PILCHUCK RENTALS

JURISDICTION: CITY OF MARYSVILLE, WA

LOCATION: SMOKEY POINT BLVD, SOUTH OF 156TH STREET NE

Prepared for: 2812 Architecture 2812 Colby Avenue Everett, Washington 98201

Prepared by:



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TRAFFIC IMPACT ANALYSIS

FOR

PILCHUCK RENTALS

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1. DEVELOPMENT IDENTIFICATION

Kimley-Horn and Associates, Inc. (Kimley-Horn) has been retained to provide a traffic impact analysis for the Pilchuck Rentals development (Development). This report is intended to provide the City of Marysville (City) and Snohomish County (County) with the necessary traffic generation, trip distribution, and mitigation fee determination to facilitate their reviews of the Development. The Development is located at parcel 31053200102800 on the southwest corner of Smokey Point Boulevard and 156th Street NE. A site vicinity map is included in **Figure 1**. The Development is proposed to consist of 15,060 square feet (SF) of equipment rental space. The site is currently listed as developed with an existing warehouse and retail space per the *Snohomish County Online Property Information (SCOPI)* web map. The site will primarily access the City street network via one proposed access drive connected to Smokey point Boulevard. A site plan has been provided in **Appendix A**.

Brad Lincoln, responsible for this report and traffic analysis, is a licensed professional engineer (Civil) in the State of Washington and member of the Washington State section of the Institute of Transportation Engineers (ITE).



Figure 1: Site Vicinity Map



2. Trip Generation

The Development is proposed to consist of 15,060 SF of construction equipment rental space. The site is currently developed with an existing warehouse and retail space. The trip generation calculations have been performed using data published by the ITE *Trip Generation Manual, 11st Edition (2021)*. The average trip generation rates for ITE Land Use Codes (LUC) 811, Construction Equipment Rental, ITE LUC 150, Warehousing, and ITE LUC 822, Strip Retail Plaza (<40k), have been used for the trip generation calculations. ITE also identifies a pass-by rate of 40% during the PM peak-hour for similar retail uses. This pass-by rate has also been applied to the daily and AM peak-hour trip generation calculations. The trip generation calculations for the Development are summarized in **Table 1**.

Table 1: Trip Generation Summary

		Average Daily	AM F	eak-Hour T	rips	PM F	eak-Hour	Trips
Land Use	Size	Trips (ADTs)	In	Out	Total	In	Out	Total
Construction Equipment Rental ITE LUC 811	15,060 SF	141.71	10.90	3.26	14.16	4.17	10.74	14.91
Warehousing ITE LUC 150 (Removed)	-2,160 SF	-3.69	-0.28	-0.09	-0.37	-0.11	-0.28	-0.39
Strip Retail Plaza(<40k) ITE LUC 822 (Removed)	-2,280 SF	-74.49	-1.94	-1.29	-3.23	-4.51	-4.51	-9.02
TOTAL		63.53	8.68	1.88	10.56	-0.45	5.95	5.50

The Development is anticipated to generate approximately 64 new average daily trips with approximately 11 new AM peak-hour trips and 6 new PM peak-hour trips after applying the applicable pass-by reductions. The trip generation calculations are provided in **Appendix B**.

3. Trip Distribution

The trip distribution for the Development is based on distributions established by the City, which are included in the attachments. The Development is only anticipated to generate 14 new daily trips with 8 new AM peak-hour trips and x new PM peak-hour trips. This trip generation does not meet the City thresholds for analysis and there are not any County key intersections that will be impacted by 3 directional peak-hour trips. Detailed trip distributions for the Development should therefore not be required. The trip distribution for the 2026 opening year is:

- 57% to and from the north along Smokey Point Boulevard
 - 22% to and from the west along 172nd Street NE
 - 26% to and from the east along 172nd Street NE
 - 7% to and from local areas
 - 2% to and from the north
- 28% to and from the east along 152nd Street NE
- 10% to and from the south along Smokey Point Boulevard
- 5% to and from the west along 156th Street NE



The trip distribution for the 2032 horizon year is:

- 52% to and from the north along Smokey Point Boulevard
 - 25% to and from the west along 172nd Street NE
 - 20% to and from the east along 172nd Street NE
 - 5% to and from local areas
 - 2% to and from the north
- 38% to and from the east along 156th Street NE
- 5% to and from the south along Smokey Point Boulevard
- 5% to and from the west along 156th Street NE

There would have to be at least 45% of the trips generated by the Development traveling along a roadway to equal 3 directional trips. There is not anticipated to be 45% of the trips generated by the Development impacting any intersections within the City boundaries beyond the site access. A trip distribution should therefore not be required for the Development.

4. SITE ACCESS

The Development is proposed to have one access driveway along Smokey Point Boulevard along the southern property line. It is anticipated that the majority of the trips generated by the Development will travel to and from the north along Smokey Point Boulevard.

5. Transportation Impact Fees

The City has interlocal agreements with the County and WSDOT for transportation impact fees. These transportation impact fees are based on the area wide traffic mitigation fee or actual impacts to improvement projects.

5.1 City of Marysville

The City traffic mitigation fees have been calculated using the commercial rates of \$2,220 per PM peak-hour trip. The Development is not anticipated to generate any new PM peak-hour trips. Therefore, the City of Marysville traffic mitigation fees should not be required.

5.2 Snohomish County

The City and County have an interlocal agreement that provides for the payment of traffic mitigation for impacts to County roadways by City developments. Traffic mitigation fees are based on predetermined area impacts or impacts to actual improvement projects. The Development does not generate three directional PM peak-hour trips and therefore County traffic mitigation fees should not be a condition of the Development.

5.3 Washington State Department of Transportation

WSDOT mitigation fees are based on impacts to improvement projects identified in the Exhibit C List included in the interlocal agreement between the County and WSDOT. There are not any WSDOT intersections on the Exhibit C List that will be impacted by three directional PM peak-hour trips generated by the Development. WSDOT transportation impact fees should therefore not be required for the Development.



6. CONCLUSIONS

The Development is proposed to consist of 15,060 SF of construction equipment rental space. The site is currently developed with an existing warehouse and retail space. The Development is anticipated to generate approximately 64 new average daily trips with approximately 11 new AM peak-hour trips and 6 new PM peak-hour trips. City transportation impact mitigation fees should not be required as the Development is not anticipated to generate any new PM peak-hour trips. Neither County nor WSDOT traffic mitigation fees should be required for the Development.



APPENDIX A

SITE PLAN

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MAD

VICINITY

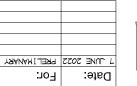
WARYSVILLE, WASHINGTON 98271 3304 1567H ST NE

PILCHUCK RENTALS - SMOKEY POINT A New Equipment Rental Facility for:









PROJECT CRITERIA		
SCOPE OF WORK CONSTRUCT A NEW 11, 940 S.F., TWO-STORY, MANUFACTURED METAL BUILDING FOR AN EQUIPMENT RENTAL FACILITY AND SITE IMPROVEMENTS.		
TAX ACCOUNT NO. 31053200102800		
LEGAL DESCRIPTION SECTION 32 TOWNSHIP 31 RANGE O5 QUARTER NE - LOT 3 CITY OF MAR BLA NO 13-004 REC UND AFN 2013080715002 BEING PTN NE1/4 NE1/4 NE1/4 SD SEC 32 LY ELY OF SR 5 (ARA PSH NO 1)	IMANARY	
CODES	For:	
2016 INTERNATIONAL MECHANICAL CODE (IMC) 2016 INTERNATIONAL FIRE CODE (IFC)		
2018 UNIFORM PLUMBING CODE (UPC) BUILDING CRITERIA	Date	

PROJECT CRITERIA

LEGAL DESCRIPTION SECTION 32 TOWNSHIP 3 REC UND AFN 2013080756	LEGAL DESCRIPTION SECTION 32 TOWIGHIP 31 RANGE O5 QUARTER NE - LOT 3 CITY OF MAR BLA NO 13-0 REC UND APN 201308075002 BEING PTN NET/4 NET/4 SP 55C 32 LY ELY OF 5
(AKA PSH NO 1)	
CODES 2018 INTERNATIONAL BUILDING CODE (1EC) 2018 INTERNATIONAL MECHANICAL CODE (1MC) 2018 INTERNATIONAL FIRE CODE (1FC) 2018 UNIFORM PLUMBING CODE (UPC)	ILDING CODE (IBC) CHANICAL CODE (IMC) RE CODE (IFC) CODE (UPC)
BUILDING CRITERIA ZONING: CONNA: HEIGHT: COCUPANCY: CONSTRUCTION TYPE: FULLY SPRINKLERED: YE ALARMED:	RIA 66 (GENERAL COMMERCIAL) 35' 5-1 7ES YES
PARKING CALCULATIONS REQUIRED PARKING: PER 22C. 130.030	ATIONS 22c. 130.030
NER 600 S.F. 1,256/600=	2 PARKING SPACES
OFFICE: PER 400 S.F. 2,542/400=	7 PARKING SPACE
MAREHOUSE: 1 PER 2,000 S.F.	

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CONTERLAL CONTERCIAL) 35' 5-1 YES YES YES		2 PARKING SPACES	7 PARKING SPACE	4 PARKING SPACES	2 PARKING SPACES	3 PARKING SPACES	νļ
(GENERAL	30.080	2 PARKII	7 PARKII	4 PARKII	2 PARKII	3 PARKIT	18 STALLS
88.6 - 2.9 - 2.9 - 2.9 - 3.0 -	CULATION PER 226.1					S	
2001166 CALLENTY COUNTY MAX. HE1GHT: 35' COCUPANOY: 5-1 COCUPANOY: VB FULLY SIPRINCIPED: YEE ALARMED: YEE	PARKING CALCULATIONS REQUIRED PARKING: PER 22C. 130. 030 RETALL:	PER 600 S.F. 256/600=	OFF1CE: 1 PER 400 S.F. 2,592/400=	WAREHOUSE: 1 PER 2,000 S.F. 7,156/2,000=	INDUSTRIAL 1 PER 150 S.F. 1,408/150	BUSINESS/TRAINING 1 PER 400 S.F. 1,297/400	TOTAL REQUIRED:
ZONING: ZONING: MAX. HEI OCCUPANC CONSTRUC FULLY SP ALARMED:	PARKI REQUIRE RETAIL:	1 PER 1,256	OFFICE: 1 PER 46 2,592/4	MAREH 1 PER 7, 156	INDUS PER 1,408	BUSIN PER 1,297	TOTAL



UTILITY DISTRICTS
POWER: SNOHOMISH COUNTY PUD
WATER: CITY OF MAYSVILLE
SEMER: CITY OF MAYSVILLE
TELEPHONE: VERIZON/FRONTIER
6AS: PUGET SOUND ENERSY

SEPERATE SUBMITTALS
ELECTRICAL
MECHANICAL
PUMBING
SIGNS
FIRE PROTECTION / FIRE ALARM

*NOTE: ALL SEPERATE SUBMITTALS SHALL BE REVIENED AND APPROVED BY ARCHITECT PRIOR TO PERMIT SUBMISSION.



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PAVEMENT	SIDEMALK	GRAVEL.	LANDSCAPING	ASPHALT TO BE DEMOLISHED	EX. PENCE	NEW TENCE	EX. BARBED WIRE FENCE	EX. LIGHT POLE	EX. UTILITY POLE	NEW LIGHT POLE	MATER METER	MANHOLE	FIRE HYDRANT						- 1 - 1



APPENDIX B TRIP GENERATION CALCULATIONS

Pilchuck Rentals 090223122

Trip Generation for: Weekday (a.k.a.): Average Weekday Daily Trips (AWDT)

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LAND USES	VARIABLE	ITE LU code	Trip Rate	% N	% OUT	In+Out (Total)	% of Gross Trips	Trips In+Out (Total)	In+Out (Total)	% of Ext. Trips	In+Out (Total)	% of Ext. Trips	In+Out In+Out (Total)	In+Out (Total)	u	Out	u	Out	ll .	Out
Construction Equipment Rental	15.060 K SF	811	811 9.41 50%	%09	%09	141.71	%0	0	141.71	%0	0.00	%0	0	141.71	0.00	0.00	0	0 70	70.86	70.85
Warehouse (Removed)	-2.160 K SF	150	1.71	%09	%09	-3.69	%0	0	-3.69	%0	0.00	%0	0	-3.69	0.00	0.00	0	0 -1	-1.85	-1.84
General Retail (<40k) (Removed)	-2.280 K SF	822	822 54.45 50%	%09	20%	-124.15	%0	0	-124.15	40%	-49.66	%0	0	-74.49	-24.83 -24.83	-24.83	0	0 -3.	-37.25	-37.24
Total						13.87		0	13.87		-49.66		0	63.53	-24.83 -24.83 0 0	-24.83	0		31.76	31.77

Pilchuck Rentals 090223122

Trip Generation for: Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 7 and 9 AN (a.k.a.): Weekday AM Peak Hour

												~	JET EXTE	NET EXTERNAL TRIPS BY TYPE	IPS BY	TYPE				
		,								Z	IN BOTH DIRECTIONS	RECTIO	NS			JIRECTI	ONAL,	ASSIGN	DIRECTIONAL ASSIGNMENTS	
				Gross	Gross Trips		Inte Cros	Internal Crossover	TOTAL	PAS	PASS-BY	DIVERT	DIVERTED LINK NEW	NEW	PASS-BY		DIVERTED LINK	TED	NEW	>
LAND USES	VARIABLE	TE LU code	Trip Rate	% Z	% In+Out OUT (Total)	In+Out (Total)	% of Gross Trips	Trips In+Out (Total)	In+Out (Total)	% of Ext. Frips	In+Out (Total)	% of Ext. Trips	In+Out (Total)	t In+Out (Total)	띡	Out	u u	Out	<u> </u>	Out
Construction Equipment Rental	15.060 K SF 811	811	0.94	77% 23%		14.16	%0	00'0	14.16	%0	0.00	%0	0.00	14.16	0.00	0.00	0	0	10.90	3.26
Warehouse (Removed)	-2.160 K SF	150	0.17	%22	23%	-0.37	%0	00.00	-0.37	%0	0.00	%0	0.00	-0.37	0.00	0.00	0	0	-0.28	-0.09
General Retail (<40k) (Removed) -2.280 K SF 822	-2.280 K SF	822	2.36	%0 8 40%	40%	-5.38	%0	0.00	-5.38	40%	-2.15	%0	0.00	-3.23	-1.29	-0.86	0	0	-1.94	-1.29
Total						8.41		00.00	8.41		-2.15		0.00	10.56	-1.29	-0.86	0	0	8.68	1.88

Pilchuck Rentals 090223122

Trip Generation for: Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 4 and 6 PM (a.k.a.): Weekday PM Peak Hour

												~	ET EXTE	NET EXTERNAL TRIPS BY TYPE	IPS BY	TYPE				
		1								Z	IN BOTH DIRECTIONS	RECTIO	NS			DIRECTIONAL ASSIGNMENTS	ONAL	ASSIG	IMENTS	
				Gross	Gross Trips		Internal	nal	TOTAL	PAS	PASS-BY	JIVERTE	DIVERTEDLINK	NEW	PASS-BY	BY.	DIVERTED	TED	NEW	
					2		Crossover	over						=			LINK	¥		
		ΙLΕ	Trip	%	%	In+Out		Trips	In+Out	ot,	In+Out	% of	In+Out In+Out	In+Out						
LAND USES	VARIABLE	3	1 40			(Total)	Gross	In+Out	(Total)	ixt.	(letoL)	_	(letoT)	(Total)	<u>_</u>	ŏ	<u>_</u>	ont	<u>_</u>	Out
		code	Nate	1		(Total)	Trips	(Total)	(TOTAL)	Trips	(I Otal)	Trips	(I Otal)	(Total)						
Construction Equipment Rental	15.060 K SF 811 0.99	811	0.99	28%	72%	14.91	%0	0.00	14.91	%0	0.00	%0	0.00	14.91	0.00	0.00	0	0	4.17	10.74
Warehouse (Removed)	-2.160 K SF	150	0.18	28%	72%	-0.39	%0	0.00	-0.39	%0	0.00	%0	0.00	-0.39	0.00	0.00	0	0	-0.11	-0.28
General Retail (<40k) (Removed) -2.280 K SF 822 6.59	-2.280 K SF	822	6.59	20%	%09	-15.03	%0	0.00	-15.03	40%	-6.01	%0	0.00	-9.02	-3.01	-3.00	0	0	-4.51	-4.51
Total						-0.51		0.00	-0.51		-6.01		0.00	5.50	-3.01	-3.01 -3.00	0	0	-0.45	5.95