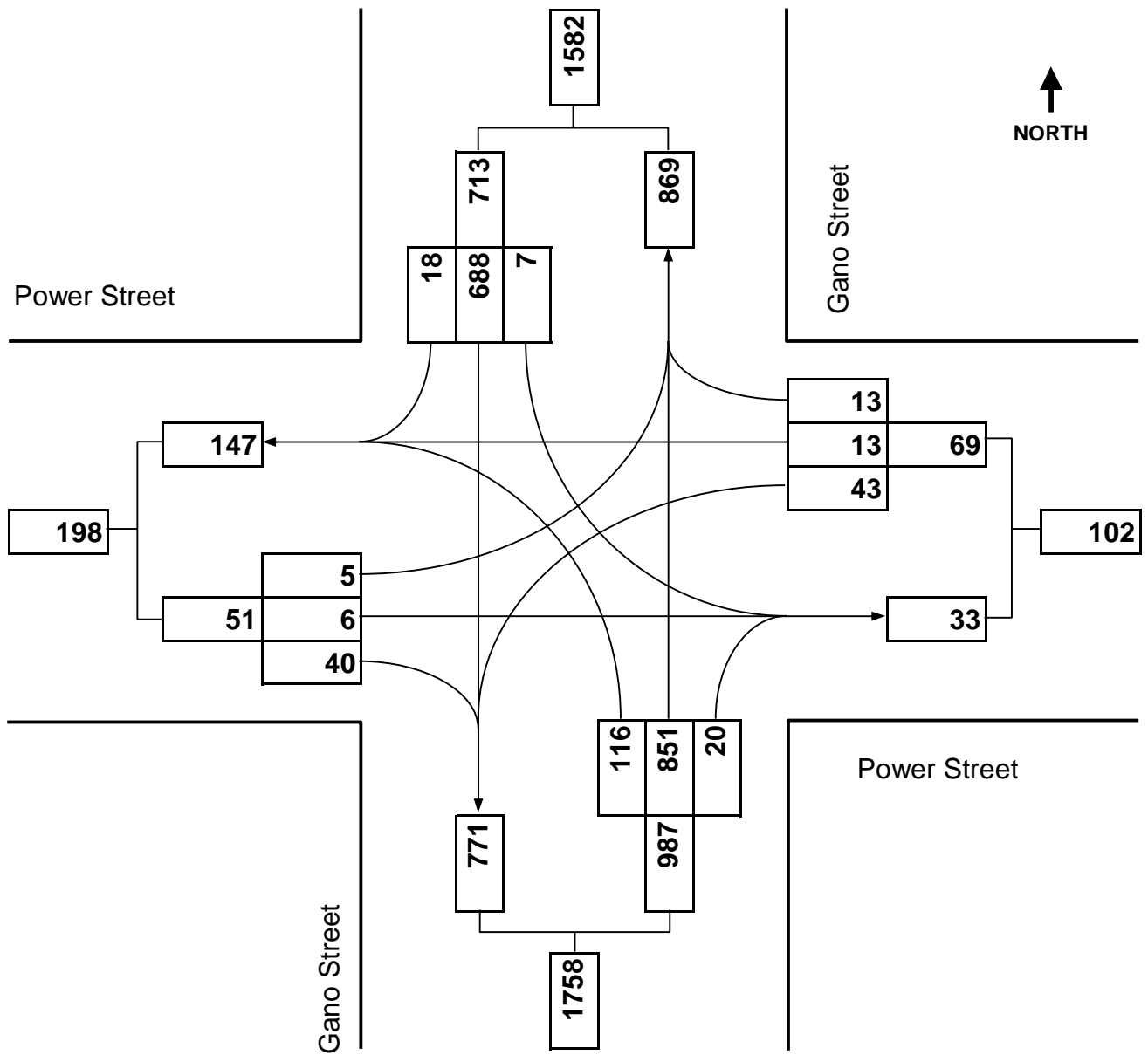


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** AM Peak Hour  
**Future:** 2028 Build





Gano Street Apartments  
3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	21.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	6	40	43	13	13	116	851	20	7	688	18
Future Vol, veh/h	5	6	40	43	13	13	116	851	20	7	688	18
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	1	0	0	1	0
Mvmt Flow	5	6	42	45	14	14	121	886	21	7	717	19

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1894	1890	727	1904	1889	897	736	0	0	907	0	0
Stage 1	741	741	-	1139	1139	-	-	-	-	-	-	-
Stage 2	1153	1149	-	765	750	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	54	71	427	53	71	341	879	-	-	759	-	-
Stage 1	411	426	-	247	278	-	-	-	-	-	-	-
Stage 2	242	275	-	399	422	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	32	50	427	~ 34	50	341	879	-	-	759	-	-
Mov Cap-2 Maneuver	32	50	-	~ 34	50	-	-	-	-	-	-	-
Stage 1	296	419	-	178	200	-	-	-	-	-	-	-
Stage 2	156	198	-	349	415	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	46.6	\$ 513	1.1	0.1
HCM LOS	E	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	879	-	-	138	44	759	-
HCM Lane V/C Ratio	0.137	-	-	0.385	1.634	0.01	-
HCM Control Delay (s)	9.7	0	-	46.6	\$ 513	9.8	0
HCM Lane LOS	A	A	-	E	F	A	A
HCM 95th %tile Q(veh)	0.5	-	-	1.6	7.2	0	-

Notes  
 -: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

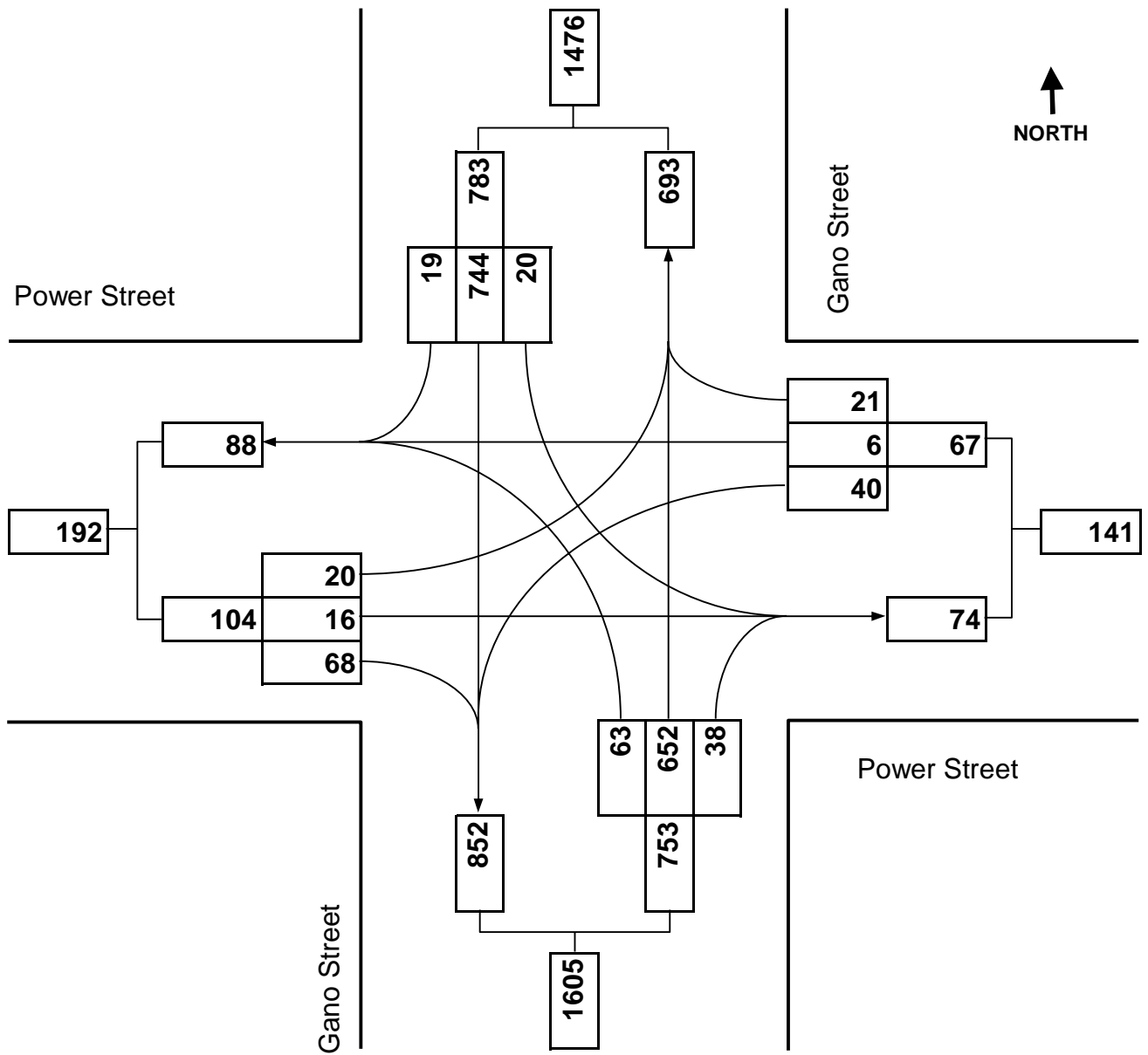


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### Turning Movement Diagram

**Major Street:** Gano Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Power Street  
**Day of Week:** Weekday  
**Peak Period:** PM Peak Hour  
**Future:** 2028 Build



Gano Street Apartments  
 3: Gano Street & Power Street

Providence, RI

Intersection												
Int Delay, s/veh	14.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	16	68	40	6	21	63	652	38	20	744	19
Future Vol, veh/h	20	16	68	40	6	21	63	652	38	20	744	19
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	17	71	42	6	22	66	679	40	21	775	20

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1672	1678	785	1702	1668	699	795	0	0	719	0	0
Stage 1	827	827	-	831	831	-	-	-	-	-	-	-
Stage 2	845	851	-	871	837	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	77	96	396	73	97	443	835	-	-	892	-	-
Stage 1	369	389	-	367	387	-	-	-	-	-	-	-
Stage 2	360	379	-	349	385	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	60	80	396	44	81	443	835	-	-	892	-	-
Mov Cap-2 Maneuver	60	80	-	44	81	-	-	-	-	-	-	-
Stage 1	320	373	-	318	336	-	-	-	-	-	-	-
Stage 2	291	329	-	262	369	-	-	-	-	-	-	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	77		241.4		0.8		0.2	
HCM LOS	F		F					

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	835	-	-	148	65	892	-
HCM Lane V/C Ratio	0.079	-	-	0.732	1.074	0.023	-
HCM Control Delay (s)	9.7	0	-	77	241.4	9.1	0
HCM Lane LOS	A	A	-	F	F	A	A
HCM 95th %tile Q(veh)	0.3	-	-	4.4	5.4	0.1	-

Power Street at Site Driveway

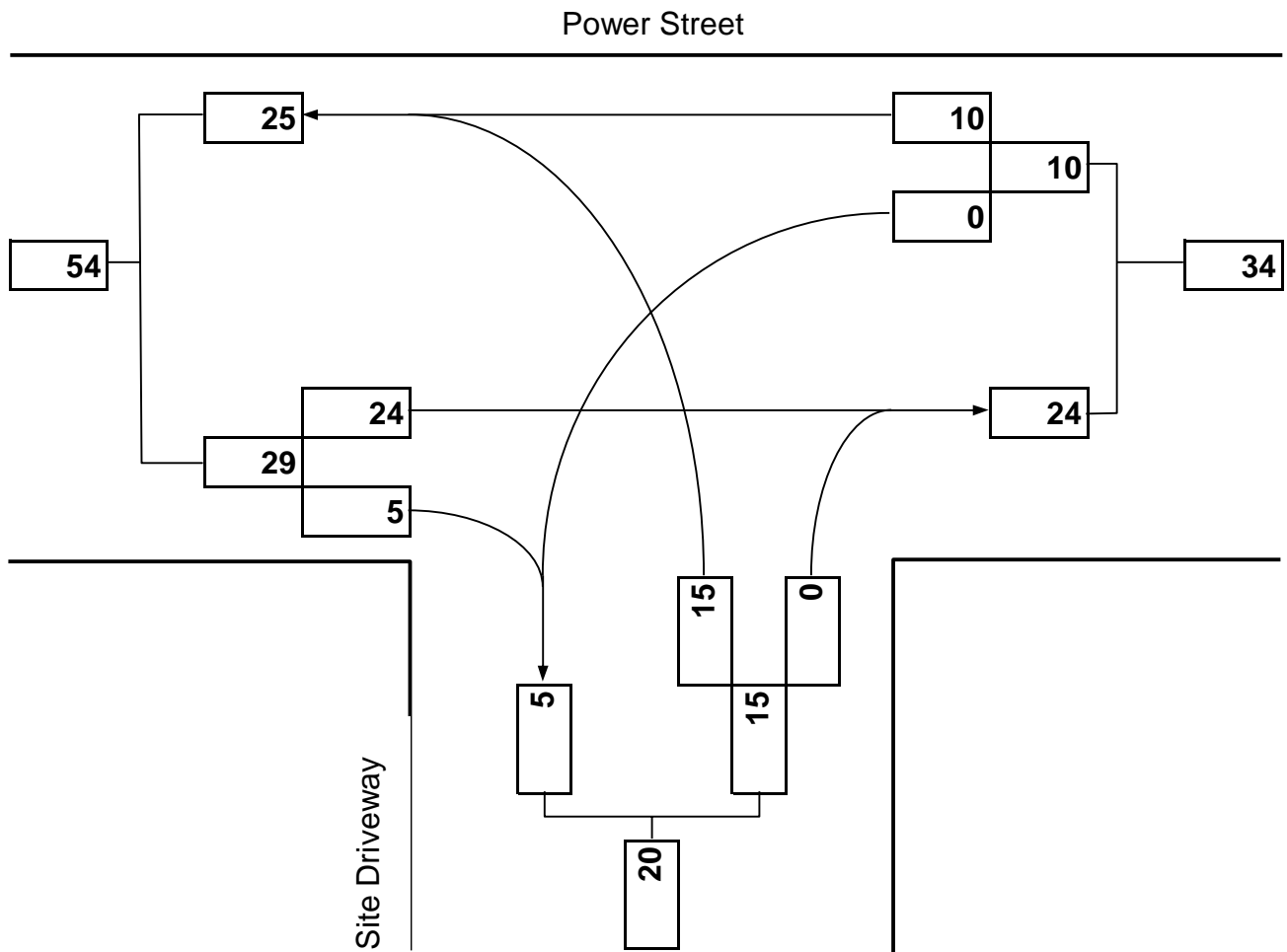


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### Turning Movement Diagram

**Major Street:** Power Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Site Driveway  
**Day of Week:** Weekday  
**Peak Period:** AM Peak Hour  
**Future:** 2028 Build



Gano Street Apartments  
2: Site Driveway & Power Street

Providence, RI

Intersection						
Int Delay, s/veh	2.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	24	5	0	10	15	0
Future Vol, veh/h	24	5	0	10	15	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	5	0	11	16	0
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	31	0	40	29
Stage 1	-	-	-	-	29	-
Stage 2	-	-	-	-	11	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1582	-	972	1046
Stage 1	-	-	-	-	994	-
Stage 2	-	-	-	-	1012	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1582	-	972	1046
Mov Cap-2 Maneuver	-	-	-	-	972	-
Stage 1	-	-	-	-	994	-
Stage 2	-	-	-	-	1012	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	0	8.8			
HCM LOS						A
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	972	-	-	1582	-	
HCM Lane V/C Ratio	0.017	-	-	-	-	
HCM Control Delay (s)	8.8	-	-	0	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0.1	-	-	0	-	

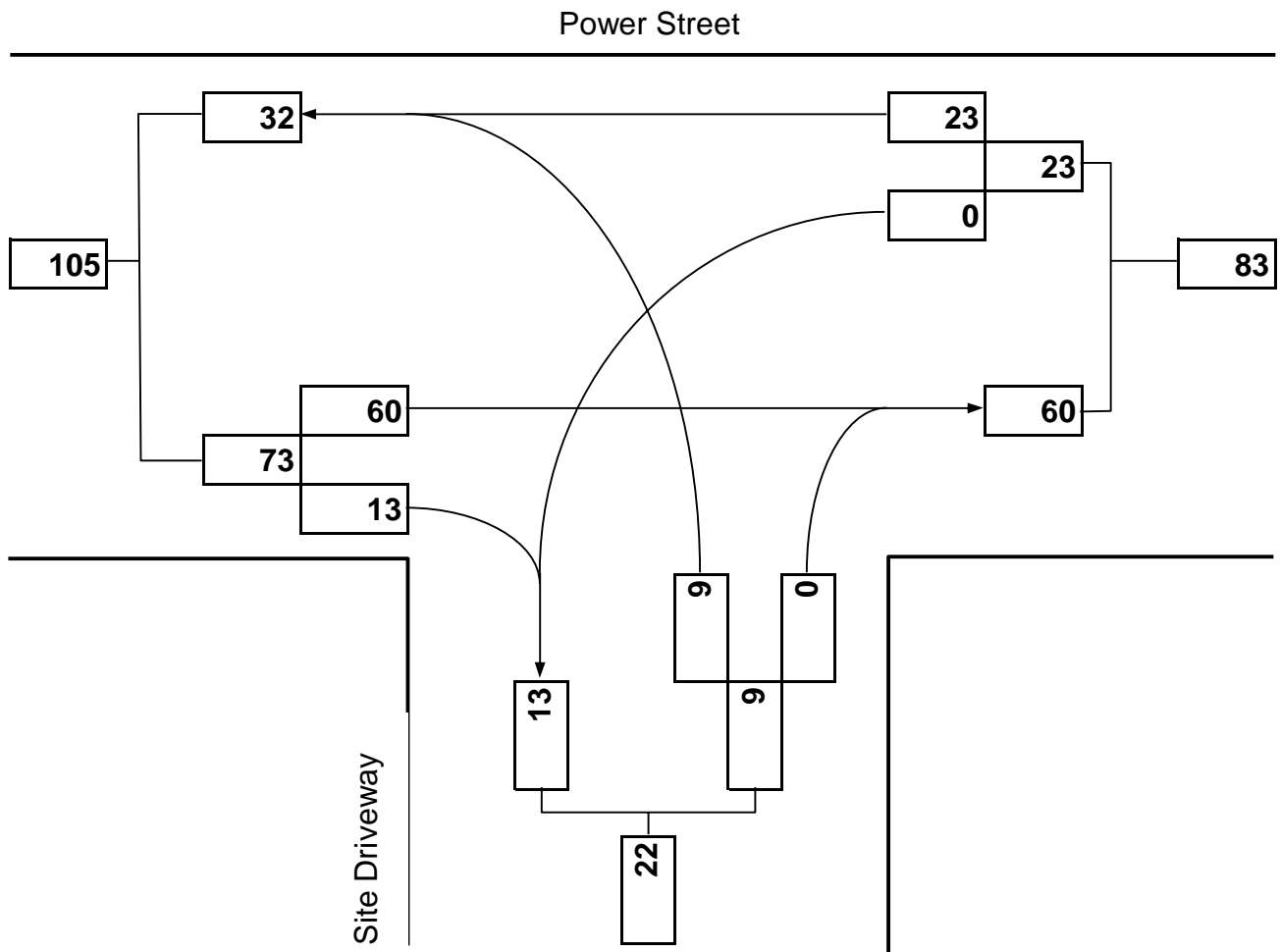


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### Turning Movement Diagram

**Major Street:** Power Street  
**City/Town:** Providence, RI  
**Reference No.:** 11010  
**Existing:** n/a

**Minor Street:** Site Driveway  
**Day of Week:** Weekday  
**Peak Period:** PM Peak Hour  
**Future:** 2028 Build



Gano Street Apartments  
2: Site Driveway & Power Street

Providence, RI

Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	60	13	0	23	9	0
Future Vol, veh/h	60	13	0	23	9	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	65	14	0	25	10	0
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	79	0	97	72
Stage 1	-	-	-	-	72	-
Stage 2	-	-	-	-	25	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1519	-	902	990
Stage 1	-	-	-	-	951	-
Stage 2	-	-	-	-	998	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1519	-	902	990
Mov Cap-2 Maneuver	-	-	-	-	902	-
Stage 1	-	-	-	-	951	-
Stage 2	-	-	-	-	998	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	0	9			
HCM LOS					A	
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	902	-	-	1519	-	
HCM Lane V/C Ratio	0.011	-	-	-	-	
HCM Control Delay (s)	9	-	-	0	-	
HCM Lane LOS	A	-	-	A	-	
HCM 95th %tile Q(veh)	0	-	-	0	-	