

November 10, 2021

Mike Nilsson, PE
City of Spokane Department of Engineering Services
808 W Spokane Falls Boulevard
Spokane, WA 99201

RE: Trip Generation and Distribution Letter
Kelly Preliminary Short Plat
Storhaug Engineering Project #21-006

Dear Mike,

It is the intent of this narrative to discuss the proposed Kelly Preliminary Short Plat, located at 3230 N. Ash Pl., Spokane, WA 99205, to summarize the trips generated by the completed project. The project fronts the east side of N. Ash Pl., in the residential area surrounding Drumheller Springs Conservation Area. The project site is 0.26-acres in size and is currently vacant. The current zoning of the site is RSF. Please see the attached drawings for site plan, vicinity map, and circulation diagram. The project is anticipated to be built in 1 phase, and construction will start in Summer of 2022.

Please see attached:

Exhibit 'A' – Trip Generation and Distribution Map
Exhibit 'B' – Kelly Preliminary Short Plat

Trip Generation characteristics for the Kelly Preliminary Short Plat project, are calculated from trip generation studies compiled by the Institute of Transportation Engineers, "Trip Generation", 10th Edition, 2017. The project proposes one (1) single-family home in addition to the previously platted residential lot previously accounted for. Based on the total number of units for the proposed project, Trip Generation characteristics of the project are projected as follows:

The trip generation characteristics of the commercial project conforms to ITE Land Use category 210, Single-Family Housing. The weekday trips were calculated as follows:

ITE 210 Single-Family Housing Weekday Trips: Average rate per household given at 9.44 trips per dwelling unit.

10 Weekday Trips

Allocation: 50% entering, 50% exiting: 5 trips enter, 5 trips exit

ITE 210 Single-Family Housing A.M. Peak Hour of Adjacent Street Traffic Trip Generation Fitted Curve Equation: $T = 0.71(X) + 4.80$

Calculation: $T = 0.71(1) + 4.80$

$T = 5.51$ rounded to **6 A.M. Peak Hour Trips**

Allocation: 25% entering, 75% exiting: 2 trips enter, 4 trips exit

ITE 210 Single-Family Housing P.M. Peak Hour of Adjacent Street Traffic Trip Generation

FITTED CURVE CALCULATION:

ITE EQUATION GIVEN:	$\ln(T) = 0.96\ln(X) + 0.20$
EQUATION VARIABLES:	$\ln(T) = A\ln(X) + B$
SOLVE FOR TRIPS:	$T = e^{(A*\ln(X)+B)}$
e = MATHEMATICAL CONSTANT	2.71828
A = ITE VARIABLE GIVEN	0.92
B = ITE VARIABLE GIVEN	2.71
X = NUMBER OF DWELLING UNITS	1
TRIPS (T)	1.22

2 P.M. Peak Hour Trips

Allocation: 63% entering, 37% exiting: 1 trips enter, 1 trips exit

Trip Generation summary for overall proposed project:

ADT Total: 10

A.M. Peak Total: 6, 2 enter, 4 exit

P.M. Peak Total: 2, 1 enter, 1 exit

It is anticipated that 100% of the traffic will travel to and from the north of the site, utilizing N Ash Pl. via W Liberty Ave. It is anticipated that 90% of this traffic will utilize N Oak St. and W Courtland Ave en route to the Maple-Ash arterial couplet and 10% of the traffic will travel to and from the west, utilizing W. Liberty Ave.

Written by: William Sinclair, PLA

Reviewed by: Jerry Storhaug, PE



A PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER,
SECTION 01, TOWNSHIP 25 NORTH, RANGE 42 E, W.M.,
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON

[illegible]

VICINITY MAP
NTS

GENERAL NOTES:

PARCEL NO.	25014.4205
ADDRESS:	3230 N ASH PL
PROPERTY SIZE:	0.26 ACRES
PROPOSED USE:	2--LOT SINGLE FAMILY SHORT PLAT
FIRE DISTRICT:	SPOKANE FIRE DEPT
SCHOOL DISTRICT:	SPOKANE #81
WATER PURVEYOR:	CITY OF SPOKANE - STATIC PRESSURE AT SITE: 63 P.S.I.
SEWER PURVEYOR:	CITY OF SPOKANE
OWNER:	RESIDENTIAL SINGLE--FAMILY (RSF)
COMPREHENSIVE PLAN DESIGNATION:	SINGLE FAMILY RESIDENTIAL
ZONING	RSF
SETBACKS:	15' FRONT (20' GARAGE)/ 25' REAR / 5' SIDE/FLANKING YARD
DENSITY:	7.69 DWELLING UNITS PER ACRE

NOTES:

- NOTES:
1. LANDSCAPING, FIRE ACCESS, PARKING, DRIVEWAYS, ACCESS/UTILITY EASEMENTS TO BE MADE WHERE NECESSARY PER FINAL DESIGN OF THE SHORT PLAT AND SITE IMPROVEMENTS. ALL IMPROVEMENTS WILL FOLLOW SPOKANE COUNTY CODES.
 2. STORM DRAINAGE TO BE ADDRESSED AT THE TIME OF BUILDING PERMIT.

LEGAL DESCRIPTION:

LOT 7, BLOCK 3, DRUMHELLER SPRING ADDITION, AS PER PLAT RECORDED IN VOLUME "E" OF PLATS, PAGE 11, RECORDS OF SPOKANE COUNTY;









TOGETHER WITH THAT PORTION OF DALTON AVENUE VACATED BY ORDINANCE NO. C-27577 THAT WOULD ATTACH BY OPERATION OF LAW;

SITUATE IN THE CITY OF SPOKANE, COUNTY OF SPOKANE, STATE OF WASHINGTON.



SURVEYOR'S CERTIFICATE

I, TROY A. CARLSON, PLS 48373, DO HEREBY CERTIFY THAT THIS PRELIMINARY PLAT WAS PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH LOCAL ORDINANCES AND THAT THE TOPOGRAPHICAL ITEMS SHOWN ARE IN ACCORDANCE WITH WAC 332-130-145.

LEGEND

	SUBJECT PARCEL BOUNDARY
	EXISTING PROPERTY LINE
	SECTIONAL LINE
	RIGHT-OF-WAY CENTER LINE
	RIGHT-OF-WAY MONUMENT LINE
	BUILDING SETBACK
	BLOCK NUMBER
	PROPERTY ADDRESS

EXISTING FEATURES

_____ W _____	WATER LINE
_____ SS _____	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	FIRE HYDRANT

PROPOSED IMPROVEMENTS

— WA — WATER LINE (AS SIZED)
 — SS — SANITARY SEWER LINE

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

TROY A. CARLSON
PLS 48373

AGENT

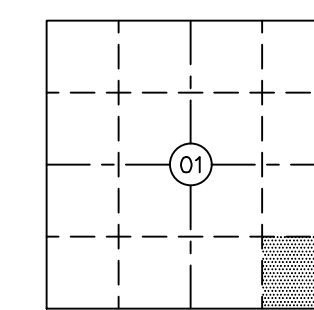
STORHAUG ENGINEERING
510 E 3RD AVE
SPOKANE, WA 99202
CONTACT: WILLIAM SINCLAIR
509.242.1000

SURVEYOR

STORHAUG ENGINEERING
510 E 3RD AVE
SPOKANE, WA 99202
CONTACT: TROY CARLSON
509.242.1000

OWNER

DAVID KELLY
PO BOX 10792
SPOKANE, WA 99209



SEC.01, T.25N, R.42E., W.M.



DATE 10.25.2021	SCALE 1" = 20'
FIELD BOOK	DRAWN WMS
PROJECT NUMBER 21-006	DRAWING NO. 1 OF 1

1-006 - PP.dwg PP



ELEVATION DATUM

NAVD88 ESTABLISHED FROM GPS OBSERVATION
ON LOCAL CONTROL POINTS USING THE
WASHINGTON STATE REFERENCE NETWORK.

TRIP GENERATION AND DISTRIBUTION MAP

KELLY PRELIMINARY SHORT PLAT

34911 N NEWPORT HWY , CHATTAROY, WA 99003

STORHAUG JOB NO. S21-006

November 10, 2021

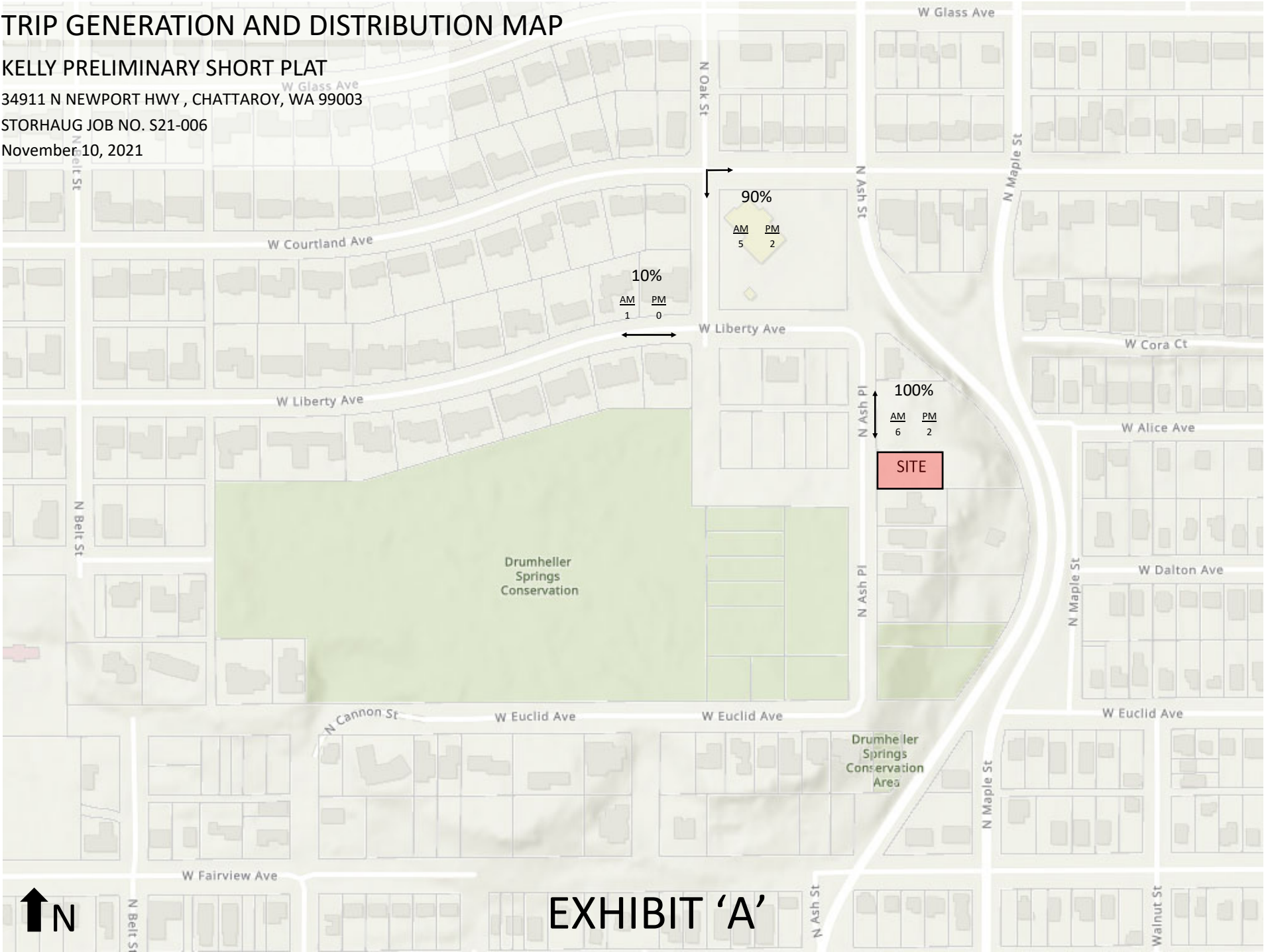


EXHIBIT 'A'