

CAMAS BUSINESS CENTER TRIP GENERATION & SCOPING MEMO

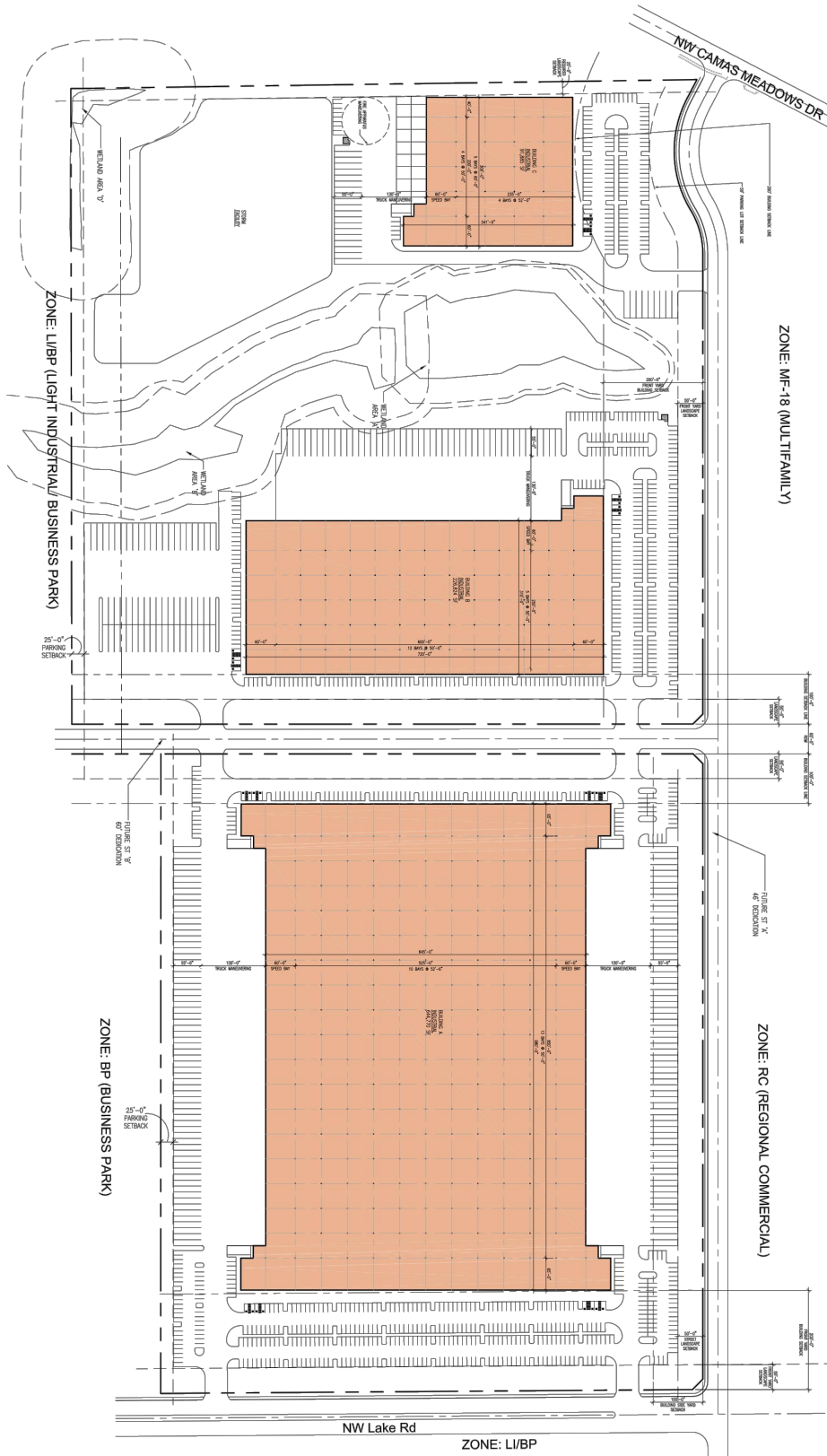
1. Introduction

The main goals of this study focus on the assessment of the trip generation for the proposed Camas Business Center. Moreover, general proposed scoping information is provided herein. A project description is provided below.

2. Project Description

Camas Business Center proposes an industrial site comprising 963,479 square feet within three buildings located in the city of Camas. The proposed development contains a site address of 4704 NW Lake Road. The subject property is bordered to the south by NW Lake Road within 39.79-acre tax parcel #: 176155000. Primary access to and from the site is proposed via NW Lake Road and NW Camas Meadows Drive. Shown below in Figure 1 is an aerial vicinity map outlining the subject parcel. A site plan illustrating the proposed building layout and access configuration is presented in Figure 2 on the following page.





HEATH & ASSOCIATES
TRAFFIC AND CIVIL ENGINEERING

CAMAS BUSINESS CENTER

SITE PLAN
FIGURE 2

3. 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 the PM peak hour 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*, 11th Edition. The proposed land uses utilized for analysis are defined under ITE’s Land Use Code (LUC) 154 – High-Cube Warehouse (Buildings A &B) and LUC 140 – Manufacturing (Building C). Square footage was used as the input variable and average rates were used in determining trip ends. Table 1 below summarizes anticipated vehicular movements for the average weekday daily trips (AWDT) and the AM and PM peak hours.

Table 1: Project Trip Generation

Building	Land Use	Size	AWDT	AM Peak-Hour Trips			PM Peak-Hour Trips		
				In	Out	Total	In	Out	Total
A & B	High-Cube Warehouse (LUC 154)	871,594 SF	1220	54	16	70	24	63	87
C	Manufacturing (LUC 140)	91,885 SF	436	47	15	62	21	47	68
Total			1656	101	31	132	45	110	155

Based on ITE data, the proposed development is anticipated to generate 1656 average weekday daily trips with 132 AM (101 in/31 out) and 155 PM (45 in/110 out) peak hour trips.

4. Distribution & Assignment

Trip distribution can be described as the travel routes to/from the subject site relative to the adjacent street system. The specific destinations and origins of the generated traffic primarily influence the key study intersections, which will effectively receive the bulk of project impacts. Trips generated by the project are expected to follow the general trip pattern as shown in Figure 3 for the PM peak hour.



INTERSECTIONS OF STUDY

1. NE 192ND AVE & SE 34TH ST
2. NE 192ND AVE & SE 20TH AVE
3. NE 192ND AVE & SE 15TH AVE
4. NE 192ND AVE & MILL PLAIN BLVD
5. NE 192ND AVE & SE 1ST ST
6. NE 197TH AVE & SE 1ST ST
7. SE WESTRIDGE BLVD & SE 1ST ST
8. NW FRIBURG-STRUNK ST & SE 1ST ST/NW LAKE RD
9. NW PAYNE ST & NW LAKE RD
10. NW PARKER ST/NW LARK SPUR RD & NW LAKE RD
11. NW CAMAS MEADOWS DR & NE GOODWIN RD
12. NE EVERETT ST & NW LAKE RD

- A. NE CAMAS MEADOWS DR & ACCESS
- B. ACCESS & NW LAKE RD

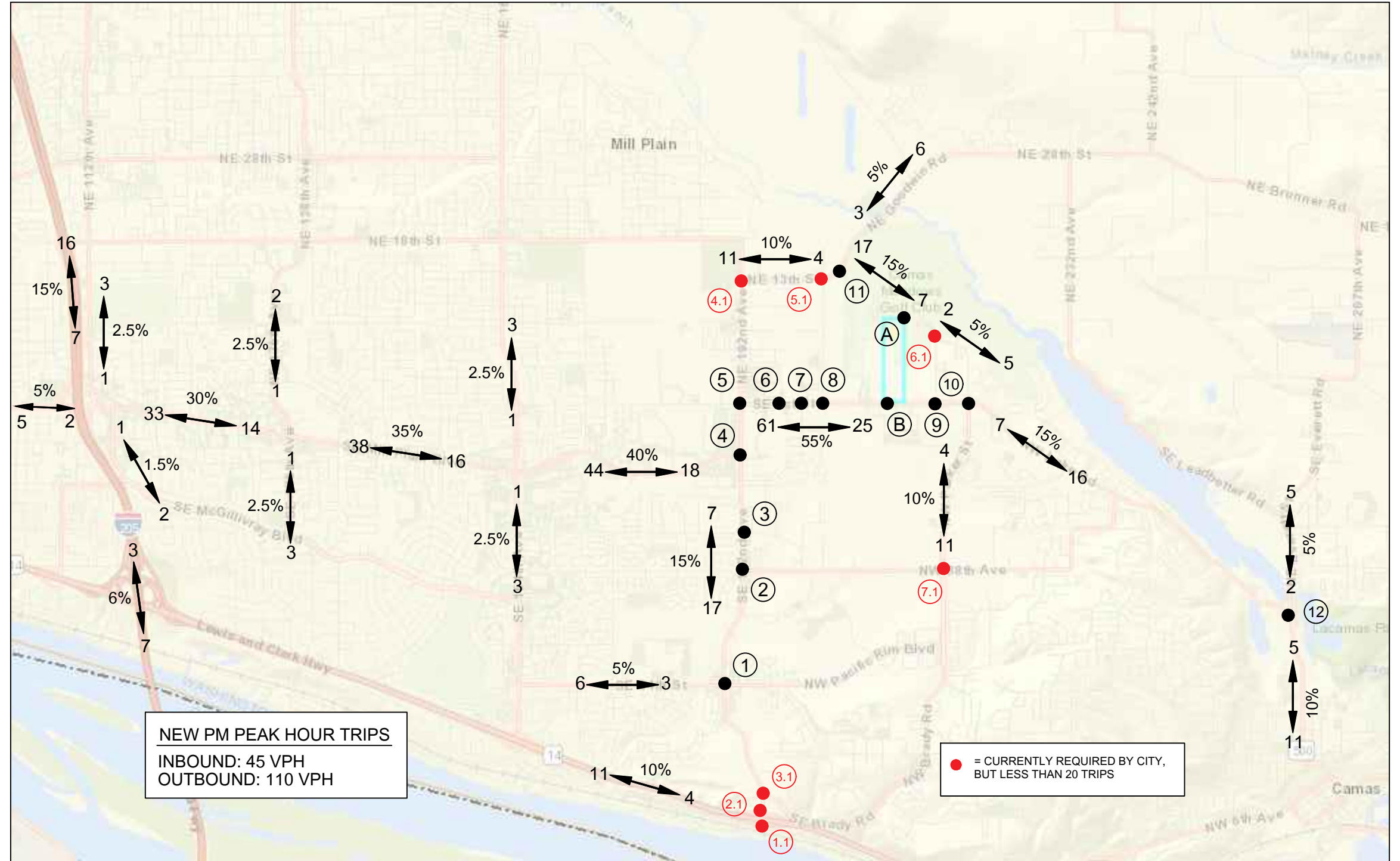
INTERSECTIONS THAT DO NOT MEET THE 20 TRIP THRESHOLD

- 1.1 NE 192ND AVE & SR-14 EB RAMPS
- 2.1 NE 192ND AVE & SR-14 WB RAMPS
- 3.1 NE 192ND AVE & SE BRADY RD
- 4.1 NE 192ND AVE & NE 13TH ST
- 5.1 NW FRIBURG-STRUNK ST & NE 13TH ST/NE GOODWIN RD
- 6.1 NW CAMAS MEADOWS DR & NW PAYNE ST
- 7.1 NW PARKER ST & NW 38TH AVE

NEW PM PEAK HOUR TRIPS

INBOUND: 45 VPH
 OUTBOUND: 110 VPH

● = CURRENTLY REQUIRED BY CITY, BUT LESS THAN 20 TRIPS



5. Intersections of Study

Per City of Camas requirements, all study intersections receiving 20 or more PM peak hour trips are to be studied. Moreover, the City of Vancouver requested that several intersections be analyzed. Per Camas and Vancouver requests and as illustrated in Figure 3 based on the 20 PM peak hour trip threshold, the following intersections are proposed for analysis:

1. NE 192nd Avenue & SE 34th Street
 2. NE 192nd Avenue & SE 20th Avenue
 3. NE 192nd Avenue & SE 15th Avenue
 4. NE 192nd Avenue & Mill Plain Blvd
 5. NE 192nd Avenue & SE 1st Street
 6. NE 197th Avenue & SE 1st Street
 7. SE Westridge Boulevard & SE 1st Street
 8. NW Friburg-Strunk Street & SE 1st St/NW Lake Road
 9. NW PAYNE Street & NW LAKE Road
 10. NW Parker Street /NW Lark Spur Road & NW Lake Road
 11. NW Camas Meadows Drive & NE Goodwin Road
 12. NE Everett Street & NW Lake Road
-
- A. NE Camas Meadows Drive & Access
 - B. Access & NW Lake Road

5. Additional Proposed Analysis Information

Time Period to Evaluate:	Weekday: 4:00-6:00 PM
Horizon Year:	2024
Background Growth:	3% ¹

¹ City of Camas, WA-Traffic Impact Fee Update (Annualized growth rate of about 2.9% per year)