# HOMEWOOD SUITES 

Lacey, WA

TRAFFIC IMPACT ASSESSMENT (TIA)
September 18, 2023


HEATH\&ASSOCIATES
Transportation Planning \& Engineering

# HOMEWOOD SUITES TRAFFIC IMPACT ASSESSMENT 

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## HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS

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# HOMEWOOD SUITES TRAFFIC IMPACT ASSESSMENT 

## 1. INTRODUCTION

The main goals of this study focus on the analysis of existing roadway conditions and forecasts of newly generated project traffic. The first task includes the review of general roadway information on the adjacent street system, baseline vehicular volumes, and sight distance data. Forecasts of future traffic and dispersion patterns on the street system are then determined using established trip generation and distribution techniques. As a final step, appropriate conclusions and mitigation measures are defined.

## 2. PROJECT DESCRIPTION

Homewood Suites is a proposed lodging development comprised of two hotel buildings located within the city of Lacey. The first hotel building (Homewood Suites) is comprised of 128 rooms and the second (Tru by Hilton) is comprised of 98 rooms. The subject site is bordered to the east by Hogum Bay Road NE and to the west by Marvin Road NE contained in a single, undeveloped 4.18acre parcel: 11811120800 . Site ingress/egress is proposed via two access points. The first is by way of the Marvin Road NE \& Main Street NE roundabout east leg (recently constructed by the commercial development to the north). The second is to extend west from Hogum Bay Road NE opposite the Thurston County Waste \& Recovery Center Access. Figure 1 below displays the existing roadway network with the subject parcel highlighted in red. Figure 2 on the following page shows the conceptual site plan.



## 3. EXISTING CONDITIONS

### 3.1 Existing Street System

Characteristics of the major roadways and arterials serving the subject site are provided in Table 1 below.

Table 1: Roadway Network

| Functional <br> Classification | Roadway | Speed <br> Limit | Lanes | Sidewalk/ <br> Walking Path | Street <br> Parking | Bike <br> Facilities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arterial | Marvin Rd NE | 35 | $4-5$ | Yes | No | Yes |
|  | Hogum Bay Rd NE | 35 | $2-3$ | Yes | No | Yes |
|  | Main St NE | $25^{\star}$ | 2 | Yes | E/O | Marvin Rd |

*No posted speed observed

### 3.2 Roadway Improvement Projects

The City of Lacey's Six-Year Comprehensive Transportation Improvement Program (TIP) (2023-2028) indicates three projects in the subject area (under one mile), refer to Table 2 below.

Table 2: Transportation Improvement Projects

| Name | Location | Improvement | Cost |
| :---: | :---: | :---: | :---: | :---: |
| Marvin Rd <br> (Priority \#: 113) | Britton Pkw to <br> Columbia Dr | Widen Marvin Rd from 2 lanes to 5 lanes to Hawks <br> Prairie Rd then transition to 3 lane section with bikes <br> lanes and sidewalks. | $\$ 19,000,000$ |
| Britton Pkw - Phase II <br> (Priority \#: 118) | Gateway Blvd to <br> Carpenter Rd | Widen remaining portion of Britton Parkway to 4 lane |  |
| Martin Wy E | Galaxy Dr to | Access management, bike lanes, sidewalks, and other | $\$ 3,500,000$ |
| Improvements <br> (Priority \#: 125) | Giver Ridge Dr | $\$ 5,500,000$ |  |

According to the City of Lacey's Six Year TIP, there are planned improvements in the area are that will further increase non-motorist mobility via sidewalks, bike lanes, and more.

### 3.3 Non-Motorist Activity \& Infrastructure

Pedestrian and bicycle activity were recorded during the PM peak hour counts at each study intersection. One pedestrian was observed crossing the south leg of Marvin Road NE \& Main Street NE. Three pedestrians and one bicycle were noted crossing the eastern leg of Hogum Bay Road NE \& the Waste and Recycle Access.

Non-motorist infrastructure in the site's vicinity consists of continuous sidewalk along Marvin Road NE and Hogum Bay Road NE. Continuous sidewalks are also available to the south along the Marvin Road bridge over I-5 where many amenities are present. It is also important to note that bordering the subject site to the north are amenities which are expected to be used by the guests at the Homewood Suites development.

Moreover, the Hawks Prairie Park and Ride is located $\sim 650$ feet northeast of the project along Hogum Bay Road NE which provides additional vanpool opportunities.

### 3.4 Transit Service

According to the Intercity Transit regional bus schedule, Routes 62A, 62B, and 65 provide service within walking distance of the proposed Homewood Suites development. Service descriptions for each respective route are provided in Table 3 below.

Table 3: Bus Routes

| Route | Description | Weekday Service | Weekend Service | Nearest Stop |
| :---: | :---: | :---: | :---: | :---: |
| 62A | Martin Wy/NE Lacey Olympia TC to Orion at Willamette | $\begin{aligned} & \text { 5:19 AM to } \\ & \text { 9:39 PM } \end{aligned}$ | $\begin{gathered} \text { 5:19 AM to } \\ \text { 9:39 PM } \end{gathered}$ | ~950' Northwest of Site ${ }^{1}$ |
| 62B | Martin Wy/The Meadows <br> Olympia TC to <br> Pacific at Rockcress | $\begin{gathered} \text { 5:34 AM to } \\ \text { 9:55 PM } \end{gathered}$ | $\begin{gathered} \text { 7:00 AM to } \\ \text { 9:55 PM } \end{gathered}$ | ~4,000' South of Site ${ }^{2}$ |
| 65 | Hawks Prairie Lacey TC to Marvin at Spencer | $\begin{gathered} \text { 5:58 AM to } \\ \text { 9:13 PM } \end{gathered}$ | $\begin{gathered} \text { 7:28 AM to } \\ \text { 9:13 PM } \end{gathered}$ | $\sim 1,250^{\prime}$ <br> Northeast of Site ${ }^{3}$ |

[^0]
### 3.5 Existing Peak Hour Volumes

Field data for this study were collected in August of 2023 at two study intersections as established during scoping with the city:

1. Marvin Road NE \& Main Street NE (roundabout)
2. Hogum Bay Road NE \& Thurston County Waste and Recycle Center Access (stop-controlled)

Data were obtained during the evening peak period from 4:00-6:00 PM, which generally translates to the highest overall roadway volumes in a given 24-hour period. The single hour representing peak volumes for the PM time period is then determined and used for capacity analysis.

It should be noted that the west leg of the Marvin Road NE \& Main Street NE intersection is blocked off and therefore received no entering or departing volumes. Additionally, the east leg was recently constructed and provides access to a commercial development that is under construction and was partially occupied at the time of field counts. Volumes for each leg under future conditions have been provided by the City as discussed in later sections.

Figure 3 highlights PM peak hour volumes at each study intersection.


### 3.6 Level of Service

PM peak hour delays were determined through methodologies prescribed in the Highway Capacity Manual 7th Edition. Capacity analysis is used to determine level of service (LOS) which is an established measure of congestion for transportation facilities. The range ${ }^{4}$ for intersection level of service is LOS A to LOS F with the former indicating the best operating conditions with low control delays and the latter indicating saturated conditions with heavy control delays. Detailed descriptions of intersection LOS are given in the Highway Capacity Manual. Level of service calculations were made through the use of the Synchro 12 analysis program (stop-controlled) and Sidra 9.1 (roundabout). For roundabouts, LOS is determined by the overall average delay. For sidestreet stop-controlled intersections, LOS is determined by the movement with the highest delay. Table 4 below summarizes existing LOS delays for each study intersection.

## Table 4: Existing PM Peak Hour Level of Service

Delays Given in Seconds per Vehicle

| Intersection | Control | Critical <br> Movement | LOS | Delay |
| :---: | :---: | :---: | :---: | :---: |
|  <br> Main St NE <br>  <br> Waste \& Recycle Access | Roundabout | Overall | A | 5.9 |

City of Lacey Level of Service Standard5: The City of Lacey has an LOS D or better standard for the study area.

Both study intersections are shown to operate with LOS B conditions or better meeting city level of service standards. No intersection deficiencies are identified.
4 Signalized Intersections - Level of Service
Service

| Level of Service | Control Delay per <br> Vehicle (sec) |
| :---: | :---: |
| A | $\leq 10$ |
| B | $>10$ and $\leq 20$ |
| C | $>20$ and $\leq 35$ |
| D | $>35$ and $\leq 55$ |
| E | $>55$ and $\leq 80$ |
| F | $>80$ |

$\left.\begin{array}{cc}\begin{array}{c}\text { Stop Controlled Intersections - Level of } \\ \text { Control Delay per }\end{array} \\ \text { Level of Service } & \text { Vehicle (sec) }\end{array}\right\}$

Highway Capacity Manual, 7th Edition
5 Lacey Development Guidelines and Public Works Standards - Chapter 4 - Transportation.

## 4. FORECAST TRAFFIC DEMAND \& ANALYSIS

### 4.1 Project Trip Generation

Trip generation is defined as the number of vehicle movements that enter or exit the respective project site during a designated time period, such as a specific peak hour (AM or PM) or an entire day. The magnitude of the anticipated vehicle trip generation for the proposed project was derived from the Institute of Transportation Engineers (ITE) publication, Trip Generation Manual, 11th Edition.

The utilized Land Use Code (LUC) for the 98-unit hotel is defined under ITE's LUC - 310 Hotel. Rooms were used as the input variable with ITE's average rates to determine trip ends. The 128 -unit hotel is a suites hotel which features full-kitchens, larger units, and often accommodates longer stay durations. Therefore, the land use code applied is LUC - 311 All Suites Hotel. Rooms were used as the input variable with ITE average rates to determine trip ends. Table 5 below identifies the estimated project traffic in terms of daily trips, AM peak hour trips and PM peak hour trips.

The future retail lot shown on the site plan is not part of the current proposal and would be evaluated at a separate time.

Table 5: Project Trip Generation

| Land use | Size (rooms) | AWDT | AM Peak-Hour Trips |  |  | PM Peak-Hour Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | In | Out | Total | In | Out | Total |
| $\text { LUC - } 310$ <br> Hotel | 98 | 783 | 25 | 20 | 45 | 29 | 29 | 58 |
| LUC-311 <br> All Suites Hotel | 128 | 563 | 23 | 21 | 44 | 23 | 23 | 46 |
|  | Total Trips | 1,346 | 48 | 41 | 89 | 52 | 52 | 104 |

Based on ITE data, the project is estimated to generate 1,346 average weekday daily trips with 89 total AM peak hour trips ( 48 inbound / 41 outbound) and 104 total PM peak hour trips ( 52 inbound / 52 outbound). Refer to the appendix for the trip generation ITE sheets.

### 4.2 Trip Distribution \& Assignment

Trip distribution describes the process by which project generated trips are dispersed on the street network surrounding the site. Percentages are based on SZA Map 341, which has been provided by the City of Lacey. The PM peak hour trip distribution \& assignment is shown in Figure 4.

### 4.3 Future Peak Hour Volumes

A 3-year horizon of 2026 was used to assess future conditions with projectbuildout. Forecast background volumes were derived by applying a compound annual growth rate of four percent ${ }^{6}$ per year to the existing volumes shown in Figure 3. Moreover, city provided PM peak hour pipeline volumes have been included and are shown in Figure 5 (assumes no road closure along Main Street NE west of Marvin Road NE). Forecast 2026 PM peak hour volumes without the project is shown in Figure 6 and forecast 2026 PM peak hour volumes with the addition of project generated traffic is shown in Figure 7.

[^1]




### 4.4 Forecast Level of Service

Level of service analyses were made of the future PM peak hour volumes without (background) and with project related trips added to the key roadways and intersections. Delays for the study/access intersections under future conditions are shown below in Table 6.

Table 6: Forecast 2026 Weekday PM Peak Hour Level of Service
Delays Given in Seconds per Vehicle

|  |  | Without Project |  | With Project |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection | Control | LOS <br> Standard | LOS | Delay | LOS | Delay |
|  <br> Main St NE | Roundabout | D | C | 25.1 | C | 31.3 |
|  <br> Waste \& Recycle <br> Access | Stop | D | C | 20.9 | D | 26.0 |

Forecast 2026 peak hour delays are shown to operate with LOS D conditions or better with or without project-generated traffic, meeting city level of service standards. Overall, no intersection deficiencies are identified.

### 4.5 Left Turn Warrants

Left turn lanes are a means of providing necessary storage space for left turning vehicles at intersections and driveways. For this impact study, procedures prescribed by the WSDOT Design Manual Exhibit 1310-7 were used to ascertain storage requirements at the access intersection via Hogum Bay Road NE. Based on forecast 2026 PM peak hour volumes with project traffic, a left turn lane was found not warranted. Refer to the appendix for the left turn warrant nomograph.

### 4.6 Access Sight Distance

Site ingress/egress is provided via two new access points. The first access is via the east leg of the Marvin Road NE \& Main Street NE roundabout and the second is to extend west from Hogum Bay Road NE (opposite the Thurston County Waste \& Recycle Access). Any new driveway shall be designed so as to allow for sufficient sight distance according to the City of Lacey Development Guidelines and Public Works Standards - Chapter 4 (Transportation). Final examinations of the approved access configurations may be needed to ensure visibility is met at each location.

## 5. CONCLUSIONS \& MITIGATION

Homewood Suites is a proposed lodging development comprised of two hotel buildings located within the city of Lacey. One building incorporates 128 rooms (Homewood Suites) and the second with 98 rooms (Tru by Hilton). The subject site is situated on 4.18-acres within a single, undeveloped tax parcel. Access to and from the site is proposed via two new access points. The first access is via the east leg of the Marvin Road NE \& Main Street NE roundabout and the second is to extend west from Hogum Bay Road NE, opposite the Thurston County Waste \& Recycle Center Access.

Based on ITE data, the Homewood Suites project is anticipated to generate a total of 1,346 average weekday daily trips with 89 AM peak hour trips and 104 PM peak hour trips. Level of Service (LOS) was examined at the access intersections of Marvin Road NE \& Main Street NE and Hogum Bay Road NE \& Thurston County Wast \& Recycle Center Access-both of presently operate with LOS B or better conditions. The study intersections were reevaluated under a three-year horizon scenario of 2026 which includes a background growth rate in addition to in-process development volumes. Forecast 2026 LOS is anticipated to operate with LOS D or better conditions-meeting City LOS D standards. A left turn lane at the access via Hogum Bay Road NE was found not warranted based on forecast 2026 peak hour volumes.

Based on the above analysis, mitigation in the form of Traffic Impact Fees is anticipated to mitigate the project's impact.

1. Traffic Impact Fees will be assessed and calculated by the City of Lacey after review and approval of the Traffic Impact Analysis.
2. Through an interlocal agreement, impact fees are also collected from Thruston County. Fees have been assessed by the County after review of the approved scoping report at an amount of $\$ 67,111.00$.

# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Traffic Counts

# Heath \& Associates 

PO Box 397 Puyallup, WA 98371
Roundabout
Main St NE is blocked by concrete slabs
File Name : 5134c
Site Code : 00005134
Start Date : 8/22/2023
Page No : 1

Groups Printed- Passenger + - Heavy

|  | Marvin Rd NE Southbound |  |  |  |  | Plaza Access Westbound |  |  |  |  | Marvin Rd NE Northbound |  |  |  |  | Main St NE (Blocked Off) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Int. Total |
| 04:00 PM | 0 | 291 | 8 | 1 | 300 | 5 | 0 | 11 | 0 | 16 | 5 | 230 | 0 | 58 | 293 | 0 | 0 | 0 | 0 | 0 | 609 |
| 04:15 PM | 0 | 268 | 4 | 0 | 272 | 4 | 0 | 20 | 0 | 24 | 8 | 239 | 0 | 55 | 302 | 0 | 0 | 0 | 0 | 0 | 598 |
| 04:30 PM | 0 | 279 | 3 | 1 | 283 | 2 | 0 | 16 | 0 | 18 | 10 | 262 | 0 | 49 | 321 | 0 | 0 | 0 | 0 | 0 | 622 |
| 04:45 PM | 0 | 246 | 2 | 1 | 249 | 2 | 0 | 14 | 0 | 16 | 16 | 264 | 0 | 41 | 321 | 0 | 0 | 0 | 0 | 0 | 586 |
| Total | 0 | 1084 | 17 | 3 | 1104 | 13 | 0 | 61 | 0 | 74 | 39 | 995 | 0 | 203 | 1237 | 0 | 0 | 0 | 0 | 0 | 2415 |
| 05:00 PM | 0 | 275 | 0 | 0 | 275 | 8 | 0 | 22 | 0 | 30 | 12 | 245 | 0 | 48 | 305 | 0 | 0 | 0 | 0 | 0 | 610 |
| 05:15 PM | 0 | 238 | 0 | 0 | 238 | 4 | 0 | 15 | 0 | 19 | 13 | 266 | 0 | 51 | 330 | 0 | 0 | 0 | 0 | 0 | 587 |
| 05:30 PM | 0 | 260 | 4 | 1 | 265 | 5 | 0 | 23 | 0 | 28 | 16 | 251 | 0 | 45 | 312 | 0 | 0 | 0 | 0 | 0 | 605 |
| 05:45 PM | 0 | 236 | 2 | 1 | 239 | 7 | 0 | 12 | 0 | 19 | 12 | 282 | 0 | 38 | 332 | 0 | 0 | 0 | 0 | 0 | 590 |
| Total | 0 | 1009 | 6 | 2 | 1017 | 24 | 0 | 72 | 0 | 96 | 53 | 1044 | 0 | 182 | 1279 | 0 | 0 | 0 | 0 | 0 | 2392 |
| Grand Total | 0 | 2093 | 23 | 5 | 2121 | 37 | 0 | 133 | 0 | 170 | 92 | 2039 | 0 | 385 | 2516 | 0 | 0 | 0 | 0 | 0 | 4807 |
| Apprch \% | 0 | 98.7 | 1.1 | 0.2 |  | 21.8 | 0 | 78.2 | 0 |  | 3.7 | 81 | 0 | 15.3 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 43.5 | 0.5 | 0.1 | 44.1 | 0.8 | 0 | 2.8 | 0 | 3.5 | 1.9 | 42.4 | 0 | 8 | 52.3 | 0 | 0 | 0 | 0 | 0 |  |
| Passenger + | 0 | 2025 | 23 | 5 | 2053 | 37 | 0 | 131 | 0 | 168 | 91 | 2000 | 0 | 330 | 2421 | 0 | 0 | 0 | 0 | 0 | 4642 |
| \% Passenger + | 0 | 96.8 | 100 | 100 | 96.8 | 100 | 0 | 98.5 | 0 | 98.8 | 98.9 | 98.1 | 0 | 85.7 | 96.2 | 0 | 0 | 0 | 0 | 0 | 96.6 |
| Heavy | 0 | 68 | 0 | 0 | 68 | 0 | 0 | 2 | 0 | 2 | 1 | 39 | 0 | 55 | 95 | 0 | 0 | 0 | 0 | 0 | 165 |
| \% Heavy | 0 | 3.2 | 0 | 0 | 3.2 | 0 | 0 | 1.5 | 0 | 1.2 | 1.1 | 1.9 | 0 | 14.3 | 3.8 | 0 | 0 | 0 | 0 | 0 | 3.4 |

# Heath \& Associates 

PO Box 397 Puyallup, WA 98371
File Name : 5134c
Site Code : 00005134
Start Date : 8/22/2023
Page No : 2

|  | Marvin Rd NE Southbound |  |  |  |  | Plaza Access Westbound |  |  |  |  | Marvin Rd NE Northbound |  |  |  |  | Main St NE (Blocked Off) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Right | Thru | Left | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:15 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:15 PM | 0 | 268 | 4 | 0 | 272 | 4 | 0 | 20 | 0 | 24 | 8 | 239 | 0 | 55 | 302 | 0 | 0 | 0 | 0 | 0 | 598 |
| 04:30 PM | 0 | 279 | 3 | 1 | 283 | 2 | 0 | 16 | 0 | 18 | 10 | 262 | 0 | 49 | 321 | 0 | 0 | 0 | 0 | 0 | 622 |
| 04:45 PM | 0 | 246 | 2 | 1 | 249 | 2 | 0 | 14 | 0 | 16 | 16 | 264 | 0 | 41 | 321 | 0 | 0 | 0 | 0 | 0 | 586 |
| 05:00 PM | 0 | 275 | 0 | 0 | 275 | 8 | 0 | 22 | 0 | 30 | 12 | 245 | 0 | 48 | 305 | 0 | 0 | 0 | 0 | 0 | 610 |
| Total Volume | 0 | 1068 | 9 | 2 | 1079 | 16 | 0 | 72 | 0 | 88 | 46 | 1010 | 0 | 193 | 1249 | 0 | 0 | 0 | 0 | 0 | 2416 |
| \% App. Total | 0 | 99 | 0.8 | 0.2 |  | 18.2 | 0 | 81.8 | 0 |  | 3.7 | 80.9 | 0 | 15.5 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 957 | . 563 | . 500 | . 953 | . 500 | . 000 | . 818 | . 000 | . 733 | . 719 | . 956 | . 000 | . 877 | . 973 | . 000 | . 000 | . 000 | . 000 | . 000 | . 971 |
| Passenger + | 0 | 1034 | 9 | 2 | 1045 | 16 | 0 | 72 | 0 | 88 | 45 | 986 | 0 | 167 | 1198 | 0 | 0 | 0 | 0 | 0 | 2331 |
| \% Passenger + | 0 | 96.8 | 100 | 100 | 96.8 | 100 | 0 | 100 | 0 | 100 | 97.8 | 97.6 | 0 | 86.5 | 95.9 | 0 | 0 | 0 | 0 | 0 | 96.5 |
| Heavy | 0 | 34 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 0 | 26 | 51 | 0 | 0 | 0 | 0 | 0 | 85 |
| \% Heavy | 0 | 3.2 | 0 | 0 | 3.2 | 0 | 0 | 0 | 0 | 0 | 2.2 | 2.4 | 0 | 13.5 | 4.1 | 0 | 0 | 0 | 0 | 0 | 3.5 |



## Heath \& Associates

PO Box 397 Puyallup, WA 98371
File Name : 5134b
Site Code : 00005134
Start Date : 8/22/2023
Page No : 1

|  | Hogum Bay Rd NE Southbound |  |  | Entrance Westbound |  |  | Hogum Bay Rd NE Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| 04:00 PM | 32 | 2 | 34 | 10 | 18 | 28 | 12 | 69 | 81 | 143 |
| 04:15 PM | 40 | 9 | 49 | 7 | 10 | 17 | 9 | 112 | 121 | 187 |
| 04:30 PM | 41 | 6 | 47 | 8 | 9 | 17 | 6 | 88 | 94 | 158 |
| 04:45 PM | 28 | 1 | 29 | 7 | 6 | 13 | 1 | 89 | 90 | 132 |
| Total | 141 | 18 | 159 | 32 | 43 | 75 | 28 | 358 | 386 | 620 |
| 05:00 PM | 42 | 2 | 44 | 0 | 3 | 3 | 5 | 108 | 113 | 160 |
| 05:15 PM | 34 | 0 | 34 | 3 | 5 | 8 | 4 | 100 | 104 | 146 |
| 05:30 PM | 46 | 0 | 46 | 6 | 3 | 9 | 1 | 106 | 107 | 162 |
| 05:45 PM | 24 | 0 | 24 | 2 | 5 | 7 | 2 | 106 | 108 | 139 |
| Total | 146 | 2 | 148 | 11 | 16 | 27 | 12 | 420 | 432 | 607 |
| Grand Total | 287 | 20 | 307 | 43 | 59 | 102 | 40 | 778 | 818 | 1227 |
| Apprch \% | 93.5 | 6.5 |  | 42.2 | 57.8 |  | 4.9 | 95.1 |  |  |
| Total \% | 23.4 | 1.6 | 25 | 3.5 | 4.8 | 8.3 | 3.3 | 63.4 | 66.7 |  |
| Passenger + | 234 | 19 | 253 | 40 | 54 | 94 | 36 | 699 | 735 | 1082 |
| \% Passenger + | 81.5 | 95 | 82.4 | 93 | 91.5 | 92.2 | 90 | 89.8 | 89.9 | 88.2 |
| Heavy | 53 | 1 | 54 | 3 | 5 | 8 | 4 | 79 | 83 | 145 |
| \% Heavy | 18.5 | 5 | 17.6 | 7 | 8.5 | 7.8 | 10 | 10.2 | 10.1 | 11.8 |

## Heath \& Associates

PO Box 397 Puyallup, WA 98371
File Name : 5134b
Site Code : 00005134
Start Date : 8/22/2023
Page No : 2

|  | Hogum Bay Rd NE Southbound |  |  | Entrance Westbound |  |  | Hogum Bay Rd NE Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire In | ction | at 0 | 15 PM |  |  |  |  |  |  |  |
| 04:15 PM | 40 | 9 | 49 | 7 | 10 | 17 | 9 | 112 | 121 | 187 |
| 04:30 PM | 41 | 6 | 47 | 8 | 9 | 17 | 6 | 88 | 94 | 158 |
| 04:45 PM | 28 | 1 | 29 | 7 | 6 | 13 | 1 | 89 | 90 | 132 |
| 05:00 PM | 42 | 2 | 44 | 0 | 3 | 3 | 5 | 108 | 113 | 160 |
| Total Volume | 151 | 18 | 169 | 22 | 28 | 50 | 21 | 397 | 418 | 637 |
| \% App. Total | 89.3 | 10.7 |  | 44 | 56 |  | 5 | 95 |  |  |
| PHF | . 899 | . 500 | . 862 | . 688 | . 700 | . 735 | . 583 | . 886 | . 864 | . 852 |
| Passenger + | 126 | 18 | 144 | 20 | 24 | 44 | 19 | 356 | 375 | 563 |
| \% Passenger + | 83.4 | 100 | 85.2 | 90.9 | 85.7 | 88.0 | 90.5 | 89.7 | 89.7 | 88.4 |
| Heavy | 25 | 0 | 25 | 2 | 4 | 6 | 2 | 41 | 43 | 74 |
| \% Heavy | 16.6 | 0 | 14.8 | 9.1 | 14.3 | 12.0 | 9.5 | 10.3 | 10.3 | 11.6 |



# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>ITE Sheets

Homewood Suites TIA

## Hotel <br> (310)

## Vehicle Trip Ends vs: Rooms <br> On a: Weekday

## Setting/Location: General Urban/Suburban

Number of Studies: 7
Avg. Num. of Rooms: 148
Directional Distribution: 50\% entering, 50\% exiting
Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 7.99 | $5.31-9.53$ | 1.92 |

Data Plot and Equation


- Institute of Transportation Engineers


## Hotel <br> (310)

## Vehicle Trip Ends vs: Rooms <br> On a: Weekday, <br> Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m. <br> Setting/Location: General Urban/Suburban <br> Number of Studies: 28 <br> Avg. Num. of Rooms: 182 <br> Directional Distribution: 56\% entering, 44\% exiting

Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 0.46 | $0.20-0.84$ | 0.14 |

Data Plot and Equation


## Hotel <br> (310)

## Vehicle Trip Ends vs: Rooms <br> On a: Weekday, <br> Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m. <br> Setting/Location: General Urban/Suburban <br> Number of Studies: 31 <br> Avg. Num. of Rooms: 186 <br> Directional Distribution: 51\% entering, 49\% exiting

Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 0.59 | $0.26-1.06$ | 0.22 |

Data Plot and Equation


- Institute of Transportation Engineers


## All Suites Hotel <br> (311)

## Vehicle Trip Ends vs: Rooms

On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 7
Avg. Num. of Rooms: 147
Directional Distribution: 50\% entering, 50\% exiting
Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 4.40 | $3.11-6.02$ | 0.93 |

Data Plot and Equation


## All Suites Hotel (311)

Vehicle Trip Ends vs: Rooms<br>On a: Weekday,<br>Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.<br>Setting/Location: General Urban/Suburban<br>Number of Studies: 9<br>Avg. Num. of Rooms: 164<br>Directional Distribution: 53\% entering, 47\% exiting

Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 0.34 | $0.13-0.51$ | 0.13 |

Data Plot and Equation


- Institute of Transportation Engineers


## All Suites Hotel (311)

Vehicle Trip Ends vs: Rooms
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: 10
Avg. Num. of Rooms: 159
Directional Distribution: 49\% entering, 51\% exiting
Vehicle Trip Generation per Room

| Average Rate | Range of Rates | Standard Deviation |
| :---: | :---: | :---: |
| 0.36 | $0.22-0.47$ | 0.08 |

Data Plot and Equation


# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>SZA Map



Homewood Suites TIA

# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Forecast 2026 Excel

Heath \& Associates, Inc
Homewood Suites TIA - 9-5-2023

## PM Peak Hour Forecast Intersection Volumes

| Annual Growth Rate: | $4 \%$ | 2026 |
| ---: | :--- | :--- |
| \# of Years to Horizon: | 3 |  |

1. Marvin Rd NE \& Main St NE/Project Access

|  | SBR | SBT | SBL | SBU | WBR | WBT | WBL | NBR | NBT | NBL | NBU | EBR | EBT | EBL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Existing | 0 | 1068 | 9 | 2 | 16 | 0 | 72 | 46 | 1010 | 0 | 193 | 0 | 0 | 0 |
| Project Trips | 0 | 0 | 5 | 0 | 5 | 0 | 39 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pipeline | 0 | 530 | 7 | 0 | 7 | 0 | 96 | 56 | 291 | 200 | 0 | 209 | 0 | 29 |
| Without | 0 | 1,731 | 17 | 2 | 25 | 0 | 177 | 108 | 1,427 | 200 | 217 | 209 | 0 | 29 |
| With | 0 | 1,731 | 22 | 2 | 30 | 0 | 216 | 128 | 1,427 | 200 | 217 | 209 | 0 | 29 |

2. Hogum Bay Rd NE \& Thurston County Waste \& Recycle Center Access

|  | SBR | SBT | SBL | WBR | WBT | WBL | NBR | NBT | NBL | EBR | EBT | EBL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Existing | 0 | 151 | 18 | 22 | 0 | 28 | 21 | 397 | 0 | 0 | 0 | 0 |
| Project Trips | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 8 |
| Pipeline | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 0 | 0 | 0 | 0 |
| Without | 0 | 170 | 20 | 25 | 0 | 31 | 24 | 632 | 0 | 0 | 0 | 0 |
| With | 8 | 170 | 20 | 25 | 0 | 31 | 24 | 632 | 19 | 0 | 0 | 8 |

# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Level of Service

HeathTraffic.com

## MOVEMENT SUMMARY

$\nabla$ Site: [Existing PM Peak Hour Volumes (Site Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout

| Vehicle Movement Performance |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Mov Turn } \\ & \text { ID } \end{aligned}$ |  | $\begin{aligned} & \text { TT } \\ & \text { MES } \\ & \text { HV ] } \\ & \% \end{aligned}$ |  | ND VS HV ] \% | Deg. Satn v/c | Aver. Delay sec | Level of Service |  | $\begin{gathered} \text { CK OF } \\ \text { UE } \\ \text { Dist ] } \\ \mathrm{ft} \end{gathered}$ | Prop. Que | Effective Stop Rate | Aver. No. Cycles | Aver. Speed <br> mph |
| South: Marvin Rd NE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3u U | 193 | 14.0 | 214 | 14.0 | 0.478 | 12.5 | LOS B | 4.2 | 110.4 | 0.13 | 0.50 | 0.13 | 36.9 |
| 8 T1 | 1010 | 1.0 | 1122 | 1.0 | 0.478 | 4.0 | LOS A | 4.3 | 107.5 | 0.13 | 0.42 | 0.13 | 37.2 |
| 18 R2 | 46 | 1.0 | 51 | 1.0 | 0.478 | 4.1 | LOS A | 4.3 | 107.5 | 0.12 | 0.36 | 0.12 | 36.4 |
| Approach | 1249 | 3.0 | 1388 | 3.0 | 0.478 | 5.3 | LOS A | 4.3 | 110.4 | 0.13 | 0.43 | 0.13 | 37.1 |
| East: Shared Access |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 L2 | 72 | 0.0 | 80 | 0.0 | 0.139 | 13.2 | LOS B | 0.5 | 11.8 | 0.57 | 0.85 | 0.57 | 33.9 |
| 16 R2 | 16 | 0.0 | 18 | 0.0 | 0.139 | 7.3 | LOS A | 0.5 | 11.8 | 0.57 | 0.85 | 0.57 | 32.9 |
| Approach | 88 | 0.0 | 98 | 0.0 | 0.139 | 12.1 | LOS B | 0.5 | 11.8 | 0.57 | 0.85 | 0.57 | 33.7 |
| North: Marvin Rd NE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 u U | 2 | 1.0 | 2 | 1.0 | 0.518 | 14.5 | LOS B | 3.6 | 93.0 | 0.62 | 0.61 | 0.62 | 36.9 |
| 7 L2 | 9 | 1.0 | 10 | 1.0 | 0.518 | 12.0 | LOS B | 3.6 | 93.0 | 0.62 | 0.61 | 0.62 | 36.0 |
| $4 \quad$ T1 | 1068 | 3.0 | 1187 | 3.0 | 0.518 | 5.9 | LOS A | 3.7 | 95.6 | 0.61 | 0.59 | 0.61 | 35.9 |
| Approach | 1079 | 3.0 | 1199 | 3.0 | 0.518 | 6.0 | LOS A | 3.7 | 95.6 | 0.61 | 0.59 | 0.61 | 35.9 |
| All Vehicles | 2416 | 2.9 | 2684 | 2.9 | 0.518 | 5.9 | LOS A | 4.3 | 110.4 | 0.36 | 0.51 | 0.36 | 36.4 |

Site Level of Service (LOS) Method: Delay \& Degree of Saturation (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and $\mathrm{v} / \mathrm{c}$ ratio (degree of saturation) per movement.
Intersection and Approach LOS values are based on average delay for all movements (v/c not used).
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Geometric Delay is included).
Queue Model: HCM Queue Formula.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (\%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 9.0 | Copyright © 2000-2020 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: HEATH \& ASSOCIATES | Licence: PLUS / 1PC | Processed: Friday, September 8, 2023 9:48:59 AM
Project: C:\Userslkyoung.HEATH\Heath and Associates\Traffic Studies - Documents\Sidra\5134\Homewood Suites.sip9

## SITE LAYOUT

B Site: [Existing PM Peak Hour Volumes (Site Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.


2: Hogum Bay Rd NE \& Waste \& Recycle Access


| Major/Minor | Minor1 | Major1 |  |  | Major2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 705 | 485 | 0 | 0 | 495 | 0 |  |
| Stage 1 | 482 | - | - | - | - | - |  |
| Stage 2 | 223 | - | - | - | - | - |  |
| Critical Hdwy | 6.54 | 6.29 | - | - | 4.11 | - |  |
| Critical Hdwy Stg 1 | 5.54 | - | - | - | - | - |  |
| Critical Hdwy Stg 2 | 5.54 | - | - | - | - | - |  |
| Follow-up Hdwy | 3.626 | 3.381 | - | - | 2.209 | - |  |
| Pot Cap-1 Maneuver | 385 | 568 | - | - | 1074 | - |  |
| Stage 1 | 597 | - | - | - | - | - |  |
| Stage 2 | 786 | - | - | - | - | - |  |
| Platoon blocked, \% |  |  | - | - |  | - |  |
| Mov Cap-1 Maneuver | 374 | 565 | - | - | 1071 | - |  |
| Mov Cap-2 Maneuver | 374 | - | - | - | - | - |  |
| Stage 1 | 595 | - | - | - | - | - |  |
| Stage 2 | 767 | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |  |
| HCM Control Delay, s/v | v14.45 |  | 0 |  | 0.9 |  |  |
| HCM LOS | B |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRW | BLn1 | SBL | SBT |  |
| Capacity (veh/h) |  | - | - | 440 | 1071 | - |  |
| HCM Lane V/C Ratio |  | - | - | 0.134 | 0.02 | - |  |
| HCM Control Delay (s/veh) |  | - | - | 14.5 | 8.4 | - |  |
| HCM Lane LOS |  | - | - | B | A | A |  |
| HCM 95th \%tile Q(veh) |  | - | - | 0.5 | 0.1 |  |  |

## MOVEMENT SUMMARY

## $\nabla$ Site: [Forecast 2026 PM Peak Hour Volumes Without Project

(Site Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout


Site Level of Service (LOS) Method: Delay \& Degree of Saturation (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
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Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (\%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

## SITE LAYOUT

$\nabla$ Site: [Forecast 2026 PM Peak Hour Volumes Without Project
(Site Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.




## MOVEMENT SUMMARY

## $\forall$ Site: [Forecast 2026 PM Peak Hour Volumes With Project (Site

Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout


Site Level of Service (LOS) Method: Delay \& Degree of Saturation (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and $\mathrm{v} / \mathrm{c}$ ratio (degree of saturation) per movement.
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HV (\%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

## SITE LAYOUT

$\forall$ Site: [Forecast 2026 PM Peak Hour Volumes With Project (Site
Folder: 1)]
Marvin Road NE \& Main Street NE/Shared Access
Site Category: -
Roundabout

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# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Left Turn Lane Warrant

HeathTraffic.com

## Exhibit 1310-7a Left-Turn Storage Guidelines: Two-Lane, Unsignalized



# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Traffic Scoping Approval Letter

Homewood Suites TIA


Deputy Mayor

LENNY GREENSTEIN<br>MICHAEL STEADMAN<br>CAROLYN COX<br>ED KUNKEL<br>ROBIN VAZQUEZ

CITY MANAGER
RICK WALK
July 25, 2023

Aaron Van Aken, PE, PTOE Heath \& Associates, Inc.
PO Box 397
Puyallup, WA 98004

## SUBJECT: Homewood Suites, HTE 23-0102, Traffic Scoping Report Approval

Dear Mr. Van Aken,
I have reviewed the Traffic Scoping report submitted for this project and have determined there are transportation impacts that require a Traffic Impact Analysis. The methodology for completing a Traffic Impact Analysis is identified in Chapter 4 of the City of Lacey Development Guidelines and Public Works Standards, and mitigation and concurrency measures are identified in Lacey Municipal Code Chapter 14.21.

Please analyze these intersections in your report:

1. Hogum Bay Road NE \& Project Access
2. Marvin Road NE \& Main St NE

Thurston County Development Review and WSDOT have not identified any intersections for analysis. The County's mitigation request is attached.

Included are the pipeline trips for the intersections. The printed intersection volume diagrams depict the approved cumulative pipeline projects for the intersections.

Please provide a signed and stamped Traffic Impact Analysis for distribution for the review necessary to evaluate this project. If you have any questions, do not hesitate to call me at (360) 438-2640.

Sincerely,


Christopher Stolberg, EIT
Transportation Engineer
CC: File



Homewood Suites TIA


Carolina Mejia
District One
Gary Edwards District Two

Tye Menser
District Three

## PUBLIC WORKS

An Accredited Agency of the American Public Works Association

Jennifer D. Walker, Director
July 24, 2023

Chris Stolberg
420 COLLEGE ST SE
LACEY WA 98503

## SUBJECT: Homewood Suites, Folder Sequence\#23-108891 <br> Project \#: 2023103442 CONSTRUCTION REVIEW

REFERENCE: Traffic Scoping Memo - Dated 5-24-23
Dear Mr. Stolberg:
Upon review of the proposed project referenced above, Public Works has the following comments:

1. To mitigate traffic impacts within Thurston County, the proponent will need to contribute $\$ 67,111$ to Thurston County Public Works prior to final project approval, pursuant to County Road Standards and Title 17.10 of the Thurston County Code. See attached worksheet prepared by county staff for project specific details.

Please be aware, further issues may be addressed as discovered, or as changes are made to the plans.
If you have any questions or comments, please call me at (360) 867-2043.
Sincerely,


Arthur Saint, PE
Thurston County Public Works
Development Review Section
cc: Project File
Attachment: Traffic Mitigation Worksheet


# HOMEWOOD SUITES TRAFFIC IMPACT ANALYSIS 

APPENDIX<br>Site Plan




[^0]:    ${ }^{1}$ Located at the intersection of Marvin Rd NE \& Britton Pky
    2 Located at the intersection of Marvin Rd NE \& Martin Wy E
    3 Located at the intersection of Willamette Dr NE \& Hogum Bay Rd NE

[^1]:    6 Per the City of Lacey Development Guidelines

