City of Puyallup Traffic Scoping Worksheet

PROJECT INFORMATION

Project Title: Valley Avenue Yard	Date: 3/28/2023
Applicant Name: Kermit Jorgensen	Telephone Number:206-787-1475
Project Description: 1.835-acres of Outdoor Storage Yard	Year of Occupancy: 2023
Project Location: <u>1124 & 1036 Valley Ave NW - PN: 04201</u>	16-3077; 3042 Parcel Size(s): 1.835
Proposed Number of Access Point(s): 1 Existing Number	er of Access Point(s): 3

Land Use	Quantity	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s): 2 Sing	gle Family dwe	elling units			
LUC 210 (Single Family Detached Housing)	2 dwelling units	210	18.9	1.4	1.9
Proposed Use(s): Outd	oor Storage Ya	ard			
Outdoor Storage Yard	1.835-acres	N/A	-	-	4.9
Net New Trips			-	-	3.0
Traffic Impact Fees:	Net New PM I	Peak Hour Tri	ps x \$4,500 = \$1	3,500	

- * The project trips shall be rounded to the nearest tenth.
- * The project trips shall be estimated using the ITE's *Trip Generation*, 11th Edition.
- * Trip generation regression equations shall be used when the R² value is 0.70 or greater.
- * For land uses that do not exist within the ITE's *Trip Generation*, actual field data shall be collected from three local facilities that have similar characteristics to the proposal.
- * For single-family units and offices and specialty retail smaller than 30,000 SF, use ITE's *Trip Generation*, 11th Edition, average rate.

Identify all intersections that will be affected by 25 new project peak hour trips or more:

1. None	4	
2	5	
Prepared by: Traffic Enginee	er: <u>Aaron Van Aken</u> Telephone Number: <u>253-770-14</u>	101
Address: 1011 E Main, Suite	e 453, Puyallup, WA 98371 avanaken@heathtraffic.co	<u>m</u>
Office Use Only		
TIS TAS TAIS	☐ No Further Work Required ☐	

Checklist (Please make sure you have included the following information):

図 Completed Worksheet 図 Attach Site Plan 図 Attach Trip Assignment 図 Attach Trip Distribution

図 Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to standle@ci.puyallup.wa.us

SUPPLEMENTARY PROJECT SCOPING INFORMATION - March 27, 2023

Project Title: Valley Avenue Yard

Project Description: 1.835-acres of truck and trailer parking

Address: 1124; 1036 Valley Avenue NW

Parcel(s): 042016-3077; -3042

Project Description:

Valley Avenue Yard proposes for the construction of an Outdoor Storage Yard comprising approximately 1.835-acres, located within the city of Puyallup. On-site currently exist two single-family structures, which are to be demolished prior to new construction and a small office building and ancillary charge which will remain on site. Access to the site is proposed via one driveway extending west from Valley Avenue NW, as shown in the site plan provided in Figure 1.

Trip Generation:

Due to lack of applicable data from the ITE *Trip Generation Manual* pertaining to an outdoor storage yard / truck and trailer parking facilities, project trip generation is proposed to be derived using sample site data from four local sample sites in Pierce County. Data was gathered in April of 2019 and November of 2021, which was used to derive average PM peak hour trip rates. The four sample site locations and trip rate findings from the yard sample site trip generation studies are outlined below in Table 1. An independent variable of "acres" was utilized to derive trip rates given sample site operations and characteristics. Subsequently, Table 2 extrapolates average trip rates from Table 1 to show the estimated project trip generation associated with the proposed Valley Avenue Yard.

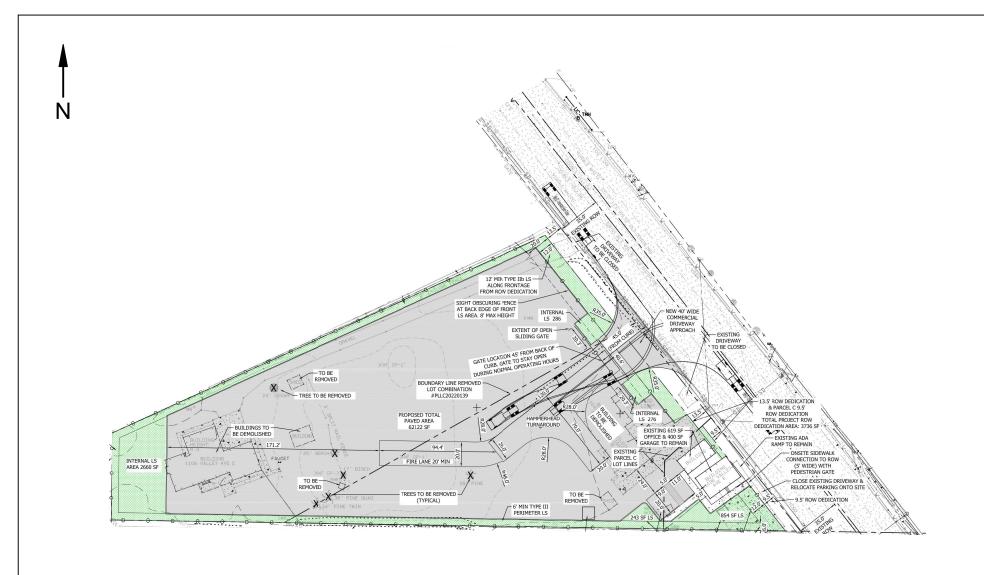
Rate **PM Peak Hour** Size Sample Site **Date** (trips per acre) (acres) In Out Total ln Out Total 263 Roy Rd SW 4/23/2019 2 2 4 1.90 1.05 1.06 2.11 893 Valentine Ave 4/24/2019 9 15 24 5.88 1.53 2.55 4.08 1075 Valentine Ave 4/24/2019 4 4 8 2.38 3.37 1.19 1.19 1221 Alexander Ave 11/17/2021 5 5 10 4.90 1.02 1.02 2.04 **Average Rates** 1.20 1.45 2.65

Table 1: PM Peak Hour Trip Generation Rates:

Table 2: Project PM Peak Hour Trip Generation

Land Use	Size -	PM	1 Peak-Hour Trip	os
Land Ose	Size -	Inbound	Outbound	Total
Proposed: Outdoor Storage Yard / Truck and Trailer Parking	1.835-acres	2	3	5
Existing: Single-Family	2 D.U.'s	-1	-1	-2
1	Net New Trips	1	2	3

As shown in Tables 1 and 2, sample site data extrapolated to the proposed development is anticipated to yield 5 total PM peak hour trips generated on-site (or 3 net new trips). Figure 2 illustrates the project's anticipated PM peak hour trip distribution and assignment. Included are total anticipated project-generated PM peak hour trips (2 in / 3 out).



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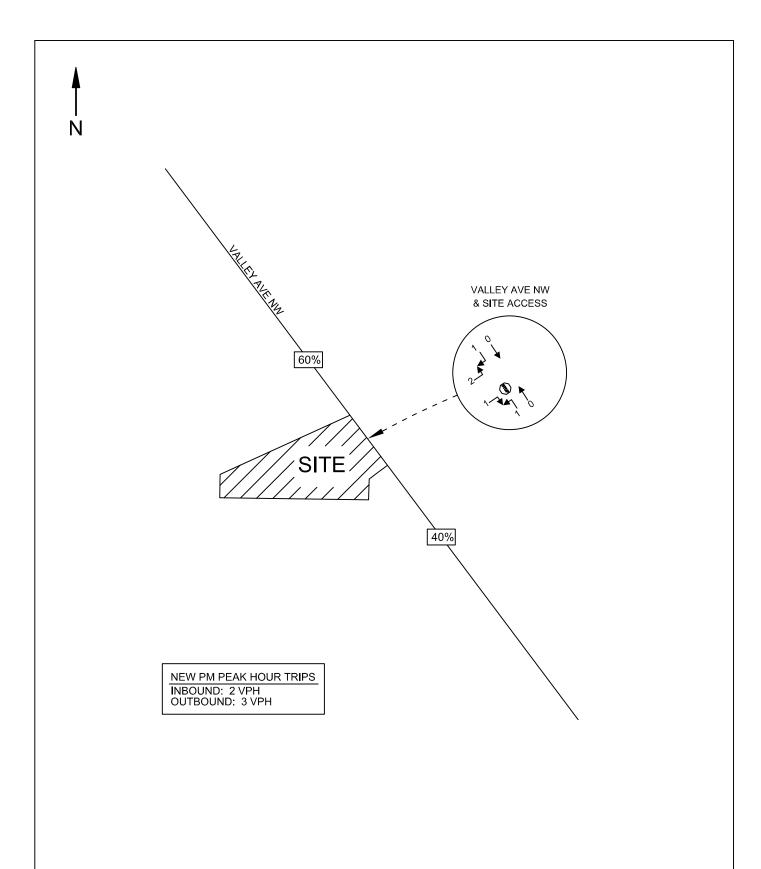
TRAFFIC AND CIVIL ENGINEERING

VALLEY AVENUE YARD

SITE PLAN FIGURE 1

PO Box 397 Puyallup, WA 98371 (253) 770 1401 heathtraffic.com

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TRAFFIC AND CIVIL ENGINEERING

VALLEY AVENUE YARD

PM PEAK HOUR TRIP DISTRIBUTION & ASSIGNMENT FIGURE 2

Single-Family Detached Housing

(210)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday

Setting/Location: General Urban/Suburban

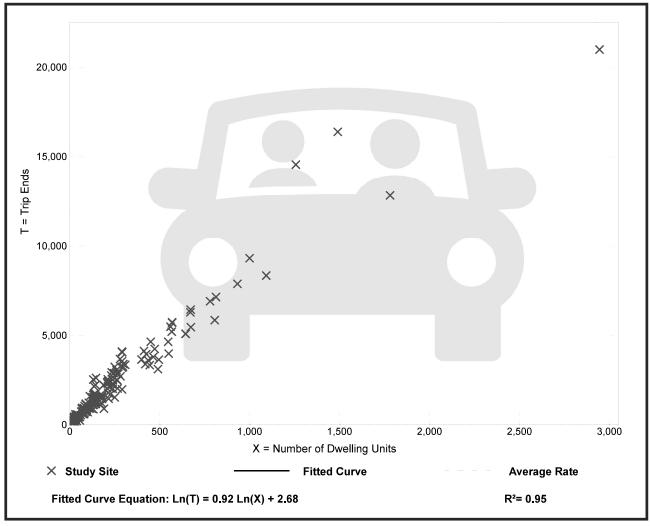
Number of Studies: 174 Avg. Num. of Dwelling Units: 246

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
9.43	4.45 - 22.61	2.13

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

Single-Family Detached Housing

(210)

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

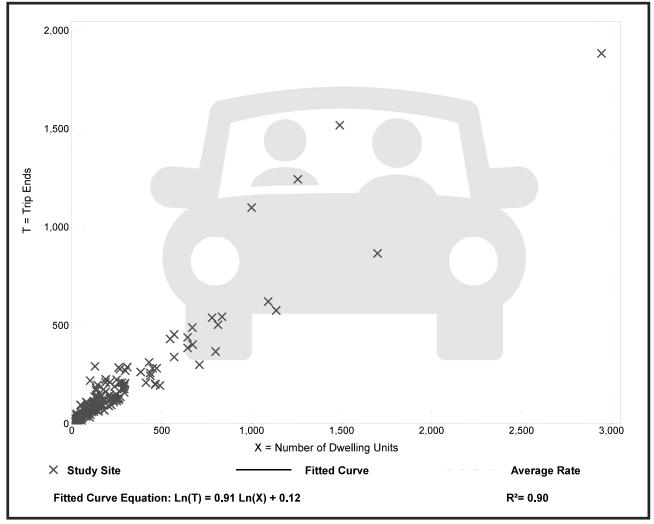
Number of Studies: 192 Avg. Num. of Dwelling Units: 226

Directional Distribution: 26% entering, 74% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.70	0.27 - 2.27	0.24

Data Plot and Equation



Trip Gen Manual, 11th Edition

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Single-Family Detached Housing

(210)

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

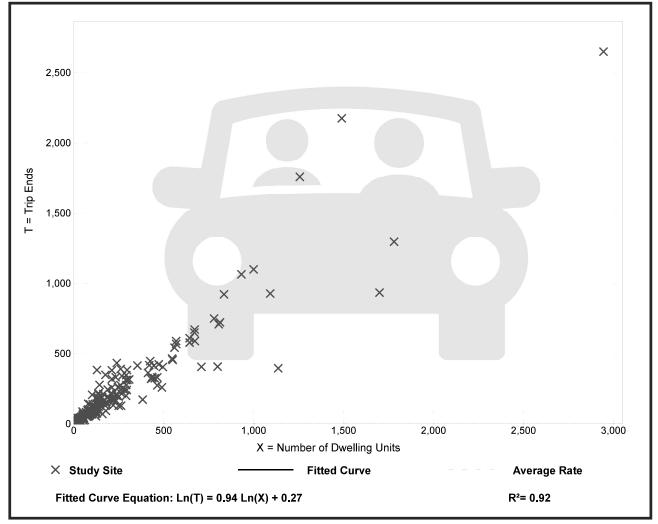
Number of Studies: 208 Avg. Num. of Dwelling Units: 248

Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.94	0.35 - 2.98	0.31

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

11/30/21, 9:28 AM PublicGIS



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> File Name : 4771b Site Code : 00004771 Start Date : 11/17/2021

Page No : 1

Groups Printed- Passenger + - Heavy

				apo i ilitoa						
	Iruc	k Storage <i>F</i>		AI	lexander Av		A			
		Southboun			Westboun					
Start Time	Right	Left	App. Total	Right	Thru	App. Total	Thru	Left	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	0	0	1
04:15 PM	0	1	1	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	1	0	1	2	0	2	0	0	0	3
Total	1	1	2	3	0	3	0	1	1	6
05:00 PM		2	2	2	0	2	0	0	0	4
05:15 PM	0	2	2	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	1	1	1
05:45 PM	0	0	0	1	0	1	0	0	0	1
Total	0	4	4	3	0	3	0	1	1	8
									·	
Grand Total	1	5	6	6	0	6	0	2	2	14
Apprch %	16.7	83.3		100	0		0	100		
Total %		35.7	42.9	42.9	0	42.9	0	14.3	14.3	
Passenger +	0	1	1	1	0	1	0	0	0	2
% Passenger +	0	20	16.7	16.7	0	16.7	0	0	0	14.3
Heavy		4	5	5	0	5	0	2	2	12
% Heavy	100	80	83.3	83.3	0	83.3	0	100	100	85.7

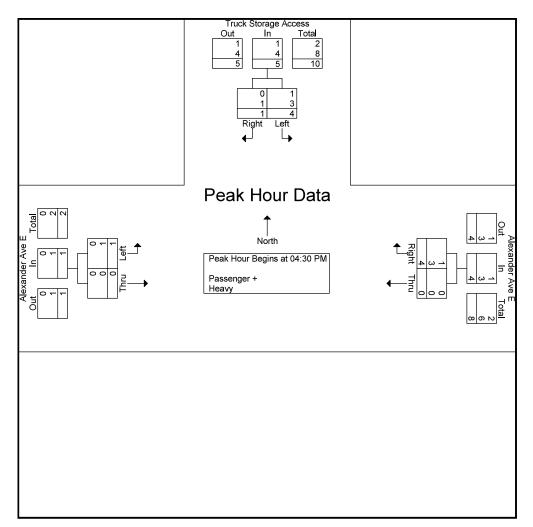
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> File Name : 4771b Site Code : 00004771 Start Date : 11/17/2021

Page No : 2

		Storage A		Ale	exander Av	e E	Ale			
		Southbound		1	Westbound					
Start Time	Right	Left	App. Total	Right	Thru	App. Total	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From	om 04:00 PM	to 05:45 P	M - Peak 1 of	1						
Peak Hour for Entire In	tersection Be	egins at 04:	30 PM							
04:30 PM	0	0	0	0	0	0	0	1	1	1
04:45 PM	1	0	1	2	0	2	0	0	0	3
05:00 PM	0	2	2	2	0	2	0	0	0	4
05:15 PM	0	2	2	0	0	0	0	0	0	2
Total Volume	1	4	5	4	0	4	0	1	1	10
% App. Total	20	80		100	0		0	100		
PHF	.250	.500	.625	.500	.000	.500	.000	.250	.250	.625
Passenger +	0	1	1	1	0	1	0	0	0	2
% Passenger +	0	25.0	20.0	25.0	0	25.0	0	0	0	20.0
Heavy	1	3	4	3	0	3	0	1	1	8
% Heavy	100	75.0	80.0	75.0	0	75.0	0	100	100	80.0



4/16/2019 PublicGIS



1,210,330.2 706,266.4 Foot_US

Download Data Help

263 Roy Ave 1.9 Acres Study Sites

ROY AD SW



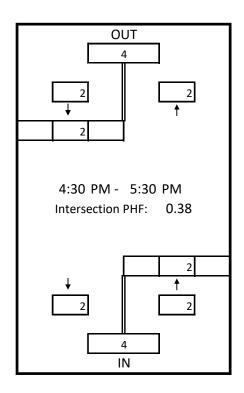
STEWART RD SW

Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

Project Name: Milton Truck Storage

Intersection: 263 Roy Ave Date of Count: 4/23/2019
Jurisdiction: City of Pacific Project Number: 4273

Time			ound JT			Westl	bound		Northbound IN					Eastbound			
Period	HV	R	T	l i	HV	R	Т	1	HV	R	T	L	HV	R	Т	L	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
5:30 PM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	3	0	0	0	0	0	1	0	2	0	0	0	0	0	5
Peak Hour	4:30	PM	to	5:30	PM												Total
Peak Total	0	0	2	0	0	0	0	0	1	0	2	0	0	0	0	0	4
Heavy Veh.		33.	3%	-		0.0	0%			50.	.0%			0.0	0%		
PHF		0.	50			0.	00			0.	50			0.	00		

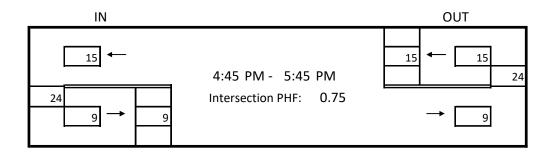


Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

Project Name: Milton Truck Storage

Intersection: 893 Valentine Ave Date of Count: 4/24/2019
Jurisdiction: City of Pacific Project Number: 4273

•																
	South	ound			Westl	oound		Northbound				Eastbound				
					0	JT							1	N		
HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	Total
0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	2
0	0	0	0	2	0	4	0	0	0	0	0	2	0	2	0	6
0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2
0	0	0	0	0	0	1	0	0	0	0	0	1	0	4	0	5
0	0	0	0	0	0	2	0	0	0	0	0	1	0	2	0	4
0	0	0	0	3	0	7	0	0	0	0	0	0	0	1	0	8
0	0	0	0	0	0	5	0	0	0	0	0	2	0	2	0	7
1	0	0	0	1	0	3	0	0	0	0	0	0	0	2	0	5
1	0	0	0	7	0	23	0	0	0	0	0	7	0	16	0	39
4:45	PM	to	5:45	PM												Total
0	0	0	0	3	0	15	0	0	0	0	0	4	0	9	0	24
	0.0	0%			30.	4%			0.0	0%			43.	.8%		
	0.	00			0.	54			0.	00			0.	56		
	0 0 0 0 0 0 0 1 1	HV R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 4:45 PM 0 0	HV R T 0 1 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 4:45 PM to 5:45 0 0 0 0 0 0	HV R T L HV 0 0 0 0 0 1 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HV R T L HV R 0 0 0 0 0 1 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HV R T L HV R T 0 0 0 0 0 1 0 1 0 0 0 0 0 2 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OUT HV R T L HV R T L 0 0 0 0 1 0 1 0 0 0 0 0 2 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 2 0 0 0 0 0 0 2 0 0 0 0 0 0 7 0 2 1 0 0 0 0 0 3 0 3 0 4:45 PM to 5:45 PM PM 5 0 0 0 15 0 0 0 0 0 3 0 15 0	HV R T L HV R T L HV 0 0 0 0 0 1 0 1 0 0 0 0 0 0 2 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HV R T L HV R T L HV R T L HV R 0 0 0 0 1 0 1 0 0 0 0 <td>HV R T L HV R T L HV R T L HV R T 0 0 0 0 1 0 1 0 0 0 0 0<td>HV R T L HV R T L HV R T L HV R T L HV R T L 0 0 0 0 1 0 1 0 0 0 0 0 0 0 <t< td=""><td>HV R T L HV 0 0 0 0 1 0 1 0<!--</td--><td>HV R T L HV R T D D D<</td><td>HV R T L HV R T D D D D D D D D D D D<!--</td--><td>HV R T L HV Q</td></td></td></t<></td></td>	HV R T L HV R T L HV R T L HV R T 0 0 0 0 1 0 1 0 0 0 0 0 <td>HV R T L HV R T L HV R T L HV R T L HV R T L 0 0 0 0 1 0 1 0 0 0 0 0 0 0 <t< td=""><td>HV R T L HV 0 0 0 0 1 0 1 0<!--</td--><td>HV R T L HV R T D D D<</td><td>HV R T L HV R T D D D D D D D D D D D<!--</td--><td>HV R T L HV Q</td></td></td></t<></td>	HV R T L 0 0 0 0 1 0 1 0 0 0 0 0 0 0 <t< td=""><td>HV R T L HV 0 0 0 0 1 0 1 0<!--</td--><td>HV R T L HV R T D D D<</td><td>HV R T L HV R T D D D D D D D D D D D<!--</td--><td>HV R T L HV Q</td></td></td></t<>	HV R T L HV 0 0 0 0 1 0 1 0 </td <td>HV R T L HV R T D D D<</td> <td>HV R T L HV R T D D D D D D D D D D D<!--</td--><td>HV R T L HV Q</td></td>	HV R T L HV R T D D D<	HV R T L HV R T D D D D D D D D D D D </td <td>HV R T L HV Q</td>	HV R T L HV Q

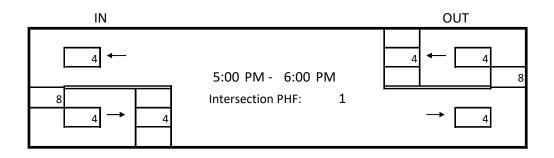


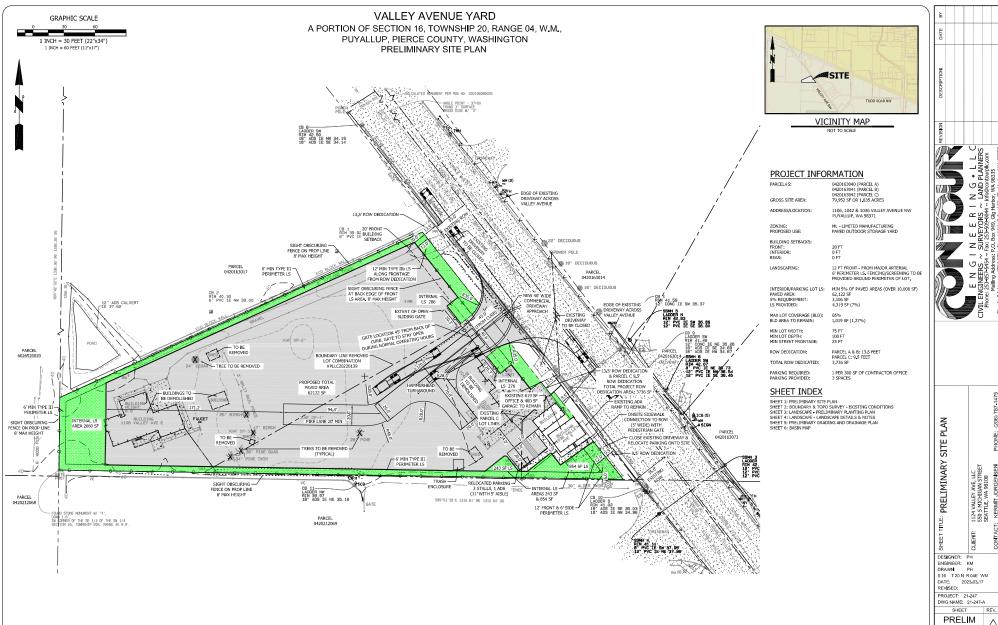
Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

Project Name: Milton Truck Storage

Intersection: 1075 Valentine Ave Date of Count: 4/24/2019
Jurisdiction: City of Pacific Project Number: 4273

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Time		South	ound			Westl	oound			North	bound						
						0	UT							- 1	N		
Period	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	HV	R	Т	L	Total
4:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2
5:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
5:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
5:45 PM	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total	1	0	0	0	0	0	8	0	0	0	0	0	1	0	5	0	13
Peak Hour	5:00	PM	to	6:00	PM												Total
Peak Total	1	0	0	0	0	0	4	0	0	0	0	0	1	0	4	0	8
Heavy Veh.		0.0	0%			0.0	0%			0.0	0%			20	.0%		
PHF		0.	00			0.	50			0.	00			0.	50		





Valley Avenue Contractor Yard Scoping

	10
	PHONE: (206) 787-1475
	PHONE
1124 VALLEY AVE, LLC 550 S MICHIGAN STREET SEATTLE, WA 98108	KERMIT JORGENSEN