

City of Puyallup Traffic Scoping Worksheet

PROJECT INFORMATION

Project Title: ARCO AM/PM Date: 4/20/2022

Applicant Name: Nick Wecker, Barghausen Consulting Engineers, Inc. Telephone Number: (425) 656-7469

Project Description: Construct 8 fuel pump (16 fueling position) gas station with a 3,349 sf convenience market and supportive functions including a car wash and vacuuming station. Remove existing restaurant. Year of Occupancy: 2023

Project Location: 1402 S Meridian, Puyallup Parcel Size: 51,520 SF

Proposed Number of Access Point(s): 2 Existing Number of Access Point(s): 1

Land Use	Quantity	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s)					
High Turnover Sit-Down Restaurant	2,760 sf	932	168	15.06	14.24
Proposed Use(s)					
Convenience Store/Gas Station - VFP (16-24)	3,349	945	1,040	61.67	73.68
Net New Trips			872	46.61	59.44
Traffic Impact Fees: Net New PM Peak Hour Trips x \$4,500.00 = \$ <u>267,480</u>					

- * The peak hour project trips shall be rounded to the nearest tenth.
- * The project trips shall be estimated using the ITE's *Trip Generation*, ~~10th Edition~~ **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 all single-family units and offices and specialty retail centers smaller than 30,000 SF, use ITE's *Trip Generation*, 10th Edition, average rate.

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

1. S Meridian/SR 512 EB
2. S Meridian/14th Ave SE
3. S Meridian/Existing/Proposed DW
4. S Meridian/15th Ave SW
5. Existing Driveway/15th Ave SW
6. _____
7. _____
8. _____

Prepared by: Traffic Engineer: Kassi Leingang, PE Telephone Number: (425) 896-5240

Address: Transpo Group, 12131 113th Ave NE, #203, Kirkland, WA 98034

Office Use Only

TIS ☐ TAS ☐ TAIS ☐ No Further Work Required ☐

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

- ☐ Completed Worksheet ☐ Attach Site Plan ☐ Attach Trip Assignment ☐ Attach Trip Distribution
☐ Mail or hand deliver to 333 South Meridian, Puyallup, WA 98371 or e-mail to broberts@ci.puyallup.wa.us

Preliminary Not For Construction



PROJECT DATA

LOCATION: 1402 S MERIDIAN
PUYALLUP, WASHINGTON

PROPOSED LOT AREA: ±51,520 S.F. (1.18 AC)

BUILDING SETBACKS:

FRONT YARD SETBACK: 12'
SIDE STREET SETBACK: 12'
SIDE YARD SETBACK: 0'
REAR YARD SETBACK: 0'

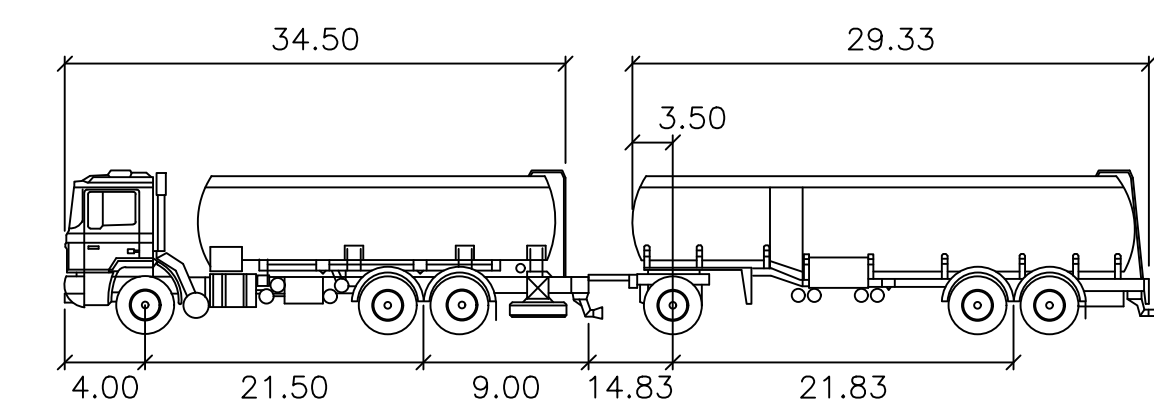
LANDSCAPING:

OVERALL LANDSCAPING: 10% OF PAVED AREA
PERIMETER LANDSCAPING: SETBACK WIDTH OR 12 FEET, WHICHEVER LESS

PARKING REQUIREMENTS:

NO. OF SPACES REQUIRED: 1 SPACE PER 300 SQUARE FEET
 $3,349/300 = 11.16$

NO. OF SPACES PROVIDED: 21

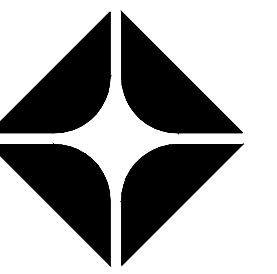
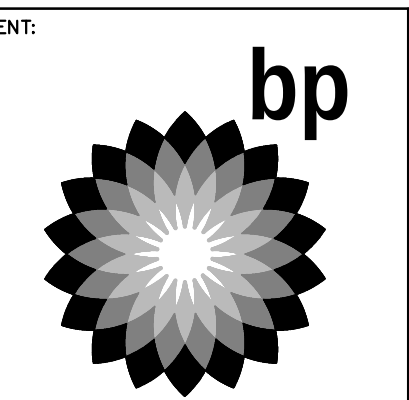


arco-75
feet

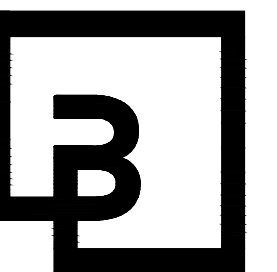
First Unit Width	: 8.50	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 36.0
First Unit Track	: 8.50	Articulating Angle	: 70.0
Trailer Track	: 8.50		

NOTE:
THIS PLAN, AS SHOWN, HAS BEEN APPROVED BY BP TRANSPORTATION FOR APPROVAL OF
FUEL DELIVERY BY:
TERMINAL MANAGER: JOSEPH SMOLAR
DATE: JULY 9, 2021

ANY DEVIATION TO THIS PLAN NEEDS TO BE APPROVED THROUGH BP TRANSPORTATION
TERMINAL MANAGER AND INCORPORATED INTO THE PERMIT DOCUMENTS. CONTACT
FRANCHISEE FOR MORE DETAILS.



ARCO
WEST COAST PRODUCTS, LLC



**arghausen
onsulting Engineers, Inc.**

3215 72nd Avenue South
Rent, WA 98032
25.251.6222
arghausen.com

[illegible]

AL:

Not for
Construction

DEVELOPMENT INFORMATION:

ARCO NTI
3400 am/pm
JUEL CANOPY w/ 8 MPD's

E ADDRESS:

SWC S MERIDIAN
@ HIGHWAY 512
PUYALLUP, WASHINGTON

FACILITY #TBD

IGNED BY:	ALLIANCE Z&DM:
CKED BY:	BP REPM:
OWN BY: DJ	ALLIANCE PM:
SION:	PROJECT NO: 21730

WORKING TITLE:

**PRELIMINARY
SITE PLAN**

SET NO:

SP-5

Puyallup ARCO

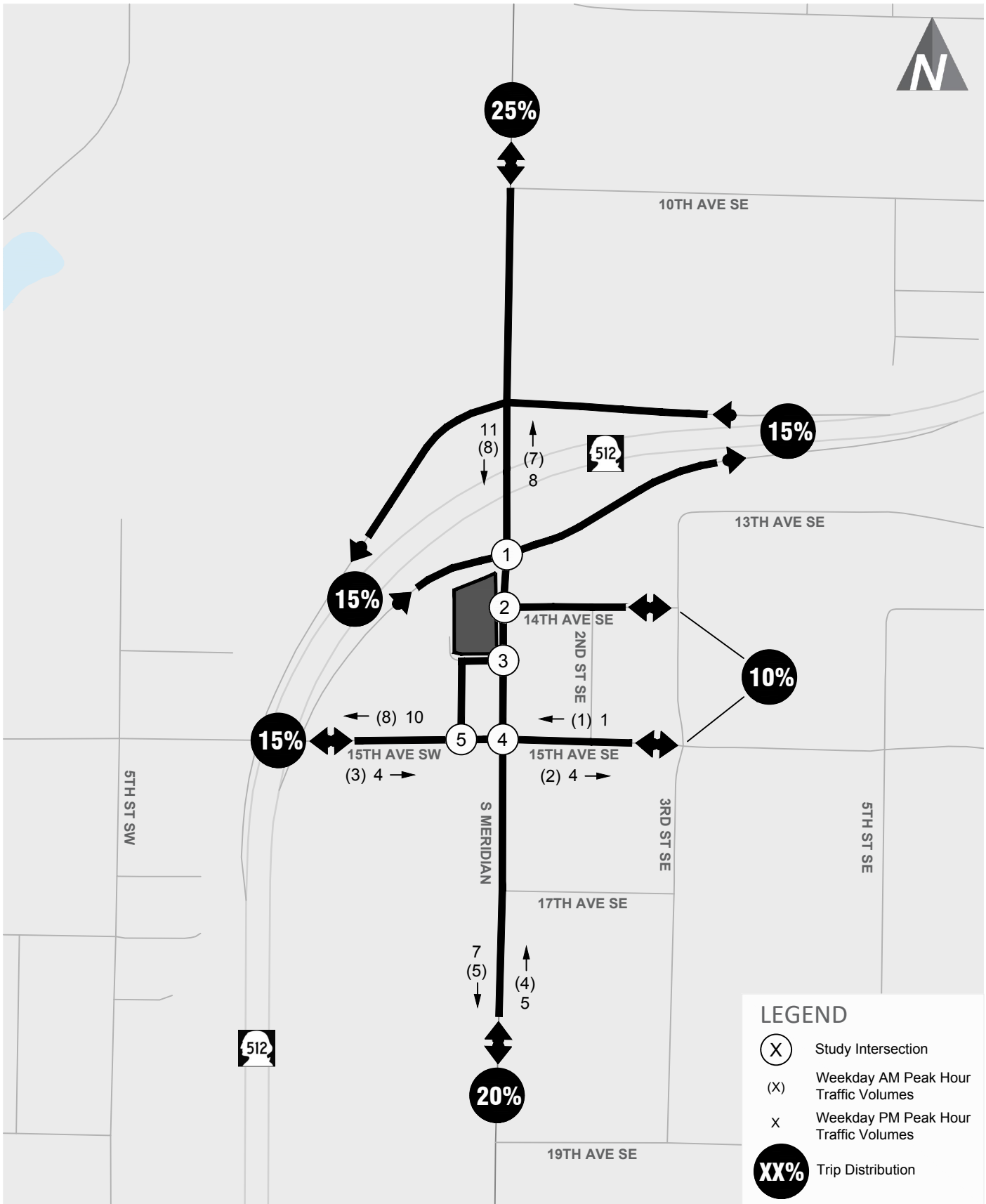
<u>Proposed Use</u>																	
								Gross Trips			Pass-By ²				Total Net New		
Land Use	Setting	Size	Units	Model	Rate ¹	Units	Inbound %	Inbound	Outbound	Subtotal	%	In	Out	Total	Inbound	Outbound	Total
Convenience Store/Gas Station - GFA (2-4k) (LU #945)		16 vfp															
Daily	General Urban/Suburban	3,349 sf		Rate	265.12	per vf	50%	2,121	2,121	4,242	76%	1601	1601	3202	520	520	1,040
AM Peak Hour	General Urban/Suburban			Rate	16.06	per vf	50%	128	129	257	76%	98	98	195	30	31	61.67
PM Peak Hour	General Urban/Suburban			Rate	18.42	per vf	50%	147	148	295	75%	111	110.52	221	36	37	73.68
<u>Existing Use</u>																	
								Gross Trips			Pass-By				Total Net New		
Land Use		Size	Units	Model	Rate	Units	Inbound %	Inbound	Outbound	Subtotal	%	In	Out	Total	Inbound	Outbound	Total
High Turnover Sit-Down Restaurant (LU #932)		2,760 sf															
Daily	General Urban/Suburban			Rate	107.20	per ksf	50%	148	148	296	43%	64	64	128	84	84	168
AM Peak Hour	General Urban/Suburban			Rate	9.57	per ksf	55%	15	11	26	43%	6	6	11	9	6	15.06
PM Peak Hour	General Urban/Suburban			Rate	9.05	per ksf	61%	15	10	25	43%	5	5	11	10	5	14.24
<u>Net New Trips</u>																	
Daily															436	436	872
AM Peak Hour															21	26	46.61
PM Peak Hour															27	33	59.44

Notes:

1. Trip rates based on Institute of Transportation Engineers' (ITE) *Trip Generation* 11th Edition average trip rate as shown above. Note that per conversations with the City, LU 945 as reflected in the analysis above is inclusive of all proposed components of the project including the convenience store, fueling pumps, and car wash.
2. Passby rates per ITE's *Trip Generation Manual* , 11th Edition

Vehicle Pass-By Rates by Land Use										
Source: ITE Trip Generation Manual , 11th Edition										
Land Use Code	945									
Land Use	Convenience Store/Gas Station									
Setting	General Urban/Suburban									
Time Period	Weekday AM Peak Period									
# Data Sites	16 Sites with between 2 and 8 VFP					28 Sites with between 9 and 20 VFP				
Average Pass-By Rate	60% for Sites with between 2 and 8 VFP					76% for Sites with between 9 and 20 VFP				
	Pass-By Characteristics for Individual Sites									

Vehicle Pass-By Rates by Land Use										
Source: ITE Trip Generation Manual , 11th Edition										
Land Use Code	945									
Land Use	Convenience Store/Gas Station									
Setting	General Urban/Suburban									
Time Period	Weekday PM Peak Period									
# Data Sites	12 Sites with between 2 and 8 VFP					28 Sites with between 9 and 20 VFP				
Average Pass-By Rate	56% for Sites with between 2 and 8 VFP					75% for Sites with between 9 and 20 VFP				
	Pass-By Characteristics for Individual Sites									



Project Trip Distribution and Assignment