## 10: TRAFFIC IMPACT (14-526 (a) 1)

Provisions for pedestrian, bicycle, vehicle, and loading circulation and incremental volume of traffic impacts.

Provisions have been made for vehicle loading, unloading and parking and for vehicular, bicycle and pedestrian circulation on the site. Please see the Site Plan for additional information.

Traffic Impact Study (Technical Manual, Section 1), if applicable.

As this development is expected to generate less than 25 passenger car equivalent trips, a traffic study is not required as specified in Section 1.1 of the City of Portland Technical Manual. See attached **Traffic Memorandum** prepared by Sebago Technics, this section.

SEBAGO TECHNICS

CIVIL ENGINEERING ▪ SURVEYING ▪ LANDSCAPE ARCHITECTURE

# *Memorandum*

STATE OF MAINE
DEREK H. CALDWELL
14400
LICENSED
PROFESSIONAL ENGINEER

11/30/2018

**18002**

**To:** **Amber Ferland, P.E.**

**From:** **Derek Caldwell, P.E., PTOE**

**Date:** **November 30, 2018**

**Subject:** **Traffic Impact Statement**
**2 Evergreen Drive**
**Portland, Maine**

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We have completed a trip generation and sight distance analysis for the proposed warehouse building to be located at 2 Evergreen Drive in Portland. It is our understanding the project is to consist of an approximately 9,200 square foot building accessed by an existing driveway on the eastern side of Evergreen Drive. The site also has access to Riverside Street via the adjacent parcel to the east of the site.

The parcel of land contains an existing 2,800 square foot building that will remain. The use of this building is not to change.

## Trip Generation

Trip generation for the proposed development was calculated using the *ITE Trip Generation Manual, 10th Edition.* Land Use Code (LUC) 150-Warehousing was used for this calculation, based upon the square footage of the proposed building. The following table summarizes the calculated trip generation for the proposed development.

**Table 1 - Trip Generation**
**LUC – 150 - Warehousing**
**(9,200 Square Feet)**

| Time Period | Trip Generation Rate (Trips / 1,000 SF) | Total | Entering | Exiting |
|---|---|---|---|---|
| **Weekday** | 1.74 | 16 | 8 | 8 |
| **AM Peak Hour of Adjacent Street (7-9 AM)** | 0.17 | 2 | 1 | 1 |
| **PM Peak Hour of Adjacent Street (4-6 PM)** | 0.19 | 2 | 0 | 2 |
| **AM Peak Hour of Generator** | 0.22 | 2 | 1 | 1 |
| **PM Peak Hour of Generator** | 0.24 | 2 | 0 | 2 |
| **Saturday** | 0.15 | 1 | 0 | 1 |
| **Saturday Peak Hour of Generator** | 0.05 | 1 | 0 | 1 |
| **Sunday** | 0.06 | 1 | 0 | 1 |
| **Sunday Peak Hour of Generator** | 0.04 | 1 | 0 | 1 |

As shown above, the development is expected to generate 16 daily trips and 2 peak hour trips during both the AM and PM Peak Hours.

As this development Is expected to generate less than 25 passenger car equivalents trips, a traffic study is not required as specified in Section 1.1 of the *City of Portland Technical Manual.*



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## Sight Distance

Table 2 shows the minimum required sight distance as specified in the City of Portland Technical Manual.

**Table 2**
**MaineDOT Required Sight Distance**

| Allowable Speed (MPH) | Required Sight Distance (feet) |
|---|---|
| 25 | 200 |
| 30 | 250 |
| 35 | 305 |
| 40 | 360 |
| 45 | 425 |
| 50 | 495 |
| 55 | 570 |

Sight distance was measured on November 30, 2018 at both existing driveways on Evergreen Drive and Riverside Street. At the driveway on Evergreen Drive sight distance was measured to be approximately 325' looking to the left and to the intersection with Riverside Street, a distance of approximately 115', to the right. At the driveway on Riverside Street sight distance was measured to be in excess of 800' looking both left and right. Evergreen Drive did not appear to have a posted speed limit however the measurements indicate that the sight distance would be adequate for a speed limit of 35 MPH. Riverside Street has a posted speed limit of 35 MPH, therefore the sight distance is adequate for this entrance as well given that the measured sight distance exceeds the required 305 feet.



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**Evergreen Drive – Looking Left**

**Evergreen Drive - Looking Right**



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**Riverside Street- Looking Left**

**Riverside Street- Looking Right**



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