MEMORANDUM

DATE: February 26, 2015 DRAFT FOR REVIEW

TO: Kurt Seemann, P.E.

City of Redmond

FROM: Jeff Schramm

TENW

SUBJECT: Level 1 Traffic Assessment and Concurrency Application

Duke's Landing - City of Redmond

TENW Project No. 5020

This memorandum summarizes the preliminary traffic information for the proposed Duke's Landing residential development including a project description, trip generation estimate, and transportation concurrency application.

Project Description

The proposed Duke's Landing site is located west of West Lake Sammamish Parkway NE between NE 46th Street and NE 48th Street as shown in the Attachment A site plan. The project would include the development of up to 17 single-family detached dwelling units and one duplex on a site that currently has one single-family home and barn, which would be removed. Vehicular access to the site would be provided onto NE 48th Street via a new residential road. The anticipated year of occupancy is 2017.

Trip Generation

The weekday daily, AM and PM peak hour trip generation estimates for the proposed residential development were based on trip equations published in the Institute of Transportation Engineers (ITE) *Trip Generation* manual, 9th edition. The resulting weekday daily, AM and PM peak hour trips are summarized in Table 1. A detailed trip generation estimate is included in Attachment B.

Table 1
Duke's Landing – Trip Generation Summary

	Net T	Net Trips Generated				
Time Period	In	Out	Total			
Weekday Daily	102	101	203			
Weekday AM Peak Hour	3	10	13			
Weekday PM Peak Hour	13	7	20			

As shown in Table 1, the Duke's Landing development is estimated to generate 203 weekday daily trips with 13 trips occurring during the weekday AM peak hour (3 in, 10 out) and 20 trips during the weekday PM peak hour (13 in, 7 out).

Transportation Concurrency

A transportation concurrency application and Mobility Unit calculation is included in Attachment C.

Next Steps

Upon your review of our trip generation estimates, please let us know if you need any additional information regarding the project.

If you have any questions, please feel free to contact me at (425) 250-0581 or schramm@tenw.com.

cc: Jeff Haynie, P.E. Principal TENW

Attachments: A. Preliminary Site Plan Concept

B. Trip Generation Estimate

C. Transportation Concurrency Application



ATTACHMENT 19

Level 1 Traffic Assessment – Duke's Landing

ATTACHMENT A

Site Plan Concept

ATTACHMENT B

Trip Generation Calculations

Duke's Landing - Redmond Trip Generation

DAILY									
			ITE	Directional Split		Trip Rate	Tr	Trips Generated	
Land Use	Units		LUC 1	In	Out	Total	In	Out	Total
Proposed Use									
Single-Family	17	Dwelling Units	210	50%	50%	Equation	103	103	206
Multi-Family	1	Dwelling Units	230	50%	50%	Equation	6	6	12
Existing Use									
Single-Family	1	Dwelling Units	210	50%	50%	Equation	-7	-8	-15
			Net Nev	v Weekday	y Daily Trip	os Generated =	102	101	203
AM PEAK HO	OUR								
		<u> </u>	ITE	Directio	nal Split	Trip Rate	Tr	ips Gene	rated
Land Use	Units		LUC 1	In	Out	Total	In	Out	Total
Proposed Use									
Single-Family	17	Dwelling Units	210	25%	75%	Equation	5	17	22
Multi-Family	1	Dwelling Units	230	17%	83%	Equation	0	1	1
Existing Use									
Single-Family	1	Dwelling Units	210	25%	75%	Equation	-2	-8	-10
			Net Ne	w AM Pea	k Hour Trip	s Generated =	3	10	13
PM PEAK HC	UR								
		_	ITE	Directio	nal Split	Trip Rate	Tr	Trips Generated	
Land Use	Units		LUC 1	In	Out	Total	In	Out	Total
Proposed Use									
Single-Family	17	Dwelling Units	210	63%	37%	Equation	13	8	21
Multi-Family	1	Dwelling Units	230	67%	33%	Equation	1	0	1
Existing Use									
Single-Family	1	Dwelling Units	210	63%	37%	Equation	-1	-1	-2
			Net Ne	ew PM Pea	k Hour Trip	s Generated =	13	7	20

Notes

¹ Institute of Transportation Engineers, *Trip Generation Manual*, 9th Edition, 2012 Land Use Codes.

ATTACHMENT C

Transportation Concurrency Application

CITY OF REDMOND TRANSPORTATION CONCURRENCY APPLICATION

This application provides the City of Redmond with the information needed to issue a certificate of concurrency for a development. Please complete the entire form and return it to the Redmond Engineering Services Division. After agreement is reached on the mobility unit demand for a development based on the land use type, size of development and table on the back of this application, the City will, if necessary, determine if enough mobility unit supply is available to issue a certificate of concurrency. If determining the mobility unit demand for a development requires an independent calculation a fee for the review will be required, payable at the City Hall Permit Center.

1.	Applicant name and address:		Duke's Landing, LLC				
	• •		227 Bellevue Way, Suite 174				
			Bellevue, WA 98004				
2.	Property location:						
	a.	Property address: 1641	0 NE 47th Street, Redmond, WA 98052				
	b.	Development name: D	Ouke's Landing				
	c. Assessor's Parcel Number(s): 555630-0067, 555630-0068, 555630-0069						
3.	Type		be requested: Preliminary Plat				

	Land Use Type (ITE Land Use Code)	Development Units	Mobility Unit Rate (see table on back)	Mobility Unit Demand	Notes
Proposed	Single Family Residential (210)	17 Units	2.42	41.14	
Troposeu	Multi-Family Residential (220)	1 Unit	1.7	1.7	
		T	otal Proposed:	42.84	
Existing	Single Family Residential (210)	1 Unit	2.42	2.42	
	L	Total Existing:	2.42		
Net No	ew Mobility Unit Demand (Total	40.42	•		

Signature of Applicant:		Date:
For Official Use Only:		
Mobility Unit Demand calculation reviewed:	Initials	Date
Concurrency certificate required: □ Yes □ No Application number:	Mobility Units	available: □ Yes □ No

TABLE 1. Development Mobility Unit Calculator

TABLE 1. Development Mobility				Mobility Units/Land Use Unit			
	Land Uses		ITE Land USE Code	Standard of Measure	Downtown Urban Center	Overlake Urban Center	Rest of City
		Single Family	210	dwelling	1.98	2.05	2.42
		Multiple Family	220	dwelling	1.39	1.44	1.7
,	rtial Tial	Residential Suites	N/A	residential suite	0.85	0.88	1.04
	Residential	Retirement Community	251	dwelling	0.64	0.66	0.78
	Res	Nursing Home	620	bed	0.52	0.54	0.63
_		Congregate Care/Asst Living	253	dwelling	0.4	0.41	0.49
		Hotel/Motel	310	room	1.86	1.93	2.28
		Bank/Savings & Loan	912	sq ft/GFA	23.38	24.18	28.61
		Day Care	565	sq ft/GFA	17.81	18.42	21.8
		Library	590	sq ft/GFA	10.53	10.9	12.89
	es	Post Office	732	sq ft/GFA	16.19	16.75	19.82
	Services	Service Station	944	fuel position	10.67	11.04	13.07
	Se	Service Station/Minimart	945	fuel position	7.8	8.07	9.54
		Movie Theater	444,445	seat	0.11	0.12	0.14
		Carwash	947	stall	6.93	7.17	8.48
		Health Club/Racquet Club	492,493	sq ft/GFA	6.85	7.08	8.38
	a	Elementary School	520	student	0.16	0.17	0.2
	Institutional	High School	530	student	0.16	0.17	0.2
		Church/House of Worship	560	sq ft/GFA	1.06	1.09	1.3
		Hospital	610	sq ft/GFA	1.52	1.57	1.86
	Rest- aurant	Restaurant	931	sq ft/GFA	11.53	11.93	14.11
		Fast Food Restaurant	934	sq ft/GFA	31.41	32.49	38.45
cial		up to 99,999	820	sq ft/GLA	6.34	6.56	7.76
Commercial	Retail Shopping Center	100,000-199,999	820	sq ft/GLA	6.05	6.26	7.41
ᇤ		200,000-299,999	820	sq ft/GLA	5.54	5.73	6.78
ပ	ျှင်	300,000 and over	820	sq ft/GLA	5.34	5.52	6.53
	ping	Supermarket	850	sq ft/GFA	13.68	14.15	16.74
	hop	Convenience Market	851 813, 815,	sq ft/GFA	45.37	46.94	55.54
	S iii	Free Standing Discount Store	861, 863, 864	sq ft/GFA	4.51	4.66	5.52
	Ret	Miscellaneous Retail	820	sq ft/GFA	5.35	5.54	6.55
		Furniture Store	890	sq ft/GFA	0.52	0.54	0.64
		Car Sales - New/Used	841	sq ft/GFA	4.03	4.17	4.94
	é	up to 99,999	710,715, 750	sq ft/GFA	6.58	6.81	8.06
	trativ	100,000-199,999	710,715, 750	sq ft/GFA	5.66	5.85	6.92
	ninistra Office	200,000-299,999	710,715, 750	sq ft/GFA	4.94	5.11	6.04
	Administrative Office	300,000 and over	710,715, 750	sq ft/GFA	4.63	4.79	5.67
		Medical Office/Clinic	720	sq ft/GFA	6.76	6.99	8.28
	ਲ	Light Industry/Manufacturing	110	sq ft/GFA	3.09	3.2	3.78
	ıstri	Industrial Park	130	sq ft/GFA	2.71	2.8	3.31
	Industrial	Warehousing/Storage	150	sq ft/GFA	1.02	1.05	1.25
		Mini Warehouse	151	sq ft/GFA	0.61	0.63	0.74

For uses with standard of measure in sq ft, mobility units are given per 1000 sq ft