

City of Puyallup Traffic Scoping Worksheet

PROJECT INFORMATION

Project Title: 1200 7th Ave SE Townhomes Date: 6/11/2024

Applicant Name: Vitaly Kravchishin Telephone Number: _____

Project Description: 6 Townhomes Year of Occupancy: 2026

Project Location: PN: 7845001330 Parcel Size: 0.46-acres

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

Land Use	Quantity (dwelling units)	ITE Land Use Code	Average Daily Trips	AM Peak Hour Trips*	PM Peak Hour Trips*
Existing Use(s):					
Single Family	1	210	9.4	0.7	0.9
Proposed Use(s) LUC 220 – Multifamily Housing (Low-Rise)					
Single-Family Attached Housing	6	215	43.2	2.9	3.4
Net New Trips			33.8	2.2	2.5
Traffic Impact Fees: Net New PM Peak Hour Trips x \$4,500 = \$11,250					

- * 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. _____ 4. _____
2. _____ 5. _____

Prepared by: Traffic Engineer: Aaron Van Aken Telephone Number: 253-770-1401

Address: 1011 E Main Suite 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):
 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@puyallupWA.gov

Date: June 11, 2024

To: Bryan Roberts, P.E.,
Traffic Engineer
City of Puyallup

From: Aaron Van Aken, PE, PTOE

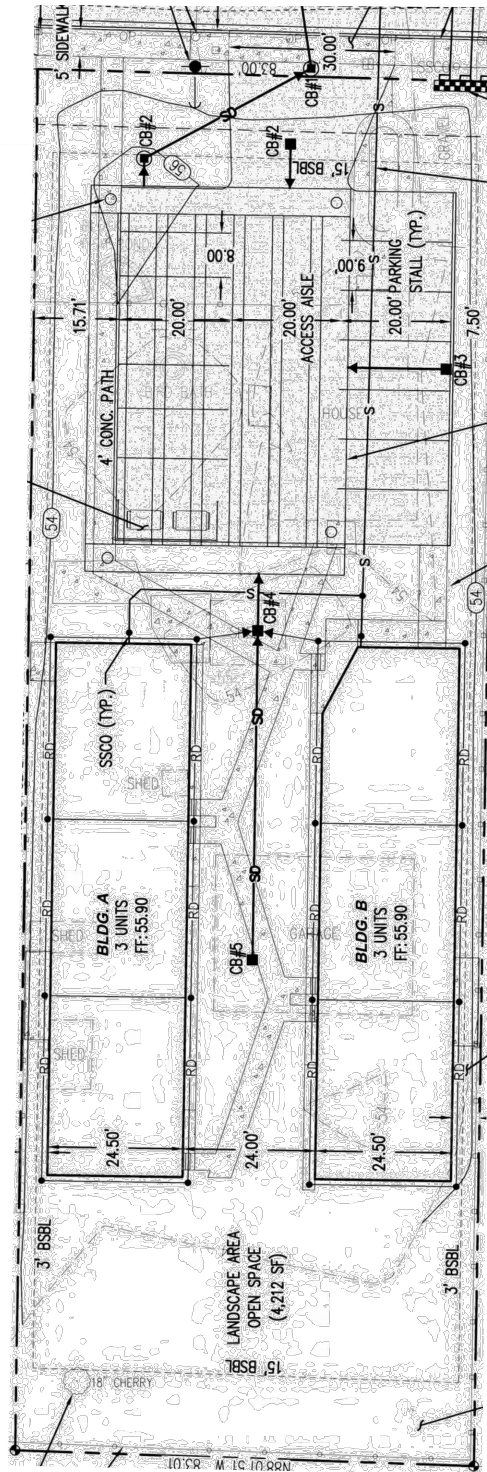
Subject: 1200 7th Ave SE Townhomes - Trip Generation Memo

Project Summary

1200 7th Ave SE Townhomes proposes for the construction of six townhome units located within the city of Puyallup. The subject site comprises 0.46-acres within tax parcel #: 7845001330. The proposed development (1200 7th Ave SE) is bordered to the north by 7th Avenue SE. Existing on site is a single-family home and a detached garage, both of which will be demolished prior to construction of the townhomes. Access to the site is proposed via a single access point extending north from the subject site to the intersection of 7th Avenue SE & 12th Street SE. **Figure 1** below provides an aerial vicinity of the subject site. **Figure 2** depicts a conceptual site plan which shows approximately 12 parking stalls.

Figure 1: Aerial Vicinity





Trip Generation

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 land use code utilized for analysis is defined under ITE's Land Use Code (LUC) 215 - Single-Family Attached Housing. Dwelling units were used as the input variable with ITE average rates 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.

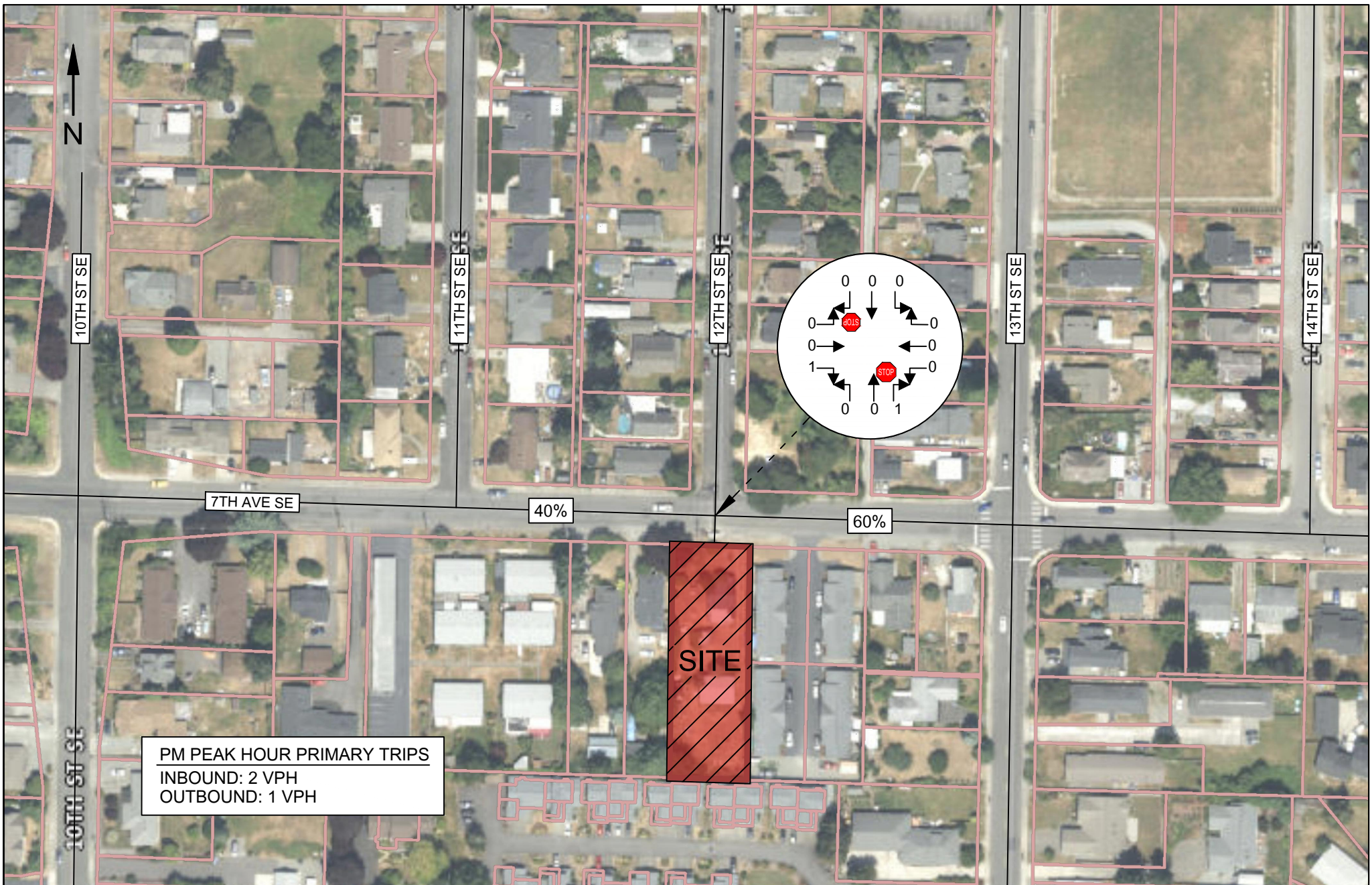
Table 1: Project Trip Generation

Land Use	Dwelling Units	AWDT	AM Peak-Hour Trips			Peak-Hour Trips		
			In	Out	Total	In	Out	Total
<u>Proposed</u> Single-Family Attached Housing (LUC 215)	6	43	1	2	3	2	1	3

Based on ITE data, the proposed multifamily development is estimated to generate approximately 43 daily weekday trips with 3 trips (1 inbound /2 outbound) occurring in the AM peak and 3 trips (2 inbound /1 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.





Conclusion

The 1200 7th Ave SE Townhomes project proposes for the construction of two buildings comprising of 6 townhome units in the city of Puyallup. The 0.46-acre parcel (tax parcel #: 7845004330) and is bordered to the north by 7th Avenue SE. Access is proposed via relocating an existing driveway to align with the intersection of 7th Avenue SE and 12th Street SE. Based on ITE data, the proposed project is estimated to generate 43 new average weekday daily trips with 3 new AM peak hour trips and 3 new PM peak hour trips.

Please call if you require additional information.

Aaron Van Aken, PE, PTOE



Single-Family Detached Housing (210)

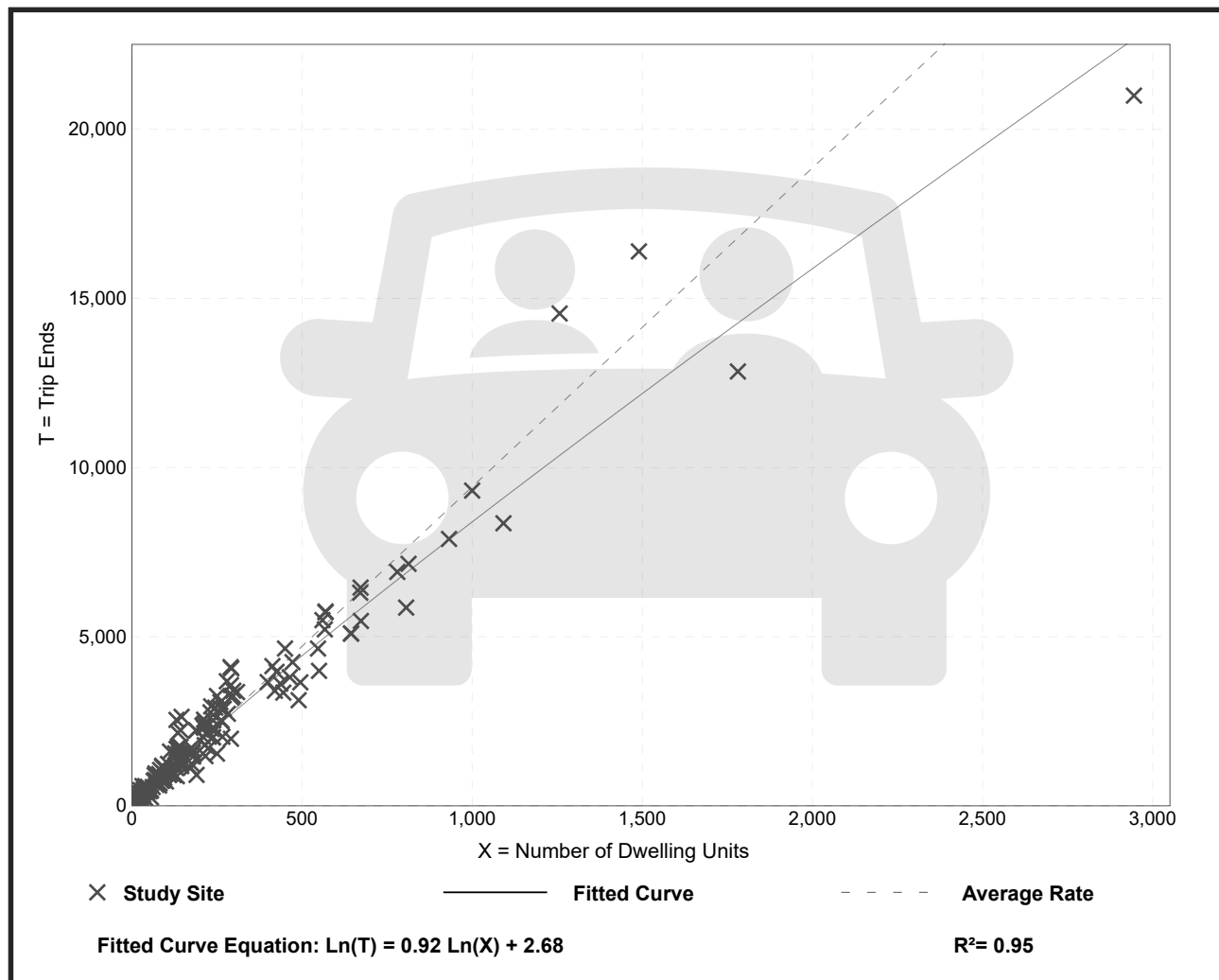
Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

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



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.

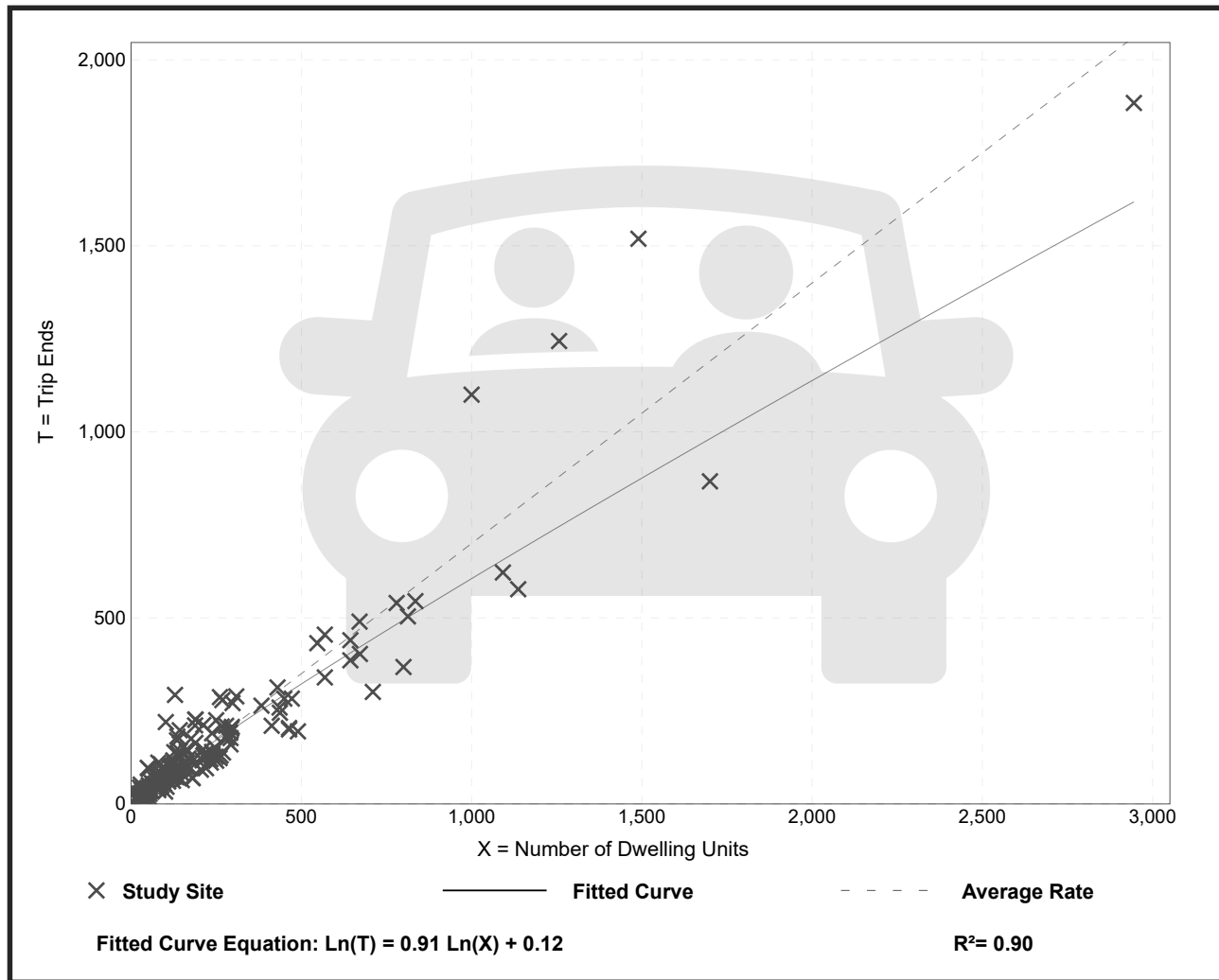
Setting/Location: General Urban/Suburban

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



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.

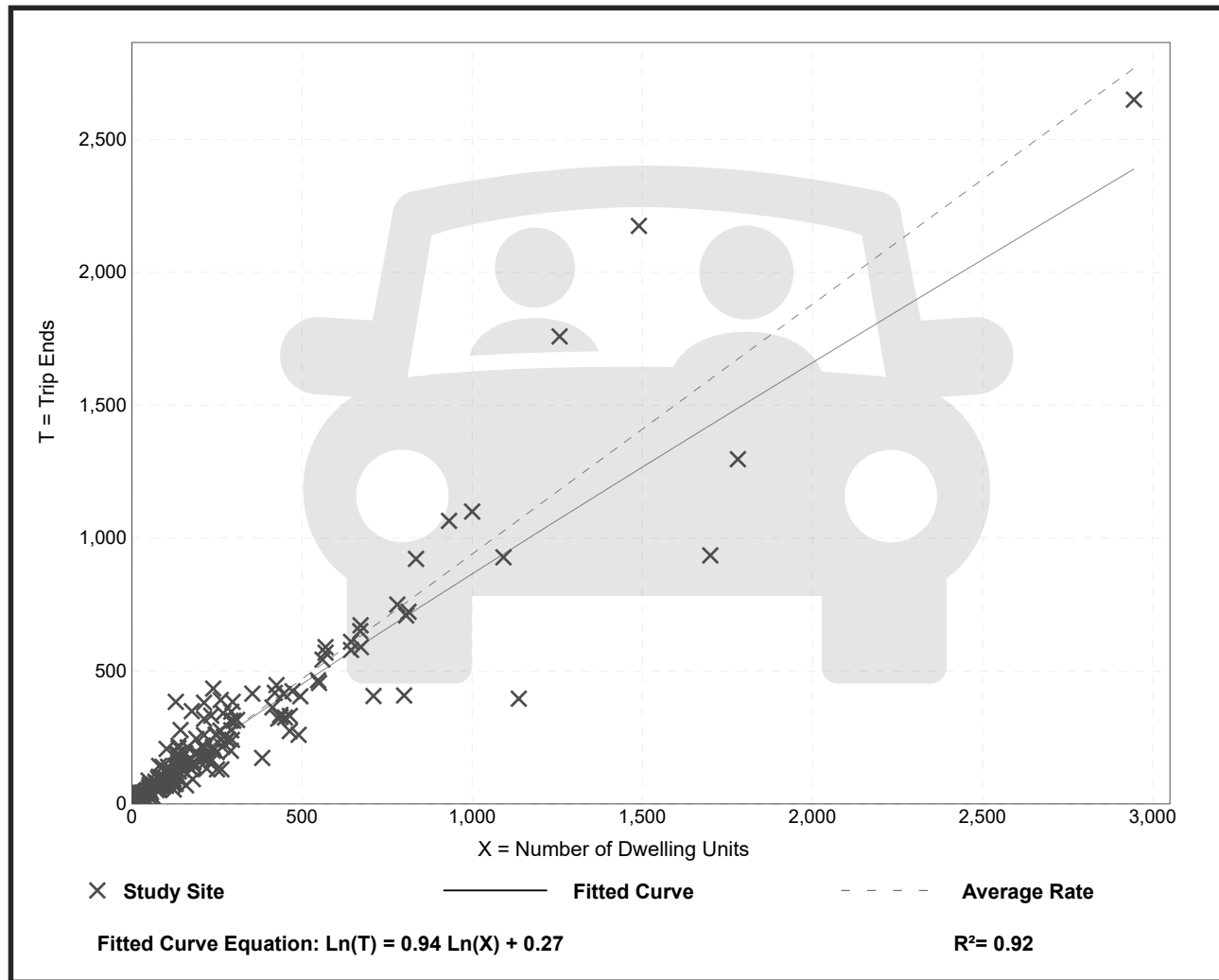
Setting/Location: General Urban/Suburban

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



Single-Family Attached Housing (215)

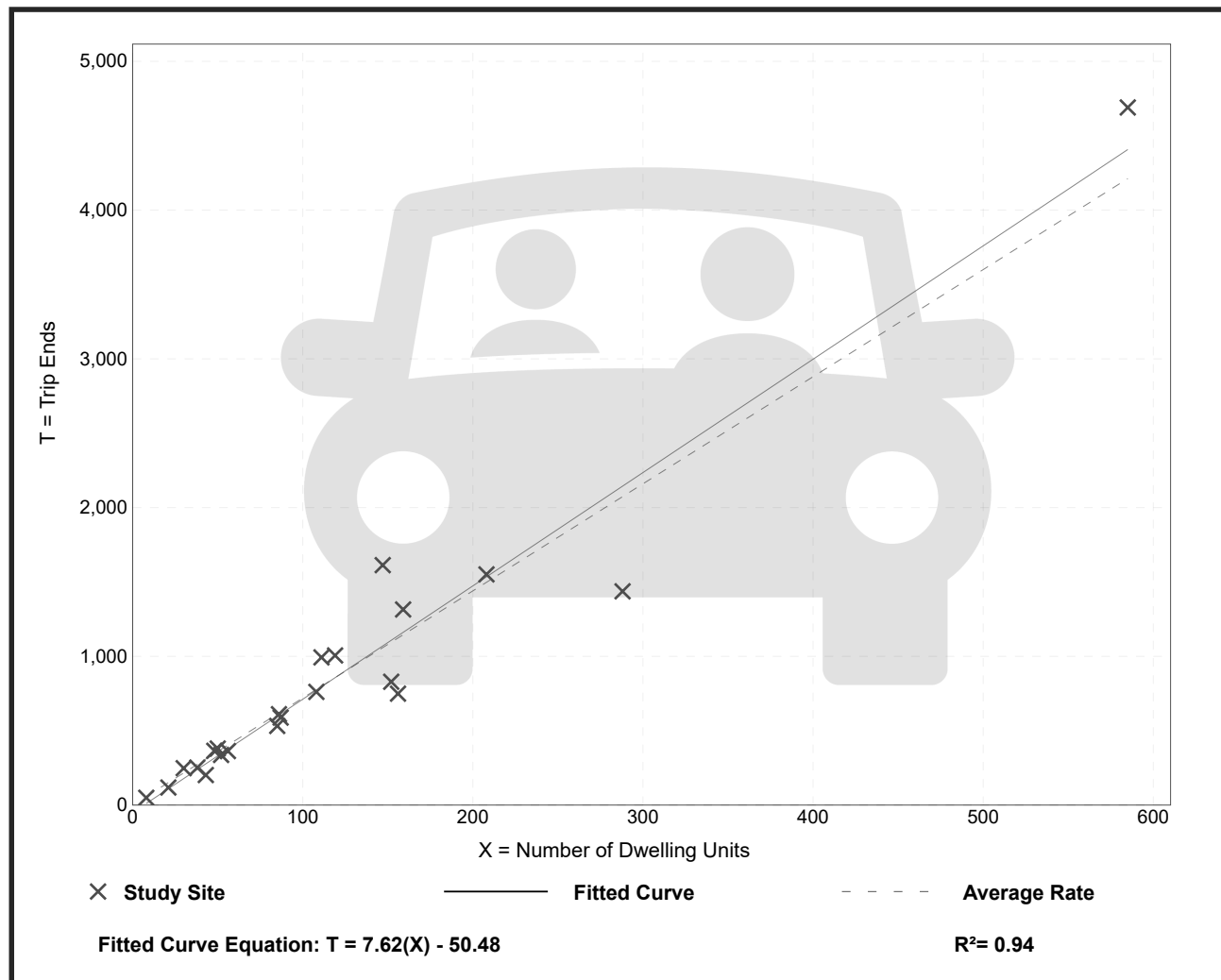
Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 22
Avg. Num. of Dwelling Units: 120
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
7.20	4.70 - 10.97	1.61

Data Plot and Equation



Trip Gen Manual, 11th Edition

● Institute of Transportation Engineers

Single-Family Attached Housing (215)

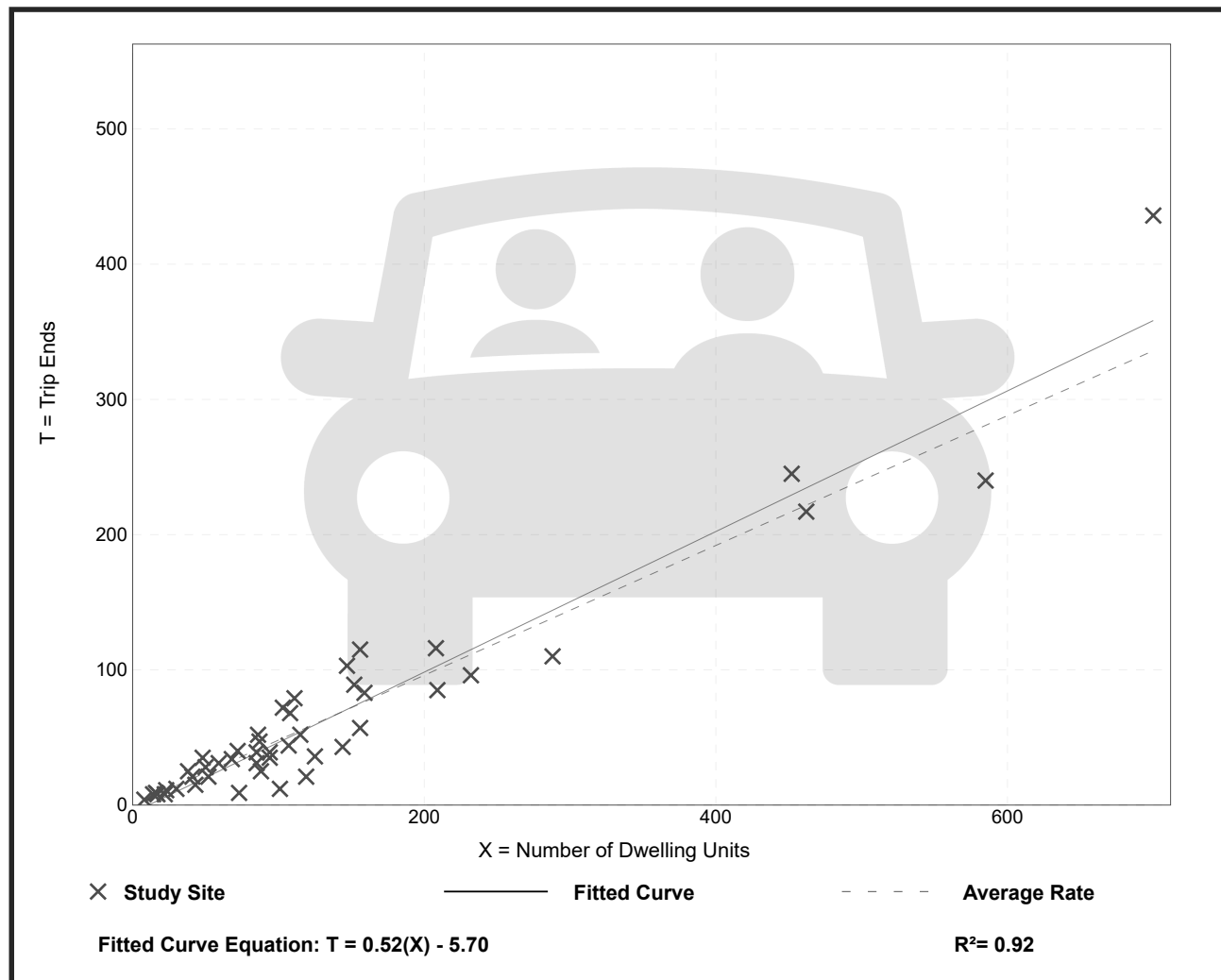
Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban
 Number of Studies: 46
 Avg. Num. of Dwelling Units: 135
 Directional Distribution: 25% entering, 75% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.48	0.12 - 0.74	0.14

Data Plot and Equation



Single-Family Attached Housing (215)

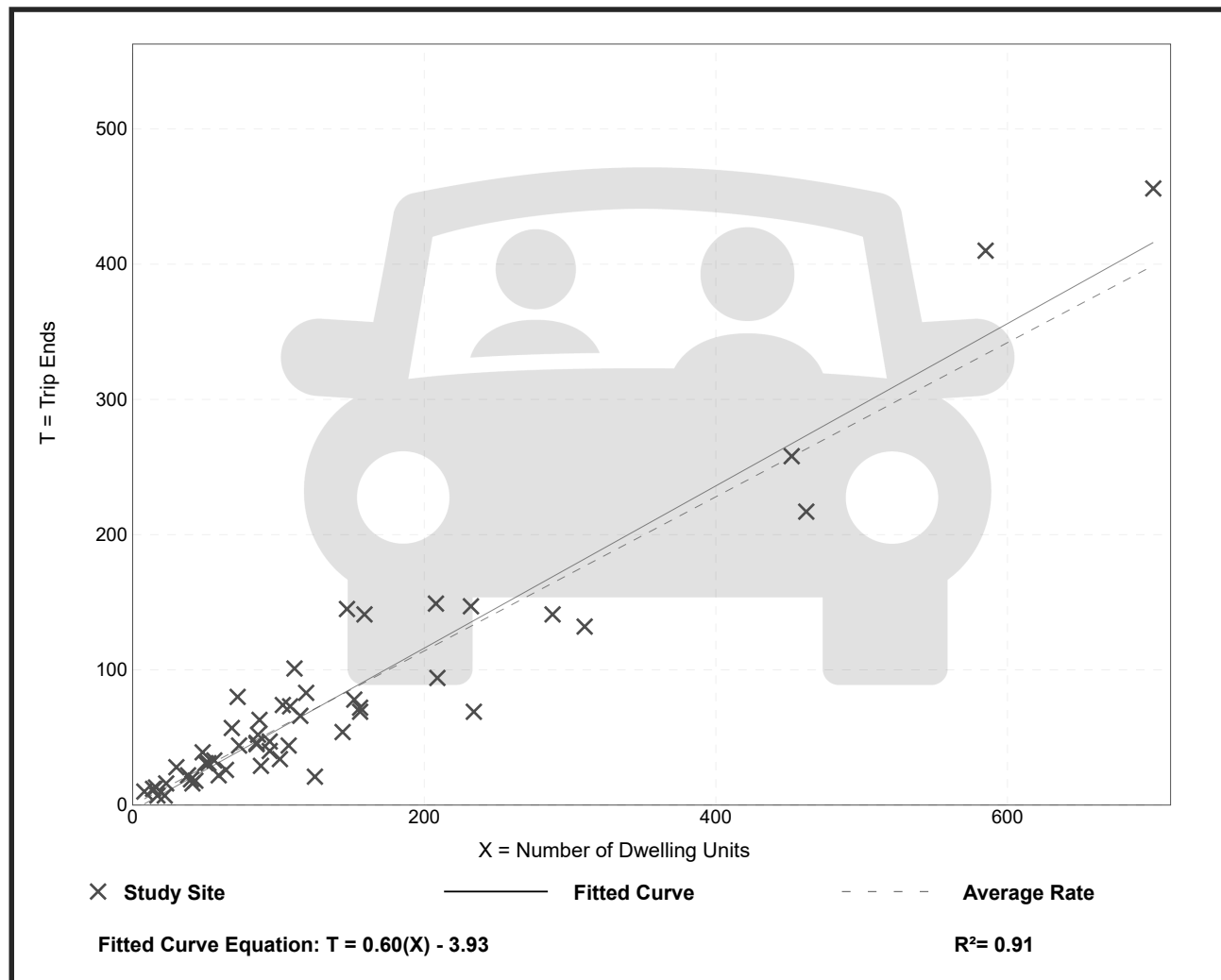
Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban
 Number of Studies: 51
 Avg. Num. of Dwelling Units: 136
 Directional Distribution: 59% entering, 41% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.57	0.17 - 1.25	0.18

Data Plot and Equation



1200 7TH AVENUE TOWNHOMES

A PORTION OF THE SW 1/4 OF THE SE 1/4 OF SEC. 27, T. 20N, R. 4E,
WILLAMETTE MERIDIAN, CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

OWNER

MICHAEL G. HOPKINS
MGHOPKINS@HOTMAIL.COM

ADDRESS

1200 7TH AVE SE
PUYALLUP, WA 98374

PARCEL NO.

PIERCE COUNTY TAX PARCEL NUMBER : 7845001330

SETBACKS

FRONT: 15'
REAR: 15'
INTERIOR STREET: 10'

SURVEY BY:

CEIS NW, INC.
429 - 29TH STREET NE, SUITE D
PUYALLUP, WA 98372
PHONE: 253-848-4282

VERTICAL DATUM:

NAVD88 (PER THE WASHINGTON STATE REFERENCE NETWORK, WGS)

BASIS OF BEARINGS:

NAD 83-2011 (EPOCH 2010.00), WASHINGTON STATE PLANE, SOUTH ZONE, (PER THE WASHINGTON STATE REFERENCE NETWORK, WGS)

PROJECT STATISTICS

SITE = 20,799 SF (0.47 AC)
ZONING = RM10 (RESIDENTIAL MULTI-FAMILY)
DENSITY = 8 DU PER ACRE MIN, 10 DU PER ACRE MAX
UNITS PROPOSED = 6 (8*0.46 = 3.68 DU/AC MIN. / 10*0.46 = 4.60 DU/AC MAX.)

BUILDING COVERAGE MAX. = 60% (12,479 SF)
PROPOSED BUILDING COVERAGE = 23% (4,691 SF)
ROOF AREA = 4,691 SF
IMPERVIOUS AREA = 10,770 SF
PRIVATE OPEN SPACE PROVIDED = 200 SF/UNIT (PATIO)
COMMON OPEN SPACE PROVIDED = 4,212 SF
PARKING SPACES PROVIDED = 12

MINIMUM LOT WIDTH = 30'
MINIMUM LOT DEPTH = 70'
MINIMUM FRONT SETBACK = 15'
MINIMUM REAR SETBACK = 15'
MINIMUM INTERIOR SIDE SETBACK = 3'
MINIMUM STREET SIDE YARD SETBACK = 10'
MINIMUM STREET FRONTAGE = 15'
HEIGHT MAX = 28'

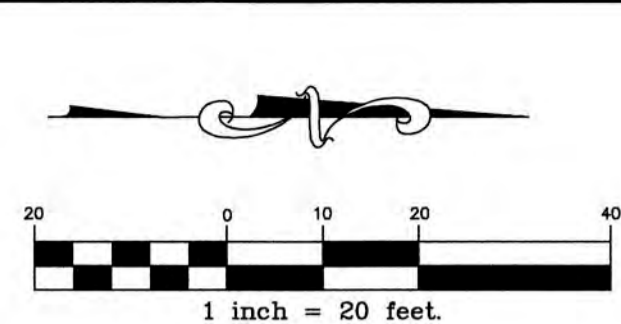
SOIL TYPE: PUYALLUP SANDY LOAM

LEGAL DESCRIPTION

(PER STATUTORY WARRANTY DEED FILED UNDER RECORDING NUMBER 201910110806).

THE WEST 33 FEET OF BLOCK 77, AND THE EAST 50 FEET OF BLOCK 78, FRANK R. SPINNING'S FIRST ADDITION TO THE TOWN OF PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 4 OF PLATS, PAGE 86, IN PIERCE COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

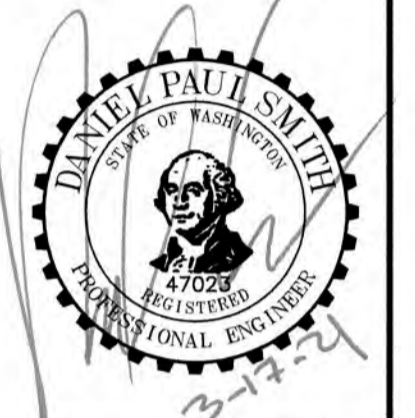


APPROVED
BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: _____
NOTE:
THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

SHEET INDEX

- C1 COVER
- C2 EROSION CONTROL PLAN
- C3 EROSION CONTROL NOTES & DETAILS
- C4 PAVING AND DRAINAGE PLAN
- C5 DETENTION TANK PLAN
- C6 FRONTAGE IMPROVEMENT PLAN
- C7 DIMENSION/STRIPING PLAN
- C8 STREET AND STORM NOTES & DETAILS
- C9 SEWER AND WATER PLAN
- C10 SEWER AND WATER NOTES & DETAILS

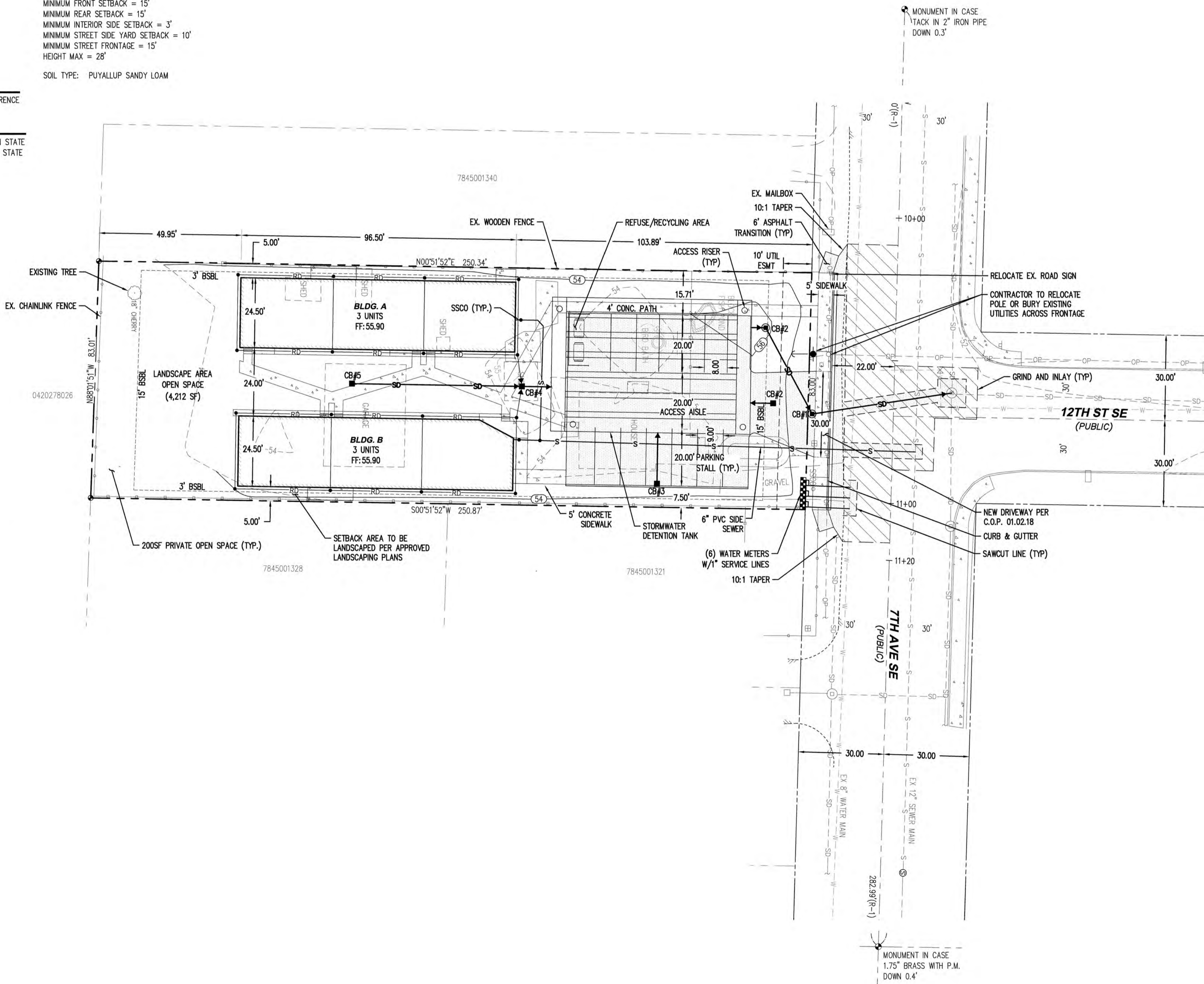
No.	Revision	Date



C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
429 - 29TH STREET NE, SUITE D
PUYALLUP, WA 98372
PH: (253) 848-4282
ceservices@ceisnw.com

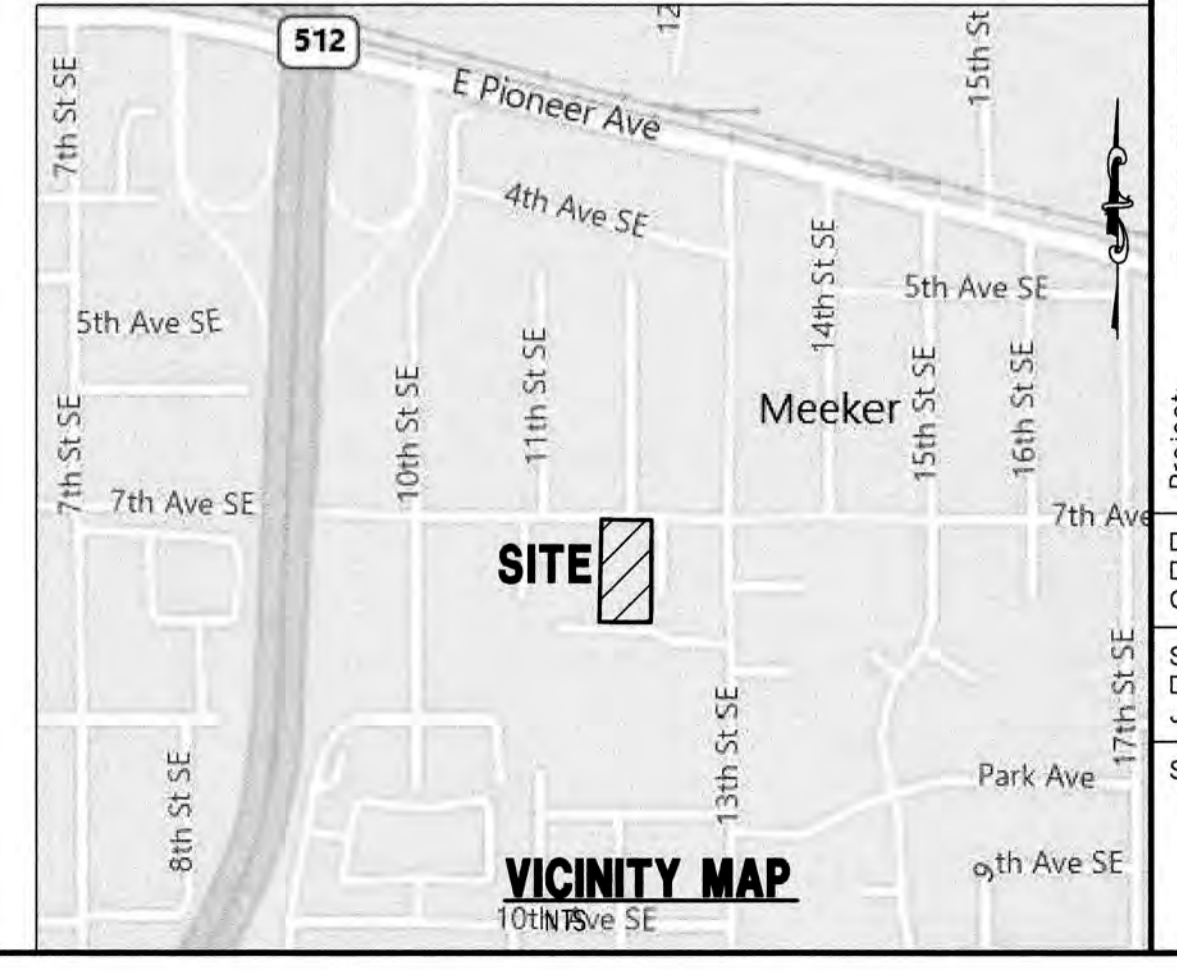
1200 7TH AVENUE TOWNHOMES
COVER AND SITE PLAN
TAC BUILD, LLC

Client: MGHOPKINS@HOTMAIL.COM
Project: 1200 7th St SE
Designed: DPS
Drawn: RWG
Checked: DPS
Scale: 1"=20'
Date: 3/15/21
Job No.: 19078
Sheet No.: **C1**
1 of 10 Sheets



LEGEND

EXISTING	DESCRIPTION	PROPOSED
⊕	MONUMENT	⊙
---	MONUMENT LINE	---
---	PROPERTY LINE	---
---	RIGHT OF WAY LINE	---
---	BUILDING SETBACK LINE	---
---	CHAIN LINK FENCE	---
---	WOOD FENCE	---
---	CURB & GUTTER	---
---	EDGE OF PAVEMENT	---
---	CONTOURS	---
---	STREET SIGN	---
---	STORM DRAIN CATCH BASIN	---
---	STORM DRAIN MANHOLE	---
---	STORM DRAIN LINE	---
---	SANITARY SEWER MANHOLE	---
---	SANITARY SEWER CLEANOUT	---
---	SANITARY SEWER LINE	---
---	FIRE HYDRANT	---
---	WATER VALVE	---
---	WATER METER	---
---	THRUST BLOCKING	---
---	WATER MAIN	---
---	POWER/UTILITY POLE	---
---	GUY WIRE	---
---	ASPHALT CONCRETE	---
---	CEMENT CONCRETE	---
---	SAWCUT LINE	---
---	GRIND AND INLAY	---



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