### City of Puyallup Traffic Scoping Worksheet

#### **PROJECT INFORMATION**

Project Title: Bell Place Apartments	Date:11/1/2023
Applicant Name: Paul Green	Telephone Number: <u>253-770-3144</u>
Project Description: 109 Apartment Units	Year of Occupancy: 2026
Project Location: <u>PN: 574500-1641; -1632; &amp; -1631 (204 4</u>	th St SW) Parcel Size: 0.74-acres
Proposed Number of Access Point(s): 1 Existing Number	er of Access Point(s): Street Parking

Land Use	Quantity (dwelling units)	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*	
Existing Use(s): LUC 2	210 – Single-F	amily Detach	ed Housing			
Single-Family Housing 1 210 -9.4 -0.7 -0.9						
Proposed Use(s) LUC 221 – Multifamily Housing (Mid-Rise) (close to rail transit)						
Multifamily Housing (Mid-rise)         109         221         517.8         34.9         31.6					31.6	
Net New Trips         508.4         34.2         30.7						
<b>Traffic Impact Fees:</b> Net New PM Peak Hour Trips x \$4,500 = \$138,150						

- \* The project trips shall be rounded to the nearest tenth.
  - \* The project trips shall be estimated using the ITE's *Trip Generation*, 11<sup>th</sup> Edition.
  - \* Trip generation regression equations shall be used when the R<sup>2</sup> 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.

Edition, average rate.	
Identify all intersections that	t will be affected by 25 new project peak hour trips or more:
1. Project Access & W Mee	eker 4.
2	5
	er: <u>Aaron Van Aken</u> Telephone Number: <u>253-770-1401</u> e 453, Puyallup, WA 98371 avanaken@heathtraffic.com
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 broberts@puyallupWA.gov

## **HEATH**&ASSOCIATES

#### Transportation Planning & Engineering

Date: November 1, 2023

To: Bell Place LLC.

Azure Green Consultants

(253)-770-3144

From: Aaron Van Aken, PE, PTOE

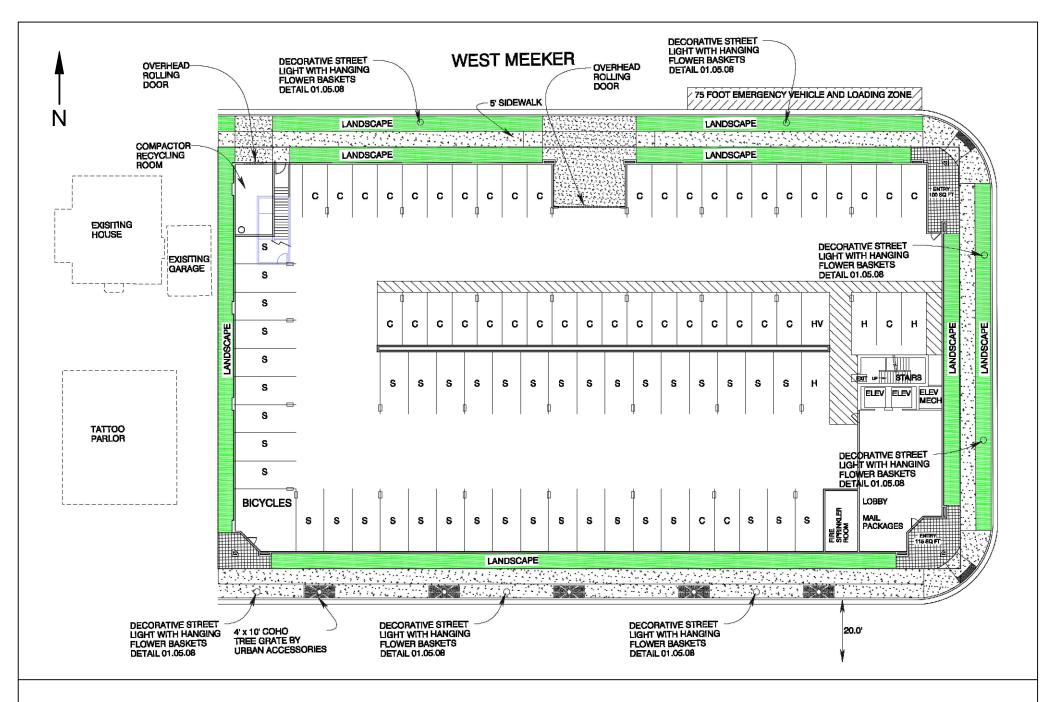
<u>Subject</u>: Bell Place Apartments - Trip Generation Memo

#### **Project Summary**

Bell Place Apartments proposes for the construction of 109 multifamy apartment units located within the city of Puyallup. The subject site comprises a cumulative 0.74-acres within tax parcel #'s: 574500-1641; -1632; & -1631. The proposed development, with a site address of 204 4th Street SW, is bordered to the north by W Meeker, to the east by 4th Street SW, and to the south by W Pioneer. One single-family dwelling unit exists on-site, which is to be demolished prior to new construction. Access to the site is proposed via one new access point extending south from W Meeker. Rail and public transit services are provided within walking distance of the proposed project. Figure 1 below provides an aerial vicinity of the subject site. Figure 2 depicts a conceptual site plan which shows approximatley 87 parking stalls.

#### Figure 1: Aerial Vicinity







#### **BELL PLACE APARTMENTS**

CONCEPTUAL SITE PLAN FIGURE 2

#### **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 use code utilized for analysis is defined under ITE's Land Use Code (LUC) 221 Multifamily Housing (Mid-Rise), as the development is located under 1.0-mile from rail transit, the subcategory of "close to rail transit" was selected. Dwelling units were used as the input variable with ITE average rates to determine trip ends.

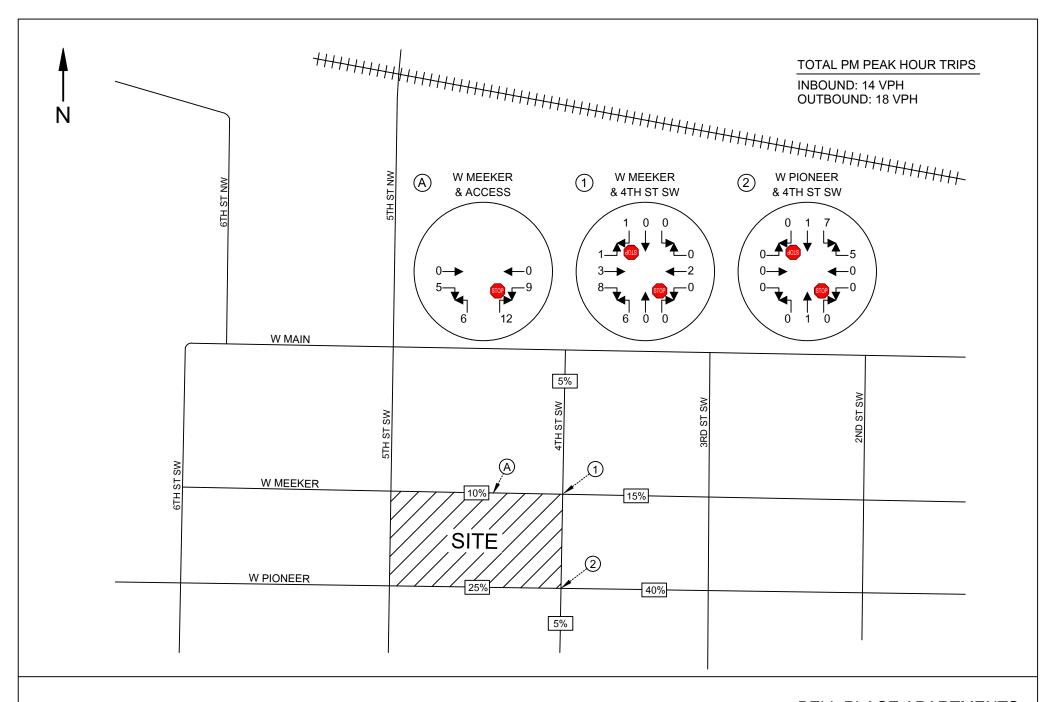
The existing structure on-site is defined as LUC 210 - Single-Family Detached Housing. Dwelling units were used as the input variable and ITE average rates were used to determine trip ends. Table 1 below summarizes anticipated vehicular movements for the average weekday daily trips (AWDT) and the AM and PM peak hours.

**Table 1: Project Trip Generation** 

Land Use	Dwelling AWDT -		AM Peak-Hour Trips		Peak-Hour Trips			
Land Ose	Units	AVVDI	In	Out	Total	ln	Out	Total
<u>Proposed</u>								
Multifamily Housing (Mid-Rise)	109	518	20	15	35	14	18	32
(LUC 221)								
<u>Existing</u>								
Single-Family Detached	1	-9	0	-1	-1	-1	0	-1
(LUC 210)								
Net	: New Trips	509	20	14	34	13	18	31
	•							

Based on ITE data, the proposed multifamily development is estimated to generate approximately 509 net new daily weekday trips with 34 net new trips (20 inbound /14 outbound) occurring in the AM peak and 31 net new trips (13 inbound /18 outbound) in the PM peak hour.

Figure 3 on the following page depicts estimated PM peak hour trip distribution and assignment to and from the site.





#### **BELL PLACE APARTMENTS**

PM PEAK HOUR TRIP DISTRIBUTION & ASSIGNMENT FIGURE 3

#### **Conclusion**

The Bell Place Apartments project proposes for the construction of a multifamily development comprised of 109 multifamily apartment units in the city of Puyallup. The 0.74-acre property (tax parcel #'s: 574500-1641; -1632; & -1631) has a site address of 204 4th Street SW and is bordered to the north by W Meeker, to the south by W Pioneer, and to the east by 4th Street SW. One single-family dwelling unit exists on-site, which is to be demolished prior to new construction. Access is proposed via one new driveway extending south from W Meeker. Based on ITE data, the proposed project is estimated to generate 509 net new average weekday daily trips with 34 net new AM peak hour trips and 31 net new PM peak hour trips.

Please call if you require additional information.

Aaron Van Aken, PE, PTOE

## **Multifamily Housing (Mid-Rise)**

Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday

Setting/Location: General Urban/Suburban

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

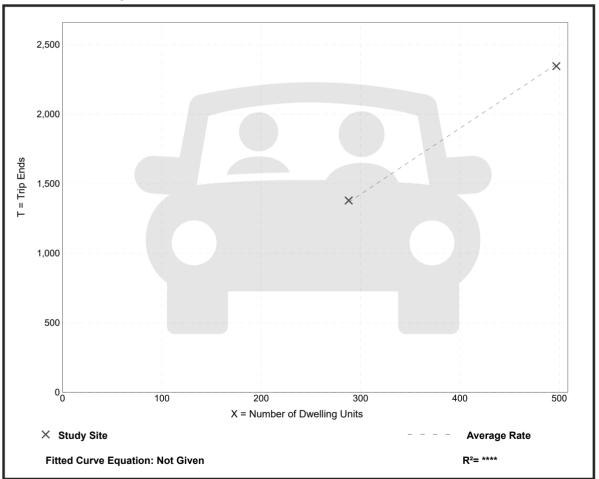
Directional Distribution: 50% entering, 50% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
4.75	4.72 - 4.79	*

#### **Data Plot and Equation**

#### Caution - Small Sample Size



Trip Gen Manual, 11th Edition

## **Multifamily Housing (Mid-Rise)**

Close to Rail Transit (221)

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

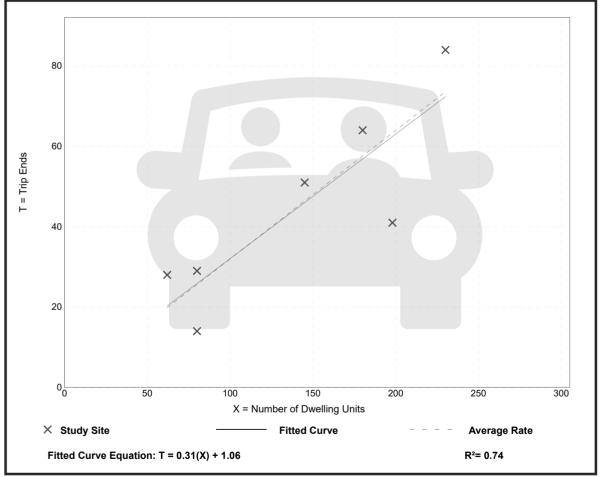
Number of Studies: 7
Avg. Num. of Dwelling Units: 139

Directional Distribution: 56% entering, 44% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
0.32	0.18 - 0.45	0.09

#### **Data Plot and Equation**



Trip Gen Manual, 11th Edition

## **Multifamily Housing (Mid-Rise)**

Close to Rail Transit (221)

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: 7

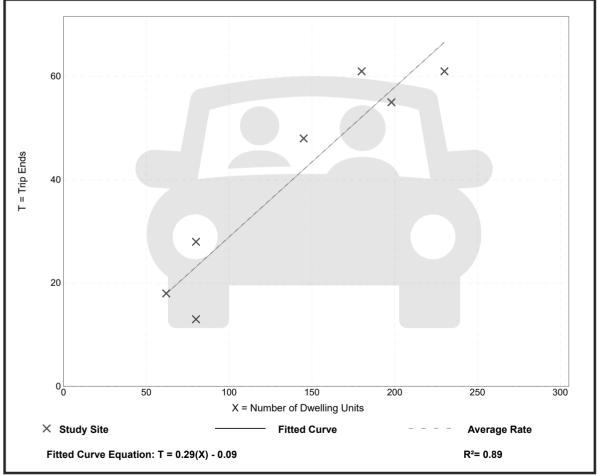
Avg. Num. of Dwelling Units: 139

Directional Distribution: 43% entering, 57% exiting

#### **Vehicle Trip Generation per Dwelling Unit**

Average Rate	Range of Rates	Standard Deviation
0.29	0.16 - 0.35	0.05

#### **Data Plot and Equation**



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<sup>•</sup> Institute of Transportation Engineers

# Single-Family Detached Housing (210)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday

Setting/Location: General Urban/Suburban

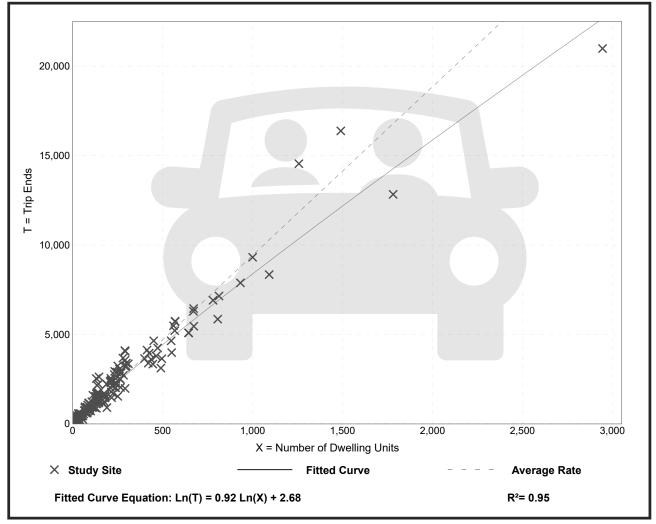
Number of Studies: 174 Avg. Num. of Dwelling Units: 246

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**



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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 7 and 9 a.m.

Setting/Location: General Urban/Suburban

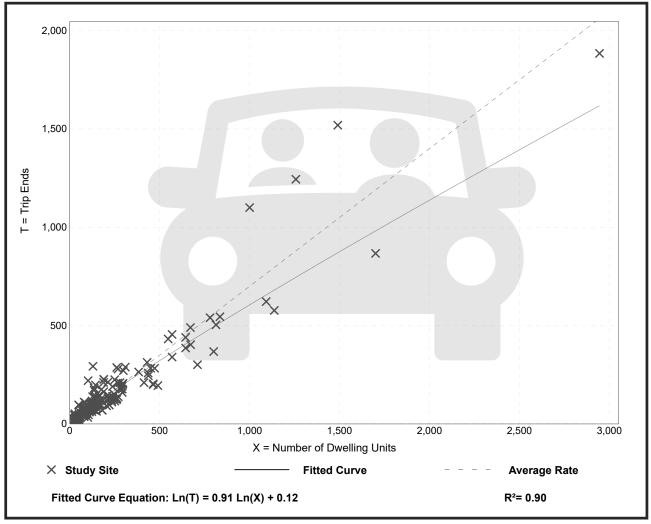
Number of Studies: 192 Avg. Num. of Dwelling Units: 226

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**



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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

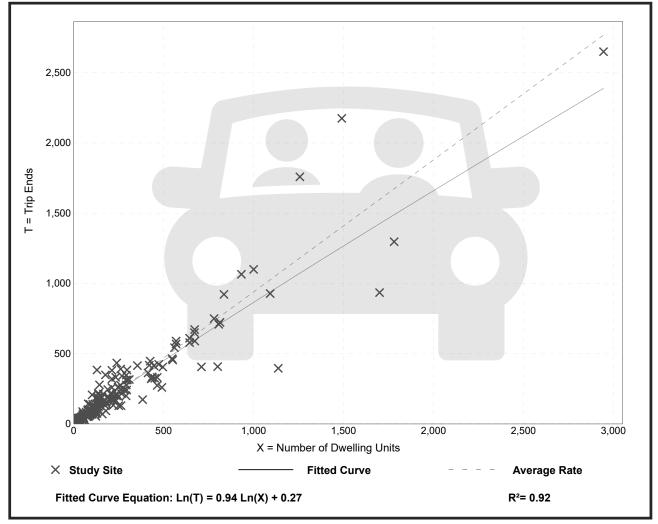
Number of Studies: 208 Avg. Num. of Dwelling Units: 248

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